

COMMONWEALTH of VIRGINIA

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October 18, 2017

The Honorable Stephen D. Newman P. O. Box 480 Forest, VA 24552

The Honorable Robert D. Orrock, Sr. P. O. Box 458
Thornburg, VA 22565

RE: Feasibility of Licensure of Certified Anesthesiologist Assistants

Dear Senator Newman and Delegate Orrock:

As referenced in my letter to you dated November 29, 2016, this is to advise you that the Board of Health Professions has conducted its study into the feasibility of licensure of Certified Anesthesiologist Assistants (CAA). The Board is authorized to advise on matters pertaining to the need for regulation of health professions and occupations and scope of practice issues pursuant to §54.1-2510.

The Board evaluated relevant education, training, examination, and continuing competency requirements, typical duties and functions, regulation in other U.S. jurisdiction, and the latest available anesthesia provider workforce data. They also incorporated into the study extensive public comment, pro and con, from over 190 stakeholders. Their research was guided by the standard policies and procedures as set forth in their Guidance Document 75-2 Appropriate Criteria in Determining the Need for Regulation of Any Health Care Occupation or Professions, revised February 1998. Note that the Appendix provides key questions that guide and reference the respective criteria: (1) risk of harm, (2) specialized skills and training, (3) autonomous practice, (4) scope of practice, (5) economic impact, (6) alternatives to regulation, and (7) least restrictive regulation. In order to recommend that any profession be licensed the policies require that *all* of the first six criteria be met.

The Board unanimously accepted the conclusion of its Regulatory Research Committee that the profession does not qualify for licensure in Virginia. The first six criteria were not met. CAAs do *not* practice autonomously. They practice under the direct supervision of Anesthesiologists and no other physician or anesthesia providers. Their potential scope would likely overlap considerably with other regulated professions and AA students would increase competition for already limited residency sites and slots needed by anesthesiologist and nurse anesthetist students. Their licensure would also impact the Board of Medicine's workload because an entirely new set of regulation would need to be developed and censure program administered.

Dr. Elizabeth Carter remains available for any questions you may have concerning the Board's findings. She may be reached at <u>Elizabeth.Carter@dhp.virginia.gov</u> or (804) 367-4426.

Very truly yours, David E. Brown, D.C. Director

Attachment: Certified Anesthesiologist Assistant Study Final Report

Virginia Department of Health Professions Virginia Board of Health Professions

Feasibility of Licensure of Certified Anesthesiologist Assistants

Executive Summary

Section 54.1-2510 of the *Code of Virginia* authorizes the Virginia Board of Health Profession to advise the Governor, General Assembly, and Director of the Department of Health Professions on matters pertaining to the regulation of health professions and occupations and scope of practice issues. The Board conducted this study into the feasibility of licensing Certified Anesthesiologist Assistants (CAAs) on behalf of the Department pursuant to requests from Senator Stephen Newman and Delegate Robert Orrock.

The review was guided by the principles, evaluative criteria, and research methods set forth in the Board's standard policies and procedures for evaluating the need for regulation of health occupations and professions. It examined CAA's education, training, competency examination and continuing competency requirement, typical duties and functions, regulation in other U.S. jurisdictions, available anesthesia workforce data, and CAA's the potential impact on the existing anesthesia professions regulated in Virginia: Anesthesiologists and Certified Registered Nurse Anesthetists.

The Board recommended against licensure for CAAs in Virginia. The burden imposed by state regulation was not justified due to the following findings:

- There is a lack of proof that there is a statewide shortage of anesthesia providers.
- AA students would increase competition for already limited training sites and slots needed by Virginia's Anesthesiologist and Nurse Anesthetist students.
- CAAs cannot practice independently but only with direct, on-site, supervision that is restricted to Anesthesiologists and no other physician or anesthesia care providers.
- CAA practice was thought to be unlikely to locate in underserved and other rural areas.
- The Board of Medicine's workload would increase to accommodate establishing an entirely new set of regulations and administration of the licensure program.

The Board additionally offered that if the General Assembly were to consider license legislation, Kentucky and Georgia models provide the safest approach. They require that CAAs also be licensed Physician Assistants. Because a single Anesthesiologist may supervise multiple CAAs at a given time, patient safety would be better assured with practitioners who are more broadly versed in overall patient health care, not limited to anesthesia care.

Virginia Department of Health Professions Virginia Board of Health Professions

Feasibility of Licensure of Certified Anesthesiologist Assistants

Background and Authority

The Virginia Board of Health Professions evaluated the feasibility of state licensure for certified anesthesiologist assistants (CAAs) pursuant to requests from Senator Stephen Newman and Delegate Robert Orrock to the Department of Health Professions. At its February 24, 2017 meeting, the Board assigned the review to the Regulatory Research Committee.¹

Code of Virginia §54.1-2510 authorizes the Board of Health Professions to advise the Governor, the General Assembly, and the Department Director on matters related to the regulation and level of regulation of health care occupations and professions in the Commonwealth. It also authorizes the Board to examine and advise on scope of practice conflicts involving regulated and unregulated professions.

Methodology

To guide such reviews, the Board applies the principles, standard evaluative criteria, and research methods detailed in its *Policies and Procedures for Evaluation of the Need to Regulate Health Occupations and Professions, 1998.* ² This standard approach leads to evaluation of factors that are key to the public's protection and determination of the least level of regulation necessary. It is in keeping with regulatory principles established in Virginia law and accepted in the national community of regulators. For ease of reference, the "Criteria for Evaluating the Need for Regulation" table is on the following page. It provides a brief summary of the meaning of the respective seven criteria (hereinafter referred to as "the Criteria"). Additionally, selection of the *least* level of regulation is guided by consideration of the characteristics of licensure, state certification, and registration (the three most commonly used methods of professional regulation and the specific criteria that apply to each³ See the Application of the Criteria table on Page 4.

¹ See the correspondence from Senator Newman, Delegate Orrock and Department Director Dr. David Brown's response is provided in Appendix 1 and workplan in Appendix 2.

² Published as Guidance Document 75-2 accessible at http://www.dhp.virginia.gov/bhp/guidelines/75-2.doc.

³ NOTE: The descriptions are intended to differentiate *general* levels of professional regulation.

Criteria for Evaluating the Need for Regulation

Criterion One: Risk for Harm to the Consumer -The unregulated practice of the health occupation will harm or endanger the public health, safety or welfare. The harm is recognizable and not remote or dependent on tenuous argument. The harm results from: (a) practices inherent in the occupation, (b) characteristics of the clients served, (c) the setting or supervisory arrangement for the delivery of health services, or (d) from any combination of these factors.

Criterion Two: Specialized Skills and Training - The practice of the health occupation requires specialized education and training, and the public needs to have benefits by assurance of initial and continuing occupational competence.

Criterion Three: Autonomous Practice - The functions and responsibilities of the practitioner require independent judgment and the members of the occupational group practice autonomously.

Criterion Four: Scope of Practice - The scope of practice is distinguishable from other licensed, certified and registered occupations, in spite of possible overlapping of professional duties, methods of examination, instrumentation, or therapeutic modalities.

Criterion Five: Economic Impact -The economic costs to the public of regulation the occupational group are justified. These costs result from restriction of the supply of practitioner, and the cost of operation of regulatory boards and agencies.

Criterion Six: Alternatives to Regulation -There are no alternatives to State regulation of the occupation which adequately protect the public. Inspections and injunctions, disclosure requirements, and the strengthening of consumer protection laws and regulations are examples of methods of addressing the risk for public harm that do not require regulation of the occupation or profession.

Criterion Seven: Least Restrictive Regulation - When it is determined that the State regulation of the occupation or profession is necessary, the least restrictive level of occupational regulation consistent with public protection will be recommended to the Governor, the General Assembly and the Director of the Department of Health Professions.

Application of the Criteria

Licensure

Licensure confers a monopoly upon a specific profession whose practice is well-defined. It is the most restrictive level of occupational regulation. It generally involves the delineation in statute of a scope of practice reserved to a select group based upon their possession of unique, identifiable, minimal competencies for safe practice. In this sense, state licensure typically endows a particular occupation or profession with a monopoly in a specific scope of practice.

RISK: High potential, <u>attributable to the nature of the practice</u>.

SKILL & TRAINING: Highly specialized accredited post-secondary education required; clinical proficiency is certified by an accredited body.

AUTONOMY: Practices independently with a high degree of autonomy; little or no direct supervision. SCOPE OF PRACTICE; Definable in enforceable legal terms.

COST: High

APPLICATION OF THE CRITERIA: When applying for licensure, the profession must demonstrate that Criteria 1 through 6 are met.

Statutory Certification

Certification by the state is also known as "title protection." No scope of practice is reserved to a particular group, but only those individuals who meet certification standards (defined in terms of education and minimum competencies which can be measured) may title or call themselves by the protected title.

RISK: Moderate potential, <u>attributable to the nature of the practice</u>, <u>client vulnerability</u>, <u>or practice</u> <u>setting and level of supervision</u>.

SKILL & TRAINING: Specialized; can be differentiated from ordinary work. Candidate must complete education or experience requirements that are certified by a recognized accrediting body.

AUTONOMY: Variable; some independent decision-making; majority of practice actions directed or supervised by others.

SCOPE OF PRACTICE: Definable but not stipulated in law.

AUTONOMY: Variable; some independent decision-making; majority of practice actions directed or supervised by others.

COST: Variable, depending upon the level of restriction of supply of practitioners.

APPLICATION OF CRITERIA: When applying for statutory certification, a group must satisfy Criterion, 1, 2, 4, 5 and 6.

Registration

Registration requires only that an individual file his name, location, and possibly background information with the state. No entry standard is typically established for a registration program.

RISK: Low potential, but consumers need to know that redress is possible.

SKILL & Training: Variable, but can be differentiated from ordinary work and labor.

AUTONOMY: Variable.

APPLICATION OF CRITERIA: When applying for registration, Criterion 1, 4, 5, and 6 must be met.

The following provides a general overview of the anesthesiologist assistant (AA) profession based upon objective, publically available information researched responsive to the Criteria. This overview includes the profession's origins, functions, private credentialing requirements, the current number credentialed, regulation in other states, and available disciplinary information.

The report also highlights comparisons with other anesthesiology providers, Anesthesiologists and Certified Registered Nurse Anesthetists. Because there is not yet a standard, universally accepted means for assessing healthcare workforce supply and demand, the report references findings from multiple independent resources with current and/or projected practitioner supply vs. population and job openings. These references are drawn from the U.S. Health and Human Services Human Resources Services Administration, U.S. Department of Economics Bureau of Labor Statistics, Virginia Employment Commission Labor Market Information, Department of Health Professions Healthcare Workforce Data Center and relevant information from the Cecil G. Sheps Center FutureDocs supply and demand projections for Anesthesiologists. Finally, the report details public comment received from a public hearing on June 27, 2017 and written comment received until July 31, 2017.

Overview of the Profession

The profession now known as Anesthesiologist Assistant (AA) was first conceived in the 1960s by three Anesthesiologists in response to anesthesia provider shortage concerns at the time. Drs. Joachim S. Gravenstein, Joe E. Steinhaus, and Perry P. Volpitto envisioned the role of an "anesthesia technologist" to serve as an applied physiologist on the anesthesia team. This mid-level profession was envisioned to support the anesthesiologist similarly to certified registered nurse anesthetists (CRNAs) but with an educational curriculum that required a foundation in pre-medical school coursework. This was intended to help pave the way to future medical school application for those who might wish to become Anesthesiologists.

The first AA education program at Emory University in Atlanta, Georgia began accepting students in 1969, followed by Case Western Reserve in Cleveland, Ohio in 1970. ⁶ Today, there are 11 anesthesiologist assistant programs, with ten accredited and one pending accreditation. Accreditation is through the Commission on Accreditation of Allied Health Education Programs (CAAHEP) in conjunction with the Accreditation Review Committee for the Anesthesiologist Assistant (ARC-AA). ^{7, 8} ARC-AA is comprised of members from the American Academy of

⁴ Kentucky Legislative Review Commission. (2007). *A study of anesthesiology assistants*. (Research report No. 337). Retrieved from http://www.lrc.ky.gov/lrcpubs/RR337.pdf.

⁵ Current estimates are that approximately 10% of AAs apply for medical school admission.

⁶ Department of Veterans Affairs. (2006). *Qualification Guidelines for the Position of Anesthesiologist Assistant, GS-0601.* Human Resources Management Letter No. 05-06-12. Retrieved April 18, 2017.

⁷ Staff search of CAAHEP Accredited Program site accessed March 21, 2017: http://www.caahep.org/Find-An-Accredited-Program/.

⁸ Minimum standards for CAAHEP anesthesiologist assistant accreditation are available at http://www.caahep.org/arc-aa.

Anesthesiologist Assistants (AAAA) and the American Society of Anesthesiologists (ASA). The Current Anesthesia Assistant Education Programs table on the next page lists them by state and accreditation status. Programs award a Master's degree upon completion.

	Current Anesthesia Assistant Educational P	rograms			
State	Program	Accreditat ion Status	Notes		
Colorado	University of Colorado School of Medicine http://www.ucdenver.edu/academics/colleges/medicalschool/depart ments/Anesthesiology/Education/aaprogram/AAadmission/Pages/Ad mission-Requirements.aspx	Initial 2013			
Connecticut	Quinnipiac University https://www.qu.edu/schools/medicine/programs/anesthesiologist-assistant-program.html#admissionsrequirements	Initial 2014			
D.C.	Case Western Reserve University https://case.edu/medicine/msa-program/admissions/requirements/	Continuing 2012	First of two Case Western Reserve expansions		
Florida	NOVA Southeastern University – Tampa http://healthsciences.nova.edu/healthsciences/anesthesia/tampa/req uirements.html	Continuing 2009	Two campuses		
	NOVA Southeastern University – Ft. Lauderdale http://healthsciences.nova.edu/healthsciences/anesthesia/fort_lauder_dale/requirements.html	Continuing 2009			
Georgia	Emory University https://med.emory.edu/aa_program/admissions/prereq.html	Continuing 1969	First AA program		
	South University https://www.southuniversity.edu/savannah/areas-of- study/anesthesiologist-assistant/anesthesiologist-assistant-master-of- medical-science-mmsc/admissions	Continuing 2004?			
Missouri	University of Missouri Kansas City School of Medicine http://med.umkc.edu/msa/requirements/	Continuing 2008			
Ohio	Case Western Reserve University https://case.edu/medicine/msa-program/admissions/requirements/	Continuing 1970			
Texas	Case Western Reserve University https://case.edu/medicine/msa-program/admissions/requirements/	Continuing 2008	Second Case Western Reserve expansion program. Partnered with the University of Texas Houston Medical Center		
Wisconsin	Medical College of Wisconsin http://www.mcw.edu/Medical-School/Home/Master-of-Science-in- Anesthesia-Program/Apply.htm	Initial Pending			

AA program admissions candidates must have a Bachelor's degree and completed coursework that would qualify the student to pursue a post-baccalaureate degree in medicine, dentistry or

one of the basic medical sciences. ⁹ Specific courses may vary but generally include biology, chemistry, organic chemistry, physics and advanced mathematics topics. Candidates must also submit Graduate Record Examination (GRE) or Medical College Admission Test (MCAT) scores, most programs accept either examination, but the University of Missouri-Kansas, and Case Western programs accept only MCAT.¹⁰ Preferred scores are generally at the 55th percentile or higher.

According to the American Academy of Anesthesiologist Assistants "Frequently Asked Questions" summary, approved training programs must include a minimum of 24-28 months at the Master's level and be based at or in collaboration with a university with a medical school and academic anesthesiologist physician faculty. Each program must have at least one director who is a licensed, board certified anesthesiologist. Clinical training sites must be academic medical centers. Further, the programs must provide a minimum of 63 didactic hours and 2000 clinical training hours with clinical anesthesia experience in all of the surgical specialties including: ambulatory, cardiothoracic, general, gynecology, neurosurgery, obstetrics, orthopedics, pediatrics, and vascular. Papendix 3 contains a sample curriculum with course descriptions from the Case Western Reserve program.

The National Commission for Certification of Anesthesiologist Assistants (NCCAA) founded in 1989 is the national certifying organization for the profession. In addition to graduation from an accredited program, NCCAA requires passing an initial written certifying examination, NCCAA CERT. If successful, the NCCAA awards the AA with a time-limited certificate. To maintain certification requires 40 hours of Continuing Medical Education (CME) every two years and passage of the Continued Demonstration of Qualifications (CDQ) examination every six years is required to maintain NCCAA certification. ¹³

The NCCAA examinations were developed in concert with the National Board of Medical Examiners (NBME). In 1990, they helped develop the first CERT based upon job analysis with AAs and sponsoring physicians; the content domains and item bank were first established then. In 1997, they conducted a subsequent job analysis for the CDQ exam which was first administered in 1998. Each year, NCCAA appoints test committees to prepare the CERT and CDQ in consultation with NBME and psychometric experts. Exams are offered annually in February and June. ¹⁴ The test blueprints for both examinations are in Appendix 4.

⁹ American Academy of Anesthesiologist Assistants *Frequently Asked Questions* accessible at https://aaaa.memberclicks.net/fags.

¹⁰ Further details on respective programs pre-requisite courses, GPA and exam score requirements are available from the respective program's websites.

¹¹ http://www.anesthetist.org/faqs accessed December 5, 2016.

¹² American Academy of Anesthesiologist Assistants. *Career information for prospective anesthesiologist assistants* accessible at: https://aaaa.memberclicks.net/assets/docs/aaaa_career_information%20flyer.pdf.

¹³ NCCAA website: http://www.aa-nccaa.org.

¹⁴ "History and Operations" section of the NCCAA website accessed April 18, 2017.

NCCAA accepts CME credit for programs approved for continuing medical education credit by the following organizations: American Medical Association, American Association of Physician Assistants, Accreditation Council for Continuing Medical Education. Of the 40 hours required every two years, content for 30 hours must be in the field of anesthesiology or one of its subspecialties. The remaining hours can be in any medical topic. NCCAA conducts a random audit on an annual basis. For further details concerning CAA continuing education, see http://www.aa-nccaa.org/about/cme.

To determine an estimate on the overall number of AAs, Board staff contacted NCCAA. On April 5, 2017, NCCAA reported there were approximately 2,200 CAAs nationwide, and based upon the last certification period in June 2016, 16 CAAs had Virginia mailing addresses.¹⁵ Further information on practice location was not available.

Obtaining information on the number of AAs (including CAAs) in the U.S. and individual states' workforces is a challenge. The U.S. Health and Human Services National Practitioner Identifier (NPI)¹⁶ system and U.S. Bureau of Labor Statistics (BLS) reporting have data that can help provide some insights.

NPI online registry data ¹⁷ were accessed in April and searched using the term "Anesthesiologist Assistant." The data are current as of January 2017. The table is Appendix 5 contains details overall and by state on the number and percent of registered practitioners and businesses. There were 2,411 listed for the U.S. overall, and for Virginia four. The majority of states had fewer than 20 practitioners listed. Only two states, had more than half (56%) of all Anesthesiologist Assistant registrations. Georgia at 43% (1031), and Florida at 12.77% (308). Direct comparisons with NCCAA figures are difficult because credential entry was not mandatory in NPI, but the NPI's 2411 and NCCAA's approximate 2,200 are close and provide a good idea of the likely number of AAs practicing in the U.S.

BLS continuously tracks national and state labor market data related to industry sectors, individual occupations, geographic areas, and timeframes with multiple, interrelated publications and interactive tools. The AA national job market data is relatively sparse. But there are state-level data available for jobs using the title "Anesthesiologist Assistant."

In conjunction with BLS, the Virginia Employment Commission hosts the "Labor Market Information" (LMI)¹⁸ interactive tool. One of its key features is real-time tracking of open jobs and candidates posted online. On April 18, 2017, Virginia had five open jobs and four candidates seeking employment as "Anesthesiologist Assistant." Two jobs of those jobs were

¹⁵ From e-mails received from NCCAA Executive Director Cynthia Maraugha on April 5, 2017.

¹⁶ In October 2006, the Centers for Medicare and Medicaid Services first issued NPI numbers as a means to uniquely identify individual health care providers and organizations. The 10-digit NPI has been required for reimbursement since 2008 for all standard HIPPA transactions. Anesthesiologist Assistants are included and coded under the 367H00000X Series. Note that individuals may or may not list credentials such as CCA, PA-C, etc.

¹⁷ Queried April 6-10, 2017. Accessible at: https://npid.org.

¹⁸ Virginia LMI reports are accessible at https://data/virginialmi.com/vosnet/lmi/default.aspx?pu=1&plang=E.

in the City of Richmond, two in Montgomery County, and one in Fairfax County. ¹⁹ The estimated median annual wage in 2015 was \$91,984 and range of \$63,051 to \$104,229. Note that these figures are based on analysis of Physician Assistant not Anesthesiologist Assistant jobs due to their small number. Other states also have LMI similar tools. North Carolina had 11 open jobs and seven candidates and Kentucky had four open jobs with no candidates. ²⁰ A later section of this report will address additional federal, state, and independent academic workforce data, estimates and projections. These relate directly to the Criteria's requirement that the potential impact licensure may have on the scope of practice, marketability, economic and social status of other, similar groups, and economic costs to the public.

Typical AA Functions

The American Society of Anesthesiologists (ASA) "Statement on the Anesthesia Care Team" (ACT) ²¹ and American Academy of Anesthesiologist Assistants' (AAAA) "Certified Anesthesiologist Assistants: AA Scope of Practice/Job Description." provide their professional perspectives on what constitutes appropriate AA functions and duties. They are both rooted in the ASA's view that Anesthesiologists should be involved in the perioperative care of every anesthesia patient, either as provider or as director of an Anesthesia Care Team also comprised resident physicians in training in anesthesia care as well as non-physician anesthesia providers. The Anesthesiologist may delegate patient monitoring and tasks deemed appropriate to the non-physician providers but retains overall responsibility for the patient. Members of the ACT are to work together to provide optimal patient care. Team members include physicians (Anesthesiologists, anesthesiology fellows, anesthesiology residents) and non-physicians (AAs, AA students, CRNAs, student nurse anesthetists, and dental anesthesia students). See the full Statement for further details. The AAAA's job description lists functions that could be delegated to AAS. The list is not intended to be exhaustive, but provides insights into the duties expected of AAs.

- Obtain an appropriate an accurate pre-anesthetic health history; perform an appropriate physical examination and record pertaining data in an organized and legible manner,
- Perform diagnostic laboratory and related studies as appropriate, such as drawing arterial and venous blood samples,
- Administering anesthetic agents and any controlled substances, including but not limited to, administration
 of induction agents, maintaining and altering anesthesia levels, administering adjunctive treatment and
 providing continuing of anesthetic care into and during the post-operative recovery period,
- Establishing airway interventions and perform ventilator support,
- Apply, perform, and interpret advanced monitoring techniques,
- Use advanced life support techniques, such as high frequency ventilation and intra-arterial cardiovascular assist devices,

¹⁹ LMI searches of two surrounding states, North Carolina and Kentucky were done on April 24, 2017. North Carolina listed 11 jobs and seven candidates while Kentucky listed four openings with no candidates.

²⁰ Queried April 24, 2017.

²¹ Available at http://www.asahq.org.

²² Available at http://www.memberclicks.net

- Make post-anesthesia patient rounds by recording patient progress notes, compiling and recording case summaries, and by transcribing standing and specific orders,
- Evaluate and treat life-threatening situations, such as cardiopulmonary resuscitation, on the basis of established protocols (BLS, ACLS and PALS),
- Perform duties in intensive care units, pain clinics, and other settings, as delegated by the physician anesthesiologist,
- Train and supervise personnel in the calibration, troubleshooting, and use of patient monitors.
- Perform administrative duties in an anesthesiology practice or anesthesiology department such as patient record management, procedure coding and billing, and management of personnel,
- Participate in the clinical instruction of others, and
- Perform and monitor regional anesthesia to include, but not limited to, spinal, epidural,
 IV regional, and other special techniques such as local infiltration and nerve block

AA Regulation by States and other U.S. Jurisdictions

The scope of permissible AA clinical practice from the perspective of the states is defined in statutes and regulations. AAs are regulated in 18 states, the District of Columbia, and Guam as a profession (licensure or certification) or through physician delegated authority. That is, there are specific enabling statutes in those jurisdictions that permit AA practice. Appendix 6 indicates the type of regulation²³, education accreditation, examination and fees required in addition to a summary of the permitted scope, supervision and continuing education and recertification requirements.

There is some variability from state-to-state. But regardless of jurisdiction, AAs are permitted to practice only under the direction of Anesthesiologists, not other types of physicians or CRNAs. In most instances, the supervising Anesthesiologist must be physically present and "immediately available." For the majority of states, certification through the NCCAA is required for initial and ongoing licensure, certification or physician delegation.

The states most restrictive to practice entry are Georgia and Kentucky in that they require physician assistant licensure as well. Four states, Alabama, Ohio, Texas, and Wisconsin place restrictions on employment. Ohio and Texas permit AAs to bill for services, but the reimbursement goes to the employing entity. Although West Virginia does not regulate AAs as a profession, it should be noted that their statutes expressly permit AAs to bill for service.

Discipline for misconduct is also a responsibility of state boards. But obtaining disciplinary information on AAs can be challenging. It requires review of publically available board minutes, newsletters and online reporting. To date, staff have determined the following: Colorado has sanctioned two (2) for impairment issues, Alabama had one (1) for practicing prior to licensure,

²³ Note Michigan shifted from physician delegation to licensure in late 2016.

and Wisconsin one (1) for co-worker harassment. Kentucky provides links to 21 orders and Ohio shows six (6) cases but no further details are available without in depth review of each order.²⁴

Other Anesthesia Care Providers: Anesthesiologists and Certified Registered Nurse Anesthetists

Criteria 4 and 5, require consideration of the impact on Virginia's other licensed professions that perform similar functions and the potential economic impact regulation of the new group might entail. Although anesthesia care may be provided by practitioners²⁵ other than Anesthesiologists and CRNAs, they are the predominant professions most likely to be affected by AA licensure.

Anesthesiologists are licensed physicians who provide anesthesia for patients undergoing surgical, obstetric, diagnostic, or therapeutic procedures and currently monitor the patient's condition and supporting vital organ functions. They also diagnose and treat various forms of pain, including that associated with cancer. They also provide resuscitation and medical management for patient with critical illness and severe injuries. Anesthesiologist training typically involves four years of college, four years of medical school, one year of internship and four years of residency through an accredited program. Although one may practice anesthesiology without specialty certification, certification through the American Board of Anesthesiology (ABA) permits use of "Board Certified" or "Diplomate" titling. In a recent media release, the American Society of Anesthesiologist reports that about 75% of Anesthesiologists are ABA certified.

The Accreditation Council for Graduate Medical Examination (ACGME) reports that there are 147 Anesthesiologist specialty education programs in the U.S., with six pending approval in 2017. ²⁹ There are two programs in Virginia, at the University of Virginia and Virginia Commonwealth University Medical College of Virginia. According to the American Osteopathic College of Anesthesiologists 2015 Annual Report, there were 13 Anesthesiologist Osteopathic residency programs nationwide, none in Virginia. ³⁰

In addition to graduation from an accredited Anesthesiologist program, ABA requires a series of examinations to gain and maintain certification. Certification in critical care medicine, hospice and palliative care, and pain medicine, pediatric anesthesiology, and sleep medicine. and

²⁴ Georgia's online license lookup subsumes AAs within Physician Assistant listings which require in depth case-by-case research and the payment of processing fees.

²⁵ Dentists, for example.

²⁶ American Board of Medical Specialties. (2017). *ABMS Guide to Medical Specialties 2017*. American Board of Anesthesiologist, pp. 5-6. accessible at: https://www.abmsdirectory.com/pdf/Resources guide physicians.pdf

²⁷ http://www.theaba.org/ABOUT/About-the-ABA

²⁸ https://www.asahq.org/For-the-Public-and-Media/About-Profession.aspx

²⁹ http://www.acgme.org/ - accessed April 18, 2017

³⁰ http://c.ymcdn.com/sites/www.aocaonline.org/resource/resmgr/AOCA_Annual_Report_2015.pdf - accessed April 18, 2017.

subspecialties are also available through ABA. Further details are available upon request from ABA.

Nurses have been providing anesthesia care in the U.S. for over 150 years. Historically, trained nurses under the supervision of surgeons provided nearly all anesthesia care for surgical patients until anesthesiology was established as a medical specialty. Today, all 50 states permit CRNAs to perform various types of anesthesia care, under medical supervision of anesthesiologists or other physicians, or independently without medical supervision in 16 states.³¹

In Virginia, they are licensed by the joint Boards of Nursing and Medicine as Nurse Practitioners (NPs) but with this specialty area. They practice under the supervision of doctors of medicine, osteopathy, podiatry or dentistry but are not governed by the practice agreement requirements required of other NPs. 32 33 An applicant for initial licensure must hold a current license as a registered nurse in Virginia or through multistate licensure privilege, have graduated from an a nurse anesthesia program accredited by the Council on Accreditation of Nurse Anesthesia Educational Programs (COA)34 or its predecessor, and provide proof of certification from the National Board of Certification and Recertification for Nurse Anesthetists (NBCRNA). It should also be noted that acceptance into a COA accredited program first requires the candidate have at least one year's full-time or part-time equivalent work experience in a critical care setting.

As of December 2016, there were 115 accredited programs in the U.S., with two in Virginia, at Old Dominion University and Virginia Commonwealth University.³⁵ The latest COA standards require programs to prepare students at the doctorate level by 2018. VCU's program admitted their last Master of Science in Nurse Anesthesia student cohort in August 2016 and began matriculating doctoral students in January 2017. ³⁶

Certification through the NBCRNA also requires passage of the National Certification Examination. Further details concerning the examination are available if requested.

³¹ Tashaki, M & Tetsuro, S. (2011). The role of Certified Registered Nurse Anesthetists in the United States. *Journal of Anesthesia*, *25*(5), 734-740.

³² Regulations Governing the Licensure of Nurse Practitioners §18VAC 90-30 10 et seq.

³³ Nurse practitioner (NP) practice agreements are jointly developed by the collaborating patient care team physician(s) and the NP. The agreement describes procedures to be followed and acts appropriate to the specialty area in the care and maintenance of patients. Where applicable, practice agreement describes the NPs prescriptive authority.

³⁴ COA is the sole accrediting body for nurse anesthesia education programs recognized by the U.S. Department of Education and the Council on Higher Education

³⁵ http://home.coa.us.com/accredited-programs/Pages/List-of-Recognized-Programs-(LORP).aspx

³⁶ VCU School of Allied Health Professions Nurse Anesthesia Programs: http://www/.sahp.vcu.edu/departments/nrsa.programs/ accessed April 5, 2017.

Anesthesiologist and CRNA Workforce Estimates and Projections

Because the impact of a new group of providers may affect the existing anesthesia workforce, it is important to understand what is known concerning the number and distribution of providers. Because healthcare workforce research is a new field, the existing literature is sparse, disconnected, an often the result of work done in response to grants and other ad hoc funding opportunities. It tends to focus on samples of a handful of large professions and specialty areas. Methodologies vary widely even within the same profession and there are often years separating data collection and reporting.

Currently, the most reliable federal sources of information come from U.S. Department of Health and Human Services Health Resources Services Administration (HRSA) and the U.S. Department of Labor Bureau of Labor Statistics (BLS). Note that even their methodologies in that BLS tracks *employee* data and excludes from the counts those practitioners who are their own bosses.

The following describes the existing estimates and projections for the respective Anesthesiologist and CRNA workforces from both agencies. This will be followed by Virginia Department of Health Professions Healthcare Workforce Data Center results and a discussion of FutureDocs estimates and projections for Anesthesiologist services in Virginia.

HRSA's Chartbook and State Profiles

The U.S. Health Workforce Chartbook and its state-level breakout supplement "The U.S. Health Workforce – State Profiles," were both published in 2014. The Chartbook and State Profile provide a wealth of information on multiple health professions. Of most direct relevance for the current study is information from the State Profiles with estimates of practitioner counts and practitioner per 100,000 working age population ratios for each state. The source data are from 2008 to 2010. Although a bit dated, the results provide a much-needed standard, federal estimate of the nation's health workforce.³⁷ The table on the following page lists the CRNA count and CRNA ratio per 100,000 working age population.

These estimates indicate approximately 35,570 CRNAs were in the U.S. workforce in the 2008 to 2010 timeframe, with a mean of 13.5 CRNAs per 100,000 working age population. There is a great deal of variability among the states in both the number and ratio. As few as 24 CRNAs were in Vermont to as many as 2,488 in Florida and the population ratios ranged from 3.0 (Nevada and California) to 35.2 (South Dakota). When states are ranked from the smallest to largest ratios, the median is Georgia with 10.9. Virginia ranks just below in the 26th place at 11.3.

³⁷ There is no breakout by Physician specialty. There are also breakouts available by Physician (overall) Nurse Practitioner and Physician Assistant if needed.

As will be discussed in the section on the Virginia Department of Health Professions Healthcare Workforce Data Center, the State Profile may have underestimated the number of CRNAs in Virginia.

State	# CRNA estimated	CRNA to 100K working age Population	State	# CRNA estimated	CRNA to 100K working age Population
Alabama	1180	24.7	Montana	69	7.0
Alaska	41	5.8	Nebraska	289	15.8
Arizona	233	3.6	Nevada	81	3.0
Arkansas	346	11.9	New Hampshire	161	12.2
California	1125	3.0	New Jersey	462	5.2
Colorado	329	6.5	New Mexico	152	7.4
Connecticut	430	12.0	New York	1027	5.3
Delaware	234	26.1	North Carolina	2016	21.1
D.C.	65	10.8	North Dakota	224	33.3
Florida	2488	15.2	Ohio	1656	14.4
Georgia	1053	10.9	Oklahoma	319	8.5
Hawaii	98	7.2	Oregon	225	5.9
Idaho	196	12.5	Pennsylvania	2703	21.3
Illinois	1029	8.0	Rhode Island	137	13.0
Indiana	269	4.2	South Carolina	927	20.0
Iowa	310	10.2	South Dakota	287	35.2
Kansas	469	16.4	Tennessee	1504	23.7
Kentucky	706	16.3	Texas	2551	10.1
Louisiana	1067	23.5	Utah	153	5.5
Maine	253	19.0	Vermont	24	3.8
Maryland	418	7.2	<mark>Virginia</mark>	<mark>905</mark>	<mark>11.3</mark>
Massachusetts	640	9.8	Washington	394	5.9
Michigan	1848	18.7	West Virginia	420	22.7
Minnesota	1505	28.4	Wisconsin	564	9.9
Mississippi	507	17.1	Wyoming	37	6.6
Missouri	1084	18.1			

SOURCE DATA: "The U.S. Health Workforce: State Profiles" https://bhw.hrsa.gov/sites/default/files/bhw/nchwa/state-profiles/usworkforcestateprofiles.pdf. Published August 2014 - accessed February 2, 2017

HRSA Supply and Demand Projections

Also in 2014, HRSA launched their multifactorial Health Workforce Simulation Model (HWSM) to help establish a more uniform, national approach to estimating and projecting health profession workforce supply and demand now and in the future. ³⁸ Since then, they have evaluated several health professions and specialties, including CRNAs, with data drawn from the Area Health Resources File (AHRF) State and National data files.

HRSA's "Health Workforce Projections: Certified Nurse Anesthetists" 39 was published in

³⁸ For specific details on the model, see the "Technical Documentation for Health Resources Service Administration's Health Workforce Simulation Model" accessible at:

https://bhw.hrsa.gov/sites/default/files/bhw/nchwa/projections/simulationmodeldocumentation.pdf.

³⁹ https://bhw.hrsa.gov/sites/default/files/bhw/health-workforce-analysis/research/projections/crna-fact-sheet.pdf

December 2016, and suggests that the U.S. should have an adequate supply of CRNAs to meet future demand out to the year 2025. HWSM yields a national CRNA supply estimate of 44,660 in the base year 2013. It projects a growth at 38% 2013 and 2025, and projects growth in demand at 16% for that same period. The supply projection takes into account growth in the annual number of new CRNAs trained over the past decade, attrition through retirement or mortality, and projected drop in average work hours due to predicted demographic labor force factors. The projected demand is linked to assumptions of increased surgeries attributable to an aging and growing population, increases in chronic diseases requiring surgery, and increases in insurance coverage.

<u>BLS Occupational Employment and Wage Statistics, Current Job Openings and Short- and Long-term Projections</u>

The following findings are drawn from multiple standard BLS sources, each addressing slightly different aspects of the anesthesia care provider workforce.

Virginia's Labor Market Information (LMI)

As discussed with regard to AAs, Virginia's LMI provides real-time information on job openings, candidates, compensation estimates, and geographic distribution data. ⁴⁰ The table below lists: the number of job openings and candidates posted online in mid-April, 2015 compensation median and range estimates for jobs under the BLS titles "Nurse Anesthetist" and "Anesthesiologist." ⁴¹

Virginia LMI Results for Nurse Anesthetist and Anesthesiologist April 18, 2017

Occupational Title	Online Posted Job Openings April 18, 2017	Candidates Seeking Employment in this Occupation	Estimated Median (Range) Salary/Wage May 2015	Job Locations
Nurse Anesthetist	116	1	\$157,257 (\$118, 797 - \$196,142)	Fairfax County (15), Richmond (14), Newport News (8), Hampton (7), Winchester (5), Norfolk (5) Roanoke (5), Alexandria (5), Fredericksburg (5)
Anesthesiologist	92	1	N/A \$86,901 - \$262,642)	Richmond (13), Alexandria (8), Virginia Beach (6), Manassas (4), Newport News (3), Spotsylvania County (3), Harrisonburg (3), Fairfax County (3), Chesterfield County (2), James City County (2)

⁴⁰ See the full array of reports retrievable from LMI accessible at https://data.virginialmi.com/vosnet/lmi/default.aspx?pu=1&plang=E.

⁴¹ Note these results relate to *employee* jobs and exclude practitioners who own or are partners in practice.

LMI characterizes the current Virginia job market for both Anesthesiologists and Nurse Anesthetists as in "medium demand" and "low supply," but for Anesthesiologist Assistants as in "low demand" and "low supply." Both Nurse Anesthetists and Anesthesiologist jobs are projected to grow as described in the following BLS short- and long-term projection results.

National occupational employment and wage estimates for May 2016 are available through Occupational Profiles reporting⁴² and additional estimates for Virginia, specifically, through the May 2016 State Occupational and Wage Estimates: Virginia.⁴³

Short- and Long-Term Projections

The following tables detail BLS short-term projections for Nurse Anesthetists (CRNAs) and Anesthesiologists in Virginia and surrounding states and long-term projections for the U.S., Virginia, and surrounding states. No separate breakout for Anesthesiologist Assistants is available. BLS subsumes them under the title "Physician Assistants."

BLS Short-Term Projections for CRNAs and Anesthesiologists

U.S., Virginia, and Surrounding States

	Nurse	Anesthetists			Anesthesiologists				
	2015	2017	% Change	Avg. Job Openings	2015	2017	% Change	Avg. Job Openings	
<mark>Virginia</mark>	<mark>1410</mark>	<mark>1470</mark>	<mark>4.50%</mark>	<mark>60</mark>	<mark>570</mark>	<mark>600</mark>	<mark>4.40%</mark>	<mark>30</mark>	
DC	110	120	0.90%	0	240	250	2.90%	10	
KY	1130	1160	2.60%	30	710	720	1.80%	20	
MD	380	390	4.20%	10	400	420	5.00%	50	
NC	2730	2810	3.00%	100	970	1010	3.20%	40	
TN	2070	2160	4.70%	80	630	640	1.30%	20	
wv	570	580	1.80%	20	260	260	0.80%	20	

BLS Long-Term Projections for CRNAs and Anesthesiologists

U.S., Virginia, and Surrounding States

			, ,	•	U					
	Nurse	Anesthetists			Anesthesiologists					
	2014	2024	% Change	Avg. Job Openings	2014	2024	% Change	Avg. Job Openings		
U.S.	38300	45600	19.30%	N/A	33700	40800	21.0%	N/A		
Virginia	<mark>1390</mark>	<mark>1700</mark>	<mark>28.70%</mark>	<mark>70</mark>	<mark>570</mark>	<mark>720</mark>	<mark>25.90%</mark>	<mark>30</mark>		
DC	110	120	6.10%	N/A	250	270	10.10%	10		
KY	1930	2380	23.10%	90	730	910	24.90%	40		
MD	670	840	23.90%	30	N/A	N/A	N/A	N/A		
NC	2740	3360	22.60%	130	970	1200	24.10%	50		
TN	2210	2920	32.30%	110	470	600	29.20%	30		
WV	520	550	6.20%	10	150	150	4.10%	10		

Source: Projections Central accessed at http://www.projectionscentral.com/Projections/ShortTerm. Accessed: February 13, 2017

⁴² Accessible at: https://www.bls.gov/oes/current/oes stru.htm#29-0000. For Anesthesiologist at https://www.bls.gov/oes/current/oes291061.htm, and Nurse Anesthetist at: https://www.bls.gov/oes/current/oes291151.htm.

⁴³ Accessible at: https://www.bls.gov/oes/current/oes-va.htm#29-0000

Current estimates for both professions and projection timeframes indicate growing demand, with Virginia expected to experience a 4.50% (60) short-term growth in Nurse Anesthetist average annual job openings and 4.40% growth (30) in Anesthesiologist jobs. Long-term projections to 2024 anticipate an overall 28.70% increase for Nurse Anesthetist jobs and 25.90% for Anesthesiologist jobs, both outpacing the rate of growth projected for the U.S.

Virginia's projected long-term growth *rate* (% change) for both Nurse Anesthetists and Anesthesiologists surpasses surrounding states except Tennessee and the U.S. overall. However, there are greater overall *numbers* of both professions in other surrounding states, including North Carolina.

Virginia DHP Healthcare Workforce Data Center Supply-Side Surveys

The Department of Health Professions Healthcare Workforce Data Center (DHP HWDC) improves data collection and measurement of Virginia's healthcare workforce through regular assessment of workforce supply and demand issues among the professions licensed by boards within the Department. Its profession-specific workforce surveys are part of the licensure renewal processes for over 30 professions, including Nurse Practitioners and Physicians (M.D.s and D.O.s). The surveys have items regarding specialty areas: primary and secondary "specialty" for Nurse Practitioners and primary and secondary "board certification" for Physicians.

The respective tables below show the number of practitioners of each profession who reported an anesthesia-related specialty area in recent survey years. ^{44 45} The tables also provide the percentage anesthesia-related specialties comprise all specialty areas for the respective profession. These figures provide valuable insight into Virginia's actual anesthesia workforce because survey response rates are consistently high (ranging from 73% to 86% and rising over time).

These data reflect a gradual decline in the number of CRNA working in Virginia accompanied by a drop in the percent of primary specialties attributable to CRNA. For Anesthesiologists, however, the reverse is indicated. Although the renewal timeframes are slightly different, Anesthesiologist practitioners have been increasing with a slight increase in Anesthesiology among all Board Certifications.

⁴⁴ See the following sites for more details on DHP HWDC (http://www.dhp.virginia.gov/hwdc/default.htm), the research methodology (http://www.dhp.virginia.gov/hwdc/docs/MethodologyandGlossary.pdf), and profession-specific findings http://www.dhp.virginia.gov/hwdc/findings.htm. will be published in June

⁴⁵ The licensure renewals for Nurse Practitioners are conducted over a two-year period by birth month. Beginning in 2013, DHP HWDC implemented a schedule of annual catchments and reporting. So, approximately half of NPs are surveyed and reports of their results are published each year.

DHP HWDC Nursing and Physician Survey Results Related to Anesthesia Care Providers Nurse Practitioners Physicians

	2011-13	2014	2015	2016
# Nurse Practitioners with CRNA Primary Specialty	1462	1428	1400	1382
% Primary Specialties CRNA Constitutes	24%	24%	23%	20%

	2012	2014	2016 ⁴⁶
# Physicians with Anesthesiology Board Certification	780	1017	1073
% Board Certifications Anesthesiology Constitutes	4%	4%	5%

Because the supply and demand can vary by geographic areas, it is important to understand how the anesthesia workforce is distributed. Appendix 7 provides mapping for CRNAs and Anesthesiologists based upon DHP HWDC's standard full-time equivalencies (FTEs). Appendix 7 also provides County/City tables with details. Both CRNAs and Anesthesiologists cluster largely in metropolitan areas but there are practitioners of either type distributed throughout the state.

⁴⁶ The 2016 Physician draft report is complete and will be presented for Board of Medicine approval in late June and thereafter posted to the DHP HWDC findings website.

FutureDocs

One of the nation's most experienced and well-regarded healthcare workforce research institutions is the Cecil G. Sheps Center for Health Services Research at the University of North Carolina, Chapel Hill. (Sheps Center). Founded in the 1970's, the Sheps Center remains a vanguard in the development of applicable research. A key example is their innovative, online interactive tool, FutureDocs.

FutureDocs ⁴⁷ is a multifactorial statistical model and interactive web-based forecasting tool designed specifically to aid healthcare workforce policy development. Among its features are tools to estimate physician specialty supply (head count and patient-care to population ratios), the use of healthcare services, and the capacity of the physician workforce to meet the current and future use of health services at the national, state, and regions within states.⁴⁸ It provides user-friendly customizable scenarios and interactive online visualizations to display current results and estimated projections for the 2013 to 2030 timeframe. The system allows selection of over 30 different physician specialties, including Anesthesiology and estimates and projections resulting from a number of different scenarios. ⁴⁹ The following are the results of staff queries related to physician supply

The following provides results of querying the model for estimates of the current (2013) Anesthesiologist workforce by state and projections for Virginia to 2030. The tool permits selections of head counts, head counts per 10,000 population, patient-care full time equivalencies (FTEs),⁵⁰ and patient care FTEs per 10,000 with displays through maps, line charts and age/gender pyramids.

2013 Estimates⁵¹

To help provide context concerning the Virginia Anesthesiologist workforce, staff analyzed the head count, head count per 10,000 population for the Commonwealth in relation to the other states. The table on the following page shows the estimate of 1035 Anesthesiologists in Virginia by head count. Virginia ranks 14th among the states. California ranks 1st with almost 5500 Anesthesiologists and North Dakota in last place with a little over 50.

To provide a sense of relative patient population coverage, the table includes Anesthesiologist head count per 10,000 population. On this measure, Virginia at 1.26/10k drops to 28^{th} ranking. Surrounding states vary, with Massachusetts (2.17/10k) topping the list and Maryland (2.04/10K) in 2^{nd} place.

⁴⁷ The FutureDocs model, and project and technical documentation are accessible at: https://www2.shepscenter.unc.edu/workforce/index.php. For the greatest detail on methodology, see https://www.2.shepscenter.unc.edu/workforce/about.php

⁴⁸ Tertiary Service Area (TSA) region levels.

⁴⁹ Baseline, Medicaid expansion, Retirement rates, and increased NP and PA assistance, for example.

⁵⁰ FutureDocs' FTE is not on the same scale as DHP HWDC (1 FTE = 2000). Rather it references North Carolina health Professions Data System data that details patient care hours by sex, age and specialty. For further details

Anesthesiologist Head Count and Head Count per 10,000 Population by State Estimates for 2013⁵²

State	Anesthesiologist Head Count	Anesthesiologist Head Count Rank	Anesthesiologist Head Count per 10k	Anesthesiologist Patient Care FTE Rank
Alabama	468	28	0.92	49
Alaska	96	48	1.32	26
Arizona	1053	13	1.57	9
Arkansas	287	34	1.57	45
California	5492	1	1.43	16
	879	18	1.65	7
Colorado Connecticut	628	22	1.7	5
Delaware	103	47		44
Florida		47	1.03	
	2718		1.39	22
Georgia	1026	15	1.03	43
Hawaii	191	40	1.36	24
Idaho	143	44	0.94	48
Illinois	1882	6	1.5	13
Indiana	1021	16	1.55	10
lowa	346	32	1.17	34
Kansas	338	33	1.04	42
Kentucky	560	25	1.26	29
Louisiana	499	26	1.05	41
Maine	194	38	1.4	20
Maryland	122	11	2.04	2
Massachusetts	1455	9	2.17	1
Michigan	1147	10	1.16	36
Minnesota	614	24	1.15	37
Mississippi	257	35	0.92	49
Missouri	771	20	1.24	31
Montana	145	43	1.4	21
Nebraska	237	37	1.24	32
Nevada	412	30	1.48	15
New Hampshire	191	41	1.41	19
New Jersey	1696	7	1.8	3
New Mexico	238	36	1.17	35
New York	3656	2	1.87	4
North Carolina	985	17	0.98	46
North Dakota	58	51	0.66	51
Ohio	1624	8	1.38	23
Oklahoma	448	29	1.2	33
Oregon	622	12	1.49	14
Pennsylvania	1954	5	1.5	12
Rhode Island	133	45	1.25	30
South Carolina	489	27	1.07	40
South Dakota	68	50	0.7	50
Tennessee	771	21	1.07	40
Texas	3451	3	1.31	27
Utah	406	31	1.34	25
Vermont	107	46	1.53	11
Virginia	1035	14	1.26	28
Washington	1083	12	1.6	8
West Virginia	194	39	1.09	38
Wisconsin	803	19	1.43	17
Wyoming	73	49	1.41	18

 52 For further context, FutureDocs was also queried for "all specialties, as well. Virginia's head count of all physician specialists is 19,625, with a ranking at 14th among the states, also. For all specialties per 10,000 population, Virginia has 23.97 specialists per 10,000 populations and ranked at 28th. A separate table of these results can be made available upon request.

Anesthesiologist Patient Care FTE and Patient Care FTE per 10,000 Population by State Estimates for 2013

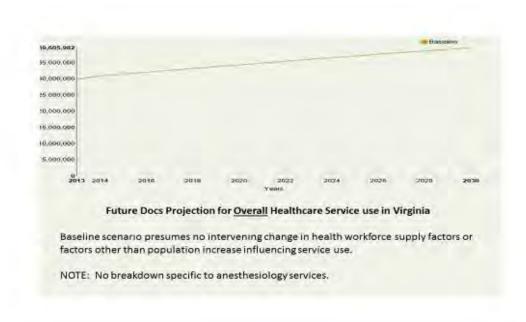
	Anesthesiologist	Anesthesiologist	Anesthesiologist	Anesthesiologist
	Patient Care FTE	Patience Care FTE	Patient Care FTE per	Patient Care FTE
State		Rank	10K	Rank
Alabama	291.51	28	0.6	47
Alaska	59.3	48	0.82	26
Arizona	660.8	12	0.99	8
Arkansas	177.49	34	0.62	45
California	3374.39	1	0.88	18
Colorado	546.57	18	0.88	20
Connecticut	398.24	22	1.08	5
Delaware	61.91	47	0.62	44
Florida	1685.92	4	0.86	22
Georgia	637.36	15	0.64	43
Hawaii	119	40	0.85	24
Idaho	87.33	44	0.57	49
Illinois	1158.34	6	0.93	13
Indiana	631.23	16	0.96	10
lowa	217.8	32	0.74	34
Kansas	208.27	33	0.64	42
Kentucky	347.97	25	0.79	28
Louisiana	312.95	26	0.66	40
Maine	122.33	38	0.89	17
Maryland	700.63	11	0.78	29
Massachusetts	904.9	9	1.35	1
Michigan	719.76	10	0.73	36
Minnesota	388.65	23	0.73	37
Mississippi	160.16	35	0.57	48
Missouri	480.87	20	0.78	30
Montana	91.42	43	0.88	19
Nebraska	146.45	37	0.77	32
Nevada	259.71	30	0.93	12
New Hampshire	118.25	41	0.87	21
New Jersey	1037.75	7	1.15	4
New Mexico	149.92	36	0.73	35
New York	2265.81	2	1.16	3
North Carolina	615.65	17	0.61	46
North Dakota	36.11	51	0.41	51
Ohio	1002.96	8	0.86	23
Oklahoma	276.46	29	0.74	33
Oregon	385.36	24	0.92	15
Pennsylvania	1196.62	5	0.92	14
Rhode Island	82.7	45	0.79	31
South Carolina	308.96	27	0.68	38
South Dakota	43.36	50	0.45	50
Tennessee	470.68	21	0.65	41
Texas	2149.27	3	0.81	27
Utah	253.15	31	0.84	25
Vermont	65.92	46	0.95	11
Virginia	638.95	14	0.78	29
Washington	660.11	13	0.78	9
West Virginia	119.33	39	0.57	39
	499.27	19	0.89	16
Wisconsin			0.89	
Wyoming	45.29	49	0.88	20

When compared with other states, Virginia's 2013 Anesthesiologist supply appears close to the middle (ranked 28th – median ranked 25). In terms of head counts ranks better than the top third.

Projections

The FutureDocs model includes factors relating to demand as well as supply in its projections from 2013 to 2030. The following charts and graphs depict anticipated trends for overall healthcare service use in Virginia, for Anesthesiologist patient care FTE supply vs. demand between 2013 and 2030 under a high (earlier) and low (later) retirement scenarios and give insights into future Anesthesiologist age and gender distribution with through a population pyramid.

The overall demand for healthcare services is anticipated to gradually increase. Under the baseline assumptions growing and aging population factors drive the model.



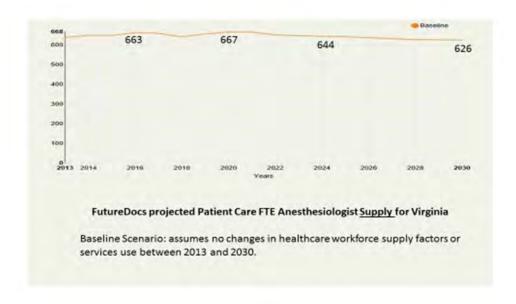
Projected Overall Healthcare Service Use in Virginia⁵³

The projected supply and demand for Virginia Anesthesiologist is projected to remain in alignment except under an early retirement scenario. None of the other scenarios, including increased use of NPs and PAs or Medicaid expansion affected the model.

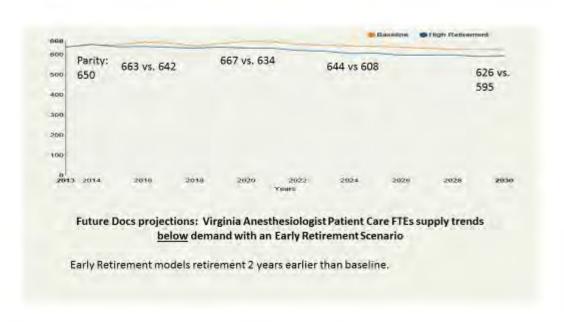
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⁵³ The y-axis is the number of patient care visits

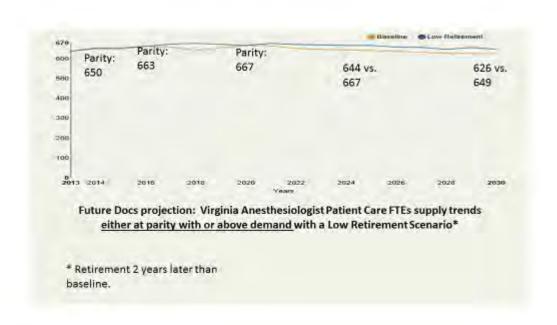
Anesthesiologist Supply - Baseline



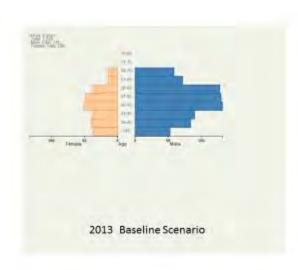
Anesthesiologist Supply vs. Demand – Early Retirement



Anesthesiologist Supply vs. Demand – Later Retirement



Anesthesiologist Age and Gender Pyramid





Public Comment

Appendix 8 contains the transcript of the oral comments presented during the Public Hearing held on June 27, 2017 and a summary of written comments received by close of business July 31, 2017. All comments were reviewed and considered by the Regulatory Research Committee which met on August 10, 2017.

Conclusions and Recommendation

Upon consideration of the above, the Regulatory Research Committee determined at its August 10, 2017 meeting that licensure for CAAs in Virginia was *not* feasible. On August 31, 2017, the full Board of Health Professions concurred.

The burden imposed by state regulation of this profession is not deemed justified due to the lack of proof of a statewide shortage of anesthesia providers, AA students' competition for already limited training sites and slots needed by Virginia's Anesthesiologist and Nurse Anesthetist students, and CAA inability to practice without direct, on-site, supervision of an Anesthesiologist only. They cannot practice independently, nor can they be supervised by other physicians or healthcare providers, and it is thought unlikely they would practice in underserved and other rural areas. Also, the Board of Medicine's workload would increase to accommodate establishing an entirely new set of regulations and administering a new professions licensure program.

The Board additionally offers that if the General Assembly were to consider license legislation, Kentucky and Georgia provide the safest approach. They require that CAAs also be licensed Physician Assistants. Because a single Anesthesiologist may supervise multiple CAAs at a given time, patient safety would be better assured with practitioners who are broadly versed in overall patient health care, not limited to anesthesia care.

VIRGINIA BOARD OF HEALTH PROFESSIONS VIRGINIA DEPARTMENTOF HEALTH PROFESSIONS

STUDY WORKPLAN

Feasibility of Licensure of Certified Anesthesiologist Assistants

April 3, 2017 DRAFT

Background & Authority.

By virtue of its statutory authority in §54.1-2510 of the *Code of Virginia* to advise the Governor, the General Assembly, and the Department Director on matters related to the regulation and level of regulation of health care occupations and professions in the Commonwealth, the Virginia Board of Health Professions is conducting a review into the feasibility of state licensure for certified anesthesiologist assistants. This study is pursuant to the attached requests from Senator Stephen Newman and Delegate Robert Orrock dated November 16, 2016 and response from Dr. David Brown, Director of the Department of Health Professions dated November 29, 2016.

Scope & Methodology:

The purpose of this study is to evaluate the need to regulate anesthesia assistants in the Commonwealth of Virginia. The Board has adopted a formal evaluative criteria and methodology to guide all such reviews as set forth in its published *Policies and Procedures for the Evaluation of the Need to Regulate Health Occupations and Professions, 1998.* (Guidance Document 75-2 accessible at http://www.dhp.virginia.gov/bhp/guidelines/75-2.doc). Referred to hereinafter as "the Criteria," these policies and procedures provide a standard conceptual framework with proscribed questions and research methods that have been employed for over two decades to objectively inform key policy issues related to health professional regulation. This standard is in keeping with regulatory principles established in Virginia law and is accepted in the national community of regulators. The approach is designed to lead consideration of the least governmental restrictions possible that is consistent with the public's protection. The Criteria address: (1) Risk of Harm to the Consumer, (2) Specialized Skills and Training, (3) Autonomous Practice, (4) Scope of Practice, (5) Economic Costs, (5) Alternatives to Regulation, and (6) Least Restrictive Regulation.

The Regulatory Research Committee (Committee) will prepare the report for consideration by the full Board and transmission to Senator Newman and Delegate Orrock through the Department Director.

The following steps are recommended for this review:

1. Conduct a comprehensive review of the pertinent policy and professional literature.

- Review and summarize available relevant empirical data as may be available from pertinent research studies, malpractice insurance carriers, and other sources.
- 3. Review relevant federal and state laws, regulations and governmental policies.
- 4. Review other states' relevant experiences with scope and practice.
- 5. Develop a report of research findings, to date, and solicit public comment on reports and other insights through hearing and written comment period.
- 6. Publish second draft of the report with summary of public comments.
- 7. Develop final report with recommendations, including proposed legislative language as deemed appropriate by the Committee.
- 8. Present final report and recommendations to the full Board for review and approval.
- 93 Forward to the Director and Secretary for review and comment
- ii). Somit final report to Senator Newman and Delegate Orrock and post

Timetable and Resources

This study will be conducted with existing staff and within the budget for FY2017-18 and according to the following tentative timetable (note schedule updates from February):

DATES

Feb. 23	Full Board Meeting - Draft workplan reviewed and project assigned to the Regulatory Research Committee
Apr 3	Committee Meeting - review draft report and workplan updates
May 9	Full Board Meeting
June 27	Public Hearing & Committee Meeting (10:00 a.m.)
Aug. 31	Committee Meeting – final review and recommendations Full Board Meeting – Committee report for Board consideration
Sep. (TBD)	Board Report to the Director and Secretary for review and comment
Nov. 1	Final Report due to Delegate Orrock and Senator



COMMONWEALTH of VIRGINIA

David E. Brown, D.C. Director

Department of Health Professions
Perimeter Center
9960 Mayland Drive, Suite 300
Henrico, Virginia 23233-1463

www.dhp.virginia.gov TEL (804) 367- 4400 FAX (804) 527- 4475

November 29, 2016

The Honorable Stephen D. Newman P. O. Box 480 Forest, VA 24551

The Honorable Robert D. Orrock, Sr. P. O. Box 458 Thornburg, Virginia 22565

Dear Senator Newman and Delegate Orrock,

We are in receipt of your letters requesting that the Department of Health Professions undertake a study of the feasibility of licensure for certified anesthesiology assistants (CAAs). As you may know, the Code of Virginia authorizes the Board of Health Professions to conduct such studies in § 54.1-2510:

§ 54.1-2510. Powers and duties of Board of Health Professions.

2. To evaluate all health care professions and occupations in the Commonwealth, including those regulated and those not regulated by other provisions of this title, to consider whether each such profession or occupation should be regulated and the degree of regulation to be imposed. Whenever the Board determines that the public interest requires that a health care profession or occupation which is not regulated by law should be regulated, the Board shall recommend to the General Assembly a regulatory system to establish the appropriate degree of regulation;

To fulfill its statutory duty, the Board has applied seven criteria to any study of the feasibility of regulating a new profession; its criteria are: 1) risk of harm to the consumer. 2) specialized skills and training, 3) autonomous practice, 4) scope of practice, 5) economic impact. 6) alternatives to regulation, and 7) least restrictive regulation. For further explanation and description of the criteria, the Board has published Guidance Document 75-2, which is available on its website at: http://www.dhp.virginia.gov/bhp/bhp_guidelines.htm. The President of the Board of Medicine is also a member of the Board of Health Professions.

The Board will assume responsibility for a feasibility study but will not have the opportunity to adopt a workplan and timeline for its completion until its next scheduled meeting,

Board of Audiology & Speech-Language Pathology – Board of Counseling – Board of Dentistry – Board of Funeral Directors & Embalmers Board of Long-Term Care Administrators – Board of Medicine – Board of Nursing – Board of Optometry – Board of Pharmacy Board of Physical Therapy – Board of Psychology – Board of Social Work – Board of Veterinary Medicine Board of Health Professions

which is February 23, 2017. As soon as the Dr. Elizabeth Carter, Executive Director of the Board and her research staff have reviewed the scope of the work, we will share a preliminary schedule for a report of the study results, which will be provided by November 15, 2017. We have also received a copy of a letter sent to you from the Virginia Association of Nurse Anesthetists; it will be provided to the Board along with your letter of request for the study.

We hope that this information is helpful and appreciate the opportunity to respond to your request. Please let us know if there is anything further we can do to assist your office either between or during the upcoming Session of the General Assembly.

Sincerely,

David E. Brown, D.C.

cc: The Honorable William A. Hazel, M.D. Elizabeth Carter, Ph.D.

SENATE OF VIRGINIA

STEPHEN D. NEWMAN

PRESIDENT PROTECTIONS
ALL OF COTTOURT AND CRAIG COUNTIES
PART OF BIOTOGO, CAMPERIA, AND TANNOR
COUNTIES, AND PATH OF THE CITY OF VANCHEURS
FOR ST. VANCHEURS
FOR ST. VANCHEURS
EVEN ST.



COMMITTEE ASSIGNMENTS
EDUCATION AND HEALTH, CHAIR
COMMENCE AND LABOR
FINANCE
TRANSPORTATION

November 16, 2016

David E. Brown, D.C., Director Virginia Department of Health Professions Perimeter Center 9960 Mayland Drive, Suite 300 Henrico, Virginia 23233-1463



Dear Director Brown,

I am writing to request that the Department of Health Professions, with assistance from the Board of Medicine, undertake a study considering licensing a new class of anesthesia providers in the Commonwealth: Certified Anesthesiology Assistants (CAAs). As you know, there is a national shortage of anesthesia providers, including nurse anesthetists. Being able to employ a growing pool of CAAs would help address the present and future shortage of anesthesia providers. For this reason, I believe it would be prudent for the Department to study whether it would be beneficial to license CAAs in Virginia.

It is my understanding that seventeen jurisdictions as well as the District of Columbia currently allow CAAs to practice. Virginia is surrounded by other states that have already adopted the CAA approach (North Carolina, Washington, D.C., Kentucky and Ohio). Although some states have permitted CAAs to practice through delegatory authority, the Board of Medicine has advised that licensure would be required in Virginia.

CAAs work under the direction of licensed physician anesthesiologists to implement anesthesia care plans. CAAs work exclusively within the anesthesia care team environment and, unlike nurse anesthetists; they must be supervised by a physician anesthesiologist.

All CAAs possess a premedical background, a baccalaureate degree and also complete a comprehensive didactic and clinical program at the graduate school level. There are 10 accredited CAA educational programs in the U.S. There is interest in launching a CAA program in Virginia, as well.

There are nearly 2,000 CAAs already practicing throughout the nation. CAA students currently rotate through Virginia hospitals, but must go elsewhere to work when they finish training (i.e. there are currently 10 CAAs who are Virginia residents who have to travel to other states to work).

Because members of the Legislature are considering whether to introduce legislation on this topic, I kindly request that you let us know whether you are willing to undertake this study by December 15, 2016. If you do agree to undertake it, we would further request that you make the results of your study available no later than November 15, 2017.

With kind regards, I remain,

Sincerely yours,

Senator Stephen D. Newman

cc: William L. Harp, M.D., Executive Director of the Board of Medicine



ROBERT D. "BOBBY" ORROCK POST OFFICE BOX 458 THORNBURG, VIRGINIA 22565

FIFTY-FOURTH DISTRICT

COMMONWEALTH OF VIRGINIA HOUSE OF DELEGATES RICHMOND

COMMITTEE ASSIGNMENTS: HEALTH, WELFARE AND INSTITUTIONS (VICE CHAIRMAN) FINANCE

November 16, 2016 COUNTIES, CIFIES AND TOWNS AGRICULTURE CHESAPEARE A NATURAL RESOURCES

David E. Brown, D.C., Director Virginia Department of Health Professions Perimeter Center 9960 Mayland Drive, Suite 300 Henrico, Virginia 23233-1463

Dear Director Brown,

I am writing to request that the Department of Health Professions, with assistance from the Board of Medicine, undertake a study considering licensing a new class of anesthesia providers in the Commonwealth: Certified Anesthesiology Assistants (CAAs). As you know, there is a national shortage of anesthesia providers, including nurse anesthetists. Being able to employ a growing pool of CAAs would help address the present and future shortage of anesthesia providers. For this reason, it would be prudent for the Department to study whether it would be beneficial to license CAAs in Virginia.

There are 17 states, as well as the District of Columbia, currently allowing CAAs to practice. Virginia is surrounded by other jurisdictions that have already adopted the CAA approach (North Carolina, Washington, D.C., Kentucky and Ohio). Although some states have permitted CAAs to practice through delegated authority, the Board of Medicine has advised that licensure would be required in Virginia.

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Because members of the Legislature are considering whether to introduce legislation on this topic, I am requesting that you let me know by December 15, 2016 whether you are willing to undertake this study. If you agree to do it, I would also ask that you make the results of your study available no later than November 15, 2017.

Roll V. Charle Delegate Robert D. Orrock

cc: William L. Harp, M.D., Executive Director, Board of Medicine

DISTRICT: (540) 891-1322 * RICHMOND. (804) 698-1054 * E-MAIL: DEL_ORROCK@HOUSE STATE.VA.US

VIANA
Virginia Association of
Nurse Anesthetists

CRNA

November 22, 2016

The Honorable Steve Newman Virginia Senate P.O. Box 480 Forest, VA 24551

The Honorable Bobby Orrock Virginia House of Delegates P.O. Box 458 Thornburg, VA 22565

Dear Senator Newman and Delegate Orrock,

I am writing on behalf of the Virginia Association of Nurse Anesthetists regarding your possible request to the Department of Health Professions ("DHP") to undertake a study regarding the licensing of Certified Anesthesiology Assistants ("CAA") in Virginia.

VANA represents the more than 1200 certified registered nurse anesthetists ("CRNA") who are licensed in Virginia and who serve as the primary providers of anesthesia care services in Virginia's rural surgical facilities.

As the numbers of people needing critical anesthesia care continues to grow in Virginia, it is important that we ensure a robust pipeline of anesthesia providers to meet current and future anesthesia needs. As such, we support the request for a CAA feasibility study, provided the study is comprehensive and provides clear guidance on whether the licensing of a third anesthesia provider will provide greater access to anesthesia care in Virginia.

To this end, we would kindly ask that, in the event a request for a study moves forward, you would consider the following as part of the request:

That DHP consider whether an anesthesia provider shortage currently exists in Virginia and
if so, whether there are any immediate steps that can be taken (in terms of CRNA or
anesthesiologist practice) to mitigate the shortage.

250 West Main Street, Suite 100, Charlottesville, VA 22902 Tel: (434) 977-3716 Fax: (434) 979-2439 www.vana.org



- That DHP consider whether the current and future numbers of CRNA and anesthesiologist students and graduates will meet the projected demand for anesthesia care services in the coming years.
- That DHP include, as part of any licensing feasibility study, an assessment of the anesthesia delivery costs of CRNAs, anesthesiologist and CAAs.
- 4. That, given the limited number of clinical sites currently available to health care provider students and new graduates, DHP consider the impact a third anesthesia provider may have on site availability and how this will impact the ability of Virginia's CRNA and anesthesiologist students and new graduates to obtain required clinical experience.
- 5. The impact, if any, a third anesthesia provider may have on current anesthesia jobs in Virginia.
- The impact, if any, the licensing of a third anesthesia provider will have in terms of access to anesthesia care, particularly in Virginia's rural regions.
- 7. That the Virginia Board of Nursing, which licenses CRNAs, assist in the study.

We applaud your interest in ensuring Virginia's citizens have access to anesthesia care and we appreciate your consideration of this request.

Sincerely,

Peter Deforest

President

Virginia Association of Nurse Anesthetists

cc: Dr. David Brown, Director, Department of Health Professions

Jay Douglas, Executive Director, Board of Nursing

Dr. William Harp, Executive Director, Board of Medicine

Michele Satterlund, McGuireWoods Consulting

250 West Main Street, Suite 100, Charlottesville, VA 22902 Tel: (434) 977-3716 Fax: (434) 979-2439 www.vana.org

Appendix 3 – Sample AA Curriculum and Course Descriptions

Extracted from Case Western-Reserve University School of Medicine's Certified Anesthesiologist Assistant Program Courses Website

https://case.edu/medicine/msa-program/education/courses/

Course Description

Clinical practicum provides the student with the opportunity to apply the principles of anesthesia to direct patient care. Students provide supervised care in a variety of settings. Students use advanced anesthetic techniques to challenge specialty rotations.

Clinical Experience	
ANES 461 – Orientation to Clinical Experience, Summer Semester	3 credits
ANES 463 – Anesthesia Clinical Experience I, Fall Semester	3 credits
ANES 465 - Anesthesia Clinical Experience II, Spring Semester	4 credits
ANES 467 – Anesthesia Clinical Experience III, Summer Semester	4 credits

Course Descriptions

ANES 440/441: Patient Monitoring and Instrumentation (2/2)

Students are taught the proper balance between circuits and engineering concepts and the clinical application of anesthesia instrumentation. Monitors and devices used in the operating room are studied with respect to principles of operation, calibration and interpretation of data. Principles, application, and interpretation of various monitoring modalities including ECG, invasive and non-invasive blood pressure, oximetry, cardiac output, respiratory gas analysis, and respiration are also key components of this course. Students will gain experience with intraoperative neurophysiology monitoring, temperature, renal function, coagulation/hemostasis, neuromuscular junction, transesophageal echocardiography, and ICP. This course covers advanced concepts of arterial pressure monitoring, ICP monitoring, transesophageal echocardiography, electric and radiation safety, and the hazards and complications of monitoring patients during anesthesia.

Prerequisites: Consent of the department; successful completion of ANES 440 required for ANES 441.

ANES 460: Introduction to Anesthesia (2)

This course introduces students to the operating room, emphasizing the fundamental procedures and techniques used in administering an anesthetic. One of the primary objectives of this class is to prepare and educate the student to work within the anesthesia care team. The course includes a preoperative patient evaluation, which involves recording medical history, performing physical examinations, reviewing charts and select laboratory and radiologic testing as well as history of anesthesia, anesthetic techniques, hazards and complications. universal precautions and infection control. The basic and advanced principles of elective and emergent airway management will be covered, including equipment and techniques. Course material encompasses recognition of the difficult airway, techniques to manage the difficult pediatric and adult airway, the ASA Difficult Airway Algorithm, physiologic response to intubation, fiber-optic techniques, retrograde techniques, and the surgical airway. Course will correlate with laboratory work for a better understanding and use of bag/ mask ventilation, oral and nasal airways, oral and nasal intubations techniques, lightwands, fiberoptic intubations, double lumen tubes, surgical airways, and application of laryngeal mask airway.

Prerequisites: Consent of the department.

ANES 461: Introduction to Clinical Experience (3)

This course is a supplement to ANES 460, giving students additional experience in the operating room and with the practice of anesthesia. Preoperative assessment, IV placement techniques, intraoperative patient care and postoperative management, layout of the operating room, sterile fields and techniques, interacting with patients, starting intravenous catheters, and application of ASA-standard monitors are all emphasized in this course. Students will utilize anesthesia simulator to gain the basic knowledge and usage of monitors. BLS (Basic Life Support) certification is required for course completion.

Prerequisites: Acceptance in the MSA Program.

ANES 485: Introduction to Physiologic-Based Simulation (1)

In this course students will be introduced to physiological model-based simulation using on-screen computer simulation and mannequins. The key objectives of this class are to improve student's anesthesia-related basic science knowledge, manual skills in anesthesia machine checkout, drug and equipment set up, safety inspections and understanding of how anesthesia is performed for uncomplicated surgical cases.

ANES 403: Cardiac Electrophysiology (2)

This course focuses on basic and advanced ECG interpretation using simulators to understand an overview of heart anatomy, function, and electrophysiology. Students will also gain experience with diagnosis and practical applications of electrocardiography and echocardiography as monitoring techniques in the operating room.

Prerequisites: Consent of the department.

ANES 456/458: Applied Physiology for Anesthesiologist Assistants (3/3)

This course emphasizes pathophysiology in a systems approach – cardiovascular, pulmonary, renal, neuro, metabolic, and endocrine. This course focuses on those systems which affect evaluation and planning for anesthesia and those systems affected by the administration of anesthesia. Students will study basic and applied human systems physiology with an emphasis on topics and areas of special concern to the anesthetist. This class introduces advanced concepts relevant to anesthesia including hemodynamics, Starling forces, pulmonary responses, renal hemodynamics, temperature regulation, blood gases/pH, and maternal and fetal physiology. The purpose of the course is to introduce various pathologic conditions inherent to the patient population and how to provide information on those disease processes to alter anesthetic techniques.

Prerequisites: Consent of the department; successful completion of ANES 456 required for ANES 458.

ANES 462/464/468/470: Anesthesia Clinical Correlation (1/1/1/1)

This course is comprised of a series of conferences presented by students that apply to anesthetic theory as it relates to the clinical experience. Specific anesthetic situations are emphasized. This course provides a working knowledge of evidence based medicine. Cases will be used as the backbone of this course to assist the student in analyzing data to justify the treatments used in clinical practice. Students will also learn how to critically appraise the literature, evaluate diagnostic test performance, design clinical pathways and standards of care, and implement evidenced based medicine findings in their own clinical or administrative setting.

Prerequisites: ANES 460; successful completion of ANES 462 required for ANES 464.

ANES 475/476: Pharmacology for Anesthesiologist Assistants (2/2)

This course introduces students to the basic principles of pharmacology and focuses on those drugs most often used in the practice of anesthesia, including inhaled anesthetics, opioids, barbiturates, benzodiazepines, anticholinesterases and anticholinergics, neuromuscular blockers, and adrenergic agonists and antagonists. The course provides an overview of drug actions, interactions, metabolism, methods of administration, dosages, side effects, precautions, and contraindications. This course focuses on the pharmacokinetics and pharmacodynamics of major drug classifications and their interactions with anesthetic agents. Students will gain insight into the basic principles of drug action; absorption, distribution, metabolism, and excretion of drugs; mechanisms of drug action; toxicity. Students will also learn the basis for the use of medicines in pharmacologic therapy of specific diseases. ANES 475/476 emphasizes drugs utilized as adjunct therapies related to the practice of anesthesia, including non-steroidal anti-inflammatory drugs, antiarrhythmics, calcium channel blockers, diuretics, anticoagulants, antihistamines, and antimicrobials.

Prerequisites: Consent of the department; successful completion of ANES 475 required for ANES 476.

ANES 480/481/580/581: FUNDAMENTALS OF ANESTHETIC SCIENCE (1/1/1/1)

A continuum of courses over the fall and spring semesters that covers a series of topics in basic medical science with special emphasis on the effect of anesthetics on normal physiology. An examination is administered at the end of each semester.

Prerequisites: Consent of the department; successful completion of each preceding course is necessary for advancement to subsequent coursework.

ANES 486: Physiologic Model-Based Simulation I (1)

This course is a continuation of ANES 485. Students will have access to a state-of-the-art laboratory and an anesthesia simulator that will prepare them for the usage and complete understanding of monitoring and the practice of anesthesia. Students will apply their didactic knowledge to scenarios on the anesthesia simulator. Patient modalities are explored, such as pulse oximetry, capnography, echocardiography, regional anesthetic placement, blood pressure monitoring systems and invasive monitoring line placement and monitoring. Laboratory experiences are correlated to the clinical setting through actual patient vignettes and simulation scenarios. The course provides for the certification in Advanced Cardiac Life Support (ACLS) and Pediatric Advanced Life Support (PALS). The course will focus on assessment and management of adults, children, and infants in a cardiopulmonary crisis.

ANES 477: Clinical Decision Making in Anesthesia (2)

This course is an introduction to thinking about clinical problems and coming to safe and effective solutions to these problems. This course focuses on common clinical situations where appropriate decision making is important to the outcome of the case. Numerous areas of medicine and anesthesiology will be covered to provide the student with a wide sampling of decisions made each day with patient care. This course supplements the other courses offered during the spring semester by integrating and applying basic science knowledge to the care of patients. This course assists the student in integrating theory with practice by analyzing the anesthetic management of selected cases, utilizing a problem based learning approach. Relevant anatomy, physiology, pathophysiology, pharmacology, and anesthetic and surgical considerations are described and discussed. Patient care plans are reviewed, compared, and contrasted in light of actual or anticipated outcomes. Current standards of care are reviewed in terms of continuous quality improvement.

Prerequisites: Consent of the department.

ANES 488: Anesthesia Non-Technical Skills Lab (1)

A corollary simulation-based course introducing the student to non-technical skills that are used integrally with medical knowledge and clinical techniques. These non-technical skills can be defined as behaviors in the operating room environment that are not directly related to the use of medical expertise, drugs or equipment. Through this course the student will improve both interpersonal skills (e.g. communication, team working, and leadership) and cognitive skills (e.g. situation awareness, decision making).

ANES 490: Ethics, Law, and Diversity for Anesthesiologist Assistants (2)

This course will focus on three important topics within the field of anesthesiology. First, the course will focus on legal practice as it applies to health care including basics of medical jurisprudence, negligence, and how to avoid a lawsuit. Second, students will gain insight into ethical theory including the principles of medical ethics, do not resuscitate, truth telling, and assessment of competence. The course will close with a discussion on diversity that will focus on the differences and similarities among people and how these factors influence patient care. The final grade will be based on an essay and a multiple choice exam.

Prerequisite: Consent of the department.

ANES 584/585: Physiologic-Based Model Simulation III & IV (1/1)

This course is an extension of ANES 485 emphasizing physical techniques, aspects of crisis management, teamwork and rescue in anesthesia. This course will review concepts learned in BLS and ACLS training. Students will also gain experience with critical crisis management and rescue techniques, which are not often seen in practice.

Appendix 4 – Blueprint for NCCAA CERT and CDQ Examinations

NCCAA CERT Exam Blueprint (est. May 2012)

Category Tot		Knowledge (K)	Numerical Problem Solving (N)	Clinical Management (C)	Interpretation (I	
01 Principles of Anesthesia	20	10-12	0-3	5-8	3-5	
02 Cardiovascular	20	10-12	0-3	5-8	3-5	
03 Hematology & Coagulation	10	6-8	0-1	2-4	1-2	
04 Instrumentation, 1 Monitoring, Anesthetic Delivery Systems, Physics		8-12	0-3	3-5	3-5	
05 Metabolism & Endocrine	8	2-3	1-2	2-3	0-1	
06 Neurology & Neuromuscular	15	5-10	0-1	5-10	2-3	
07 Obstetrics & Perinatology	15	5-10	0	5-10	3-5	
08 Pediatrics & 15 Neonatology		5-10	0-2	5-10	3-5	
09 Pharmacology	20	12-15	0-3	3-5	3-5	
10 Regional Anesthesia & Pain Management	10	3-8	0-1	0-5	0-2	

(please see back)

Category	Total	Knowledge (K)	Numerical Problem Solving (N)	Clinical Management (C)	Interpretation (I)
11 Renal, Genital, & Urologic	7	3-5	0-2	3-5	1-2
12 Respiratory System	20	10-12	0-2	6-10	2-3
13 Geriatric 5		3-5	0-1	1-2	0-1
14 Gastrointestinal & Hepatic	5	3-5	0-1	1-2	0-1
15 Bariatric	5	3-5	0-1	1-2	0-1
16 Clinical Subspecialties	10	5-7	0-2	3-5	1-2
TOTAL	200		li i		

NCCAA CDQ Exam Blueprint (est. May 2012)

Category	Total	Knowledge (K)	Numerical Problem Solving (N)	Clinical Management (C)	Interpretation (
01 Principles of Anesthesia		8-20	0-6	16-22	3-5
02 Cardiovascular	20	8-10	0-3	10-12	2-4
03 Hematology & Coagulation	10	4-6	0-1	4-6	1-2
04 Instrumentation, Monitoring, Anesthetic Delivery Systems, Physics		4-6	0-3	4-8	2-4
05 Metabolism & Endocrine	5	2-3	0	2-3	0-1
06 Neurology & Neuromuscular	10	3-5	0-1	5-8	2-3
07 Obstetrics & Perinatology	7	1-3	Ô	2-4	1-3
08 Pediatrics & 8 Neonatology		1-4	0-2	2-5	1-3
09 Pharmacology	20	5-10	0-3	5-10	5-10
10 Regional Anesthesia & Pain Management	5	1-2	0-1	1-3	0-2

(please see back)

Category	Total	Knowledge (K)	Numerical Problem Solving (N)	Clinical Management (C)	Interpretation (I)
11 Renal, Genital, & Urologic	10	5-7	0-2	3-5	1-2
12 Respiratory System	15	3-10	0-2	5-10	0-3
13 Geriatric	5	1-2	0-1	3-5	0-1
14 Gastrointestinal & Hepatic	5	1-2	0-1	3-5	0-1
15 Bariatric	5	1-2	0-1	3-5	0-1
16 Clinical Subspecialties	15	2-8	0-2	5-10	0-4
TOTAL	180				h

Appendix 5 – Anesthesiologist Assistant NPI Registration

Credentialing Recorded in the National Provider Identifier (NPI) Lookup for Anesthesiologist Assistant (367H00000X)

	_			- 12	6/HU	UUUUX,		_				-	
State of Address	Number Registered	No Credential Listed	AA or A.A.	AAC or	CAA	CRNA	RN, NP, APRN	PA	PAA	PA-AA or PAAA	Business	Other	% of Tota
Alabama	24	2	8	1	mis	1				1	11		1.00
Arizona	3					1					2		0.12
Arkansas	4	1				2		9	1		1		0.17
California	12	1		1		1	2				6	2	0.50
Colorado	46	4	17	12	10				1	2			1.91
Connecticut	13	4			Harri	8	1						0.54
Delaware	16				1000	14					2		0.66
Florida	308	57	93	82	40	17		1		9	6	3	12.77
Georgia	1032	189	172	119	24	9	5	79	135	244	22	34	42.80
Idaho	1				44015	1							0.04
Illinois	11			1	1	6	9.110	1			3		0.46
Indiana	3				1	1			1		1		0.12
lowa	1										1		0.04
Kentucky	7	1	1		1		1		1	1	2		0.29
Louisiana	10				150015	9			1		1		0.41
Maryland	8				1	4		2		1			0.33
Massachusetts	3			_		1		+	+-	1	1	1	0.12
Michigan	21	1	4	3		3		1	1	1	6	2	0.87
Mississippi	8	-	-	-		2		1	+	-	5	1	0.33
Missouri	125	16	55	39	10	1			-		3	1	5.18
Nebraska	3	- 10	- 55	330	100	2		+	1		-	1	0.12
Nevada	1			_		-		-	+			1	0.04
New Hampshire	3		_		1001	2	1	_	+			-	0.12
New Jersey	7		-	_	5000	4		-			2	1	0.29
New Mexico	56	30	5	17	2	,		+	+	\vdash	2	1	2.32
New York	10	2	-	-1/	1	4		1		\vdash	1	1	0.41
North Carolina	26	1	11	7	3	1		-		3			1.08
North Dakota	4	1	-11	-	3	3		 	+	3			0.17
Ohio	228	17	132	47	12	1	7	-	+-	3	7	2	9.46
Oklahmoa	6	4	1	47	12	1		-	+	3		1	0.25
Oregon	2		1		10000			-	+		2	-	0.23
Pennsylvania	13	1				10			+		2		0.54
Puerto Rico	1	-		-	MILEO	10			+			-	0.04
Rhode Island	1					1		_	+		1	\rightarrow	0.04
South Carolina	30	4	2	14	4				٠,		4	\rightarrow	
South Dakota		4	- 2	14	4	1		-	1		4	-	1.24
Tennessee	1 10					3			-	\vdash	-	_	0.04
Texas	192	22	1 85	25	12	5			1	,	6	,	7.06
Utah	192	22	65	36	12	5	2	_	-	2	27	1	7.96
Vermont	16	4	7	2		-			-			\rightarrow	0.04
		4	/	2	1	1	-		-	1	-	-	0.66
Virginia	7		-	ATT.		4			-			-	0.17
Washington		10	11	17	-	6					1		0.29
Washington, D.C.	43	10	11	17	2	_		_	2	\vdash		1	1.78
West Virginia	4	12	1	35		3			-	-		\rightarrow	0.17
Wisconsin	85	13	30	35	2	3				1	1	\rightarrow	3.53
Wyoming	1 2444	200	626	422	400	100	10		100	260	1		0.04
TOTAL OF TOTAL	2411	386	636	432	127	136	19	84	139	269	130	53	10007
% OF TOTAL:		16.01	26.38	17.92	5.27	5.64	0.79	3.48	5.//	11.16	5,39	2.20	100%

Source data January 2017 NPI, downloaded April 6-10, 2017, accessed through https://npidb.org

NOTE: "Other" includes PA-C, RPA-C. & MIsc.

Appendix 6 – State Regulation

Certified Anesthesiologist Assistant Regulating States and Territory

State/Territory Licensure(L), Certification (C) or Physician Delegation (PD)	Accredited Education / Exam	Fees: Licensure/ Renewal Schedule	Summary of Scope, Supervision, CE/Recertification
Alabama L	CAHEA / CEAA admin.by NCCAA	\$200/ \$100 Annual	Regulation §540-X-7 et seq. pursuant to Code of Alabama §§34-24-290 et seq. AA must be employed by an anesthesiologist or other specified employing organization with an anesthesiologist; No independent, unsupervised activity permitted; Up to 4 AAs may be supervised at a time. State's own CE requirements.
California C	CAAHEP/ NCCAA	N/A	Code §§ 7.75-3550 to 3554 Title protection exists. AA must work under the direction and direct supervision of an anesthesiologist who is physically present and accepts responsibility for medical services rendered by the AA. AA may assist the supervising anesthesiologist in developing and implementing an anesthesia care plan for a patient. Must maintain NCCAA certification and follow CE/recertification according to NCCAA requirements.
Colorado L	CAAHEP/ NCCAA	\$262/ N/A Even year	Colorado Medical Board Regulations (3 CCR 713-40) Anesthesiologist or group practice member may act as supervising physician. Maximum of 4 AAs may be supervised at a time (as of July 1, 2016). Both supervising physician and AA are accountable for rule violations. Mechanism for annual performance review required; assessment subject to Board audit. Supervising physician to be "immediately available." Authorized to administer drugs and CS under supervision, but no prescriptive authority.
District of Columbia L	CAAHEP/ NCCAA	\$85/ \$145 Even year	D.C. Code Chapter 5100 Prohibits independent practice. Supervising anesthesiologist must be "immediately available"—further defined as present in the building or facility and able to provide assistance according to specified standards. Supervising anesthesiologist must be present during induction and emergence phases. Authorized to administer drugs and CS under supervision, but no prescriptive authority. No faculty of an AA program may concurrently supervise more than two AA students who are delivering anesthesia. NCCAA recertification requirements.
Florida L	CAAHEP + Advanced Cardiac Life Support Cert/ NCCAA	\$300/ \$500 Biennial	Florida Statutes §458.3475 & §459.023; Board of Medicine regulations §64B8-31 and Board of Osteopathic Medicine regulations §64B15-17 No independent practice. Supervising anesthesiologist must be on-site and immediately available: present in the office during a procedure and present in the surgical or obstetric suite to provide assistance and direction to the AA while anesthesia services are being performed. State's own CE requirements for licensure renewal.

Georgia L	"Approved by the Board/ NCCAA	\$300/ \$105 Biennial	Rules and Regulations of the State of Georgia §360-5 et seq. Title: "Physician Anesthesiologist Assistant." Requires physician assistant (PA) and AA licensing. Practice is under supervision according to a completed Job Description. In the case of AAs delivering general and/or regional anesthesia, a primary or alternate supervising physician must be immediately available in person. Maximum of 2 or 4 AAs may be supervised at once as specified. State's CE requirements.
Guam L	CAAHEP + Advanced Cardiac Life Support Cert. domestic violence, medical errors/ NCCAA	NA/NA Biennial	Guam Code §12-25 et seq. Direct supervision on-site, supervising anesthesiologist must be immediately available: present in the office during a procedure and present in the surgical or obstetric suite in all instances available to provide assistance and direction to the AA while anesthesia services are being performed. Protocol with supervising anesthesiologist or supervising group of anesthesiologists must be filed annually with the Board of Medical Examiner and updated biennially. Supervising anesthesiologist must not only be physically present during induction and emergence and available to provide immediate "physical presence in the room" but not concurrently performing any other anesthesiology procedures independently upon another patient. Maximum 3 or AAs at a time as specified in protocol. Territory's CE requirements.
Indiana L	CAAHEP/ NCCAA	\$100/ \$50 Biennial	Indiana Code §25-3.7 et seq.; Administrative Code 844IAC 15-1.1 et seq. Scope of practice lists permissible activities and excludes interventional pain management. Protocol required with supervising anesthesiologist and all group members who may supervise. Supervising anesthesiologist maintains immediate physical proximity. Maximum 4 AAs concurrently. CE according to NCCAA recertification requirements.
Kentucky L	NCCPA CAAHEP/ NCCAA	\$100/ \$150 Biennial	Kentucky Revised Statutes §311-800 et seq. Kentucky Administrative Regulations §201 KAR 9:084. Licensure as a primary care physician assistant is required in addition to AA licensure. There are provisions for CAAHEP/NCCAA requirements for those not practicing as an AA prior to July 15, 2002.
Michigan PD shifted to L	CAAHEP/ NCCAA	\$20/ \$50 Annual	Legislation passed in late 2016, earliest form of House Bill available, but final version not yet published.
Missouri L	CAAHEP/ NCCAA	\$25/ \$25 N/A	Missouri Revised Statutes §334.400.1 et seq. Authorized Title: "Licensed Anesthesiologist Assistant." Code lists authorized and prohibited activities. Written practice protocol required, supervising anesthesiologist may medically direct a maximum of 4 AAs concurrently. Protocol must delineate the services the AAs may provide and the manner in which they are supervised (may include medical records review and meeting relevant quality assurance standards). Missouri statute §54.1-334.426 expressly states that the governing body of every hospital has authority to limit AA functions and activities.

New Mexico L	CAHEA/ NCCAA	\$100/ N/A Even year	New Mexico Statutes §61-6-10.3 et seq. Occupational and Professional Licensing Regulations §16.10.19 et seq. Code lists authorized activities. Supervising anesthesiologist must be approved by the board and allowed to supervise up to 3 AAs. The supervising anesthesiologist is individually responsible and liable for the AA's acts and omissions. Written notice of intent to supervise is required. If it is during the AA's first year of practice, the application must include a plan for enhanced supervision. Except in emergencies, the supervising anesthesiologist must be present in the operating room during induction of a general or regional anesthetic and during emergence from general anesthetic (presence documented in the patient record). Otherwise supervisor must be in operating suite and immediately available to the operating room when the AA is performing anesthesia procedures. 40 hours of CE biennially also current ACLS certification. AA employment locations restricted to universities, medical schools, and other specified situations.
North Carolina L	CAAHEP/ NCCAA	\$150/ \$150 or \$125 if 1 st renewal within 30 days of birthday Annual	North Carolina G.S. §90-11 et seq. and Regulations §21 NCAC 32W.0101 et seq. Scope of practice in written agreement with Supervising anesthesiologist. Provisions exist for a "Primary Supervising Anesthesiologist" who accepts primary responsibility for the AA's professional activities. Supervising anesthesiologist must be actively engaged in clinical practice and immediately available onsite to provide assistance to the AA. May supervise up to 4 AAs. AA must wear name tag with the protected title. AA's in-patient chart entries are governed by hospital or long-term care facility rules. 40 hours CE every two years. NCCAA recertification required.
Ohio C	CAAHEP (also recognizes programs prior to 2000, specifies course content in statute)/ NCCAA	\$100/ N/A Even year	Ohio Administrative Code §4760.01 et seq. §5160-4-21 (Medicaid) Code lists permissible AA duties. Written practice protocol further details scope as well as a prescribed, personalized plan for each patient determined by the supervising anesthesiologist. The supervisor must be actively engaged in clinical practice, provide immediate and direct supervision and be present for the most demanding procedures, including induction and emergence. The Code lists what "immediate and direct" excludes – not necessarily in the same room, for example. First year AAs must have enhanced supervision. All AAs may only must practice in a hospital or ambulatory surgical facility and must display title. NCCAA recertification required. AAs are permitted to bill Medicaid for services but payment goes to employing hospital.
Oklahoma L	NCCAA / CLS Cert. HIV/AIDs domestic violence, & medical error prevention	\$100/\$100 Biennial	Oklahoma statutes §3201 et seq. and Board of Medical Licensure and Supervision regulations §435:65-1-1 Code contains permissible duties. Supervisory anesthesiologist or group files written protocol with the board detailing AA's duties and functions and conditions or procedures requiring anesthesiologist care. AA must carry malpractice insurance, but supervisor retains responsibility for patient care. Anesthesiologist must provide on-site, personal supervision being present in the office or surgical suite when procedures are performed and immediately available to provide assistance and direction to the AA while anesthesia services are being performed. 4 AAs maximum.

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South Carolina L	Specific Undergrad coursework & CAAHEP/ NCCAA	\$300/ \$295 Biennial	South Carolina statutes §40-47-1205 et seq. Code lists generally permissible AA duties and functions. Supervising anesthesiologist must be in active practice, medically direct and accept responsibility for the anesthesia services rendered by the AA in a manner approved by the board. Supervising anesthesiologist must be in the hospital and in the anesthetizing or operative area so as to be immediately available to participate directly in patient care. Written protocol must be approved by the board.
Texas PD	N/A	N/A	Texas Occupations Code §§157.001 et seq. and 563.051 et seq.; Administrative Code §§193.1 et seq. and §354.1065(Medicaid) Describes physician's general authority to delegate medical acts to specially trained individuals who are instructed and directed by the physician. This includes administration and provision of dangerous drugs. Permits tasks that are administrative, technical or clinical but involving the exercise of medical judgment. Physician accepts responsibility and board determines delegation appropriateness. Standing order written protocols included. Medicaid allows AA services to be billed. Reimbursement in Texas goes to the AA, hospital, physician, group practice or other provider with which the AA has an employment or contractual relationship.
Vermont C	CAAHEP/ NCCAA	\$120, additional \$55 per if multiple/ \$120/\$55 per Biennial	Vermont Statutes §26.29-1651 et seq. AAs certified under Commissioner of Health adopted rules on training, practice supervision, qualification, scope of practice, places of practice, protocols, patient notification and consent. Board of Medicine then regulates accordingly. AA application includes supervision protocol(s) detailing scope and employment contract(s). Board determines maximum number of AAs per supervisor. Supervising anesthesiologist must be readily available at the facility for consultation and intervention and retains legal liability. Title protection noted, and supervising anesthesiologist must notify patients about AA services. NCCAA certification must be maintained.
Wisconsin L	CAAHEP/ NCCAA	\$75/ \$82 Even year	Wisconsin Code § 448.00 et seq. Scope of practice restricted to assisting supervising anesthesiologist as described in a supervision agreement. Code specifies range of assistive duties that may be included but the actual scope for an individual AA may be less as determined by the supervising anesthesiologist and detailed in the agreement. The supervision agreement must be with an anesthesiologist who represents the AA's employer. The supervising anesthesiologist must be immediately available in the same physical location or facility in which the AA assists in delivery of medical care such that the supervising anesthesiologist is able to intervene if needed.

LEGEND: CAHEA (Committee on Allied Health Education and Accreditation) (AMA)

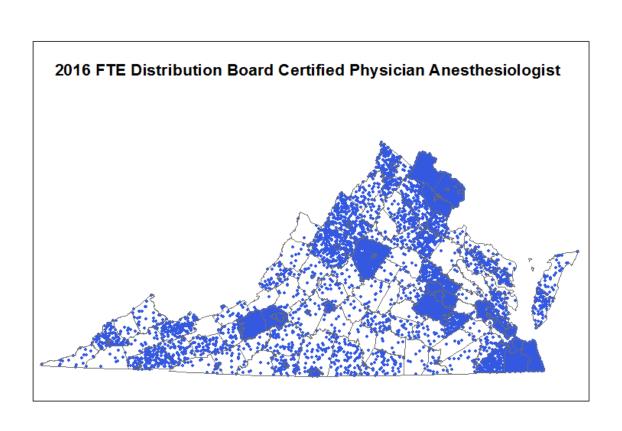
CAAHEP (Commission on Accreditation of Allied Health Education Programs)

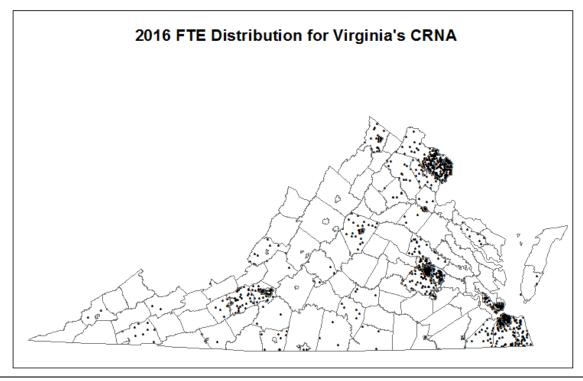
CEAA (Certifying Examination for Anesthesiologist Assistants)

NCCAA (National Commission for Certification of Anesthesiologist Assistants)

NCCPA (National Commission on Certification of Physician Assistants)

Appendix 7 – DHP HWDC Anesthesiologist and CRNA FTE Distributions





2016 Healthcare Professionals in Anesthesiology: Total Full Time Equivalency (FTE) and FTE Per 1,000 54

	Certified	Registered	Nurse Anes	thetists		Anesthes	siologist	
		FTE				FTE/100		
Locality	Total	/1000	Primary	Sec	Total	0	Primary	Sec
Accomack County	0.00	0.00	0.00	0.00	37.51	1.14	32.03	5.48
Albemarle County	22.50	0.22	22.35	0.15	964.63	9.23	919.89	44.74
Alleghany County	9.11	0.58	9.11	0.00	53.42	3.38	50.29	3.13
Amelia County	0.00	0.00	0.00	0.00	4.14	0.32	3.17	0.97
Amherst County	2.64	0.08	2.64	0.00	24.57	0.77	23.98	0.59
Appomattox County	0.00	0.00	0.00	0.00	8.84	0.58	8.82	0.02
Arlington County	32.91	0.15	32.87	0.04	686.65	3.03	644.72	41.93
Augusta County	0.00	0.00	0.00	0.00	291.16	3.94	278.77	12.39
Bath County	0.00	0.00	0.00	0.00	12.88	2.82	12.55	0.33
Bedford County	0.00	0.00	0.00	0.00	33.11	0.43	30.67	2.44
Bland County	0.03	0.01	0.03	0.00	1.25	0.19	0.83	0.42
Botetourt County	1.68	0.05	1.68	0.00	21.42	0.65	19.08	2.34
Brunswick County	0.02	0.00	0.00	0.02	8.25	0.50	5.26	2.99
Buchanan County	0.00	0.00	0.00	0.00	25.01	1.08	21.90	3.11
Buckingham County	0.00	0.00	0.00	0.00	16.92	1.00	16.73	0.19
Campbell County	0.00	0.00	0.00	0.00	14.31	0.26	13.93	0.38
Caroline County	0.00	0.00	0.00	0.00	5.97	0.20	5.97	0.00
Carroll County	2.29	0.08	2.29	0.00	20.71	0.70	18.98	1.73
Charles City County	0.00	0.00	0.00	0.00	2.69	0.38	2.09	0.60
Charlotte County	4.81	0.39	4.81	0.00	11.02	0.90	10.51	0.51
Chesterfield County	41.89	0.13	31.68	10.2 1	664.85	2.00	619.64	45.21
Clarke County	0.00	0.00	0.00	0.00	8.90	0.62	5.68	3.22
Craig County	0.00	0.00	0.00	0.00	1.78	0.34	1.77	0.01
Culpeper County	5.73	0.12	5.73	0.00	84.17	1.71	71.17	13.00
Cumberland County	0.00	0.00	0.00	0.00	3.79	0.39	3.73	0.06
Dickenson County	0.00	0.00	0.00	0.00	11.13	0.73	8.24	2.89
Dinwiddie County	0.00	0.00	0.00	0.00	24.75	0.89	23.73	1.02
Essex County	1.05	0.09	1.05	0.00	42.64	3.84	37.89	4.75
Fairfax County	179.08	0.16	172.6 4	6.44	3709.0 3	3.26	3515.3 8	193.6 5
Fauquier County	12.09	0.18	12.09	0.00	128.85	1.89	117.84	11.01
Floyd County	0.00	0.00	0.00	0.00	14.46	0.93	14.26	0.20
Fluvanna County	0.00	0.00	0.00	0.00	9.80	0.38	9.80	0.00
Franklin County	3.29	0.06	3.29	0.00	63.58	1.13	58.32	5.26

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⁵⁴ This document has been updated with 2016 data for both CRNAs and Board Certified Physician Anesthesiologist on May 18, 2017/\.

Certified Registered Nurse Anesthetists						Anesthesiologist			
		FTE				FTE/100			
Locality	Total	/1000	Primary	Sec	Total	0	Primary	Sec	
Frederick County	14.52	0.18	14.52	0.00	140.54	1.71	133.72	6.82	
Giles County	0.91	0.05	0.00	0.91	22.62	1.35	20.02	2.60	
Gloucester County	0.05	0.00	0.00	0.05	67.21	1.81	63.13	4.08	
Goochland County	0.11	0.01	0.00	0.11	15.76	0.72	13.76	2.00	
Grayson County	0.00	0.00	0.00	0.00	15.69	1.04	15.64	0.05	
Greene County	0.00	0.00	0.00	0.00	7.07	0.37	7.07	0.00	
Greensville County	0.00	0.00	0.00	0.00	19.41	1.66	18.76	0.65	
Halifax County	3.44	0.10	3.44	0.00	81.89	2.33	80.08	1.81	
Hanover County	18.64	0.18	15.57	3.07	235.89	2.31	221.42	14.47	
Henrico County	69.64	0.22	66.47	3.16	869.47	2.70	821.47	48.00	
Henry County	7.52	0.14	5.93	1.59	50.47	0.97	47.33	3.14	
Highland County	0.00	0.00	0.00	0.00	3.76	1.67	3.76	0.00	
Isle of Wight County	0.00	0.00	0.00	0.00	29.85	0.83	29.62	0.23	
James City County	1.88	0.03	0.00	1.88	187.96	2.59	184.59	3.37	
King and Queen County	0.00	0.00	0.00	0.00	1.74	0.24	1.74	0.00	
King George County	0.00	0.00	0.00	0.00	8.82	0.35	8.82	0.00	
King William County	0.00	0.00	0.00	0.00	7.97	0.49	7.97	0.00	
Lancaster County	0.00	0.00	0.00	0.00	50.08	4.53	49.51	0.57	
Lee County	0.00	0.00	0.00	0.00	18.30	0.73	17.47	0.83	
Loudoun County	16.44	0.05	14.38	2.06	702.06	1.93	642.56	59.50	
Louisa County	0.00	0.00	0.00	0.00	14.37	0.42	13.02	1.35	
Lunenburg County	0.00	0.00	0.00	0.00	7.62	0.61	6.13	1.49	
Madison County	0.00	0.00	0.00	0.00	6.51	0.49	6.51	0.00	
Mathews County	0.00	0.00	0.00	0.00	3.97	0.45	3.56	0.41	
Mecklenburg County	3.38	0.11	3.38	0.00	64.62	2.07	60.82	3.80	
Middlesex County	0.00	0.00	0.00	0.00	8.44	0.79	8.37	0.07	
Montgomery County	35.04	0.36	34.96	0.08	760.67	7.82	713.24	47.43	
Nelson County	0.00	0.00	0.00	0.00	18.56	1.25	18.10	0.46	
New Kent County	0.00	0.00	0.00	0.00	5.21	0.26	4.61	0.60	
Northampton County	2.75	0.23	2.75	0.00	71.92	5.93	69.04	2.88	
Northumberland County	0.00	0.00	0.00	0.00	9.49	0.77	9.42	0.07	
Nottoway County	0.00	0.00	0.00	0.00	23.58	1.51	23.53	0.05	
Orange County	0.00	0.00	0.00	0.00	34.75	0.99	33.83	0.92	
Page County	0.00	0.00	0.00	0.00	23.29	0.98	22.43	0.86	
Patrick County	0.00	0.00	0.00	0.00	8.97	0.49	7.56	1.41	
Pittsylvania County	0.00	0.00	0.00	0.00	56.33	0.90	54.85	1.48	
Powhatan County	0.00	0.00	0.00	0.00	22.22	0.78	21.59	0.63	
Prince Edward County	3.64	0.16	3.51	0.13	49.66	2.15	44.75	4.91	

	Certified	Registered	Nurse Anes	thetists		Anesthe	siologist	
		FTE				FTE/100		
Locality	Total	/1000	Primary	Sec	Total	0	Primary	Sec
Prince George County	0.00	0.00	0.00	0.00	134.53	3.60	128.75	5.78
Prince William County	19.06	0.04	18.27	0.79	724.04	1.62	669.20	54.84
Pulaski County	4.34	0.13	4.34	0.00	44.94	1.31	42.38	2.56
Rappahannock County	0.00	0.00	0.00	0.00	11.17	1.52	9.62	1.55
Richmond County	8.49	0.95	6.38	2.11	79.02	8.88	67.94	11.08
Roanoke County	16.08	0.17	15.71	0.37	325.19	3.47	308.55	16.64
Rockbridge County	0.00	0.00	0.00	0.00	19.78	0.89	15.55	4.23
Rockingham County	0.00	0.00	0.00	0.00	218.19	2.79	208.41	9.78
Russell County	0.00	0.00	0.00	0.00	16.03	0.57	15.12	0.91
Scott County	0.00	0.00	0.00	0.00	9.19	0.41	7.58	1.61
Shenandoah County	0.00	0.00	0.00	0.00	43.38	1.01	40.47	2.91
Smyth County	0.00	0.00	0.00	0.00	72.26	2.29	69.15	3.11
Southampton County	0.00	0.00	0.00	0.00	15.34	0.85	13.96	1.38
Spotsylvania County	2.66	0.02	0.00	2.66	130.51	1.01	122.07	8.44
Stafford County	3.35	0.02	3.35	0.00	94.25	0.67	73.80	20.45
Surry County	0.00	0.00	0.00	0.00	7.97	1.17	7.96	0.01
Sussex County	0.00	0.00	0.00	0.00	5.90	0.50	5.50	0.40
Tazewell County	1.97	0.05	1.97	0.00	128.20	2.95	114.56	13.64
Warren County	0.00	0.00	0.00	0.00	64.75	1.66	60.65	4.10
Washington County	9.00	0.16	8.32	0.69	147.21	2.69	140.26	6.95
Westmoreland County	0.00	0.00	0.00	0.00	5.31	0.30	5.29	0.02
Wise County	1.84	0.05	1.81	0.03	108.51	2.72	101.55	6.96
Wythe County	0.00	0.00	0.00	0.00	69.12	2.37	65.44	3.68
York County	0.00	0.00	0.00	0.00	77.36	1.17	73.52	3.84
Alexandria City	45.51	0.30	45.51	0.00	422.53	2.81	383.96	38.57
Bedford City	0.00	0.00	0.00	0.00	12.68	1.96	11.45	1.23
Bristol City	0.00	0.00	0.00	0.00	10.12	0.59	10.12	0.00
Buena Vista City	0.00	0.00	0.00	0.00	1.60	0.24	1.35	0.25
Charlottesville City	27.10	0.59	23.76	3.34	856.03	18.78	840.39	15.64
Chesapeake City	35.31	0.15	35.31	0.00	445.93	1.91	421.45	24.48
Colonial Heights City	0.12	0.01	0.00	0.12	70.26	3.96	64.54	5.72
Covington City	0.00	0.00	0.00	0.00	2.80	0.48	2.80	0.00
Danville City	3.30	0.08	3.30	0.00	157.97	3.72	155.47	2.50
Emporia City	0.96	0.18	0.96	0.00	13.60	2.49	11.61	1.99
Fairfax City	3.96	0.16	3.96	0.00	104.24	4.26	99.16	5.08
Falls Church City	13.43	0.99	13.43	0.00	183.70	13.51	171.49	12.21
Franklin City	2.81	0.33	2.58	0.23	21.32	2.50	19.19	2.13
Fredericksburg City	38.93	1.37	36.42	2.51	367.47	12.96	347.29	20.18

	Certified	Registered	Nurse Anes	thetists	Anesthesiologist			
Locality	Total	FTE /1000	Primary	Sec	Total	FTE/100 0	Primary	Sec
Galax City	0.51	0.07	0.51	0.00	52.54	7.49	48.29	4.25
Hampton City	42.23	0.31	41.30	0.94	395.37	2.89	376.43	18.94
Harrisonburg City	0.00	0.00	0.00	0.00	108.97	2.08	106.43	2.54
Hopewell City	2.93	0.13	2.93	0.00	47.54	2.14	43.95	3.59
Lexington City	0.00	0.00	0.00	0.00	26.01	3.56	24.20	1.81
Lynchburg City	2.60	0.03	2.60	0.00	376.82	4.77	353.84	22.98
Manassas City	0.06	0.00	0.06	0.00	71.63	1.70	69.60	2.03
Manassas Park City	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
Martinsville City	0.00	0.00	0.00	0.00	44.86	3.27	42.60	2.26
Newport News City	26.35	0.14	25.55	0.80	569.50	3.11	523.90	45.60
Norfolk City	66.34	0.27	60.71	5.63	1129.8 0	4.60	1060.0 9	69.71
Norton City	0.00	0.00	0.00	0.00	27.61	6.85	26.14	1.47
Petersburg City	5.41	0.17	5.41	0.00	142.22	4.35	128.53	13.69
Poquoson City	0.00	0.00	0.00	0.00	5.75	0.48	5.75	0.00
Portsmouth City	35.30	0.37	33.90	1.40	899.37	9.37	873.41	25.96
Radford City	8.91	0.51	8.91	0.00	34.04	1.93	29.26	4.78
Richmond City	137.13	0.63	130.4 9	6.63	2152.2 9	9.88	2032.1 4	120.1 5
Roanoke City	22.14	0.22	21.88	0.26	702.52	7.07	666.13	36.39
Salem City	15.08	0.59	15.08	0.00	324.69	12.74	305.60	19.09
Staunton City	0.00	0.00	0.00	0.00	39.84	1.62	38.24	1.60
Suffolk City	18.48	0.21	16.40	2.07	257.50	2.97	236.74	20.76
Virginia Beach City	48.31	0.11	47.99	0.32	959.07	2.13	911.20	47.87
Waynesboro City	0.00	0.00	0.00	0.00	18.56	0.87	17.94	0.62
Williamsburg City	0.00	0.00	0.00	0.00	77.15	5.25	64.94	12.21
Winchester City	28.74	1.04	23.73	5.01	294.08	10.68	287.81	6.27
Total	1,196		1,130	66	24,719		23,298	1,421

- Public Hearing Transcript
- Summaries of Written Comment Received
 - Supporting Licensure
 - Opposing

VIRGINIA DEPARTMENT OF HEALTH PROFESSIONS VIRGINIA DEPARTMENT OF HEALTH PROFESSIONS VIRGINIA BOARD OF HEALTH PROFESSIONS CRANE-SNEAD & ASSOCIATES, INC. REGULATORY RESEARCH COMMITTEE Henrico, Virginia 23233-1463 2nd Floor Conference Center Tel. No. (804)355-4335 Henrico, Virginia 23230 4914 Fitzhugh Avenue 9960 Mayland Drive June 27th, 2017 Board Room #4 VIRGINIA:

MR. WELLS: My name is Jim Wells. I'm the

Chair of the Regulatory Research Committee. This is

a public hearing to receive public comment on the board's review of the feasibility of licensure of The Code of Virginia authorizes the Board

certified anesthesiologist assistants.

of Health Professions to advise the governor, the General Assembly and the department director of matters related to regulation of health care or Accordingly, the board is conducting this

occupations and professions.

o 10 review and will provide recommendations on the

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feasibility of licensure of certified

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If you are not ready for a question, we can We have a list of folks who have signed up. DR. CARTER: In the event of a fire or We want everyone to have a chance to make a comment. We will go through the list. You are free to speak a second time, but we would ask that you wait until possible, like to be able to ask a question of the certainly understand that. But we would, if everyone has had their turn and we will ask questions if you don't mind. anesthesiologist assistants. speaker if you don't mind. 13 91 11 18 13 10

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MS. PAYNE: Good morning. I'm Katie Payne.
                                                                                                                                                                                                                                                                                                                                                           MR. WELLS: At this time I will call the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     I've been to all of your meetings. So
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     You all know from my past appearances
                                                                                                                                                                                                                                                                                                                                                                                                                                          your name, please come forward and tell us your name
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and who you represent and what region or area you're
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      for having us and having this public comment hearing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Virginia Society of Anesthesiologists. I'm from the
                                                                                                                                                                                                                                                                                                                                                                                                 persons who have signed up for comment. As I call
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              you've heard a lot from me already. But thank you
                                                                                                                                                                                                 behind you and make a right. You would go across
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The first person is Katie Payne,
                                                                                                                                                           this room you may use this door or the door right
                                                                                                                                                                                                                                        the parking lot and meet at the fence. Basically
                                                                                                                     instruction given by security staff. For exiting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       I work at Williams & Mullin and I represent the
                                                                               sounds, leave the room immediately. Follow any
                                                                                                                                                                                                                                                                              just follow the staff to make sure you get out.
                                        building, an alarm will sound. When the alarm
other emergency requiring evacuation of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             today. We have been looking forward to it.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         before you that the Virginia Society of
                                                                                                                                                                                                                                                                                                                       Thank you.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Richmond area.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      from please.
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Our membership is overwhelming supporative I'm sure you guys realize, it's the same Within that group we have members of the But, if you don't mind, I would ask for everyone who is supportive of CAA licensure to stand from school and for most of them drive a fairly long anesthesiologists in the Commonwealth. We have been been studying it and watching with interest as other across the country, and we have seen great results. distance from the D.C. area to get here. So we are Society of Anesthesiologists, the quad A, which is crowd here today, as you can see, and not everyone for you, they all had to take off days from work, working for years on licensure of CAAs. We have Virginia Society Anesthesiologists, the American Anesthesiologists represents about 900 physician of licensure CAAs in Virginia. We have guite a states around us have adopted licensure really will have a chance to speak. We have tried to narrow our comments and keep them to the seven the American Academy for Anesthesiologists criteria that you all are considering. very appreciative of their support. Thank you. briefly. un VO. m ω Ø N 8 10 11 12 3 14 12 16 17 61 20 21 23 24 25

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MS. DILORETO: My name is Layne Diloreto
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MR. WELLS: I apologize in advance if I
                                                                                                                                                                                                                                                                                                                                                                                          As I said earlier, we are trying to be
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      But, again, we are a resource for you.
                                          of Anesthesiologists Assistants, which is made up of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Please, as you said, interrupt us with questions and
                                                                                                                   have to leave the state to work. You will hear from
                                                                                                                                                                                            We also have a couple of physician
Assistants, the VAAA, which is the Virginia Academy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Thank you very much for having us.
                                                                                                                                                                                                                                                                                                             some CAA students from the D.C. area. So you will
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      misspeak anyone's names and that is why we ask you
                                                                                                                                                                                                                                 anesthesiologists who work closely with CAAs. So
                                                                                                                                                                                                                                                                       you can hear their perspective. And then we have
                                                                                                                                                                                                                                                                                                                                                                                                                              respectful of your time. We have 10 people or so
                                                                             Virginia residents, who are licensed as CAAs but
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         criteria one by one as was requested at the last
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               we would love to follow up with the end to any
                                                                                                                                                                                                                                                                                                                                                                                                                                                                   lined up to speak, and we will go through the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Layne Diloreto.
                                                                                                                                                                                                                                                                                                                                                  hear from all of them today.
                                                                                                                                                      some of them today.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       outstanding issues.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         to restate it.
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Criteria One addresses the risk for harm to

the consumer. I would first like to address the

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educational requirements to apply to

anesthesiologist assistants schools. All of the candidates must possess an undergraduate degree.

2011. Last year my husband and I bought our first home in Alexandria, Virginia. And I would love to be able to continue to work as a CAA without having

to cross state lines.

These include an English course, General

candidates can graduate with any major as long as

they fulfill the course requirements.

22 22 23

Just like those preparing for medical school,

Physiology, Organic Chemistry, Biochemistry, General

Biology, General Chemistry, Human Anatomy and

Physics, Calculus and Advanced Statistics. These

course requirements are identical to the majority of

medical school prerequisites.

Good morning members of the Virginia Board

of Health Professions. My name is Layne Diloreto and I'm a certified anesthesiologist assistant or

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and I am here to represent the Virginia Academy of

Anesthesiologist Assistiants.

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CAA. I began practicing as a CAA in 2009, and I've

been living in Virginia and working in D.C. since

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Additionally, candidates must submit scores
                                                                                                                                                                                                                                              Physically it's 56 to 132 hours of dyadic
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             In comparison, nurse anesthetists work
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            When a CAA encounters a problem while
                                                                                                                                                                                                                                                                                                                                                                                                  CAAs only practice under the medical
                                                                                                                                                                                                                                                                                                                                                                                                                                             direction of a physician anesthesiologist as part of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          especially in times of emergencies. Most physicians
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            Working under the supervision of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             team model directly correlates with quality of care
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              speciality profession such as a surgeon, pediatrist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            physician anesthesiologists in the anesthesia care
                                                from a standardized test, either the impact or the
                                                                                                                                                                                                                                                                                               training, as well as an average of 2,500 clinical
                                                                                                GRE, All anesthesiologist assistant programs are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          do not routinely provide airway management and do
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           anesthesiologists have in diagnosing and treating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              or dentist. Nurse Anesthetists do not practice
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        not have the extensive training that physician
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              under a physician anesthesiologist or another
                                                                                                                                                 graduate schools with dyadic and clinical
                                                                                                                                                                                                                                                                                                                                               hours over the course of 24 to 28 months.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               independently in the State of Virginia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             the anesthesiologist care team model.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           acute perioperative events.
                                                                                                                                                                                                    requirements.
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DR. CARTER: So you do not take independent I currently work at a surgery center in When you say that you are supervised instead of one. They share anesthesia knowledge and training within the care team model provides for the a proven track record of being safe and confident, I identical matter. As anesthesia providers who have directly, does that mean the anesthesiologist is in DR. CARTER: I do have a question. anesthetists. Our CAAs and nurse anesthetists are respectfully request that this Board supports the Washington D.C. Our facility uses the care team two individuals highly trained in anaesthesia model. Everyday I work collaboratively with physician anesthesiologists, CAAs and nurse interchangeable and we are supervised in an absolute best and safest care for patients. Thank you for your time. MS. DILORETO: Correct. DR. CARTER: Thank you. MS. DILORETO: Yes. licensing of CAAs in Virginia. the building? calls? 14 00 Ø) 10 = 12 13 12 5 20 53 16 17 18 21 22

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working under a physician anesthesiologist, you have

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CAAs were developed in the late 60's by a
                                                      MR. BETTS: Good morning members of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The CAAs are governed by the National
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        In 2006, the Veteran's Administration
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               first program was established at Emory University in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  recertification for examination is required of every
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        of (inaudible) utilize CAAs either through licensure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              of declaratory authority. Virginia is surrounded by
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  North Carolina, Washington, D.C. Kentucky, Chio, all
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Assistants, which requires three ongoing aspects of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Currently 17 jurisdictions with the addition
                                                                                                         board. My name is Jeremy Betts. I'm the director
MR. WELLS: Next is Jeremy Betts.
                                                                                                                                                                                                                                                                                                                                                                            group of physicians due to an anesthesiologist or
                                                                                                                                                                                                               Anesthesiologist Assistants and I'm from Atlanta,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               education and then approximately every six years
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Commission For Certification Of Anesthesiologist
                                                                                                                                                                                                                                                                                                                                                                                                                               anesthesia provider shortage across the nation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     1969 and Case Western Reserve in Ohio following
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        licensure. First, an initial certified exam,
                                                                                                                                                            of State Affairs or The American Academy Of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           ongoing registration and continuing medical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  of which would utilize CAAs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         shortly thereafter.
                                                                                                                                                                                                                                                                     Georgia.
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In a recent survey study that was provided

from Stanford University -- I believe that the study was delivered to you -- the researchers were able to

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services, where patients who received inpatient care

take a look at retrospective medicare fees for

2011. The study size consists of roughly 450,000

cases.

from an AA or a NA, and that is for 2004 through

differently if rendered by a nurse anesthetist or an

anesthesiologist assistant.

medically directive services for anesthesia any

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Medicaid payments whereas anesthesia services. Commercial insurance payers do not treat the

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classifies anesthesiologist assistants as a provider

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within the VA system as well as TRICARE recognizes anesthesiologist assistants as a recognized provider

for anesthesia services.

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anesthesiologist assistants as anesthetists along with nurse anesthetists in regard to Medicare and

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Furthermore, CMS recognizes

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mortality, length of stay or spending compared to NA

concluded that AA care was not associated with --

statistically significant difference in patient

length of stay and impatient spending, the study

Looking at impatient mortality and patient

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Increasing the number of states for CAAs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Lastly, the CAAs scheduled practice is
                                                                                                                                                                                                                        spoke to the anesthesia care team provides a greater
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 determined by four things; any applicable statute or
                                                                                                                                                                                                                                                                                                                                                           anesthesiologist immediately available. I can speak
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           So a physician is always available within a physical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       regulatory constracts through the nation, the least
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                requires immediately available somewhere within the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             physical proximity and then varying constracts all
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       the way up to within the surgical suite or the set
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        medicine or licensing authority, the credentialing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    of rooms to which a surgery will be taken care of.
                                                                                                                                                                             along with the study. Additionally as Layne just
                                                                                                                                                                                                                                                                  level of safety for each patient with an advanced
                                                                                                                                                                                                                                                                                                                                                                                                                                                There are three different levels
                                                                                                                              decrease in patient safety or care in following
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     authority at the hospital, and then lastly, and
                                                                                 can practice is likely to be associated with a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              regulation by the state, the state's board of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      restricted being under CMS regulations, which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          immediately available provided throughout the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           proximity to the anesthesiologists assistant.
                                                                                                                                                                                                                                                                                                               practice provider as well as a physician
                                                                                                                                                                                                                                                                                                                                                                                                     to that.
care.
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MS. HAYNES: A physician or does it have to MR. ANGUS: Good morning. My name is Shane First, I would like to recognize some of I'm happy to stand for any questions if regulations that are directed and practiced. And if MR. BETTS: And an anesthesiologist Anesthesiologist. I'm also the program director for the students who made the trip down here today. One thing that I found that is important as an educator assistant to practice and ultimately has control of today to speak to you about Criteria Two, which is the Case Western Missouri University. I am here Washington, D.C. where I practice as a Certified delegates the authority to that anesthesiologist is to make sure they appreciate the rules and And thank you for your time. Angus. I'm a Certified Anesthesiologist in MR. WELLS: Shane Angus. MS. HAYNES: Thank you. MR. BETTS: Thank you. be an anesthesiologist specifically? the specialized skills and training. the anesthesiologist assistant. assistant, an anesthesiologist. there are any. 9 15 91 17 Ξ 2 13 4 8 5 20 22 23

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arguably most important, the physician, who

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             There are numerous programs that have met
                                                                                                                                                                                                      Specifically regarding their education,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              In addition, there is a program with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         There is also a requirement that the
                                                                           Many of these students are Virginians and they would
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   certified anesthesiologist assistant, as well as any
                                                                                                                                                                                                                                                                                                                                                                                                                 They must also house a program within the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 facilities to house an anesthesia residency program.
                                                                                                                                                                                                                                               there are several rigorous steps that must be taken
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  instructors, in which the anesthesia students learn
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    the benchmark for meeting all of these criteria and
                               it's okay with you, I would like to recognize them.
                                                                                                                                                                                                                                                                                                                                                                     degree, a master's, but is run through a school of
                                                                                                                                                                                                                                                                                                                                                                                                                                                          anesthesiology department that has the educational
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Accreditation of Allied Health Education Programs,
                                                                                                                                                                                                                                                                                      into the program. Mainly, they must enter into a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     by which there are 27 different professions under
                                                                                                                                                                                                                                                                                                                              program that has a curriculum that results in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          other health care professional whose ground is
                                                                                                                  love to come back and work and be citizens of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            from, has to be a physician anesthesiologist,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     specific accreditation CAAHEP, Commission on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    relevant to the practice of anesthesia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               that umbrella.
                                                                                                                                                                                                                                                                                                                                                                                                                   medicine.
                                                                                                                                                               Virginia.
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After they have completed that examination, So after they have obtained these programs For these reasons and numerous others, the they will then be allowed to obtain of themselves as demonstrations, I believe, is hopefully fulfilled in their initial examination, which is assessed through will have the pleasure of retaking that examination Houston, Texas. There is also Emory University in and they are nearing graduation, they will sit for Anesthesiologist Assistants, which is administered they are at Emory University, Case Western Reserve University in Washington D.C, Cleveland, Ohio and Indianapolis, Connecticut, and Medical College of a Certified Anesthesiologist and every two years through the National Board of Medical Examiners. education of 40 hours. And every six years they they will need to demonstrate continuing medical to maintain their certification and that will be Lauderdale and Tampa. There is a University of Atlanta, Nova Southeastern, which is in Fort Colorado in Denver, Indiana University in the National Certification Commission for your eyes to that criteria number two. Wisconsin, Milwaukee. ongoing. N m 00 10 13 14 16 17 Ħ 12 13 18 5 20 2

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                                                                                                                                                                                                                               MR. ANGUS: Correct. There is an initial
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            MR. WELLS: Approximately how many hours?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MR. ANGUS: Very good. Thank you. There
                                                                                                                                                                                                                                                                                                                                                                                                                                                                     MR. ANGUS: Degrees in master's degree
                                                                     DR. CARTER: I just have one question.
                                                                                                                                                                                                                                                                                                                                                                                         MR. WELLS: You mentioned a master's,
                                                                                                          The examinations, you said they are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             which is determined by the institution, the title of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    that master's. So certain institutions may call it
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         are all master's degree. The minimum is 24 months
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               are different agencies which credit the different
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  hour means. So the hours vary quite a bit. They
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        regional institutions and it gives them a lot of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                institution may call it a master's of science --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             flexibility to determine how many hours a credit
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         a master of science and anesthesia and another
                                                                                                                                                   retaking it or is it a recertification exam, a
                                                                                                                                                                                                                                                                  examination, year one. And then there is a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 I think in terms of four years, two years.
                                                                                                                                                                                        separate exam from what the original was?
                                                                                                                                                                                                                                                                                                                                                  DR. CARTER: Thank you.
                                Thank you very much.
                                                                                                                                                                                                                                                                                                             recertification in every six years.
                                                                                                                                                                                                                                                                                                                                                                                                                                 what's the actual degree?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       medical science.
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                                                                                                                                               MS. WILSON: Good morning. My name is Rose
                                                                                                                                                                                                                                                                                                                                        My family moved to Northern Virginia in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 I want to recognize the other CAAs here
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Additionally, the current class of CAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             Alexandria, Virginia in 2014. Being able to work in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        as a CAA in D.C. since 2012. I purchased a home in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Virginia would greatly enhance the life that I have
                                                                                                                                                                                                                                                                                                                                                                                                                                                        Virginia to practice and live. I have been working
                                                                                                                                                                                                                                                                                                                                                                           2001. And while I left the area to attend the CAA
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      today, who would also like to have the opportunity
                                                                                                                                                                                  Wilson. I'm the president of the Virginia Academy
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           to work in Virginia and to contribute to our local
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                There are currently 14 CAAs that are
                                                                                                                                                                                                                       of Anesthesiologist Assistants. I'm a Certified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    students from Case Western Reserve University in
                                                                                                                                                                                                                                                            Anesthesiologist Assistant living in Alexandria,
                                                                                                                                                                                                                                                                                                                                                                                                                   program, I always knew I wanted to come back to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   residents of Virginia but must travel to North
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Washington, D.C. are present. Eight of these
                                                                     Thank you for your time.
                                                                                                          MR. WELLS: Rose Wilson,
                                                                                                                                                                                                                                                                                                   Virginia but working in Washington, D.C.
                              and the maximum is 28 months.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          Carolina or D.C. for work.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            built bere.
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17 The license of the CAA allows for a wide Unfortunately, after the training is the opportunity to rotate and train in Virginia with students are Virginia residents and many others want to stay in the area after graduation. Students have complete, they must leave the state to practice. By Criteria three discusses autonomous practice. Certified anesthesiologist assistants are autonomously functioning deep in their practitioners Fishersville, Virginia or with any anesthesiologist retain these students and attract additional highly who work exclusively within the anesthesiology care physical, formulating an anesthetic plan, obtaining having licensure available to CAAs, Virginia would monitors such as arterial lines, central lines and determining the need for invasive and non-invasive placing and managing regional anesthetics, spinal, range of functions including, but not limited to, performing a thorough pre-anesthetic history and team model under the direction of a physician Dr. Laser (phonetically) at August Health in willing to supervise on a one-by-one basis. trained educated professionals to the area. necessary diagnosis studies and blood work, anesthesiologist. in 6 ∞ o 10 CV. 11 2 13 4 13 16 17 8 19 20 21 23 2 22

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Thank you for taking the time to consider a I hope to soon add the excellent facilities CAAs provide safe and effective patient In additional to our daily patient care advanced cardiac life support, and pediatric advance life support. We contribute to the departmental and community to improve patient safety outcomes and to care in all surgical specialties including, but not Hospital in Atlanta, Metro Health Medical Center in limited to, cardiac, trauma, pediatrics, obstetrics growing and the residents of Virginia would greatly and gynecology, orthopedics, vascular and plastics. We currently work in all types of managing emergencies, including difficult airways, responsibilities, we are also an integral part of Children's National Medical Center in D.C., Brady The CAA profession is epidural, interpreting monitors while initiating facilities to level-one trauma centers such as institutions ranging from ambulatory surgery institutional development as members of the benefit from the care that CAAs can provide. Cleveland and Dallas Children's Hospital. treatments and adjusting the anesthetics. reduce surgical site infection. in Virginia to this list. N un ø Ø 10 00 12 13 19 = 14 1 18 5 20 22 23 24 2 2

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Among my roles and my responsibilities at
                                                                                                                                                                                                                                                                                               I'm Dr. Matthew Pinegar. I'm a physician
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            I would like to talk a little about the
                                                                                                                                                                   DR. PINEGAR: My compliments to you on
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Western Reserve University, master's in the science
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     function as the medical director of the assessment
                                                                                                                                                                                                                                                                                                                                         and anesthesiologist and I practice in Washington,
                                                                                                                         MR. WELLS: Dr. Matthew Pinegar.
                                                                                                                                                                                                            pronouncing my name correctly. Most people don't
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Washington Hospital Center as well in Washington,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                       McClain, Virginia in Fairfax County for the past
                                     licensure of Certified Anesthetist Assistants in
                                                                                                                                                                                                                                                                                                                                                                                                                             transplant to the state of Virginia. I lived in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      scope of the practice. Now according to federal
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                eight years when I accepted a job in Washington,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           participate as the medical director of the Case
                                                                                                                                                                                                                                                                                                                                                                                    D.C. at the Washington Hospital Center. I'm a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Washington Hospital Center, in addition to the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             clinical practice that I take part in, I also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              clinic that we have at our hospital. I also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              and anesthesia program that we have at the
                                                                                                                                                                                                                                                    get it right the first time.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               D.C. and moved to the area.
                                                                              Virginia,
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In addition, anesthesia can be administered I think the most important thing I can At our hospital we are involved in the by a certified registered nurse anesthetist or by an share with you is a little bit about how we practice training of residents, anesthesia positions, student at the Washington Hospital Center and how we utilize an anesthesiologist and may involve AAs and CRNAs as Our AAs have increased dramatically from the handful well. At our hospital we have 32 NCRAs and 42 AAs. physician anesthesiologist, by a MD or DO physician defined as anesthetist under federal regulation as anesthesia care team model -- which are covered by administered by an oral surgeon, a pediatrist or a dentist who is qualified to administer anesthesia. graduated from a school of medicine or it must be regulations, anesthesia must be administered by a program as well as the anesthesiologist assistant anesthesiologist assistant, both of which are nurse anesthetists, who are in the Georgetown both nurse anesthetists and anesthesiologist assistants in our practice. We follow the of AAs that we had when I started as an anesthesiologist at the hospital. well. -Ø, ω 10 2 2 14 16 23 12 17 18 5 20 23 24 Ħ

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          I would like to speak to the training that
                                                                                                                                                                                                                                                                                                                                                                                                             They are in every aspect of our anesthesia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               The two cases were very similar cases and
                                                                                                                                                                           The scope of
                                                                                                                                                                                                                                                                                                                                                                                                                                                       delivery whether it be in the operating room, in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      student nurse anesthetist. And the type of clinical
                                                                                    University. The way we utilize our anesthesiologist
                                                                                                                              assistants and our nurse anesthetists are identical.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       assistant student. Later in the day I was assigned
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 anesthesia delivery on the floor or in the recovery
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    and our anesthesiologist assisting students. As an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                example, my day yesterday started out with clinical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                involvement in a case involving an anesthesiologist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      to a different case where I had involvement with a
                                                                                                                                                                                                                                                               engaged are identical. It is my opinion that the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         we provide to both our student nurse anesthetists
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           training that I gave both students was identical.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            the expectation that I had for both students was
                                                                                                                                                                                                                                                                                                                 outcomes between the AAs and the CRNAs in their
                                     students that we have from Case Western Reserve
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      pre-assessment clinic or the assessments after
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    virtually unchanged. Following graduation the
                                                                                                                                                                                                                          practice and the activities in which they are
                                                                                                                                                                        We do not distinguish between the two.
                                                                                                                                                                                                                                                                                                                                                                practice are identical as well.
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While I will admit that certain individuals I will maintain that no one is a complete work ethic or the type of training that they focused things that we expect of our AAs and our CRNAs, they the distinction between who can leave or who assumes that they had attended, but more on their individual relieving, AAs and CRNAs who reach the end of their shift, we interchange the same. And we do not make show that they have an increased ability, increased particular expertise in certain areas. While being there are other people in my practice that focus on CRNAs will gravitate to certain areas and will have skill, increased knowledge compared to their peers, the care of a case based on their licensure or the capable of doing regional anesthesia, for example, whole and as a group there is no difference in our different areas. So certain individuals may have particular expertise in certain areas. But as a or perfect anesthetist, that everyone focuses on it more. And you will find that certain AAs and it is not based at all upon the training program are the same, when it comes to giving breaks or expectations for AAs and CRNAs. There's no type of training that they have done. N un) 10 r Ø 10 = 2 2 91 F 18 2 20 55 23 7 2 2 24

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                                                                       It's interesting that in last month, in
                                                                                                                                                                                                                                                                                                                                                                                                                                              MR. WELLS: I do. In talking about the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          DR. PINEGAR: There are times when our
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            DR. PINEGAR: They participate in the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   induction. The policy in our hospital is that every
                                                                                                                May, at the annual meeting of the Association of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   anesthesiologist. And it's the policy and practice
                                                                                                                                                                                                                                                                                                                       no significant difference in outcome whether an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          at our hospital that all inductions take place with
                                                                                                                                                         University of Anesthesiologists in Washington, D.C.
                                                                                                                                                                                            there was a study that was presented which took in
                                                                                                                                                                                                                                                                                                                                                                                                     Do you have any questions for me?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          nurse anesthetist or an anesthesiologist assistant
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       MR. WELLS: Same question for the
                                                                                                                                                                                                                                       account over 452,000 cases that were billed under
                                                                                                                                                                                                                                                                              the Medicare service that demonstrated that there
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the physician anesthesiologist present whether a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          anesthesia, particularly the nerve blocks without
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 nurse anesthetists or AAs will initiate regional
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            anesthetist is supervised by a physician
                                                                                                                                                                                                                                                                                                                                                                AA or a CRNA was involved in the case.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   or a student is involved in the case.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     care team model, do your AAs induce?
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                                  difference in outcome.
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24 So, while we do make it a practice -- or at DR. PINEGAR: Codes, like a code blue, yes. Good morning. My name is Dr. So when I was looking for a job I decided least certainly I do, of seeing every patient before then I trained in surgery in Pittsburg, and then did undergraduate training or undergraduate education at and delivery, sometimes things can get pretty busy. the actual presence of the physicians. Up in labor initiation of any anesthetic, there are times when the anesthesiologist will not be present for every Do they attend codes? They will help out in emergency situations if they Virginia in 2005 when I was coming here, there was So, occasionally, we will be supervising multiple Buffalo, New York, where I'm originally from and are available and they are the first to respond, training for anesthesia back up in Buffalo, did Scott Frank. I did my medical training up in to come to the D.C. area. And at the time in Dr. Scott Frank. MR. WELLS: MR. WELLS: DR. FRANK: then they will help there. sites at the same time. Georgetown University. 9 1 17 00 2 = 12 5 14 16 8 13 20 2 22 24 13

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     I have for the last 12 years, almost 13
                                                                                                                                                                                                          licensed in the State of Virginia as a physician and
                                                                                                                                                                                                                                                                                                                  the Virginia Society as of yet. But I was looking a
                                              no real jobs for my criteria in Virginia. But I did
                                                                                                                                                      I have been working for the last 12 years. And I am
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    things Dr. Pinegar said since he's my colleague. We
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        work together. I agree with him. I say that I feel
                                                                                                  take a job at the Washington Hospital Center, where
                                                                                                                                                                                                                                                                 I'm also a member of the SADCHA. I have not joined
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Associate Director of Obstetric Anesthesia. I'm an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            years now, in the Hospital Center and directly with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                the AAs, certified AAs. I might repeat some of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                              the OR Operations at the Hospital Center, I decided
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            that there is no difference in the practice of the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     compared to the CRNAs. They are a very good group
                                                                                                                                                                                                                                                                                                                                                                                                                             because I was promoted to the medical director of
                                                                                                                                                                                                                                                                                                                                                                      couple of years ago to practice in Virginia, but
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Operations Director, Medical Director. I'm also
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              fulltime clinical. I'm also, as I said, an OR
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             an attending physician anesthesiologist doing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 certified anesthetists when I work with them
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    obstetric, and also trauma surgery as well.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                anesthesiologist in the specialty as well,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     to stay there for a little while longer.
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So, with that said, the students I teach as I would add to his comments, in the sense I actually came to that Hospital Center such a level of care, that is one of the things that really promote my clinical skills and I feel like it that in our hospital, we deal with a very, very high advantage to that career because they are exposed to it's usually a hard choice, I will say that because train at that institution actually what makes a big And that is something that we require, particularly have our pick of the litter also in the sense of -all of the training programs do a very good job of the Georgetown students, CRNAs as well as students And having had them when we train the anesthetists as well, both from potentially to hire them afterward, we do kind of risk population of patients, very sick patients. makes them allow to work anywhere in the country like that to start with because I felt it would well, as they mentioned about their training from the AA programs -- when we select them, has in that regard dramatically. educating these individuals. after that training there. are very talented. 10 91 # 2 13 14 12 17 18 5 27 22

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of individuals that we have at our hospital. They

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They are allowed to go and start C-sections We are always present starting every single I would note as well that we have actually And the reason for that is because the advanced -- in practicing obstetrics, it's usually a we have actually advanced to a care team model where difficult sick moms who come in with babies and sick on their on, both the AAs and the CRNAs as well. We are always on the floor in that regard. And we can for the most part or for insurance reimbursement to to just have anesthesiologists covering those. But have a lot of leverage in that regard when it comes case for CRNAs and AAs. We are always in the room. environment for obstetrics -- it's common practice babies that come in that we really do need to take because we have a high risk obstetrics department, always back them up in that regard. But they do we have an anesthetist on 24/7 as well with us. environment is so difficult sometimes with very advantage of the extra hands as Dr. Pinegar was They can push drugs if you would like to induce lot of institutions particularly a low risk to obstetrics in particular. the hospital. N u) 6 Ø 10 2 13 14 2 91 18 5 20 24 = H 21 22 25 27 A couple of other points, CMS requirements through the same kind of premedical education that I basically for medical direction basically is limited There is basically no difference in programs, the students do a very good job. They go went through in a sense. And, therefore, they seem direct, we actually get paid less and less, so it's breaks. They are a very good quality group that we additional case that we cover or supervise, medical it is an advantage, I think, to the care team model that is once again -- that's just a point about the CRNAs and AAs get pretty much paid the same really notice no major difference between the two. in that regard that potentially reducing cost but with, they meet each other. They give each other to no more than four anesthetists. That doesn't management in that regard because of having that The nurse anesthetists, the CRNAs I work mean we get four for each anesthetist. For each compensation for, I believe, insurance or CNS as not that we get paid the full amount for that. background. I find that it works well on both have at our hospital. And as I said before, I to have kind of a good approach to medical care team model as well.

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well.

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push drugs. But we are always in the room for airway management support and to get cases started in that regard. Are there any questions or comments? DR. ALLISON-BRYAN: It really sounds like they are pretty well supervised at the Washington DR. ALLISON-BRYAN: Do you have any idea how your model, anesthesia care team model, compares to other hospitals that are using CAAs I mean, is this a DR. FFANK: I think other institutions mean, our institution, we deal with one of the sickest patient population in the country. So with that data, I think it's very easy to do if you were to go to a community center hospital versus another big center like over in Fairfax, which is near me, Fairfax Hospital Center, I think there would really be no difference. I don't think I would have any concerns about where they trained in the sense. With anything in anesthesia particularly, a lot of it has to do with their experience level.	mey can
Are there any questic hat regard. Are there any questic are pretty well supervised at the solutal Center. DR. ALLISON-BRYAN: JR. ALLISON-BRYAN: OUR model, anesthesia care team there hospitals that are using CAM a DR. FRANK: I think t, our institution, we deal with a cest patient population in the concept patient population in the concept patient population in the concept in the intervent of the accommunity center hospital center like over in Fairfax, which is to a community center hospital center like over in Fairfax, which is the solut where they trained in anothing in anesthesia particular as to do with their experience lease to do with their experience lease.	
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DR. ALLISON-BRYAN: are pretty well supervised at the standard center. DR. FRANK: Yes. DR. ALLISON-BRYAN: your model, anesthesia care team ther hospitals that are using CAM and a community we deal with context patient population in the context patient population in the context in think it's very easy to to to a community center hospital center like over in Fairfax, which is the standard center like over in Fairfax, which is the spital Center, I think then the difference. I don't think I we can about where they trained in anything in anesthesia particular as to do with their experience lease to see the standard context of the	ts?
rare pretty well supervised at the Washington Dital Center. DR. FRANK: Yes. DR. ALLISON-ERYAN: Do you have any your model, anesthesia care team model, compares where hospitals that are using CAAs I mean, is a DR. FRANK: I think other institution, we deal with one of the est patient population in the country. So with data, I think it's very easy to do if you were no to a community center hospital versus another center like over in Fairfax, which is near me, fax Hospital Center, I think there would really of difference. I don't think I would have any serns about where they trained in the sense. I anything in anesthesia particularly, a lot of as to do with their experience level.	nds like
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Fairfax Hospital Center, I think there would really be no difference. I don't think I would have any concerns about where they trained in the sense. With anything in anesthesia particularly, a lot of it has to do with their experience level.	
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it has to do with their experience level.	
So most of the training programs that we	that we

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And as Dr. Pinegar said, they will kind of The American Society of Anesthesiologists MR. HANSEN: Hello. My name is Jason specialities, the things that we kind of like to do. a resident of the State of Virginia. My wife and I is their personal preference. And that is actually for the American Society of Anesthesiologists. I'm supports licensure of CAAs in all states. They are specialize. We have some anesthetists who only do prefer not to do certain types of cases. But that anesthesia care team provides an anesthesia person Hansen. I serve as the Director of State Affairs The obstetrics. And we have some anesthetists who the same thing that happens in the anesthesia valued members of the anesthesia care team. fan out into some areas where they like to MR. WELLS: Jason Hansen. performed by or supervised by a physician So we kind of have It's just a common practice. own a home in Alexandria. to gain the experience. profession as well. 10 17 20 Q² œ 11 12 77 18 22 23 10 13 9 19 21 13

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have, the students we have, they seek out, but also

the same thing with the certified nurse

anesthetists, they seek out different opportunities

anesthesiologist constitutes the practice of
medicine.
Certain aspects of anesthesia care can be
delegated to other properly trained and qualified
individuals. These professionals, medically
directed by physician anesthetists, constitutes the
anesthesia care team. While selected task delegated
to these qualified individuals, responsibility
remains with the physician anesthesiologist. The
physician anesthesiologist determines which tasks
are delegated or participates in critical components
of the anesthesias and remains physically available
for management of emergencies regardless of the type
of anesthetic.
State authorization of certified
anesthesiologists assistant licensure has been
ongoing. Seventeen jurisdictions now authorize CAA
practice. This established profession has been
serving patients for over four decades. We in the
Department of State Affairs are seeing more and more
states across the nation seeking to add CAAs to the
range of their licensed professionals.
As someone who has personally received
anesthesia care from a certified anesthesiologist
assistant practicing within the anesthesia care

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                                                                                                                                                                                                                                              My name is
                                                                                                                                                                                                                                                                                                                             anesthesiologist assistant in Washington, D.C. and a
                                                                                                                                                                                                                                                                                                                                                                       Fairfax County Virginia resident. I am the director
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       Virginia. Certified anesthesiologist assistants are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   -- CMS recognizes the anesthesiologist assistants as
                                   team, I strongly support their licensure in my state
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Anesthesiologist Assistants. I would like to thank
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Medicaid and Medicare, of all commercial insurance
                                                                                                                                                                                                                                                                                                                                                                                                                                                       Western Reserve AA Program and I also serve on the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      anesthetists in regards to services rendered under
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  is the economic impact, the licensure of CAAs in
                                                                             and hope not to have to leave Virginia again to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              board of directors for the American Academy of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            certified anesthesiologist assistants or nurse
                                                                                                                                                                                                                                                                                                                                                                                                               of dyadic construction (phonetically) at Case
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    recognized by the CMS, which is the Center of
                                                                                                                                                                                                                                         MR. MOSAROS: Good morning.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             qualified non-physician anesthesia providers.
                                                                                                                                                                                                    MR. WELLS: Danny Mosaros.
                                                                                                                                                                                                                                                                                   Danny Mosaros. I am a practicing certified
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Insurance payers do not distinguish between
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              the Board for allowing us to speak today.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              the anesthesia care team model.
                                                                                                                                                            Thank you.
                                                                                                                  receive this care.
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Anesthesiologists. I have lived in Virginia most of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      graduated from West Springfield High School. I went
                                                                                                                                                                                                                                                                                                  this process to be budget -- considering the number
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Emil Engels. I'm a physician anesthesiologist and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                to the University of Virginia for college. I left
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       for a few years and then came back in 1999 to work
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               at Fairfax Hospital. I have been there ever since.
                                                                                                                           anesthesiologist assistants will fall in line with
                                                                                                                                                                     this strategic plan put forth by the Department of
                                  associated with licensing and regulation of a new
                                                                                                                                                                                                                                                                                                                                                                                    proximity of an AA program can meet the immediate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               contributing factor to the Department of Health
                                                                                                                                                                                                                                                                                                                                                                                                                              demand and the addition of a new AA program in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            my life, I grew up in Northern Virginia, I
                                                                                                                                                                                                                                                                                                                                            of AAs that already reside in Virginia, the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        Virginia. This will ultimately result in a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the president of the Virginia Society of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           Professionals revenue.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             23
                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The addition of competition in a supply and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             In states where anesthesiologist assistants
Currently anesthesiologists are the only
                                                                                                                                                                                                                 Licensing or certified anesthesiologist
                                       physicians in the Commonwealth with one option for a
                                                                                                                             limits their choice of provider and their ability to
                                                                                                                                                                                                                                                                                                                                            This model of the care team is
                                                                                 physician extender. This is problematic because it
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             demand market is beneficial for the consumer. Data
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 15.2 percent increase in the average salary because
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         related health care cost while meeting the increase
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      The licensing of anesthesiologist
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    This
                                                                                                                                                                                                                                                                                                     physician anesthesiologist involvement with every
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            decrease in average salary is due to competition.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       have created a competitive job market there is a
                                                                                                                                                                                                                                                                                                                                                                                    proven and is the optimal approach for providing
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 and demand for anesthesia providers in Virginia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          anesthesia providers in the care team model are
                                                                                                                                                                                                                                                        assistants will eliminate this issue and ensure
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                assistants will help decrease in the anesthesia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         provided by the Bureau Of Labor And Statistics
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             compensated equally in the care team model.
                                                                                                                                                                     incorporate the anesthesia care team.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     further supports this statement.
                                                                                                                                                                                                                                                                                                                                                                                                                                safe and cost effective care.
                                                                                                                                                                                                                                                                                                                                            anesthesia provided.
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DR. ENGELS: Good morning. My name is Dr.

Thank you very much for your time.

MR. WELLS: Dr. Engels.

Our experience with other states have found

Finally, I would like to address the cost

The licensing will certify that

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                                        Our practice is quite large. You heard Dr.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          I also wanted to comment that as president
                                                                                                                                                                                                                                                                                                                        I'm going to address criterias six and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Criteria six as for alternatives to
                                                                                                                                 Our practice is part of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      public interest and ensures practitioner competency.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  And really is essential and is in the best interest
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           of the VSA, we are as a society and as individuals,
                                                                                   My own practice, I employ 70
                                                                                                                                                                                                                                                                                                                                                                                                                                                            have been covered in other locations. And I agree
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          advocating on behalf of this to create a choice of
                                                                                                                                                                                                                                                                                                                                                                                                                return to your question, Dr. Bryan, about how CAAs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            with Dr. Frank; they are required to be supervised
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       by a physician anesthesiologist and we would cover
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   directly to CRNAs, but rather designed and we are
                                                                                                                                                                                                                                                                       1,900 anesthetists including both CRNAs and CAAs.
                                                                                                                                                                                                                                                                                                                                                                seven. But before I get into that I did want to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               of the public to have CAAs licensed in Virginia.
                                                                                                                                                                                                                          anesthesia providers, 1,500 physicians and over
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         licensure by the Board of Medicine protects the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      we are very supportive of CRNAs. This is not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             regulation, there really is none for CAAs to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              practice in Virginia. We feel strongly that
                                                                                                                                                                            national company, which employs over 3,000
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     anybody in a similar matter.
                                                                                                                              physicians and 100 CRNAs.
                                                                                 Frank talk about it.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Ξ
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In fact, in states that CAAs have come into To give you examples, I mentioned we are I would also make the point that we have But it shows you the number of licensed Northern Virginia. So we have 40 jobs available for care extenders for each physician class in Virginia. providers, -- but, clearly, that is not a good long-This choice, another pool of qualified providers to hire CRNAs that we can't fill right now. The way we are On average, physicians have access to 6.5 different data from MPI, which shows that when CAAs enters a extenders. As anesthesiologist have access to one part of a large company, Midnex (phonetically). and that is CRNAs. So it's really about having company alone has 40 unfilled CRNA positions in qualified providers to hire from in Virginia. providers we hire and to get any other pool of information was provided to you earlier by Ms. staffing is by paying overtime to our current marketplace in a particular state, they don't displace nurse anesthetists and student nurse term solution, anesthetists. Payne. from. 10 Ħ 13 14 15 16 17 18 13 5 22 5

36

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Thank you very much. I would like to say
                                                                                                                                              I conclude by talking about this section,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    And, finally, I would like to point out
                                                                                                                                                                                                                                                                                                                                                                                                                                                  Criteria seven talks about the least
those numbers have increased. There has been growth
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            restrictive regulation that is possible. Of course,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    appropriate allowing the Board of Medicine to really
                                                                                                                                                                                                                                                                                                                                              as that was permissible by state law. So we are in
                                                                                                                                                                                                                                                  in other states. We have 40 openings at the moment
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      pursuing opportunities to start CAA programs in the
                                               in nurse anesthetists numbers in states where CAAs
                                                                                                                                                                                                                                                                                                 for CAA positions. And we would hire CAAs as soon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Southeastern. These are schools that are actively
                                                                                                                                                                                                criteria six. Our company nationally employs CAAs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    that there are CAA schools from around the country
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     We have received interest from Case Western, Nova
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                that has shown interest in expanding in Virginia.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   CAAs are licensed with the
                                                                                                                                                                                                                                                                                                                                                                                                the position where we would actively hire CAAs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CAAs would need to be licensed in the state of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  practice here, but we are in favor of creating
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  statutory language that is differential as
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  Board of Medicine in different states.
                                                                                              have been introduced.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   govern that process.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   State of Virginia.
                                            N
                                                                                                                                                                                                                                                                                                                                                                                             Ø
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again that the VSA is very supportive in licensing

CAAs in Virginia. Thank you for your time. I'm

Thank you.

available to answer any questions.

MR. BALL: Thank you. I'm last for our

MR. WELLS: Brian Ball.

group. I'm Brian Ball. I practice law at Williams

see from looking at me, for decades now. I am very

0 0

Virginia Society of Anesthesiologists, as you can

Mullen here in Richmond. I've represented the

young, energetic people who want to practice their

7

proud to be here. They are a group of bright and

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We have a lot of veterans in the State of I don't know if it was mentioned earlier, We derive great comfort from the studies Virginia. It creates for somebody coming out of the competition for Mr. Angus and Case Western and some profession in our state and it's really an honor to military, it's a great career track to go into the master's program once the individual has completed Virginia would like to have one of them as well. of the other schools that were mentioned today. but there are 12 CAA schools in the country. There is a great interest in doing that. So be a part of this initiative. the necessary prerequisites. 12 12 2 10 17 18 6 21 22 14 20

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just demonstrates the level of comfort once the CAAs
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           did what they have to do to take care of some people
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            back here was the CAA in the OR. The doctor and CAA
                                                                                                                                                                                                                                                       ones, but it's an impressive list of hospitals. It
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         two weeks ago we had the mess up in Alexandria with
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              the members of Congress. People were injured. And
                                                                                                                                                                                                 hospitals. And I haven't thought about the smaller
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         modest CAA, Katelyn Dyburan (phonetically) sitting
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      There is no difference. That's the point of that.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         We have some very modest people in the room. But
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         all of us here to answer any questions any of you
                                          to be anywhere they can be gainfully employed and
                                                                                            challenged. So, I don't think that is an issue.
                                                                                                                                                                                                                                                                                                                                                                                                               facility has with the anesthesia care team that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              may have. And we thank you for letting us come
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       anesthesiologist on deck, and a very quiet and
                                                                                                                                                                                                                                                                                                                                                            can practice in these facilities -- that the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Dr. Frank, who spoke earlier, was the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 visit with you today.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 that were injured.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 includes the CAAs.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      1.6
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           UNIDENTIFIED SPEAKER: In the District of
                                                                                                                                                                                                                                                       There was a question, I believe from you,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         MR. WELLS: I have a question and it's a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MR. BALL: I can assure you that these
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 in smaller hospitals, there is no diversion for them
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      CAAs out there that can work in a facility less than
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      Hospital Center, but we also practice at providence
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    it's derogatory or anything like that. I don't see
                                                                                                                                                                                                                                                                                                                                                                                                               handout that, if I could approach, I would like to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 young people if they can practice their profession
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    here any facilities that are below 250 beds. Any
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              general question, and I hope it doesn't seem like
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         nationally. And it's a pretty good looking list.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Hospital, which is a small catholic run hospital.
                                          that you heard through the doctors mentioning in
                                                                                               terms of the outcomes, the quality of care. The
                                                                                                                                                                                                                                                                                                                                                            jurisdictions or other hospitals. I did have a
                                                                                                                                               outcome is the best, I think, mentioned by Dr.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                 give you in places where CAAs practice at this
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Columbia we practice, obviously, at Washington
                                                                                                                                                                                                                                                                                                         Dr. Allison-Bryan, about the model in other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    point. It represents where they practice
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            It's about 10 ORs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         200 beds?
                                                                                                                                                                                                    Frank.
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And a question was asked about code blue.

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And this is a really good list of

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DR. CARTER: Since you have concluded your

That concludes our presentation. We have

So there is no difference.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        So my question is actually the reverse of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  That's a great question and
                                                                                                                                                                                                                                                                              From what I read about CAAs, they were
                                                                                                    Angus a question. And I think out of all the people
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    quite fundamental on a number of regards to be quite
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                that. The premedical training that the CAA students
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           time has gone by, as the health care climate that we
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      gets is identical to the premedical training that I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 numerous individuals did that. They basically went
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            So
                                                                                                                                                             I've heard, you might be the best person to answer
                                                                                                                                                                                                                                                                                                                                                                                                                                                       some of these folks might want to go on to medical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                frank with you. The idea, you have a point there.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  and got their physician's degree and trained -- as
                                                                                                                                                                                                                                                                                                                                      developed by anesthesiologists and it sounded like
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   are currently living in has continually changed in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          though and got their master's and then went ahead
                                                                                                                                                                                                                                                                                                                                                                                            in the back of their mind they were thinking that
                                            presentation, I would like to go back and ask Mr.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         school, so they are applying to the CAA program?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         anesthesia field, so, back in the 60s and 70s.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   intriguing these young people to come into the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              How many of them didn't get into medical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           There was a shortage and maybe we can start
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               MR. ANGUS:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  school.
                                                                                                                                                                                                                        this.
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So my thought is here are these groups of So about a third of my students are just that. Another third are individuals who are on the We'll see you later. Enjoy what else you are going society. Are we just going to say well, sorry pal. furthest program from their home and go to medical people who are clearly bright. And by the chances Caribbean schools and looking at what else is out bubble, right. They might be able to get to the of an examination their scores are two or three points below the average and they are not being accepted, yet what are we doing with them as a there, what other options are available to me. question it would get them into a very strong school -- maybe they could go to one of the medical school. 12 16 18 20 10 7 m 4 17 5 21 22 23 12

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So a huge portion of these applicants are

been an interest in going to medical school and are

m

looking at this and thinking is there something

many directions you can say, the people who have been applying to our program -- there has always So without

medical school and they have the pedigree. They

have the MCAT score. They have the GPA.

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individuals who are stepping away from going to

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So about a third of the students would have
                                                                                                                                                                                                                                                So, in general, if you look at
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       DR. CARTER: So, of your applications, for
                                                                                                                                                                                                                                                                                                                                                                                                                                                     DR. CARTER: What does it look like? How
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MR. ANGUS: Quite selective. We are
                                                                                                                                                               options and said this might be a good one. So those
to do. Well, I think these are great candidates for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         chair -- the commission who takes care of this event
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                program. You have more requirements than an average
                                                                                                                                                                                                                                                                                                                              couple of years, because given what you told us you
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   and he was looking at our criteria. And he kind of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   other medical schools there. I was talking to the
                                         people who would be excellent in their profession.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        school. So there are additional requirements that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    story. So I went to recruitment at Johns Hopkins.
                                                                                                                                                                                                                                                                                        your application versus acceptances over the past
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            And I was at Johns Hopkins and there was a lot of
                                                                                                                         just that. There are people who looked at other
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            looking at a group of people -- this is a brief
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           chuckled and said why would anybody go to your
                                                                                                                                                                                                      are the two groups that would fall into that.
                                                                                                                                                                                                                                                                                                                                                                     probably have access to that information.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                we mandate. So, it can be hard, yes.
                                                                                                                                                                                                                                                                                                                                                                                                               MR. ANGUS: Yes.
                                                                                                                                                                                                                                                  DR CARTER:
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             selective is it?
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MS HAYNES: My question is for Mr. Mosaros.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                MR. MOSAROS: Sure, Are you referring to
                                                                                                                                                                                                                                                                                                                                                                                  DR. CARTER: Excellent. Thank you very
                                                                                                                                                                                                                                                       our high requirements -- I like that personally -- I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       is going to drive up my costs. And this is going to
                                                                                                                                                                                                                                                                                                don't have to look through 300 applicants for which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              CRNAs, one of the responses from them are that this
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      spoke to economic impact. And based on some of the
                                                                                                                             requirements we probably go about a third, a third,
                                                                                                                                                                                                              But because of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the physician anesthesiologist saying that this is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  going to drive up the cost or the surgeon or both?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           I hope I am pronouncing your name correctly. You
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              be costs that I am going to eventually pass on to
every two applications, are you accepting one, I
                                                                                                                                                                     a third. So for every three applicants, I'll go
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     many of the physicians practicing are opposed to
                                                                                    MR. ANGUS: Because of the high
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          information that I reviewed, can you explain why
                                                                                                                                                                                                              through two and I will accept one.
                                                                                                                                                                                                                                                                                                                                         two-thirds aren't really liable.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    CAAs in addition to CRNAs.
                                           mean just in general?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         the patient.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        MS. HAYNES: Yes. And I have another one.
                                                                                                                                                                                                                                              So, you either have the choice -- if you
                                   MR. MOSAROS: This is definitely not my
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                For example, when I saw the small surgery centers --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        actually work at a surgery center. And we have four
                                                                                                                                                                                                                                                                                                                                                                                                               it be an anesthesiologist or not, the same with AAs.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    MS. HAYNES: For example, the CRNA,
                                                                                                                                                            anesthesia care team model, one physician can cover
                                                                                                                                                                                                                                                                                      have to run -- if you are a four-room hospital, you
                                                                                                                                                                                                                                                                                                                                                                        anesthetists with one supervising physician whether
                                                                                                                  understand -- when you insert individuals into the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            anesthesiologists are saying why would I choose to
                                                                                                                                                                                                                                                                                                                                                                                                                                                         So, by actually incorporating the anesthesia care
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 team model it allows you to run more rooms and do
                                                                             area of expertise. But my explanation to what I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Does that answer your question?
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                person. The care team model is four people. I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   with that is I don't believe it's an additional
                                                                                                                                                                                                                                                                                                                              would have to run four physicians, four nurse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MR. MOSAROS: Yes.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    bring in this additional person.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         more cases at a lower cost.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               ORs and two --
                                                                                                                                                                                                      four rooms.
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don't believe you're adding cost to the health care.

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no providers because there was only one option, I

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MR. MOSAROS: -- and we run four providers,

MS. HAYNES: All right.

two CRNAs, two AAs and one anesthesiologist. There

is no additional cost. It's not they are going to

add a profession to this. They are either going to

strictly related to them. So, if we needed to hire

incorporate AAs in their practice or not. It is

two more providers to run six rooms and there were

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MR. MOSAROS: One example where it would be
                                                                            And the reason for my question, as I have
                                                                                                                                                                                                                                                                                                                                                                                                     physicians, the cost of a physician versus the cost
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            So, one physician can manage four
                                      MS. HAYNES: Yes. Yes, it does.
                                                                                                                   said, in seeing this over and over and that's the
                                                                                                                                                         thought that this is just another person and it's
                                                                                                                                                                                                                                                                                                                        the opposite is if you were a small facility that
                                                                                                                                                                                                                                                                                                                                                                                                                                             of someone in the anesthesia care team model is
                                                                                                                                                                                                  going to increase my cost. It's also going to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              anesthetists. And if you compare all of their
                                                                                                                                                                                                                                                                                                                                                              were running four operating rooms with four
                                                                                                                                                                                                                                           increase the cost of the patient.
Does that --
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      significantly different.
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                                                                                                                                                                                                                                                                                                                        As you heard,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         I'm the current president of the Virginia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              So, to that end, I can speak to a lot of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  I would like to take a second to let you
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          In my former life I was the director of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       anesthesia for a large southwest Virginia healthcare
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          anesthesiologist assistants and VANA has not taken a
                                                                                                                                                                                 for a number of anesthesiologists versus providers.
                                                                                                                                                                                                                                                                                                                                                                                                               master's in nursing anesthesiology, a doctorate in
                                          salaries versus four anesthesiologists, there is a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           your concerns about the smaller facilities and the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        actual real world cost of providing anesthesia in
                                                                                                                               anesthesiologists -- there is also a supply issue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   practicing CRNA and the director of services for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Association of Nurse Anesthetists. I am also a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 professional aspects of seven rural facilities.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   rural Virginia in mid to small size facilities.
                                                                                                                                                                                                                                                                                                                     MR. DEFOREST: Good morning.
                                                                                                                                                                                                                                                                                                                                                                  my name is Peter DeForest. I'm a CRNA with a
                                                                                    significant increase in cost in running four
                                                                                                                                                                                                                                                                        MR. WELLS: Peter Deforest.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             know that in principle I am not opposed to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    system, which I oversaw the staffing and
                                                                                                                                                                                                                              MS. HAYNES: Thank you.
                                                                                                                                                                                                                                                                                                                                                                                                                                                            nursing anesthesia practice.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             critical access hospital.
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I want to point out that you have heard position against anesthesiologist assistants. We do think my time would be best spent in addressing what I am most familiar with, which is trying to provide CRNAs and anesthesiologist assistants and that they have some issues, which my colleagues to follow me were aiding in the admission to provide good, safe anesthesia care to the residents of the states and The other difference is admission But the arguments that have been several times that there is no difference between truthfully. But that is because they are setting my daughter and my son exactly the same, but that presented for their utility in Virginia -- but I requirements and so forth. And with all of them differences. And the physician anesthetist that said they treat their CRNAs and anesthesiologist doesn't erase the fundamental difference between are held to a very high standard for admission assistants the same are probably speaking very safe, cost-effective care in rural in smaller communities that they serve. But there are their own perimeters. I mean, I can treat will point out. facilities. them. 10 7 12 3 4 1.5 16 17 8 19 20 2

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standards. By all of the admission standards I have
found for their programs, if you just look strictly
at their criteria, none of those candidates would
get accepted into a nurse anesthesiology program.
I personally got I was licensed as a
registered nurse in 1985. I went back and got a
graduate degree in nursing anesthesiology in 1990.
And in that interim, my primary nursing education
and my nurse anesthesiology education I spent five
years working in post surgical settings, orthopedic
post surgical settings, in coronary care units and
in what we called at the time, cardiothoracic
intensive care unit, which we would receive open
heart surgery patients and back in the day when
things were by today's standards pretty barbaric,
and we would sit with those patients over night
while they would emerge from their anesthetic and
all of the various problems that came up during the
course of the night with just a fellow on call three
floors away.
And there were times when you had trouble
with a patient, critical trouble with a patient, and
you would be there for five minutes or however long
you needed to be until the fellow could make his way
down. The fellow staff neonle on the floor were

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So that is how I came to enter my graduate And I admire these kids because it's going You know, it's just in my basic nursing left with your judgement and professional skills and experience, those weekend nights being alone, having to manage patients with very critical circumstances, as a new patient care provider and anesthesia at the And that, I to take a lot of backbone to come into patient care same time. It terrified me and I had five years of being naive, probably a mix of both because we all training I had rotations and semester long courses critical care, things that these kids, these young critical care nursing experience. So they have a people, coming into the program won't necessarily years of experience to manage that patient until in pediatric care, mental health, public health, lot of guts. Either they have a lot of guts or program in anesthesia with all those years of with backup, but backup at a distance. feel, prepared me to begin my study of So there is a difference. anesthesiology. help arrived. have that. have. Ñ m S. vo. ω Ø 10 1 2 12 18 11 18 67 14 21 22 2

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busy with their one-to-one patients and you were

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There is also a difference in how CRNAs and	н	get reimbursed for my services and have safe, cost-
anesthesiologist assistants are reimbursed. Now we	2	effective patient care provided.
heard several times that there is no difference in	m	Another clinical situation in which I work
how insurance sees non-physician anesthetists, but	d.	is a surgery center in a small city and they came to
that is not entirely accurate. It's only accurate	ın	my partner and I because they had a physician
if you look at a very narrow segment, which is the	9	anesthetist that they had to pay a fairly high
care team model.	-	salary because a large fraction of their patients
So they have a four to one ratio and that's	60	are CMS patients, so, Medicare, Medicaid, they were
all fine and good. They can get reimbursed as	o	not charging enough. They were not getting
medically directed anesthetists. If they go to a	10	reimbursed enough to pay the physician anesthetist's
five to one, then suddenly all bets are off. If you	11	salary. They could only recomm two-thirds of the
have CRNAs in that practice, those CNPAs now become		
supervised.	2	ממדמר .
There is a difference between supervision	13	So they turned to us as known in the
and madical direction in the even of CMS and CMS	14	community and said can you guys help us out. And we
	15	are now providing their anesthetic care. They are
	16	at less than their reimbursement cost from their
defer in many instances, regulation and payment	17	insurance billing. So not only do they get safe
	18	cost-effective anesthesia care, but they get to keep
So the difference is that a CRNA can bill	0.	a little bit of money on ton of that. So there are
and perform anesthesia without the medical direction		man: 00 mere
of a physician anesthetist whereas the CAA cannot.	20	differences.
That is why I can be the sole anesthesia provider in	21	And I want to note that the anesthesia
Patrick County, Virginia day in and day out, year	22	safety today is absolutely phenomenal, and as nurse
after year. There is not a physician anesthetist	23	anesthetists we owe a lot of that advancement in
within 30 miles of me. And our hospital is able to	24	anesthesia safety to colleagues that have preceded
	25	us, physician anesthetists, nurse anesthetists, all

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5.5		99
of the anesthesia program at Old Dominion	н	long history of providing anesthesia care to our
University. I just recently retired at the Air	ev.	warriors since the civil war.
Force from the United States Air Force Reserves	m	We have practiced in our branches of the
after 26 years of service.	4	U.S. military, and interestingly, none of the U.S.
While in the Air Force I provided	(C)	branches require CRNAs to be supervised by an MD or
anesthesia care independently at both stateside	6	an anesthesiologist. Nurse anesthetists, as I have
medical treatment facilities and also locations such	7	mentioned, have been the main anesthesia providers
as the last deployment to Afghanistan.	ω	to U.S. military personnel on the front lines since
During my deployment, I was both the	0	the civil war.
anesthesia leave with oversight of three	10	Additionally, CRNAs are the prominent
anesthesiologists and three CRNAs in our largest	11	anesthesia providers in the Veterans Affairs Health
in-country trauma center. And we also cared for	12	care system facilities. Anesthesiologist assistants
locals as well as our warriors.	13	are not authorized to work at anesthesia providers
Many times I was the sole anesthesia	14	in the armed forces. Unlike the CRNAs, AAs must be
provider at an operating base with no other	1.5	required by an anesthesiologist only whereas
anesthesia support for hundreds of miles. Why was I	16	anesthesia providers in the armed forces CRNAs and
entitled to practice independently? Because every	17	anesthesiologists alike must be and are trained to
objective and critical study has proven to the	18	be independent providers and ready to individually
United States Military that CNRAs provide the same	13	deploy to the front lines at a moments notice.
level of quality care as that provided by our MD	20	Our operations demand the ability to
anesthesiology colleagues.	21	practice independently in order to save the lives of
Therefore, I'm here today to provide you	22	our warriors and the locals that are injured in any
with the prospective on behalf of the certified	23	type of contact.
registered nurse anesthetists who practice in the	24	In Virginia, CRNAs independently provide
military hospitals here in Virginia. CRNAs have a	25	anesthesia care in all four of our military

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	The state of the s
	nospicais, navai medicai center, Fortsmouth, Fort
N	Eustis; Langley Air Force Base and Fort Belvoir.
m	During the past seven years of working with the
4	joint services defense health headquarters, there
10	has not been a single occassion in which the use of
	AAs have been pushed forward for consideration.
	It is likely that even if anesthesiologist
	assistants are licensed in Virginia, they will not
	be utilized in our military hospitals; therefore, it
10	will not increase the access to care to the members
	of our military, our veterans or their families.
	So I ask you to consider whether it is
	feasibly or fiscally responsible or is it in the
	best interest of anyone that for every two to four
12	AAs hired, you will need to hire at least one
	anesthesiologist assistant to supervise. This will
	lead to increases in cost to the patient, the
	facility and the Commonwealth.
	The question that was asked earlier about
	the care in the smaller hospitals. Many of our
21	military facilities do not have anesthesiologists
	present. If we increase the model to include
23	anesthesiologist assistants, we will have to hire
	probably 75 to 84 is the number that we looked at,
25	anesthesiologists to cover the shifts in those

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Recently the Department of Veterans Affairs So, as a final point, I would like to say However, the CRNAs were not included in But as a standard of care, I am now a this expanded practice role. The reason for this as combat deployments, one of which I was -- and I have father-in-law was a WW II fighter piolet. My father practice registered nursing regardless of the state there is no anesthesia provider shortage in the VA was the first sergeant to Col. Powell. My husband was the architect and leader of the airwar during colleagues of ours have claimed and stated that to say not many marines can say they took their Desert Storm. My son is a marine and had four granted full practice of authority to advanced because of safety concerns but because the MD safety, or as many studies have shown, is not requirements that limits such full practice system. So full practice authority was not that I come from a family of warriors. My necessary for CRNAs in the VA system. mother to war with them. increase in cost. authority. N 10 17 o 10 Ħ 7 2 14 12 18 16 13 20 21 22 23 24

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facilities. So, therefore, that would be a huge

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               I'm a tenure full professor and I chair the
                                                                                                                                                                                                                                                                                                                                                                                                                                        My name is Dr.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Our program started back in 1969, at what
                                   And what I expect at the head of my bed is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Buffalo, New York and a Bills fan. But I've been in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Commonwealth University. I am here to represent the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         time to the citizens of the Commonwealth, across the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                AA programs. I could have brought my 160 students
                                                                                                                                                                      medical emergency, and to know who to call if they
                                                                                                                                                                                                               need the assistance. So those are my expectations
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          applaud the students for being here today from the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                into the room, but they are providing care at this
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  was then the Medical College of Virginia. We have
                                                                                 somebody to be able to practice independently, to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Commonwealth from Big Stone Gap to Portsmouth to
                                                                                                                           know how to act spontaneously in the event of a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Mike Fallacaro. Like Dr. Frank, I'm a native of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             university of my 160 graduate students, and I
                                                                                                                                                                                                                                                            of care for myself and the veterans and their
                                                                                                                                                                                                                                                                                                                                                                                                                                     DR. FALLACARO: Thank you.
                                                                                                                                                                                                                                                                                                                                                                                          MR. WELLS: Dr. Fallacaro.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         Department of Nurse Anesthesia at Virginia
                                                                                                                                                                                                                                                                                                                                                Thank you for your time.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    Virginia for 19 years.
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                                                                                                                                                                                                                                                                                                       families.
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the last 12 years we have been recognized by US News

and World Report as being the best nurse anesthesia

program in the nation.

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Doctor Of Nurse Anesthesia Practice degree. And for

first program in the United States to create the

United States to create the Master's of Science and

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acknowledged program. The first program in the

been training students ever since. We are

And a few years ago we were the

Nurse Anesthesia.

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And I take pride in that because it is the In terms of the training itself, I said we And in 2009, we were approached by the Virginia Higher Education Center, saying there was a trust translates down to the care of the citizens of approached by the CEO, the director of the Southwest It is the quality are across the Commonwealth and that's because while institution and the Commonwealth, itself, that has significant need in and amongst the coal fields of all contributed to that success, which I hope and our base is here in Richmond, in 2004 we were Roanoke Higher Education Center with the same of our facility. It is the support from the Appalachia for quality anesthesia care. quality of our graduate students. the Commonwealth are getting. 7 12 m 14 12 91 18 5 20 21 17

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                            And it's this resource, this issue that I
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          I can tell you that at the VCU Health
                                                                                                                                                                                                                                                                                                                                            These are clinical partners of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          great deal of overlap in the type of procedures they
                                   concerns. And since that time we had graduated over
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       anesthesiologist residents need, nurse anesthetists
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  and graduate students need and AAs need, there is a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Center, 1,000 bed hospital, right now we have nurse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       want to talk about. I have concerns when I hear my
                                                                                                                                                                                                                                                                                                 Gap, Wytheville, Portsmouth, Alexandria -- I could
                                                                                                                                                                                                                                                       across the state; again, Big Stone Gap, Pennington
                                                                          130 students in this region of the United States.
                                                                                                                                                               region and 70 percent at the same institution in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            saying they have an interest, a real interest in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  colleagues from the anesthesia assistant program
                                                                                                                                                                                                            which they trained. We have 44 clinical sights
                                                                                                                    And 80 percent have kept employment within the
                                                                                                                                                                                                                                                                                                                                                                                       have found great benefits in the resources our
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     need in order to meet their certification and
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       opening programs here in the Commonwealth of
                                                                                                                                                                                                                                                                                                                                                                                                                                 department has been able to provide.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                anesthetists training, and we have
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             licensing requirements.
                                                                                                                                                                                                                                                                                                                                            go on and on and on.
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And we are also interested in terms of our So, not only does the AA take the job away In terms of applicants, I turned away over from a CRNA graduate, but they also cannot educate a about is if you hire an AA into an institution which educators, themselves. And something that I thought cannot supervise a graduate nurse anesthesia student So, again, our training would suffer. It would hurt depending on the number of rooms these folks are in. is also training other providers, well, then the AA accept more, and it's because of that finite number 110 qualified applicants this year. I accepted 43 graduate students. Now you might ask why didn't I student. So we not only lose a job placement, but we also lose a training opportunity or more our training in terms of where we stand. finite resources are an issue. during their training. 16 13 10 = 12 0 14 17 18 20 53 5 21

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anesthesiologist resident training. And we have no

any other trainees. We just do not have the space

room for any other trainees. We have no room for

to add them. Because, again, we are competing for

the same limited number of cases, especially

specialized cases in terms of pediatrics, regional

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anesthesia, cardiac anesthesia and the like.

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make no distinction.
heard from the physician colleagues here that they
being distinguishable from other professions, we
So as far as the scope of practice
Commonwealth University.
the training that we are doing at Virginia
criteria in terms of training that it will damage
And, again, I'm concerned about your
learned.
graduates will stay within those places were they
the data to show that the vast majority of our
willing to work to meet the needs. And we also have
demonstrated excellence. And we are ready and
to create a new program. We have one that has
spigot in terms of training sites. You don't have
people. If you would like more providers, open the
have a proven track record of producing high quality
student there. We have a well-oiled machine. We
only allows us to train one student there, one
our graduate students up there. But the institution
that we do have training at Fairfax. We do train
Fairfax people have 40 openings. I can tell you
We heard from our colleagues that
of training slots.

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To kind of summarize things up at where we And, again, the focus is entirely on are now, I had the pleasure a few weeks ago standing that building is an expansion that was granted to us Commonwealth is again, a model being used around the nation. The program is 93 credit hours, three years ground to open an 82 million dollar new VCU School It is going to have a world-class simulation laboratory in centering patient safety. A doctor of nurse anesthesia practice program that of Allied Health Professions. The third floor of with Governor McAuliffe putting the shovel in the rates of the national board for certification and recertification in the United States, which also program. Our program meets the prefered passing was created at VCU and was approved here at the patient safety. So, again, it is a knowledge from the Commonwealth to expand our program. minimum in duration. ω 13 91 on 12 20 10 11 2 11 18 5 22 14 21

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terms of techniques or things that they are able to do and function that are different from what we are

already doing.

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demonstrable difference in terms of quality, in

replacing a provider with another, replacing a

provider because they are not bringing any

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So, again, the Commonwealth is making an investment into our program and we are very grateful. The other thing is not only is the Commonwealth making an investment in Virginia Commonwealth making an investment in Virginia Commonwealth University, but also old bominion University, the other training program here in Virginia. And, finally, the Southwest Virginia Higher Education Center, again, we're citizens of the Commonwealth taking some of their tax dollars and making investments in these regions. And, again, in many of these regions, as Dr. DeForest attested to, our providers are the only anesthesia providers out there in these areas. And in terms of guality, while there has been argument for years and years and years, there is no demonstrative difference in terms of outcome, whether your anesthetic was delivered by a nurse anesthetists or anesthesiologist, it's just not there. And I challenge anyone to bring data forward to say it is there without it being refuted. My colleagues talk about wanting	So, again, the Commonwealth is making an investment into our program and we are very grateful. The other thing is not only is the Commonwealth making an investment in Virginia Commonwealth making an investment in Virginia And, finally, but also Old Dominion University, the other training program here in Virginia. And, finally, the Southwest Virginia Higher Education Center, again, we're citizens of the Commonwealth taking some of their tax dollars and making investments in these regions. And, again, in many of these regions, as Dr. Deforest attested to, our providers are the only anesthesia providers out there in these areas. And in terms of quality, while there has been argument for years and years, there is no demonstrative difference in terms of outcome, whether your anesthetic was delivered by a nurse anesthetists or anesthesiologist, it's just not there. It's just not there. And I challenge anyone to bring data forward to say it is there without it being refuted. My colleagues talk about wanting		contributes to our national ranking.
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n ons,	ons,		And, finally, the Southwest Virginia Higher
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And, again, in many of these regions, attested to, our providers are the only coviders out there in these areas. And puality, while there has been argument lyears and years, there is no difference in terms of outcome, anesthetic was delivered by a nurse or anesthesiologist, it's just not just not there. And I challenge anyone i forward to say it is there without it is. My colleagues talk about wanting	And, again, in many of these regions, attested to, our providers are the only coviders out there in these areas. And quality, while there has been argument lyears and years, there is no difference in terms of outcome, anesthetic was delivered by a nurse or anesthesiologist, it's just not just not there. And I challenge anyone iforward to say it is there without it is. My colleagues talk about wanting		some of their tax dollars and making investments in
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12			it is there without
My colleagues talk about wanting	My colleagues talk about wanting		being refuted.
			My colleagues talk about wanting

So to conclude in terms of feasibility -- I So when they speak of competition being Now, is it wise to do anything. In my thinking about feasibility. It's probably feasible mind, I based feasibility upon need, upon need. So fishing. I actually caught a marlin so I was very ultimately control their salary and eliminate your good, it works both ways. So I ask the Board to control their education, control their practice, another anesthesia provider that is a dependent is there a shortage of anesthesia providers? I provider, that has to work under you, you can consider that in terms of how competition can thought about this, I just came back. I was excited yesterday. And I got back and I was own competition. to do anything. increase. Φ on 10 = 13 8 14 13 50 2 91 2 17 21 22

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American Society of Anesthesiologists here. Here is

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competition and there are representatives from the

how I see this competition going. Well, they want

competition between nurse anesthetists and

And, so, if you can take and license

anesthesia assistants. They don't want competition

us us

between nurse anesthetists and anesthesiologists.

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     Anesthesia, despite what people will say,
                                                                                                                                                                                                                                                                                                                                                                              So if need's not the issue, well, maybe
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              anesthetists are going to be the losers in this type
                                                                                   shortage we have a mechanism, well proven mechanism
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Control over the speciality will increase and there
                                                                                                                                                                                                                               training spots, bang, I'll put you 20 in there. We
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   of knowledge onto itself. And it is only those who
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  are properly trained in credential within that body
                                                                                                                                                                                   If Fairfax opens more
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        And
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  not the practice of nursing. Anesthesia is a body
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             of competition, if you want to call it that. And,
                                                                                                                                                                                                                                                                                                                                                                                                                            it's quality. Well, we have no difference. Well,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    anesthesia is not the practice of medicine. It's
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    if in these small hospitals we have to hire an AA
                                                                                                                                                                                                                                                                                have the mechanism to do it and the proven track
                                                                                                                                                                                                                                                                                                                                                                                                                                                                           maybe it's cost. The only thing that's going to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          will be winners and losers. Probably the nurse
                                                                                                                                  in place, to address that today, today. I can
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        anesthesia training program that is in place.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             So the cost will increase.
                                       would argue there is not. And if there is a
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          increase in cost is if you damage the nurse
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      instead of a CRNA, well, now you need an
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         so, I would argue against that.
                                                                                                                                                                                   accept more students today.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    anesthesiologist.
                                                                                                                                                                                                                                                                                                                               record to do it.
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Our physician colleagues have had that same DR. APATOR: I'm not as articulate as Dr. Good morning. Thank you for having me. So instead of saying anesthesia is the My nurse anesthetist students comes as their way all the way up. And they are required to practice of this or this, it is within the scope of of knowledge, that it can be part of their scope of people were not looking at the right things because approach. They start as residents. They do basic there is a human factor there which, I think, does well, we don't see any difference between outcomes Thank you for giving me the opportunity to speak. care all the way up. Now, again, people can say hands, wipe the brow, given the bed bath, worked make all the difference. And I'm available for nurses, registered nurses. They have held the between nurse anesthesia and anesthesiologist, MR. WELLS: Dr. Apator. So I apologize in advance. practice should you so deem it to be. Thank you so much. then do critical care nursing. Fallacaro. questions, practice. r in φ O 10 2 2 17 2 91 17 18 23 25 Ħ 5 20 21 22

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69 So I'm not here to talk about the shortage I have been providing anesthesia in the So I'm not That's not who I am. Although don't look at I was the president of the National Board National Certification Board for Midwifery. I know of anesthesia providers in the Commonwealth because and I was working in Virginia. I'm a retired army Anesthetists. I'm on the certification board, the In addition, I provide independent anesthesia care I believe that is largely fake news. I would like my Facebook page after a full day at the hospital. I do work at the Portsmouth Naval Medical Center. Commonwealth since I got out of anesthesia school anesthesiologists. I don't hate AAs. I'm not a anesthetist and the director of the Old Dominion My best friend is an anesthesiologist lieutenant colonel. I have been decorated for there. And, again, the program for the nurse My name is Dr. Nathaniel Apator. I'm a nurse assistant when he became a nurse anesthetist. So I don't hate physician of Certification of Research Patient Nurse a lot about anesthesiologist assistants. anesthetist at Old Dominion University. Nurse Anesthesia Program hater. 9 19 Ħ 12 2 77 15 17 18 5 20 2 22 22 25

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I would like to reemphasize what Dr. into the profession. And, ultimately it lead him to There is very little safety data on eight students was not because we didn't have enough applicants because I have plenty of applicants. The students who have no medical training at all, zero. What he meant because he was in agriculture as an undergraduate. scientist, I have a PhD in neuro science and I'm by that was that there are a certain number of AA friend tells me how when he went to AA school, he We took And the reason we took didn't know how much he didn't know until he got reason we took eight students is because we have training. He said that the knowledge deficit --There is one study to point out to begin with that anesthesiologist become a nurse anesthetist because he wanted to assistants are not some group -- I'm sorry. My And there were certain ones that had previous that's out there and I read it. I'm a nurse He said the knowledge deficit was dramatic. Fallacaro said about the training sites. referred to the have and have-nots. pretty good at disecting research. anesthesiologist assistants. eight students last year. practice independently. 13 14 16 19 10 10 12 17 18 27 23 24 H 15 20 22

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You know, it's interesting, I would like to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      I heard another reference to a four to one
                                                  In the last year we have done a very good
                                                                                                                                                                                                                                                                                                                                                                                                                                                                  And it may be feasible to start an AA
                                                                                                  job of increasing that. A lot of our students have
                                                                                                                                                                                                          students as far as Columbus for pediatrics rotation
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                heard one of the previous speakers refer to the LaD
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                sometimes. What that means is you are left largely
                                                                                                                                                                                                                                                                                                             We have to compete
                                                                                                                                                                                                                                                                                                                                                                with providers from all over the US. And there is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           say you're autonomous or you're not autonomous. I
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        autonomous practice. I think that you can either
                                                                                                                                                                                                                                                                                                                                                                                                                  just a limited number of clinical training sites.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     ratio. What does that really mean, a four to one
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             We provide the nurse anesthetists for
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                Portsmouth to Chesapeake and Suffolk and Virginia
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                all of Hampton Roads, almost every hospital from
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           liability to put nurse anesthetists out into the
                                                                                                                                                        to leave the state in order to get -- we send
                                                                                                                                                                                                                                                          because it's limited resources with regard to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     program. But I think it would really damage
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        address briefly criteria three regarding the
trouble finding clinical training sites.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   by yourself in an emergency situation.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   Beach are staffed by my students.
                                                                                                                                                                                                                                                                                                                educating anesthesia students.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             community.
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So, you can talk about independence, but if I've spoken to a lot of educators around So how would that work if there were two critical care training, who is doctorately prepared? It means that the physician anesthesiologist there is a four to one ratio, it means that even the physician anesthesiologist can only be at one place So do you want the agricultural major problems in two different places? Who do you want your granny because patient care trumps everything certain series of steps in an emergency or do you It's who do you want taking care of the country in my various roles. And there are a providing care? Do you want the person who is an taken care of by them? I mean, that's really the independence, and would you want your grandmother agricultural major, who was trained to perform a lot of AA practitioners in the Commonwealth that Which of those two providers would provide more were in various places. Does that make anyone want a nurse anesthetist who has had years of or do you want the critical care nurse with a is responsible for four anesthesia locations. in my humble opinion. doctorate degree? bottom line. at one time. ratio? N 10 00 O 9 7 2 13 7 12 17 18 23 91 2 20 21

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Finally I would like to close by sayi	200		
care for citizens of the Commonwealth.	24	of how nurse anesthetists are differently educated	25 01
physicians specialities, that increases access to	23	So they don't really get into the details	24
independent practitioners that can work with other	22	care team and everyone else is below.	23 0
And because nurse anesthetists are	21	it's the physicians are at the top of the anesthesia	22 i
anesthesiologists.	20	anesthesiologist colleagues has the following	21 ai
trained to be dependent on a physician	on H	between AAs and nurse anesthetists because the	20 be
people, I have nothing against them, they are	80	because they don't deeply know the difference	19 b
anesthesiologist assistants, who are very ine	17	treat nurse anesthetists and AAs. Well, that's	18 tı
CITCICAL CHINALS. III CIG COLOR CASS, CIG	0 1	claim that there is no difference in the way they	17 c
דוו כוום כמספל וותוסם מושפרום ודם פתתכמובת רכ ספ	1	Our physician anesthesiologist colleagues	9
distribution of the distri	u T	school.	15 8
and the second of the second o	1.4	couldn't work in the Commonwealth before going to AA	14 C
is a problem and then leaves the room.	m	fact, they may not have been told up front that they	13 £
this, this, this and this, and let me know if there	12	members of the Commonwealth of Virginia but, in	12 me
room and the physician anesthesiologist says do	17	this audience are arguing for AAs because they are	11 ti
AAs are trained, where they get to the operating	10	So I would argue that some of the people in	10
This is dramatically different to how	σı	can't practice.	o o
they present their plan.	ω	they find out when they come back home that they	8
anatomy, pharmacology, path of physiology, and then	7	to anesthesiologist assistant programs. And then	7 to
with a plan based on the patient's physiology,	(0	practice all around the country. So many people go	9
and they study about that patient and they come up	in	acknowledge or downplay the fact that AAs can't	5 8
night before they care for patients, they go home	4	him, a lot of the AA training programs don't	4 h
students have to provide care plans, which means the	m	hypothesis. In talking to my friend and others like	3 h
educated to make decisions. All nurse anesthetists	N	Well, I'll give you one alternative	0
and AAs are trained. There is a difference. We are	н	question why that is?	5
		73	

This is dramatically different to how the

It's a different way of educating people.

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Finally I would like to close by saying I

13 Thank you for your time and I'm open to any MS. SATTERLUND: Good morning. Thank you But as you look at AAs in Virginia and as services. I'm a licensed credential provider who is difference in the mentality of the two professions. apologize I think I may have signed up on the wrong I thank you all for giving us this VANA's president, Dr. Peter DePorest mentioned. We for your time. I'm Michelle Satterlund. I'm with Virginia Association of Nurse Anesthetists. And I don't see myself as a physician extender. I don't are not opposed to AAs. We understand that in the world of health care there are many roles that are see myself as a care extender. I see myself as a opportunity to speak. I want to highlight what sheet. I'll provide the summary to VANA and I care giver. And I think that's a fundamental I'm a care giver. I'm not extending anyone's McGuire Woods Consulting and I represent the MR. WELLS: Ms. Satterlund. well educated in the art and science of Thank you very much. apologize for that. anesthesiology. questions. served. 3 14 13 1.6 17 18 20 1 21

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If Virginia has access to care programs --And I know in the report that you provided in Virginia. We have a pipeline of ready people and written comments on it before the July deadline with some of our own data that we find that Virginia does Dr. Apato, we have CRNAs who would love to practice process of an entirely new group that will require you look at the services that are already provided not have a shortage of anesthesia providers. And in Virginia. As you heard from Dr. Fallacaro and concerns with the data. I'll just be very candid you go through your criteria, it is critical that some workplace data information and we have some about that. And we are going to be submitting report that you provide in your draft document, deviate from that pathway to start a licensure you have to ask does it make economic sense to provider in any way impact that access to care problems specific to anesthesia care, how will that is backed up by the Herser (phonetically) providing another provider with an additional as well as the Veteran Administration and the the immediate and direct supervision of anesthesiologists. issue. vo. 2 17 00 10 2 14 20 Ħ 2 18 6 21 18 22 CA A

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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               Now because CRNAs practice in a surgical
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    I know that there are misconceptions in
                                       National Association of Anesthesiologists, that when
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        The law in Virginia says that a CRNA practices under
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          the supervision of a MD, dentist or podiatrist, does
                                                                                                                                                                                                                                                                                                                                                                                                                                                            Virginia as CRNA students, allowing them to do that,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               that particular facility often,
                                                                                                                                                                                                                                                                         a shortage, can we address that shortage by what I
                                                                                                                                                                                                                                                                                                                      would say by taking care of the low-hanging fruit,
                                                                                                                                                                                                                                                                                                                                                                  opening the hospital clinical trainings, allowing
                                                                                                                                                                                                                                                                                                                                                                                                               those other students who want to be practicing in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         team model, there is always going to be a surgeon
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           looking at the scope of practice issues that are
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              practice with a CRNA. That is simply inaccurate.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                require that that supervision that that MD be on
                                                                                                                                 determined that there was no anesthesia provider
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      not require an anesthesiologist and it does not
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        There always is a physician. But that
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 many hospitals that anesthesiologists has to
                                                                                      they were looking at the issue of shortages,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     individual may have no anesthesia training.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          impeding CRNA practice.
                                                                                                                                                                             shortage nationally.
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We stand here ready to serve as a resource.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            I thank you and if you have any questions,
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              MR. WELLS: That's the end of the printed
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         has not spoken or anyone who would like to return to
                                                                                                                                                                                                                                                   impact whatsoever on the access of care in the rural
                                                                                                                                                                                                                                                                                                                                                                                                                  But I urge you to look comprehensively at this issue
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             MR. BALL: Mr. Chair, we have a few
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   list. Is there anyone who would like to speak that
                                                                                                                                                                                                                                                                                                                                                                        I know you have a big job in finalizing the report.
                                          inaccurate, to say that CRNAs and AAs are equal in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  feasible. Just about anything is feasible. But
                                                                                                                                                                                                         license these individuals that it will have any
                                                                                                                                                                 Virginia. And I don't see that if you plan to
                                                                                                                                                                                                                                                                                                                                                                                                                                                          and not just at the very small criteria, is it
                                                                                                                       substantial number of the rural facilities in
                                                                                 CRNAs practice independently in a
So to say it's equal, I think, is
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        what will be the impact of licensing a third
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    I'll be happy to answer them.
                                                                                                                                                                                                                                                                                         and small facilities.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     concluding remarks.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   the microphone?
  the CRNA.
                                                                                    training.
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knowledge, the anesthesia knowledge and training of

particularly in the rural areas, relies on the

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                                                                              MR. BALL: Brian Ball with Williams Mullen
                                                                                                                                                                                                            First of all, I mentioned earlier that we
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          The other thing -- two other things I
                                      Identify yourself please.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    reasons why we shouldn't have CAAs in Virginia. But
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            I want to go back to the practice location list that
                                                                                                                                                                                                                                                                                                                                                                                     wouldn't be sited and that no one is looking to take
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              Indiana University, St. Louis University, University
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              I gave you a few minutes ago. And I just wanted to
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   University of Colorado, University of Florida,
                                                                                                                                                                                                                                                                                                                                                                                                                               a dollar from those schools' funding streams, which
                                                                                                                                                                                                                                                                                                                                                                                                                                                                            It's unfortunate
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                don't oppose AAs, but -- and then we heard a lot of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     that it's being cast as a competitive thing because
                                                                                                                                                                                                                                                                                                                                          gentleman from VCU and Old Dominion, those schools
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      of Cleveland, University of Vermont -- I mentioned
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            affiliated with a teaching school -- University of
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    take off the university teaching centers that use
                                                                                                                           And
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   wanted to mention briefly. A comment was made we
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 Washington Hospital Center and I think that is
                                                                                                                                                                                                                                                                                                  the goal of the CAAs. I want to reassure the
                                                                                                                                                                                                                                                  would like to have a CAA school in Virginia.
                                                                                                                       and Katie Payne, also with Williams Mullen.
                                                                                                                                                                 there may be others who wish to comment.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                we really don't look at it that way.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                          I know is very important to them.
                                   MR. WELLS:
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And, secondly, the VA most recently after a The last thing is I think there was an concluded that there should be supervision. So that asked you to look into this. And it was focused on far as the anesthesia care team, long, established, question twice over the last few years and said no, is not really the charge here. We saw the letters appeal made for you-all to consider whether CRNAs respect, the General Assembly has considered that the CRNAs should work under the supervision of a prepared by members of the General Assembly who They see no difference in using CAAs or lot of consideration of opening a new practice CAAs and whether they should be able to pursue should practice independently. With all physician, podiatrist, a dentist. safe. CRIMAS. Ø) 9 Ħ 13 20 14 2 19 17 8 21 22 S

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So all of the things that you heard about,

Wisconsin.

difference when they are running operating rooms as

physician speakers today, they see no functional

and as you heard from three, if not four of our

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those institutions have managed to accommodate AAs,

physician anesthesiologist, which is true, all of

this doesn't work and they have to work under a

	40		
н	licensure and work here in Virginia.	-1	there is really no difference there. There is a
N	Thank you.	CV	difference in which provider it is. But there is no
m	MS. PAYNE: And just to follow-up, Katle	m	difference in the fact that they both have to be
47	Payme again. Just to follow-up with a few of the	4	supervised.
in	other items mentioned. Mr. DeForest said at the	ın	There were some references made as to
10	beginning that a CAA would not qualify to get into a	NO.	loss of spots at schools or for positions. As we
-	CRNA program, neither would a medical student. And	7	testified earlier, I don't think that's the case.
ω	conversely a CRNA would not qualify with their	60	There may be one thing we need to add on that point,
σ	prerequisites and their background to get into a CAA	Ø	but, again, we are not trying to take away spots
10	program or into a med school. There's two different	10	from the CRNA programs. There are jobs available to
11	tracks. So it's correct. It's a factual statement,	11	them. This is a separate class of providers.
12	but it flips both ways.	12	Dr. Engels, do you want to come up and
13	There is a lot of discussion about the	13	speak to that issue?
14	small rural hospitals and the CRNAs being able to	14	DR. ENGELS: Yes.
121	work independently. As Brian just said there are	15	I don't want you to think that we were
16	two cites in the state code that say CRNAs must be	16	paying attention to the comments. But during this
17	directly supervised by a physician, podiatrist or a	11	talk we got on our phones and went to the website,
18	dentist. That is a different model than the CAAs.	18	gaswork.com, which is a website for a listing of
5	They are correct about that, But they cannot	10	anesthesia jobs.
20	practice independently. They must be directly	20	And as of this meeting, there are 167
21	supervised.	21	positions advertised in Virginia. Some of those
22	So, I think it's misleading to say cost is	22	include part-time positions. There are 78 full-time
23	going to go up because a CAA has to be supervised by	23	positions for CRNAs advertised at the time of this
24	a physician anesthesiologist. It's already the case	24	meeting on gaswork.com. As I mentioned, our
25	that a CRNA has to be supervised by a physician. So	25	practice alone has 40 open positions right now.

And as of this meeting, there are 167 CRNA I don't want you to think that we weren't Dr. Engels, do you want to come up and lude part-time positions. There are 78 full-time m the CRNA programs. There are jobs available to re may be one thing we need to add on that point, ing attention to the comments. But during this k we got on our phones and went to the website, itions for CRNAs advertised at the time of this tified earlier, I don't think that's the case. s of spots at schools or for positions. As we itions advertised in Virginia. Some of those , again, we are not trying to take away spots work.com, which is a website for a listing of ctice alone has 40 open positions right now. m. This is a separate class of providers. ting on gaswork.com. As I mentioned, our DR. ENGELS: Yes. ak to that issue? sthesia jobs.

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There were some references made as to the

NO WITH CO. Theory over many
TALL MELLES: THAILY YOU VELY HUCK!
MR. DAVIS: Thank you very much. My name
is Thomas Davis. I'm the vice chair for Clinical
Affairs with the Virginia Commonwealth University.
I would like to address a couple of the
points today that were made here especially no
competition between an AA program and our existing
nurse anesthesia programs.
By their own information AA programs need
to be ankled to an academic medical center. The
academic medical centers within the Commonwealth of
Virginia are associated with the programs so we
have students at UVA. Obviously, we are based at
Virginia Commonwealth University. We also have
students that were at Memorial Hospital and several
facilities around the region.
So the main concern we have, as Dr.
Fallacaro spoke, is clinical education. That's the
number one limiting factor of the number of nurse
anesthesia students we can accept. As he said, we
are turning away as many as 100, if not more of
qualified applicants.
As a matter of fact, this last group of
students in the Northern Virginia area we
actually have a satellite classroom in Alexandria.

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So when you replace a CRNA provider with an So I would be happy to talk to anyone who And AA that cannot supervise a nurse anesthesia student, that's one less available room for us to put a nurse hence, the potential outcome of no net game in the students as well as anesthesiologist residents and clinical replacements. And as I find additional resources and that actually stands to reduce the clinical replacements, we accept more students. number of providers generated in Virginia every has a need at their facility. As Dr. Fallacaro program, you're starting to compete for finite accepting more students equals more graduates. anesthesia student. When you introduce an AA available resources for both nurse anesthesia 10 = 14 91 17 3 10 13 20 27 22 3 18

I am constantly searching for additional

accept students from -- they only accept one from

VCD.

first-year student from our program. They also

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placements. And that was Dr. Fallacaro's point with Fairfax Hospital. Fairfax Hospital only accepts one

In the Northern Virginia area we had over 30 applicants for only six positions. So we are

limited primarily by our first-year student

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85 So the physician anesthesiologists are in a As a matter of fact, Dr. DeForest works at I would also like to talk about just one with an AA automatically brings the requirement of a anesthesiologists to these small rural areas, but it surgeon actually covers that and we have many, many, one, where there are only CRNAs practicing. So the employment -- so it's a proven record. As a matter stated, over 70 percent of our students would take being able to pick and choose exactly who you want due to the quality that they seek throughout their of fact, even one of the other gentlemen spoke to other point about CRNAs practicing independently. institution care team model has little impact on critical access hospitals, small rural hospitals cost. The replacement of an AA in one of these availability. And that would not only cause a similar situation -- CRNAs as far as their replacement of a CRNA with an AA within the physician anesthesiologist to the facility. While we do require physician supervision, difficulty with being able to attract many rural sites across Virginia. would also increase the cost. education program. 10 = 5 3 77 10 9 17 18

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MS. SUTTERLUND: Thank you again for your Just to clarify the General Assembly has As you heard from practicing CRNAs, they When that discussion came about in 2012, Mr. Ball not looked at the issue as supervision for CRNAs in you start looking, you'll see carve out after carve CRNAs are licensed as nurse practitioners. And if out for all the categories of nurse practitioners, many years. Brian Ball indicated that had been a which include nurse midwives, CRNAs and then your the anesthesiologists with NSV and VANA looked at include CRNAs. However, the supervision is that. recent discussion. What gets confusing is that are often the only anesthesia providers in many that issue. And the decision was made not to nurse practitioners. Nurse practitioners do time. I just want to offer one response to and Ms. Payne's comments. Again, Michelle rural sites. Those are my concerns. practice collaterally in Virginia. Sutterlund on behalf of VANA. It's just a word on paper. 47 10 00 1.1 10 7 1.0 20 2 2 1.4 12 18 21 22 53 5

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So instead of having a single CRNA

assistant plus a physician anesthesiologist at these

m

provider, you would have a single anesthesia

	rural facilities. They are often the only	Т	like to speak? Are there any students that want to
	anesthesia providers when they are on the front	2	get the experience?
3 lines	lines in Afghanistan or in our military hospitals.	m	MR. LINDSEY: Good morning. My name is Ray
4 So, y	yes, there is the word supervision on paper.	4	Lindsey. I'm a nurse anesthetist since, I guess
5 But t	But that's all it is.	in	2000. And I just want to clarify a point. Someone
.9	So, I just wanted to clarify that. And,	(6)	mentioned GasWork as an example of need for
7 again	again, as we just pointed out, we are not concerned	7	anesthesia services in Virginia. And I don't think
8 about	about, you know, making sure that another provider	80	that is a reliable source. I work at a facility
9 who i	who is kept down. That's not what this is about.	Ø.	that advertises on gasworks, but it's filled they
10 It's	It's looking at the existing pipeline that we have	10	just want to keep on advertising. I just want to
11 in Vi	in Virginia. If there are issues to care, and I	11	clarify that point.
12 looke	looked at the original letter asking this committee	12	Thank you.
13 to st	to study it. I didn't hear that well, I'll	13	MS. BULLIGARD: Good morning. My name is
14 quote	quote, there is a national shortage of anesthesia	14	Trinal Bulligard (phonetically). I'm a student,
15 provi	providers including nurse anesthetists. That is	13	first-year and first-month student at Case Western
16 inacc	inaccurate. I don't recall them ever coming to VANA	16	in D.C. I am a resident of Arlington, Virginia.
17 and t	and talking to us about our numbers.	17	I've been living in Arlington for three years, and I
18	So I think it's important to clarify. I	18	lived in Alexandria previously.
19 think	think there is a general sense of shortage. But	19	As a resident of Virginia, I would like to
20 it's	it's simply the data does not indicate that is	20	be able to practice in the State of Virginia as a
21 accurate.	ate.	21	CAA upon my graduation in 2019. I did not choose
22	So thank you very much again for your time.	22	this program believing I would be able to practice
23 And I	And I appreciate all the work this Board is going to	23	in Virginia. I did my research and was fully aware
24 do.		24	of the states where I would be able to practice.
25	MR. WELLS: Is there anyone else that would	25	With that being said, I would like to practice in

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Virginia and cont Virginia. quick little pers run two to three that we could aff	live in the state of	-	Again, I heard descriptions that you
Virginia. quick little pers run two to three that we could aff			
quick little pers run two to three that we could aff		2	have four to one. You would have four
quick little pers run two to three that we could aff	u so much for your time.	m	anesthesiologist assistants and one physician
	DR. DEFOREST: I just wanted to give one	4	anesthetist, that still is a much greater expense
	erience. I can tell you we	in	than having four CRNAs.
	ere is absolutely no way	6	And also what happens after hours? D
	ecruit or retain a	7	the physician anesthetist carry all the calls
S physician anosthotist		80	because the anesthesiologist assistants cannot carry
		on.	the after hour calls, weekends, nights?
		10	So it is just not feasible in many pa
10 would be myself, and then	three per diem part-time	11	the state. So restricting the pipeline of CRNAs
11 people that help cover me	if I'm off or if I have a	12	that are trained to cover the rural needs of the
12 busy day and running two rooms,	rooms, then they will come	13	Commonwealth would be imprudent in my opinion.
13 in.		14	Sometimes it's difficult to find CRNA
14 My hosp	My hospital administrator has written a	15	are willing to come to the small facilities as well
15 letter to the Board expl	letter to the Board explaining that physically that	16	because a lot of the anesthesia care team practices
16 it would just be impossible	le to carry the burden of a	17	are so restrictive that if you've been in one of
17 high cost anesthesia provider,	ider, a relatively high	18	those for years when you been through school, if
18 cost anesthesia provider.		19	you've been through school, you basically lose a lot
19 And in my	ny past experience as director of	20	of capacity to comfortably work without the presence
20 anesthesia for a health system,	ystem, five of my seven	21	of a physician anesthetist.
21 facilities were CRNA only	practices. And it was,	22	So it would be beneficial to access the
22 again, impossible for us to be able to carry the	to be able to carry the	23	care for rural facilities and also to have the
23 expense of a physician an	expense of a physician anesthetist at those smaller	24	promotion for a full scope of practice for nurse
24 facilities, the largest of	of them having only four	25	anesthetists so that they can maintain their
25 ORs.			
		J	

Sometimes it's difficult to find CRNAs that

So it is just not feasible in many parts of

And also what happens after hours? Does

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Again, I heard descriptions that you could

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So it would be beneficial to access the

independence, practice skills and be able to better
meet the needs of rural facilities and those certain
areas.
Thank you.
DR. FALLACARO: Again, very shortly.
The issue I'm hearing is that there is a
work force shortage. And in the case of the
Northern Virginia area we have many, many qualified
applicants and we have affiliation agreements in
place with many of the facilities that were spoken
about where there is 40 people short or such. I can
have students, graduate students, in these
facilities tomorrow. Within weeks I can put them
there and they will graduate and then, again, we
have data to show that they will stay there.
So if the issue is we have 40 or such
shortage and we need more people, and we have room
to take trainees from another site instead of
another school, it is really the issue.
If it's a work force shortage issue, I
would be delighted to provide trainees there that
also provide service while they are there.
Immediately we have the mechanism in place and it's
a state funded, state supported mechanism.
and the through the transfer of the

92 I want to make it clear. It was said political association. I'm an educator. And I just medicine. With a diabetic, a cardiac patient, I had and everything. So that was one point that I wanted anesthesia. And after relearning what a stethoscope And, in my mind, it does require a I was a surgeon before and then switched to effects of those medications. And on top of that I had to know how those medications effected the care in the operating room under anesthesia. I also had physician to lead the team and taking care of those help VCU and we also want to help our partners and to know their medications. I had to know the side medical speciality. It's not just an area outside DR. FRANK: Dr. Frank once again. earlier that anesthesia is not a medical practice. to learn much more depth into physiology, anatomy to clarify. It is a medical profession. It is a delighted to put them there. It would certainly political office. I'm not the president of any was, I realized I had to go back and recollect look at it as they need people and we would be there. It's ready to go. I do not hold any of medicine where you treat people. we have a record of doing that. It is. 10 1 12 7 20 21

94 I believe in the care team model. I think And that's why I also say that they are So the anesthesia assistant programs those of patients. But one of the senior AAs that I that they can't do that. I'm just saying that if we start to push that process through, it's taking away from the care giving in other areas of medicine that other states, but that's because it's a process that because they have that level of experience and care. is requiring of nursing needs that need to be felt. beaten sometimes against, you know, in order to get it's the safest way to take care of the patients in therefore, there are advantages to having potential work with, any of the senior AAs I work with, could the operating room. I believe also in rural areas nursing school, do their ICU training and now they nurse anesthetists as well taking care of some of it's very hard to meet that care team model. And, are in anesthesia school. And that is not to say states they are saying they are not licensed in they have been fighting trying -- and have been actually help kind of fill those areas in that regard as well too. And in a lot of different also easily work independently in that regard a licensure in other states. m 4 m 10 ω = 6 16 1 o) 10 12 14 17 18 13 20 23 10 21 22

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But many of my military colleagues, who are
                                                                                                                                                                                                                                                                                                               I just have to clarify a point. While our
                                                                                                                                                                                                                                                                                                                                                              wounded overseas are young and healthy, they come in
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              that many of the patients that we took care of, both
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                          sometimes without a health history. And we find out
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                               providers, we would not be able to accomplish the 97
                                                                                                                                                                           concerned about is that I'm turning too many of them
                                                                                   I'm not too concerned about there not being
                                                                                                                                                                                                                                                                     MS. SETNOR: Colonel Setnor again.
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         They might be young and healthy, and that might be
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                                       school and they are filling our intensive care
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                                                                                                                               enough applicants for our programs. What I'm
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                                                                                                                                    CRNAs can do, the AAs can do just as much. So, I'm
                                                                                                                                                                                                                                                                                                                                                                                                                                                               then you better call the police today and arrest me
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                                         equivalent in practice, scope and everything that
                                                                                                                                                                                                                                                                                                                           more with our last speaker in terms of anesthesia
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                                                                                     That they can do just anything the
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         what types of services they need. So, again, I
                                                                                                                                                                                not sure if there is anything more I can add to
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       practicing nursing illegally or is it all the
                                                                                                                                                                                                                              that. But I'm open to questions.
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                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              because I'm practicing it.
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so just to clarify, the folks tha are in some cases close to mortally independently. But the are in some cases close to mortally independently and bring them home. Thank you. MS. KELLY: Good morning. I'm Ma Kelly. I'm the administrator for Virginia Anesthesia. We are a mid-size anesthesia group do in Williamsburg, Suffolk and Newport News, Virginia We have not been fully staffed fo three years with our CRNAS. A year and a half ago we said we were going to start hiring CRNAS. We have orthopedics. It just made sense to do it. I took six months to even get someone in for an interview. And this is Williamsburg. This is a nice place to live. So, my thought is if we had CRAS here, I would have options to hire other people, to bring in — our cost has skyrocketed, the competition that we have and talking from an independent group, we do have the big management companies. They have deeper pocket than we do. Our cost for all our CRNAS and we have	1 employed 25, have gone up 30 percent in the past	e take 2 year just to maintain. And to be able to staff, our	3 cost to do business has just skyrocketed because of	4 staffing. But if we had a choice, if we had an	5 option of another professional, I think that would	6 it would certainly make my life a lot easier in	hiring, and someone that is qualifi	8 alongside the CRNAs and under the care team model.	9 Thank you.	10 DR. PINEGAR: Once again, I'm Dr. Pin	I would hust like to clarify a		his about most about			can't afford o		17 circumstances that might necessitate that.	18 But I would like to read just an exce	19 from a statement from the American Study of	20 Anesthesiologist in relation to medical supervision	21 of nurse anesthetists by nonanesthesiologist	22 positions, which states, general anesthesia,	23 regional anesthesia, and monitored anesthesia care	24 expose patients to risk. Nonanesthesiologist	25 positions may not possess the expertise that
		clarify, the folks that we take	and healthy. But they	injured and we	spendently and			Good morning. I'm Martha	for Virginia	e anesthesia group down	Newport News, Virginia.	been fully staffed for the past	A year and a half ago	we said we were going to start hiring CRNAs. We had	se to do it. It	in for an	J. This is a	is if we had	nire other	people, to bring in our cost has skyrocketed, the		The competition that we have and I'm	we do have the	ey have deeper pockets	our CRNAs and we have	

DR. PINEGAR: Once again, I'm Dr. Pinegar.

First and foremost, we have heard a fair

But I would like to read just an excerpt

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	uniquely qualify and enables anesthesiologists to
	manage the most challenging medical situations that
	arise. While a few surgical training positions,
	such as oral surgery, provides some anesthesia
	specific education, no nonanesthesia programs
	prepare their graduates to provide an
	anesthesiologist level of medical supervision and
	clinical expertise.
	However, surgeons and physicians certainly
	add to a patient's safety and quality of care by
	assuming medical responsibility for care when an
	anesthesiologist is not present. Anesthetist and
13	surgical complications often arise unexpectantly and
	require immediately medical diagnoses and treatment.
	Even a state law or regulation says the
	physician is not required to supervise non-physician
	anesthesia practitioners. The surgeon may be the
	only physician on site, whether the need is
	preoperative medical assessment, resuscitation from
	an unexpected complication, the surgeon may be
	called upon as the most highly trained professional
	present to provide medical direction of
	perioperative health care including nurse and
	anesthesia care.
	To optimize patient safety, careful

One other point I would like to speak on is I think it's careful to consider that in successful resuscitation. This should be taken into our Case Western AA students or even some of the ODU consideration is required when a surgeon will be the requirements that are placed on students that rotate only physician available as in some small hospitals, are probably not to the level of what is being done centers that the types of cases that are being done a comment about the training difference between AAs free standing surgery centers and surgeon's offices certain critical access hospitals or small surgery in places like the Washington Hospital Center. So and CRNAs. And I would like to reiterate that the support from other physicians trained in critical performed in settings without an anesthesiologist through us, whether they are Georgetown students, account when deciding which procedures should be to draw a parallel between those two is probably through our hospital, that we require them to do medical management may reduce the likelihood of in the event of an emergency, lack of immediate and which patients are appropriate candidates. students that we had the pleasure of rotating inaccurate. 10 17 m in 10 -Ø. 11 13 16 9 ω 14 E. 17 50 21

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hearing concluded.	24	25 procedure having become very familiar with the	CA
At this time I will conclude the publ	23	24 children, if I need anesthesia support for a medical	64
office.	22	And if my grandmother, my wife, my	64
applause please contact Ms. Jackson here at the	21	22 be followed.	64
and this was complicated, so let's give her an	20	21 care team model is the best and, if possible, should	64
is here. If you would like a copy of the transcript	5	20 of Anesthesiologists has put out that anesthesia	64
p.m. on July 31st, 2017. I appreciate everyone who	120	19 I agree with the statement that the American Society	-
Written comments will be accepted unt	7	18 anesthesiologist assistant students, that I echo and	Н
that would like to speak?	9	17 programs for both AAs, resident physicians and for	Н
200	1	16 that being intimately involved in the training	П
operation and the second secon		15 you want taking care of granny. And I have to say	П
Classes of		14 is to the question that was asked of you, who would	Ħ
Is there anyone else hare that would	e	13 And the last point I would like to speak on	7
MR. WELLS: All might.	12	12 training philosophy they come from.	П
make that point.	11	11 to that occassion as a whole regardless of the	П
and with my family members. And I just wanted to	10	10 preparedness. And in my mind, they generally rise	e.
AAs are people that I trust with the lives of myself	σ	9 them all to the same level, the same standards of	
me today representing our support for licensure for	Φ	8 resident anesthesiologist participants. We hold	
implicitly. Many of the people here standing with	-	7 students as well as our resident physician, our	
the training program they came from. I trust them	9	6 anesthetists, our anesthesiologist assistant	
care of the people that I have trained regardless of	un	5 place. This goes for both our student nurse	
placing my life or the lives of my family in the	4	4 of, and to have a perioperative anesthetist plan in	-
Western program, I have no hesitation whatsoever in	m	3 homework on the patients they are going to take care	
both from the Georgetown program and from the Case	cv.	2 are going to participate in, to have done their	
students that we graduated and subsequently bired	н	1 work beforehand, to be prepared for the cases they	
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Is there anyone else here that would like

Written comments will be accepted until 5

One more time, is there anyone else here

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At this time I will conclude the public

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                                                                                I, Anne Marie Nelson, hereby certify that I, having
                                                                                                                                                  I further certify that the foregoing transcript is
                                                                                                                                                                                                   Given under my hand this 16th day of July, 2017,
                                                                                                                 County of Henrico, Virginia on June 27th, 2017, at
                                                                                                                                                                   a true and accurate record of the testimony and
                                                                                                been duly sworn, was the Court Reporter in the
                                               CERTIFICATE OF COURT REPORTER
                                                                                                                                                                                                                                                                                                                                                                                                                                                               Crane-Snead & Associates, Inc.
                                                                                                                                                                                   other incidents of the hearing herein.
             (Hearing concluded.)
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Summaries of Written Comments Received

	C	OMMENTS SUPPORTING AA LICENSURE
1	Addison Cain 1 st year student Case Western Reserve	Excited about the field. Would like to work in Virginia
2	Akash Sinha 1st year student Case Western Reserve	Same – notes students can rotate in state but not practice
3	Aldijana Mekic, CAA Alexandria	CWR graduate would like to work in Virginia
4	Alex Jucisin 1 st year student CWR	Sister is a CAA at Medstar Washington Hospital Center in D.C. Wants to work in Virginia
5	Alex Steed, CAA Maryland Academy of Anesthesiologist Assistants Resident of Maryland	Practices at Children's National Medical Center in D.C. Explains educational content, # of jurisdictions. Anesthesiologists are the only physician specialty in the state to have only one physician extender.
6	Amarender Parkash, MD Anesthesiologist at MedStar Health Washington Hospital Center	Supervises both CAAs and CRNAs. Counters argument that CAAs displace CRNAs, cites NPI data that indicates when CAAs enter the marketplace, there is CRNA growth. BLS data shows the costs of CRNAs drops in states with the highest # of CAAs. Concludes this will increase access ??
7	Ayman Abdel, MD., et al. (10 others) American Anesthesiology of Virginia Leesburg	Anesthesiologists practicing in Loudoun Hospital. Unable to recruit full-time CRNAs, no interest in night and weekend regardless of salary. Would hire CAAs in a minute if they could practice in Va.
8	Amy Cababe, MD, CAA Resident of Missouri	Both CAA and MD - speaks to CAA education. Refers to shortage without further proof. Notes cost of CRNAs drops 15.2% with introduction of CAA. Want more than one choice of midlevel provider,
9	Andrew Le Student CWR Resident of Arizona	Excited about the filed. Would like to work in Virginia.
	Annie O. Wilhite, MD	Speaks to ACT and adding members to the team. Speaks to anesthesiologist education and training. Thinks anesthesiologists needed to be present. Only one physician extender choice. Wants "competitive market" for extenders to help drive costs down. Rotation through Va. but not practice.
11	April Basham, RN Salem	Nurse for 11 years, supports ACT and reiterates anesthesiologists having one physician extender instead of 6.5 for other specialties.
12	Arthur Gower, III MD, FAAP	UVA 1958, Navy and pediatric residency in SC. Practiced in Manassas 1963 to 2010 son is CAA

	Manassas	
13	Arthur Ke, CAA Providence Hospital DC	Provides personal education and training. Would like to work in VA, Notes a dozen colleagues would like the same
14	Ashish Patel, CAA Practicing in DC Director of Simulation CWR	CAA 19 years. Family and business in Harrisonburg but cannot live there because he can 't work in Va. Cites growth of the profession.
15	Ashleigh Dechow, CAA, MSA	Notes profession's growth in last 10 years, licensure in surrounding states, Bureau of Labor Statistics' "recognizing CAAs as reducing costs of CRNAs in states with largest concentration of CAAs. Contends CAAs do not displace CRNA's.
16	Babak Roboubi, MD Sr. Attending Anesthesiologist Georgetown U.M.C. MedStar Health	Worked alongside CAAs for 15 years. Immediate Past-President of DC SOA
17	Brian A. McConnell, MD Past President VSA Asst. Professor, VCU Northern Campus	States Va. law requires physician-led team-based model of care with nurses supervised. Describes differences in physician education and training with that for CRNAs, reiterates CAAs only work under the direction of an anesthesiologist. Cites a 2000 study published in <i>Anesthesiology</i> that concludes anesthesia care is improved with involvement of an anesthesiologist. Notes acute nature of anesthesiology requires moment-to-moment intraoperative anesthesiologist availability to address emergencies. States patient and family expectation of this availability in the operating room context. Notes anesthesiology is the only specialty in Va. without choice of physician extender/mid-level practitioner. Notes with CAAs in proportion to CRNAs in the employment market lower costs. Opines competition would lower healthcare costs. Notes AA students may do clinical rotations in Va. but practice as CAAs. Several Va. residents must travel to other states to work.
18	Bridgetee Coates, RN, C- EFM Roanoke	Nurse practicing for 34 years and has worked with anesthesiologists in the OR and labor and delivery. Believes the ACT approach is best. Notes CAAs are permitted to practice in surrounding states. References Bureau of Labor and Statistics and NPI data indicates decreased anesthesia cost with introduction of CAAs. Supports CAA licensure as addition to anesthesia care providers to help provide best care possible in most cost-effective way.
19	Caitlin Burley, CAA President DC Academy of Anesthesiologist Assistants, Treasurer Virginia Academy of Anesthesiologist Assistants	Adheres to ACT as best model. Notes requirement to travel to work while students can rotate in Va. Works at MedStar Washington Hospital Center in D.C. Notes there are 72 staff anesthetists with 40 CAAs which practice interchangeably as a team rotating through every specialty surgical care area offered by the hospital.

	Virginia resident	
20	Caitlin Burley, CAA DCAAA President	On behalf of the DC organization supports Va. licensure. Notes CAAs have been practicing in D.C. for 15 years, in 17 jurisdictions and in the Veterans Administration System. They practice in all major hospitals in the city. They are recognized by CMS, TRICARE and major commercial payers. There are over 2000 CAAs nationwide. There are over a dozen CAA members who are Va. residents seeking to work here.
21	Camille Jansen, CAA Washington, DC	Expresses desire to work in Virginia.
22	Carina N. Rosslee, MD Anesthesiologist Winchester	See comments from Brian M. McConnell, MD (#17).
23	Catherine Olumba Junior AA Student CSW DC	Native DC resident. Expresses desire to work in Virginia and holds mutual benefit for respective communities.
24	Cathy Jo Swanson, MD Anesthesiologist Roanoke	See #17.
25	Chad Toujague, CAA, MBA CEO Halo Health, LLC Seffner, FL	Speaks to CAA educational and training background and considers difference with CRNAs only due to anesthesiologist supervision for CAAs. States his company staff anesthesia providers across the U.S. Notes the two professions are interchangeable where CAAs are permitted to practice. States CAAs are qualified to perform entire variety of anesthetic procedures, including procedures related to pediatric cardiac patients, labor and delivery, and full range of surgeries. Posits CAAs could contribute addressing a healthcare deficit in Virginia.
26	Chris Dejelo, CAA MedStar Washington Hospital DC	Previously lived in Va. but moved to DC because of commute. Wishes to return. Explains CAA education and training requirements, 17 jurisdictions regulate CAAs, and CAAs work in many specialties. Indicates CAAs work in the ACT model and are reliable practitioners with proven safety record.
27	Christopher Eric Cordero, MD Anesthesiologist and Partner, Valley Anesthesia Roanoke	Cites 25 years' ACT practice model experience. Considers existing Virginia statutes requiring physician supervised anesthesia care as the "gold standard" for patient care in Va. and U.S. It ensures physician access in an emergency. Refers to the 2000 published study in <i>Anesthesiology</i> indicating improved care with anesthesiologist involvement. Notes acute nature of anesthesiology requires moment-to-moment intraoperative anesthesiologist availability to address emergencies. States patient and family expectation of this availability in the operating room context. Notes anesthesiology is the only specialty in Va. without choice of physician extender/mid-level practitioner. Reports lower anesthesia care costs may be expected with CAAs participation in the employment market in proportion to CRNAs.

28	Christopher Cromwell, MD Chairman and Medical Director, Dept. of Emergency Medicine at Stone Springs Hospital Center Loudoun	Appreciates the value of team work in in clinical settings. Indicates the option to choose from a variety of qualified employees is essential to building a tem for staffing a facility.
29	Christopher C. Rigsby, MD Anesthesiologist Roanoke	Cites current shortage of both anesthesiologists and CRNAs in the area. See #17.
30	Connie S. Jones, MD Anesthesiologist August Health in Fishersville and UVA Health Systems in Charlottesville	Notes practices as MD-only and with supervision of CRNAs. Reports differences in pre-med curriculum for CAA vs. nursing curriculum for CRNAs. Holds the former is more advantageous to obtain advanced degrees required in the practice of anesthesia. Reports daily practice with rotating AA students. States if changed from an all-MD practice, would hire a CAA over a CRNA. Reports there are 14 CAAs and 8 CAA students who live in Virginia but must leave to work. Notes CAAs are recognized by CMS, Tricare and all major commercial payers. Cites Bureau of Labor Statistics reporting of decreased anesthesia care cost in states with CAAs.
31	Craig Stopa, MD Anesthesiologist Hampton Roads	Reports moving to Va. after Emory University residency where he worked with CAAs. Notes anesthesiologists have only one physician extender/mid-level practitioner to choose from, driving up costs. Notes the BLS described decreased anesthetist employment costs where CAA and CRNA are in proportionate numbers in the labor market.
32	Daniel Mesaros, CAA DC Fairfax resident	Notes serving as a board member for the American Academy of Anesthesiologist Assistants, having safely practiced since 2008 and believes he deserves to be permitted to practice in Va. Speaks to lowering health costs and promoting diversity in the team model.
33	Daniel Perlin, MD Senior Physician Anesthesiologist Washington Hospital Center MedStar Health DC	States working at a level one trauma center and at the hospital for 20 years, 15 of which with CAAs. Notes requisite premedical background and intensive anesthesia training though specialty-specific training rotations. Indicates high level CAAs have a high level of critical thinking and decision-making capabilities along with the specialized skill set that allows for safe, efficient, and quality patient care.
34	Daphne Tolentino, CAA	Describes education and training from Case Western Reserve University in Ohio, becoming a CAA in 2007, a Virginia resident since 2009 and working at the Washington Hospital Center level one trauma center since 2007. Seeks work opportunity options to expand to Virginia.

35	David Fields, MD Anesthesiologist Washington Hospital Center MedStar Health DC Resident Potomac, MD Debbie Altizer, RNC-	Cites 30 years' experience as individual practitioner and ACT member. Indicates CAAs provide value and dedication. States ACT approach is best for patients. Advocates for Va. residents
	EFM Roanoke	being permitted CAA care. Indicates they provide anesthesiologists with an additional choice of mid-level anesthesia providers where other specialties have an average of six and a half. Expresses view that CAs will add to quality, availability, and affordability of healthcare and other aspects of Virginia communities.
37	Dia Copeland, MD Gastroenterologist MidAtlantic Permanente Medical Group DC and Maryland locations Alexandria resident	States gastroenterologists rely on anesthesia providers for endoscopic and other procedures. Approves of the ACT model as patients present with chronic conditions. Reports having worked with CAAs at Washington Hospital Center for six years. Notes high quality, compassionate care and emphasis on safety.
38	E. Alexandra Zubowicz, MD, FACS Surgeon Washington Hospital Center MedStar Health DC	Reports having worked with CAAs for a decade in the DC area. Performs surgery daily and supports ACT model. Indicates patients with high acuity levels. References a national shortage of anesthesia providers, growing number of procedures requiring anesthesia services, and aging complex patient population. Posits that licensing CAAs will minimize strain on CRNAs and anesthesiologists.
39	Eileen Begin, MD Interim Chair, Dept. of Anesthesiology Washington Hospital Center MedStar Health DC	Cites department employing CAAs for 15 years, use of ACT approach, and employing CRNAs side-by-side with CAAs. They are paid the same. Notes appreciation of the option of providers. Report no issues with employment of CAAs or CRNAS. Reports high acuity patient population and CAAs assisting with all subspecialties.
40	Eleanor Kathryn Lowry, MD Anesthesiologist Lynchburg	Reports embracing ACT approach and has 15 MDs and 8 CRNAs in current practice. Notes having difficulty recruiting CRNA for several months despite competitive salary, work schedule and benefits. Notes nearly 200 positions on www.gasworks.com . Indicates they have hired locum tenens to provide temporary staffing. Cites other physician specialties have multiple care extenders and CAAs are licensed in surrounding states. Cites CAA education and training backgrounds, safety, and anesthesiologist supervision for physician intervention if needed. Would hire CAAs if licensed.
41	Ella Branch, RNC-OB Buchanan	Virginia resident for 32 year and nurse for 10. Reports working with anesthesiologists in labor and delivery. Approves the ACT approach.

		Notes Va. is surrounded by states that license CAAs. Beliefs CAAs licensure will provide for best possible care and cost effectiveness.
42	Emil Engels, MD, MBA President, Virginia Society of Anesthesiologists Practicing Anesthesiologist in Fairfax and resident of Oakton	Reports several years' personal knowledge of CAAs and knows anesthesiologists who work with CAAs in NC, GA, and DC. Speaks to safety records, supervision and doing every type of cases. Cites his company has 40 open positions for CRNAs that they cannot fill now. References www.gaswork.com with almost 200 unfilled positions in Va. Indicates having to pay overtime and hiring locum tenens. Notes one care extender type. Reports a dozen CAAs living in Va. but not able to work here.
43	Emilia Morales Student CWR DC Californian with family in Stafford	Cites personal history and desire to work, notes 17 states that license CAAs. Seeks to work in Va. with CAA.
44	Emily Wilson Sister to CAA Aldie	Seeks licensure for CAAs and approves of the ACT approach.
45	Erin Felger, MD, FACS Assoc. Program Director of Surgery Washington Hospital Center MedStar Health DC Great Falls resident	Notes their endocrine surgery department attracts patients requiring specialized surgical and anesthesia care. Approves of the ACT approach. Worked with CAAs for 8 years and is highly favorable of their contributions to the team. Attests to their high level of safety and focus.
46	Eugenie Heitmiller, MD, FAAP Chief of Anesthesiology, Pain, and Perioperative Medicine at Children's National Health System	Also representing anesthesiologists from Pediatric Specialists of Virginia Ambulatory Surgery Center in Fairfax See #17. Additionally, notes p participating in AA training reports NPI data that show when CAAs enter the marketplace in a particular state, they do not displace any CRNAs. Indicates that there is a higher percentage of CNRA growth in states with CAAs vs. states without them.
47	Fay Horng, MD Dept. of Anesthesiology Washington Hospital Center MedStar Health DC	Reports working a major level one trauma center and working with CAAs and CRNAs within the ACT model. Indicates being able to work four rooms at once. States it provides for efficiency and safety, especially in faster-paced settings such as gastroenterology and electrophysiology suites. Equates CRNA and CAAs.
48	G. Bryon Work, MD Anesthesiologist Past-President of Atlantic Anesthesia and Past-President of the American Society of Anesthesiologists Va. Beach	Indicates CAA education and training. Their potentially service as an additional choice as physician extender. Counters that demand for all care team extenders continues to increase when CAAs are licensed in states and does not result in CRNA job loss. Seeks for CAAs living in Va. to be able to practice here.

49	Gail Simon Wappingers Fall, NY	Writes in support of CAA licensure and in support of Stefan Guzewicz, AA student.
50	George O. Woodrum, MD Staunton	Reports helping to train AAs at Augusta Health in Fishersville. Notes having worked with CRNAs in training and 25 years of private practice. Opines concern over insisting on own way rather than following directions and expense. Seeks CAA licensure to increase options for anesthesia providers.
51	George Landon Smith, MD Anesthesiologist SW Va.	No personal experience working with AA but colleagues in surrounding jurisdictions speak highly of them. Notes his practice serves an ever-expanding healthcare organization in rural Va. and that they have not been able to hire enough physicians or CRNAs. They pay overtime and hire locum tenens. Notes the dozen CAAs who are Va. residents.
52	Greg Mastropolo, CAA Clinical Professor Quinnipac University School of Medicine Washington Hospital Center MedStar Health DC	Reports being in practice 20 years. Notes CAAs have practice in ACT model for 15 years. Speaks to his practice in caring for trauma and emergency and other high acuity patients and the CAA's role in the perioperative team.
53	Harika Nagavelli Resident of Iowa	Cites Rand Corporation study and projects a nationwide shortage of anesthesia providers by 2020 and need for 200-300 providers within the next three years, alone. Speaks to anesthesia as being an overlooked area and AA profession as new and evolving. Indicates AAs could help with costs and care.
54	Hassan Adeniji-Adele, MD Anesthesiologist Director of OB Anesthesiology School of Medicine Washington Hospital Center MedStar Health DC	Notes CAAs used successfully in his department for 15 years. Hospital cares for women with serious or potentially life-threatening comorbidities. Notes the hospital's Anesthesiology Department relies heavily on the ACT model and has benefitted from CAA availability.
55	Ikenna Uzomah, CAA, MSA MedStar Washington Hospital and Providence Hospital Maryland resident	Reports working in ACT model. Cites BLS data on cost decrease for CRNAs with CAAs and NPI data on growth of CRNAs in states with CAAs. Notes 17 jurisdictions.
56	Iman Mush Student Emory Born in Virginia	Expresses desire to work in Va. once certified.

	Resident of Georgia	
57	Jacquelyn Burley, RN Parent Resident of Georgia	Wishes for daughter who is a CAA to be able to practice in Va.
58	James & Elizabeth Eun Parents Reston	Wish for son who is a student at CWR to be able to practice in Va.
59	James F. Hammill, MD Anesthesiologist Virginia Anesthesia & Perioperative Care Specialists Newport News	See #17
60	Janet E. Ha Student CWR	Desires to be able to practice in Va. upon certification
61	Jared B. Fitzgerald Student – Senior Bedford	Desires to be able to practice in Va. upon certification
62	Jason Hansen Patient Alexandria	Reports having received CAA care and supports their licensure.
63	Jason Maas, MD Anesthesiologist Anesthesiologist Virginia Anesthesia & Perioperative Care Specialists Newport News	See #17
64	Jeff Kessel, MD Anesthesiologist ACV, Inc. Roanoke	Reports having trained and worked with CAAs in West Virginia. Notes that other specialists are hiring nurse practitioners and physician assistants while anesthesiologists have no other choice except CRNAs. Considers CAAs and equivalent with PAs. Notes they add diversity and that many areas of the state are in need of anesthesia providers. Notes they rotate through Va. as students but cannot practice here.
65	Jeffrey Gander, MD Pediatric Surgeon UVA Children's Hospital	Reported practicing in New York and working with CAAs. Seeks anesthesiologists to have the additional option of CAAs as anesthesia providers. Notes he does not understand the rationale behind permitting student rotations in Va. but not practice.
66	Jeffery S. Plagenhoef, MD President American Society of Anesthesiologists	Cites ASA Policy on ACT. Notes CAAs are key members of the ACT and anesthesiologists should have the choice of anesthesia providers. Describes CAA education and training and indicates they believe CAAs and CRNAs are interchangeable.
67	Jeffrey Weiss, DO President, Tem Health	Head of a national anesthesia services management firm. Views Va. as having a significant shortage of anesthesia providers. Points to

	Anesthesia Palm Beach, FL	anesthesiologists having only one choice of provider as a problem.
68	Jennifer Hanna, MD Senior Anesthesiologist Washington Hospital Center MedStar Health DC	Reports having worked with CAAs for 15 years. Supports ACT model.
69	Jennifer Kunzelman, CRNA Washington Hospital Center MedStar Health DC Alexandria resident	Is married to an CAA. Opines CAAs are equally qualified to CRNAs. Reports that they are interchangeable with identical job responsibilities. Contends CAAs will not shrink CRNA job markets and will improve the shortage of anesthesia providers and reduce workload. Reports hoping to raise her family in Va.
70	Jermane Leclerc, MHSc. MHSA, CAA Program Director/Asst. Professor, Nova Southeastern University Ft. Lauderdale, FL	Generally supports CAA licensure in Va.
71	Jessica Roman, MD Anesthesiologist DC Va. resident	Reports having worked with CAAs for eight years. Thinks anesthesiologists should have choice of additional providers. Supports ACT model.
72	Jill Nagel, MD Anesthesiologist Anesthesiologist Virginia Anesthesia & Perioperative Care Specialists Williamsburg	#17
73	John F. Butterworth, IV, MD Anesthesiologist Richmond	Reports working in other states with CAAs. Notes they are employed by the Veterans Administration. Discusses CA educational backgrounds, they're not displacing CRNAs, and there are no changes in reimbursement rates in practices that utilize them.
74	John Gower, CAA Toledo, OH	Notes being born and raised in Va. and seeks CAAs practice here.
75	John E. Joyner, MD Senior Attending Anesthesiologist Washington Hospital Center MedStar Health DC	Reports working with CAAs for 15 years and has trained them. Uses CRNAs and CAA interchangeably and appreciates having provider options.
76	John Q. Schisler, II, MD Anesthesiologist	Reports working with CRNAs at Loudoun Hospital and the Air Force and was trained by and worked with CAAs during his residency. Notes

	American Anesthesiology of Virginia, P Loudoun	no difference in CRNAs and CAAs.
77	Jonah Lopatin, MD Anesthesiologist Washington Hospital Center MedStar Health DC	Notes since starting in 2016 at this hospital has been working closely with CRNAs and CAAs and rotating students; comments on high quality.
78	Judy Stillway Aunt of student Annandale	Wishes for nephew who is a student at Quinnipiac to be able to practice in Va.
79	Kerlly Castellano Student CWR DC	Anticipates graduation in 2019 and would like to live and work in Va.
80	Kerrie Walton, RN White Stone	Reports living in Va. for 33 years and being a nurse for 12 years. Supports ACT approach. Notes surrounding states license CAAs. References reduction in anesthesia costs without displacing CRNAs based upon Bureau of Labor Statistics and NPI data.
81	Kevin Handy, MD Attending Physician Surgical Critical Care and Anesthesiology Washington Hospital Center MedStar Health DC	Notes the quality of CAAs at the hospital and the rotating students. Cites specific instance of CAA recognizing a pulmonary embolus on a chronically ill patient and secured airway and resources needed. Speaks to need for rapid and flawless teamwork in dealing with ICU and trauma and burn cases.
82	Kevin Sistani Student – 1 st year CWR DC	Notes personal background and seeks ability to work in Va.
83	Khaled Salem, MD Fairfax	Reports working with CAAs for 12 years and notes trust with any patient. Supports ACT approach. Indicates he supervises CAAs and CRNAs and trains students in both professions. Notes that DC anesthesiologists can choose from among CRNAs and CAAs.
84	Kim Vuong, CAA Student Clinical Coordinator Washington Hospital Center MedStar Health, Adjunct Professor CWR DC	Prior Va. resident for six years but had to move due to commute. Seeks to return. Teaches students, CAAs, CRNAs, anesthesiologists and other physicians in life support courses. Also serves as the DC Academy of Anesthesiologist Assistants Treasurer. Notes 17 jurisdictions license CAAs.
85	Krishnan Venkatesan, MD	Reports working closely with CAAS in the operating room. Supports ACT approach. Notes he finds no difference in care his patients

86	Director of Urologic Reconstruction, Washington Hospital Center MedStar Health DC & Assistant Professor Urology, Georgetown University School of Medicine Layne K. DiLoreto, MMSC, CAA	Reports practice over 7.5 years and living in Va. for 6. Notes CAAs have provided safe care in many other states and in federally mandated healthcare settings for over 50 years. Notes ACT model camaraderie and safe reliable practice. Cites supervisory and certification requirements, 17 jurisdictions, practice in VA system,
87	Lindsay Frey, CAA	and CMS reimbursement. Seeks practice authority in Va. Cites certification requirements. Affirms ACT model
88	Lindsay Frey, CAA Linh Duong	Cites personal background, growth of the CAA field, and student rotation but not later work in Va. Notes anesthesiologists' support for CAA licensure, reduction in cost of CRNAs, but not displacement. States 14 CAAs live in Va. and posits a student increase with licensure in Va.
89	Lisa Grubb, RN Vinton	Reports living in Va. 35 years and practicing nursing for 11. See #80.
90	Lynda Wells, MD Anesthesiologist Keswick	Reports working full-time in OR supervising CRNAs and teaching and supervising anesthesiology residents. Supports ACT model with presence of physician essential. States it is expected by patients and insurers. Considers CAA practice equivalent to CRNAs. Indicates they have an excellent safety record that is not inferior to CRNAs. Posits ACT benefits from flexibility of CAA's practice style differing from nursing. Opines CAAs complement CRNA role and improves care without diminishing or replacing the role of others. Indicates it makes no sense to permit rotation as AA students but not practice in Va.
91	Magdalena Tomecka, MD	Reports working with CAAs for several years. Indicates her practice has many open positions and cites 200 unfilled positions in Va. Posits a shortage that has to be addressed through overtime and locum tenens because anesthesiologists have only one anesthesia provider choice. Notes a dozen or so CAAs living in Va. but having to work outside of the state. Holds CAAs are safe and anesthesiologists enjoy working with them.
92	Mandy Irby, RN-OB, C- EFM Roanoke	Reports living in Va. for 16 years and 10 years as a nurse in labor and delivery. Notes sister is a CAA who lives in northern Va. and works in DC. Notes surrounding state license CAAs and indicates CAA licensure would provide more anesthesia staffing options to help alleviate shortages in many parts of the state.
93	Ma-Paz Giorla, MD Senior Attending Anesthesiologist	Reports practicing 46 years and working with CAAs for 15. Cites CAA education and training. Notes trust with daughter's surgery.

	Washington Hospital Center MedStar Health DC	
94	Marc Camacho, MD Vascular Surgeon	Recommends ACT model. Notes other specialties have multiple mid- level extenders while anesthesiologists, only one. Reports seeing shortages. Opines that licensing CAAs will ease scheduling and reduce patient wait times. Views CRNA and CAA training and safety as similar.
95	Maria C. Forner, Student- 1 st year CWR Resident of Ohio	Cites CAA education and training. Notes there are 17 licensing jurisdictions. Indicates CAA licensure would contribute to affordable care.
96	Marilyn L. Archambeault Student CWR	Supports ACT model. Notes rotation but not practice in Va. Knows students who would return to Va. Notes CAA education and training for certification, continuing education and recertification requirements every 6 years. Notes endorsement by ASA, CMS, Tricare, and major commercial insurer reimbursement. Indicates CAAs result in cost-reductions for patients and potentially reduce production pressures in the OR.
97	Marilyn Williams Senior Administrative Assistant Anesthesiology Department Washington Hospital Center MedStar Health DC	Reports hospital views CAAs and CRNAs as interchangeable and has reduced a shortage of anesthesia providers without jeopardizing care. Posits that more anesthesia providers are needed to keep pace with a growing, aging population. Cites trust with own surgery.
98	Mary Kay Grady, MD Anesthesiologist Washington Hospital Center MedStar Health DC Virginia resident	Reports practice for 20 years, and employing CAAs. Group teaches and supervises AA students at CWR-DC. Notes student quality and that they are in high demand once certified.
99	Matthew Kattapuram, MD President, DC Society of Anesthesiologists	Cites CAA education and training and their practice in several DC hospitals and ambulatory surgery facilities. Supports ACT model. Cites anesthesiologist education and training and that all patients should have access to this expertise. His society has 50 CAAs. Notes they participate alongside anesthesiologists in CE, legislative conferences, and social events with shared goal of promoting safe practice.
100	Matthew Fulton, DO Anesthesiologist Valley Anesthesia, PC Salem	Reports training at CWR-Ohio and University Hospitals of Cleveland which employs CRNAs and CAAs. See #17

101	Maxine Lee, MD, MBA Anesthesiologist Anesthesiology Consultants of Virginia, Inc. Roanoke Michael Burley	Notes periodic difficulty in hiring enough CRNAs to staff ORs, indicates CAAs could help alleviate the shortage. Cites CAA education and training, their recognition by CMS, Tricare and commercial. insurers, their licensure in 17 jurisdictions, and student rotating in Va. but unable to work here. Also notes anesthesiologists only have one physician extender currently. Wishes daughter could practice in Va.
	Parent	μ
103	Michael Diskin Student – 1 st year CWR DC Resident of Michigan	Reports having begun rotations at Washington Hospital Center MedStar in DC. Describes personal education and experiences prior to the program. Notes Michigan's delegation authority rather than licensure, favors licensure for the benefit of patients and cost-savings. Notes 17 jurisdictions and 14 CAAs living in Va. and students who would wish to practice here.
104	Michael F. Murphy, MD Chief Medical Officer MEDNAX Health Solutions Partner Sunrise, FL	Company manages professional anesthesiology services nationwide. Reports employing over 1,300 CRNAs and over 300 CAAs. Holds both professions are appropriately trained and proficient. Notes that anesthesia practices in Va. experience shortages on a continuing basis. Anticipates the problem will worsen. Supports VSA's efforts to gain licensure for CAAs.
105	Michael Wilson Parent Ashburn	CAA daughter a Va. resident for 16 years; wishes she could practice in Va. As a patient, prefers ACT model
106	Michel & Gezail Habib Parents Annandale	Supports daughter's ability to work in Va. Notes her work ethic, education and training. Reports on history of CAAs. Cites family history of healthcare practitioners. Notes CAAs and CRNAs perform similar work. Supports ACT model. References NPI data conclusion that CAAs do not replace CRNAs.
107	Mijin Kim, CAA Virginia resident	Reports practice in DC, having established an S-Corporation in Virginia and seeking practice here.
108	Millard Hawkins, MD Senior Anesthesiologist Washington Hospital Center MedStar Health DC	Reports working at the hospital and with CAAs for 15 years. Notes his department serve's DC's largest Level I trauma center's OR, cardiac electrophysiology lab, gastroenterology suite, interventional radiology, and cardiac catheterization lab. Their ACT model allows CAAs and CRNAs to staff all of these locations and have an anesthesiologist involved in care. Discusses high acuity of patients and interchangeability of and comfort with CAAs and CRNAs. Notes Va. facilities are more vulnerable to provider shortages because they cannot utilize CAAs.
109	Mirsada & Nusret Mekic Parents Roanoke	Wishes daughter could practice in Va. Cites 17 states, CAAs as additional mid-level provider and lowering costs, and supports ACT model.
110	Mohammed Pradhan Student – 1 st year CWR DC	Reports personal background. Wishes to practice in Va. Notes southeastern region as favorable

111	Mukesh, Nigam, MD Anesthesiologist Danville Regional Health System	Reports practicing 15 years, neighboring licensing states, and need for second mid-level provider. Currently supervises CRNAs and would have no objection to also supervising CAAs.
112	Nagwa Moustafa, MD Senior Attending Anesthesiologist Washington Hospital Center MedStar Health DC Virginia resident	Reports working with CAAs for 15 years. Supports the ACT model. Notes addition of CAAs enabled increase of the department's reach without compromising care. Notes high level of trust.
113	Nancy Long Student – 1 st year CWR DC Alexandria	Note 2000 CAAs nationwide, rotation but not practice in Va. Indicates there is a shortage of anesthesia providers in Va. States CAAs practicing in surrounding states could help offset it.
114	Oluwatoyosi Shitta-Bey, CAA Georgia	Would like to return to the area. Notes ACT model is the safest. Cites BLS information on reduction in anesthesia employment costs with CAA introduction. States he would be willing to move to and practice in Va.
115	Parth Kalola Student – 1 st year CWR DC Alexandria	Notes personal background. Wishes to practice in Va.
116	Paul Rein, DO Anesthesiologist	Notes practice in Va. since 1982 and teaching residents and CRNA students, supervising CRNAs, and supervising AA students. Notes independent practice of CRNAs is not allowed in several countries. Supports the ACT model, seeks an additional mid-level provider choice. Notes that CAA practice in many states and often in the same practices as CRNAs. States there is no reason not to allow CAAs to practice in Va.
117	Paul Sugarbaker, MD Medical Director for Center for Gastrointestinal Malignancies Washington Hospital Center MedStar Health DC	Reports working with CAAs for 15 years. His performs surgeries with intra-operative chemotherapy several times per week. It is a long procedure and requires immense support from the ACT. Patient often require blood pressure support, transfusions, and electrolyte corrections, and CAAs are highly skilled in evaluating patient needs and appropriately intervening. Trusts CAAs.
118	Phillippe Phung, MD Washington Hospital Center MedStar Health	Reports practicing with CAAs for 15 years. Notes hospital is Level I trauma center. Indicates the training, expectations, and responsibilities for CAAs and CRNAs is the same. There is a 1:1 ratio.

	DC	
	DC Senior Anesthesiologist Clarkesville, MD	
119	Praful Ramineni, MD Plastic and Reconstructive Surgeon West End Plastic Surgery DC Virginia resident	Reports practicing 10 years. Has worked with CAAs and CRNAs and finds them equivalent. Notes the more specialized skill set for CAAs and opines this would benefit hospital environments by allowing greater ability to fill open positions and address shortages.
120	Rhett Irby Vinton	Sister-in-law is CAA. Would like CAAs to practice in Va. in support of their communities
121	Rhiannon Hainds Student -1 st year CWR DC	Cites personal background. Reports working with many CAAs and classmates who live in Va. and would want to work here.
122	Richard Davies Student – 1 st year CWR DC	Cites personal background. Reports working with many CAAs and classmates who live in Va. and would want to work here.
123	Richard P. Wyeth, MD, PhD Associate Professor of Medical Physiology and Human Anatomy Edward Via College of Osteopathic Medicine	Supports additional physician extender for anesthesiologists. Notes CAAs are recognized by CMS, Tricare, and commercial insurers. Reports having substantive discussions with CAAs and is confident in their education and training.
124	Rita Basanti Aunt Annandale	States she understands what it takes in the medical field and believes CAAs are fully equipped and well-trained to share the same goals as CRNAs. Cites need for second anesthesia provider for anesthesiologist support. Notes the BLS and NPI conclusions that there are lower costs in state with CAA licensure but no displacement of CRNA jobs.
125	Robert Jacobson, MD Senior Anesthesiologist Washington Hospital Center MedStar Health DC	Reports working with CAAs for 8 years. Indicates he practices exclusively in the cardiac electrophysiology lab and that patients are often the sickest and most fragile in the hospital. Supports ACT model. Trusts CAAs. Notes department has been able to expand services because they employ both CAAs and CRNAs. Noted previous employment issue in North Carolina also addressed with CAA licensure
126	Robert P. Shafer, MD Anesthesiologist Anesthesiology Consultants of Virginia Roanoke	Reports practicing in a large private practice 12 years. Served 20 years as active duty Naval officer. Notes CAA education and training, their numbers nationwide, and 17 jurisdictions, including those surrounding Va. Fully endorses their practice and indicates costs are reasonable.
127	Robert Woo, MD Virginia Anesthesia & Perioperative Care	#17

	Specialists, LLC	
128	Newport News Rose Wilson, CAA	Reports working as CAA for five years in DC, working for a large Level
120	Alexandria	I trauma center. Wishes to practice in Va. due to proximity to home and family. Cited CAA education and training and ACT model.
129	Roshan Martin Bashir, MD Gastroenterologist Anesthesiologist Washington Hospital Center MedStar Health DC	Reports over 40 years of practice and work with CAAs for over 15. Trusts CAAs. Notes a national shortage of anesthesia providers and growing number of procedures requiring anesthesia services. Posits CAAs could allow for expansion of surgical facilities without further adding to the strain on anesthesiologists and CRNAs.
130	Rudy Hamad, CAA Chief Anesthestist	1996 graduate. Seeks to practice in Va.
131	Samir Gupta, MD Senior Anesthesiologist Washington Hospital Center MedStar Health DC	Reports having worked with CAAs for 15 years. As Anesthesiologist-in-Charge, runs OR flow, assignments, and coverage several times a week. States he assigns staff to attend to traumas or other emergencies that arise at any time. Trusts CAAs. States he never distinguishes between CAAs and CRNAs. Notes the hospital trains AAs and RNAs and he ensures all students have an equal opportunity to rotate through every surgical specialty to ensure a well-rounded anesthesia education.
132	Sarah R. James, MD Anesthesiologist Chesapeake	Reports practice in Virginia for over 17 years. See #17
133	Scott R. Frank, MD Hospital Administrator Washington Hospital Center MedStar Health DC Virginia resident	Points offered in follow-up to testimony at the Public Hearing. States that no hospital or medical system is being required to hire CAAs. Posits that CAAs will be an equivalent alternative to CRNAs, both in salary and skills, to address anesthesia staffing shortages currently, and ensure more reliable availability of anesthesia services when needed. States There will not be an increase in costs. Indicates there is a national nursing shortage; at his institution, specifically recovery room and ICU nurses. Cites the use of "agency" nurses to fill the gap which is expensive and costs his hospital in the millions of dollars last fiscal year. Acknowledges the right of any nurse to pursue a career as a CRNA, he does not recommend nurse anesthetists training attempt to increase graduates to fill the anesthesia shortages. States the CAAs are equivalent and do not take away from the pool of sorely needed ICU and PACU nurses. Reports having worked with CAAs for 13 years. States CAAs and CRNAs are excellent and safe anesthetist, with no difference in skills, knowledge, and quality of care both provide at his facility. States allowing licensure of CAAs will assure health care needs are better supported with no

		increase in costs.
134	Scott Vasquez	Wishes to practice in Va.
	Student – 1 st year	
135	Shane Angus, CAA, MSA Program Director CWR DC	Cites CAA history, the ACT model, and 17 jurisdictions. Notes that since 2014 and the first graduating class from his institution, the number of licensed CAAs has grown to over 90. Reports they add about 20 additional CAAs yearly and nationally over 250 graduates. Notes that many have ties to Va. Describes education and training requirements for certification and recertification. Notes CAAs are regulated through state boards of medicine. Indicates that there is a shortage of anesthesia providers working in the ACT model in Va. Opines that with the aging population there will be increasing need for anesthesia services to address complex procedures with a strained workforce. Notes that Va. is increasingly becoming a state with AA students.
136	Sharad Agrawal, MD Anesthesiologist Director of Anesthesiology Washington Hospital Center MedStar Health D	Reports living in Va. for 22 years and 15 years' experience working with CAAs. Notes the department does not distinguish between CAAs and CRNAs. They use the ACT model and supervise both interchangeably Trusts CAAs. Welcomes the availability of two midlevel providers Notes CAAs are proven and cost-effective.
137	Steven Johnson, MD Anesthesiologist Norfolk	Reports being provider since 1985 and having corresponded with colleagues who work with CAAs in other states. They indicated that CAAs provide excellent care. Notes that other physicians in Va. utilize PAs and NPs, and anesthesiologists should have such an opportunity with CAAs becoming licensed.
138	Steven Price, MD Attending Anesthesiologist Washington Hospital Center MedStar Health DC	Reports living and working in Va. and DC for six years and working directly with CAAs for three. Supports ACT model. Notes challenging work in Level I trauma center. Trusts CAAs under the guidance of anesthesiologists, like himself. Notes the training and expectations placed upon CAA and CRNAs are the same.
139	Swen E. Laser, MD Anesthesiologist Staunton	Reports being a former nurse interested in becoming a CRNA, but changed course to become an anesthesiologist. Notes that the premedical and CRNA nursing curricula were vastly different, with the former more advantageous for advanced degrees in anesthesiology. Notes her current practice is an all-MD model, but if they need a change, she would prefer CAAs over CRNAs. States CAA students are rotated through Va. hospitals but not permitted to practice. Reports there are 14 CAAs who live in Va. but work out of state. Indicates reimbursement by CMS, Tricare, and commercial insurers, and notes anesthesia service cost decreases in states with CAA according to BLS

		data.
140	Tahir Manzoor, MD Anesthesiologist McLean	Reports licensure in Va. MD, and DC. Indicates he has spent much time supervising CAAs. Supports the ACT model and trusts CAAs working within it.
141	Terry Hurt, MD Anesthesiologist Lynchburg	See #17
142	Tim J. Nitzsche, MD Anesthesiologist Augusta Health Fishersville	Reports practicing in Va. 10 years. Discusses that anesthesiologists have only one choice of mid-level provider. Prefers CAA's medical rather than nursing background. Also favors CAAs because they do not seek independent practice, unlike CRNAs. Notes that his practice is currently MD-only. But if they need a model change, they would like the option of incorporating CAAs in addition to, and possibly in lieu of, CRNAs. Cites ASA Statement on the Anesthesia Care Team, Committee of Origin: Anesthesia Care Team. Points out reduced costs in CAA states as noted by BLS. Reports he spearheaded his group's involvement in AA student preceptorship at his hospital. They have been working with these students for three years. Would like CAAs as a mid-level provider option in Va. Notes they are well-trained and accepted in the anesthesiology community as equivalent to CRNAs when supervised by an anesthesiologist.
143	Todd Lasher, MD Anesthesiologist/Faculty Member Virginia Tech Carilion School of Medicine Blacksburg	Reports having worked with many CAAs in his career. Found them well-trained, well-educated, and safety minded. His initial residency training was, in part, under the direction of a CAA. Reports his practice has shortage of CRNAs and would welcome the ability to hire CAAs.
144	Todd B. Tescher, MD Urologist Fairfax	Reports operating several facilities in northern Va. and strongly supports physician-lead care overall and the ACT model particularly. Supports availability of second mid-level provider for anesthesiologists. States he has seen shortages in anesthesia departments, and posits that having more providers would allow greater access and scheduling cases easier. Does not have personal experience with CAAs, but he has heard from colleagues in DC that they provide superior care. He states he understands their training is similar to CRNAs, as is their safety record and would allow CAAs to work in his operating room under anesthesiologist supervision.
145	Trena Pilegaard Student—1 st year CWR DC Arlington	Reports personal history. Desires to work in DC in the future; prefers to live and work in Va.
146	Vanessa Gluck, MD Anesthesiologist Washington Hospital Center	Reports they hire the best and brightest of both CAAs and CRNAs. Also opines that having the choice of mid-level provider means they have decreased their shortage of providers. Holds that CAAs are excellent members of ACTs.

	MedStar Health DC	
147	Virginia Academy of Anesthesiologist Assistants	Reports they represent 14 CAAs living in Va. Describe CAA education and training. Notes 17 jurisdictions, and cites BLS and NPI data concerning reduction in CRNA costs with CAA presence but no displacement of CRNAs, rather growth. Supports ACT model.
148	Xiqing Cathy Cao Senior Anesthesiologist Washington Hospital Center MedStar Health DC/ Secretary DC Society of Anesthesiologists	Reports having worked with CAAs for 15 years. Notes hospital is a Level I trauma center. She reports specializing in Regional Anesthesia and supporting the ACT model. She works with CAAs and CRNAs on all shifts and reports seeing no difference in the level of care provided by each. States that CRNAs wish to obstruct CAA practice for economic reasons. States further that CAAs will enhance the relationship between anesthesiologists and mid-level providers, indirectly facilitate CRNAs to comply with the ACT model, and ultimately benefit the quality of care in Va.
149	Zain Asif Student – 1 st year Virginia resident	Provides personal background and speaks to rotation in all surgical areas. Seeks to practice in Va.
150	Williams Mullen Packet	 Packet contains: AA Talking Points (AAAA) AA Training and Education Fact Sheet (AAAA) AAAA Practice Map (AAAA) Comparison of AA and CRNA Training Practice (AAAA) AAAA FAQs (AAAA) Statement Comparing CAA and NA Education and Practice (ASA) CAAs – The Other Anesthetist (Advance Education Solutions) Provider Salary Comparison – NA vs. AA (Advance Education Solutions) CAA Talking Point (VSA)

	COMMENTS OPPOSING AA LICENSURE		
1	Allysa Gilman, BSN, SRNA (CAA Student) Virginia Beach	Cites concern over AAs lack of clinical experience prior to training and competition for anesthesia clinical slots.	
2	Bradley R. Prestidge, MD, MS Oncologist Norfolk	Notes successful use of CRNAs in practice and that their supervision does not require the supervisor to have anesthesia training or be on site in the facility. Indicates that paying another anesthesia provider such as an AA (who may only work under and anesthesiologist) would add additional costs to a surgical procedure. Those costs would be passed on to the patient and could result in decreased access to care.	
3	C. H. Moore, CRNA,	Notes growing surgical case load. Has not experienced CRNA shortage,	

	PhD Chief CRNA VCU Health System	hired 15 in the past year and expects continued recruitment success. If more are needed, suggests class size enlargement rather than new infrastructure. Indicates CAA supervision requirement restricts their potential work settings. In areas where there are no anesthesiologists, such as in many rural hospitals, they cannot work while CRNAs can.
4	Carl M. Block, DDS/ Virginia Family Dentistry & Adjunct Clinical Professor at VCU School of Dentistry	Reports periodontal practice for 26 years, using CRNAs for IV conscious sedation for 25 years. Indicates they are an invaluable asset and provide an affordable level of comfort and safety for patients. Posits that many patients would not have sought potentially lifesaving treatment had it not been for them. Notes the CAA supervision need would entail hiring two anesthesia providers to perform a single procedure. States that AA licensing would not impact access in officebased oral and dental settings.
5	Cary Braun, CRNA Clinical Coordinator Sentara Norfolk General and Sentara Leigh Hospitals in Norfolk	Notes concerns about AA licensure's adverse impact on CRNA students, as there are limited anesthesia clinical training sites now. Notes CRNAs are not permitted to participate in the clinical education of AA students, without risking professional standing in ANA and potentially incurring medico legal liability. With only anesthesiologists permitted to train AAs, staffing model changes would be needed with increase costs to patients and hospitals. Expresses concern over AAs lack of clinical experience prior to training and opines it would necessitate anesthesiologists' physical presence in the OR during training. States their current staffing models are inconsistent with this critical level of supervision. Notes the competition for training slots problem and because many CRNA students obtain employment in the state they are trained, posits it could create a shortage of future CRNAs in Virginia.
6	Cathy A. Harrison, DNAP, MSN, CRNA President/Owner of LCH Anesthesia Services, LLC Midlothian	MCV (1969) graduate. Has administered anesthesia in dental and cosmetic surgeons' offices for 17 years. Notes supervision for CRNA indicated earlier. She is the sole anesthesia provider in facilities where she practices. Notes that AAs must have direct supervision from an anesthesiologist (only) necessitating two providers to deliver anesthesia, increasing surgical costs and making access to anesthesia care more difficult. Notes CRNA education, training, and licensure requirements that include prior hands-on care in critical care settings prepares for independent judgments and performing life-saving actions that must be made in seconds. There may not always be time for the AA to consult an anesthesiologist, thereby creating further risk to the patient.
7	Danny Sandefur, CRNA Clinical Coordinator Hampton	Notes concern over adverse impact to CRNA students due to AA competition for clinical slots. Reports 99% of ORs are staffed by CRNAs. Cites anesthesiologists supervision requirement and CRNA's not being permitted to clinically train AAs. Has concerns over professional standing and medico legal liabilities. Indicates same concerns above as Cary Braun about physician staffing model and the need to provide an anesthesiologist in the OR where the AA student is training. Their current staffing models are inconsistent with this critical level of supervision. Reiterates the competition for training

		slots issue. Also indicates that because many CRNA students obtain employment in the state they are trained, it could create a shortage of
		future CRNAs in Virginia.
8	Donna Ells, CRNA	Expresses concerns over preservation of CRNA professional territory and practice. Notes safe, reliable CRNA have cared for generations, in US, abroad, and especially in underserved areas she posits are deemed unattractive by physicians. Is disturbed and insulted that physicians she works with daily are behind the initiative to replace CRNA practice with AAs. States that if the issue is more physician control, warns that PAs are seeking independent practice. States that anesthesiologists assuming AAs would present less autonomy and economic issues may be dealing with these issues soon. Posits that AAs have less clinical experience, only have a basic non-clinical science degree and 2-year "mini-med school" leading to a master's degree with no patient care experience. States it pales in comparison to CRNA preparation and rigor and that their practice standards are moving toward doctoral level for entry to practice. Concerned over the adverse actions to CRNAs.
9	Eric Stettler, DNAP	As Virginia resident, opposed to AAs practicing here. Believes it would be a disservice to healthcare providers and patients. States he has voiced his concerns with several PACs. Indicates that, based on his studies and experiences, he thinks it would be imprudent to warrant AAs in Commonwealth. Has also made note of this to elected officials.
10	Erin Smoak, CRNA, DNAP, NREMPT-P Richmond	Indicates she cannot speak personally to AA safety, wants to highlight the importance of CRNAs in rural Virginia communities. Notes that rural areas and many dental and outpatient surgical centers lack anesthesiologists and need independent providers. States CRNAs often fill these roles and AAs could not help in this capacity
11	Heather Beus, CAA No address indicated	ODU grad. Same letter as Alysa Gilman
12	Janet L. Setnor, Colonel (Ret), USAFR, NC Chief of Anesthesia/Compliance Officer, Austin-Weston Center Springfield	Recently retired from Air Force after26 years as Aeromedical Evacuation Flight Nurse and CRNA. States that while in service she independently provided anesthesia in stateside medical treatment facilities and in Afghanistan where she was the sole anesthesia provider – closest anesthesia support was hundreds of miles away. States that CRNAs practice independently in all branches with no supervision by anesthesiologist or other physician to administer anesthesia. CRNAs have been main providers of anesthesia care in the military since the Civil War. States is it not unusual for CRNAs to be the sole provider on the front lines. CRNAs provide independent anesthesia care in all four military hospitals in Virginia. Notes the license of AA will NOT have a positive impact on access to care in Virginia's military treatment facilities because AAs cannot work as independent providers. Opines that for every 2-4 hired, one less anesthesiologist would be available to provide care because the anesthesiologist would fall to a supervisory role. States that all anesthesia providers must be independent providers and maintain

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		readiness to individually deploy at a moment's notice. States that the frequency of deployments demands the ability to practice independently to save lives. Counters a comment made at the June 27, 2017 public hearing – that CRNAs were given independence because the military population tends to be younger and healthier. VANA vehemently opposes. States that although recruits are young and free of major medical conditions, soldiers do have limbs blown off, life threatening chest wounds, traumatic brain injuries and complications due to infections encountered in remote locales around the world, and have no exemption from infirmities of the general population. States that civilian anesthesia providers restrict their practices to small geographic areas and during normal hours, military providers practice around the globe and clock. They also care of indigenous populations who live in primitive and unhealthy circumstances where health care is almost non-existent and lifespans short. Stateside, they also care for warrior's families and aged veterans, some of whom served prior to World War II. Their population of patients is not all young or healthy. Considers scope of practice restrictions at the state and facility level as arbitrary and preventing CRNAs from practicing to the full extent of education and training. Concludes the addition of AAs, who must have a supervising anesthesiologist, will inevitably lead to increases in costs to the patient, the facility, and the Commonwealth and not improve access to care.
13	Jeannette Filpi, PT, MHA Pioneer Community Hospital of Patrick Stuart	Notes hers is a Critical Access Hospital in SW Va. Anesthesia coverage is solely provided by CRNAs. Notes other rural jurisdictions also have CRNAs as sole providers. Opines that because AAs must practice under an anesthesiologists direct supervision, it seems unlikely that AA licensure would benefit. Expects that surgical costs would increase in settings with AAs given two, rather than one, provider would be seeking reimbursement and the additional cost would be passed on to patients and payers and leaving the hospital hoping that payments would be made and costs covered. Indicates that additional costs would result in increased uncompensated care, increased bad debt, and likely decreased access to care.
14	Jeffrey R. Leidy, DMD, FAGD Virginia Beach	General dentist with moderate sedation certification. Notes practice for 32 years. Performs a variety of dental procedures in an in-office setting, and CRNAs and anesthesiologists provide sedation services. States it does not make financial sense for his practice to hire two anesthesia providers for a single procedure. So, licensing of AAs would have no impact on access to office-based dental settings. Notes proponents espousing a benefit of improving dental access to care are mistaken.
15	Jenny S. Finck, BSN, RN, CCRN Chesapeake	ODU grad. Details own educational background and experience in cardiac surgery step-down and CCU, then electrophysiology and sedation nurse. Worked with CRNAs decided to pursue CRNA – resumed education to get bachelors and worked 2+ years before entering ODU's program. She is a Student Registered Nurse

		Anesthetist currently. Concerned about AAs lack of clinical experience
		before entering their education program. Cites importance of
		proactive and preventive care as well as reactive. Notes finite clinical
		slots and competition AAs would add. States that anesthesiologists
		and other medical residents needing intubation training are given
		priority over SRNAs.
16	Jim Hale	State he is strongly opposed to AAs as they are "undertrained and
	Constituent	dangerous."
17	John L. Clements, DPM	Podiatrist at Critical Access Hospital in Stuart. Been in practice in rural
	Moneta	Va. for 40 years. Has experience with anesthesiologists and CRNAs
		and has seen no difference in performance or outcomes. However, he
		finds patients are more satisfied with CNRA's "patient and
		personable" approach. Because of AA supervision need, states it does
		not make financial sense for his practice to hire two anesthesia
		providers to perform a single procedure. Indicates cost of anesthesia
		care would increase dramatically while doing nothing to promote
		access to care. Further states it may limit access to care because it
		would make surgical services too expensive for rural hospitals to
		maintain. Concludes licensing AAs would have no positive impact and
		may have a detrimental one to his hospital-based podiatry settings.
18	Joseph L. Koen, MD,	Notes distinction between CRNA and AA supervision as above and
	FAANS	that CRNAs are often sole anesthesia provider, especially in rural
	Neurological	areas. Indicates that CRNA programs prepare for autonomous
	Specialists, Inc.	practice, but AA program prepare to assist only. States the
	Norfolk	AA/anesthesiologist model is inflexible and fails to adequately meet
		the needs of patients, hospitals, ambulatory surgery centers, or other
		healthcare settings because practice is contingent on the
		anesthesiologist's availability. Notes CRNAs practice in every setting in
		which anesthesia is delivered and is recognized in all states and DC.
		Reports that only 13 states and DC authorize AA practice and that KY
		requires PA-AA. Indicates that AA quality is unproven with no
		research on AA anesthesia safety. States CRNAs safety has been
		repeatedly demonstrated in peer-reviewed studies and publications in
		prominent journals. States unlike for CRNAs, CMS prohibits AAs from
		billing for non-medically directed services (billing code QZ).
		Reimbursement requires medical direction. Opines that this confirms
		what CMS knows about educational preparation and service and AAs
		and CRNAs are not the same. Notes paying for two anesthesia
		providers would add costs to the surgical procedure, that would be
		passed on to the patients and could decrease access to care. States
		that as a neurosurgeon, he performs surgeries that range from small
		outpatient to complex intracranial and spinal operations and relies
		upon the critical care in nursing CRNAs have. He does not what that
		care to be compromised.
19	Joshua Rieke, MSN,	Notes concern over competition for training slots and that all his
	CRNA	hospitals' ORs are staffed by CRNAs without anesthesiologists. States
	Southampton	that many rural hospitals like his fully utilize CRNAs due to the
	Memorial Hospital	economic advantage of hiring one provider per operating area. Notes
<u></u>	ivieilioliai nospitai	economic advantage of mining one provider per operating area. Notes

	Franklin, resident of Chesapeake	the prohibition against CRNAs participating in AA clinical training. Opines that the anesthesiologist/AA model would dramatically increase costs to patients and hospitals. Expresses concern that many AAs have no prior healthcare or clinical experience suggesting the anesthesiologist would need to be present in the OR where the student is training. Same statement made by other commenters about students becoming employed in state in which they train and competing for slots feasibly creating shortage of future CRNAs in Va.
20	Judith Ricketts, CRNA, MSN Clinical Coordinator Childrens Hospitals of the Kings Daughters Norfolk	States issues indicated earlier, limited slots, CRNAs not being able participate in clinical education of AAs, AA/anesthesiologist two provider costs, same statement about students becoming employed where they train and completing slots affecting future CRNAs in Va., potentially creating a shortage.
21	Karen J. Spencer CEO Virginia Surgery Center Norfolk	Her ambulatory ophthalmology-only center serves a large geographic region, with over 8000 patients per year. Worked successfully with CRNAs. Indicates the costs of two anesthesia providers due to AA anesthesiologist supervision requirement would be prohibitive.
22	Keith Berger, MD (Gastroenterologist/ Internist) Ctr. Health & Cancer Prevention Va. Beach	Notes his endoscopy center and that Propofol and CRNAs have dramatically improved safety, quality, and patient compliance. States his center performs screening and diagnostic colonoscopies and endoscopies for 1500 patients per year. Indicates the requirement for two providers due to the requirement for anesthesiologist supervision would not improve availability or cost, especially not for GI officebased procedures.
23	Lauren K. Murphy, BSN, RN, SRNA	ODU student. As in previous comments, she expressed concern over AA lack of clinical experience and competition for training slots
24	Lawrence B. Cohen, MD Norfolk Plastic Surgery on behalf of Care Cajares, CRNA	States confidence in CRNAs and expresses concern over paying for two anesthesia providers to accommodate supervision which would add costs to surgical procedures that would be passed on to patients and could decrease access to care.
25	Linda E. Ferro, CRNA Va. Beach	States she is an independent contractor in endoscopy in Va. Beach and in ophthalmology in Norfolk. Noted concern over paying for two anesthesia providers, with costs passed on to patients and potential decreased access to care.
26	Macon McClease CRNA Student	Cites concern over AA's lack of clinical experience, competition for slots and its potential for creating a CRNA shortage.
27	Maria Hirsch, BSN, MS, DNAP, CRNA Director, Carillion Professional Services Carilion Clinic Roanoke	Reports her facility employs approximately 50 CRNAs. They staff two Critical Access Hospitals (CAHs)and a third rural hospital with CRNAs who are the sole providers. They also have two larger hospitals with anesthesiologists practicing alone or in collaboration with CRNAs. Notes that staffing models are determined by efficiencies or independent physician group contracts. States that CRNAs are sole providers at their difficult-to-staff CAHs due to rural location and high call assignment. Notes vacancies at these facilities are hard to fill and can take up to a year to recruit with a CRNA. Notes these facilities

		cannot afford to pay an anesthesiologist salary and opines that licensing AAs would not help fill the need for staff at rural facilities where there are no anesthesiologists to "medically direct." She states that when emergencies arise, CRNAs can be supervised by surgeons and other doctors, but AAs could not. She expressed concern over introducing AAs into a complex staffing model because it would generate the need to discriminate between the type of anesthesia provider being utilized at any one time in order to comply with regulatory and billing requirements. Contends that the AA's inability to practice independently could put patients at risk when chaotic staffing exists during emergencies and resources are scarce. Indicates licensing AAs would not help with staffing or improve access to care within Carilion Clinic. States CRNA safety is proven, while AA safety is not. Reports that Introducing a third type of provider would be a potential detriment to patients when it is not needed.
28	Mark S. Sorin, DDS	States he is writing on behalf of the dental profession. Notes he has
	Va. Beach	practiced 40+ years, over 30 in pediatrics. Experienced in OR with anesthesiologists, CRNAs and dental anesthesiologists. Notes the additional cost of anesthesiologist to supervise an AA would add costs to a surgical procedure that would be passed on to patients and could decrease access.
29	Michael D. Fallacaro,	Notes school's history (1969) (see also Public Hearing comments).
	DNS, CRNA, FAAN Professor/Chair Dept. of Nurse Anesthesia - VC	Reports that majority of graduates take employment in the region from which they are recruited and educated. Cites statistics on 50 clinical sites over five states and describes affiliate sites in Abingdon, Roanoke, Alexandria, and Richmond. Speaks to the need for adequate volume and types of cases for certification and that AAs taking slots would adversely affect SRNAs. Notes that CAAs cannot educate SRNAs in the clinical areas and that CAAs employed clinical affiliates would reduce the number of training cases available for SRNAs. Notes expansion of the VCU doctoral program with 44-48 students expected for Jan. 2018. Contends that introduction of a third anesthesia provider is not needed, would harm other state university supported anesthesia training programs, reduce the availability of finite clinical resources, reduce the number of clinical instructors, and potentially impact the Commonwealth's ability to support the training of qualified anesthesia providers who support medically underserved regions, including the coalfields of Appalachia. Offers that existing CRNAs may view this as threatening their livelihood which could result in unrest, political disharmony, and unintended consequences that may impact quality patient care access. Reports, that if workforce shortages arise, VCU's CRNA program is prepared address the issue by working with clinical partners across the state.
30	Michael W. Jackson, MSNA, CRNA Southampton Memorial Hospital Franklin, resident of	See #19, Joshua Rieke's comments.
1	rrankini, resident or	

	Suffolk	
31	Nancy Harrison, MSNA, CRNA	States there is no need for additional anesthesia provider as scopes would be indistinguishable from CRNAs, with no patient benefits, but additional economic costs.
32	Nathaniel M. Aprov, MHS, MSN, PhD, CRNA Director, Nurse Anesthesia Program ODU School of Nursing	Reports ODU been educating CRNAs for >20 years and have provided nearly all practitioners for Hampton Roads area. Indicated ODU historically has accepted 10-15 students yearly and would accept more but are limited by available training slots, not qualified students. States they have increased slots recently to 17 this year and are approved for 19 in the future. Contends that licensing AA makes little fiscal sense. Cites lack of track record and inability to work independently and their competition for training slots adversely affecting SRNAs. Expressed concern that AAs are a heterogeneous group of learners with most having no experience caring for the ill. He reiterates the potential negative impact on nurse anesthesia training in Virginia.
33	Paul E. Pellini, MSNA, CRNA Southampton Memorial Hospital Franklin	Same comments in #19 and #30.
34	Raymond Lindsay, CRNA	States that with 900 anesthesiologists and 1900 CRNAs in Virginia, the proposal appears to be solution in search of a problem. References existing regulatory restrictions on CRNA practice and the Institute of Medicine's recommendations for nurses to be permitted to work to their level of education and training. Notes the proposed class of provider would have even further authority restrictions than CRNAs.
35	Richard Hartle, MD Gastroenterologist Tidewater Physician Multispecialty Group Williamsburg	States his practice chooses a CRNA-only model. They perform endoscopies and colonoscopies from Williamsburg to Va. Beach. Practice also does bronchoscopies, and urological and gynecological procedures. Notes it is not uncommon for the CRNA to be the sole anesthesia provider in a facility such as his and facilities in rural jurisdictions in Tidewater and Richmond. Cites concerns with increased cost of anesthesiologist supervision for AAs, passed on patient costs and potential decreased access to care.
36	Robert H. Schnarrs, MD, FACS Hague Center for Cosmetic and Plastic Surgery	Reports his practice has contracted with independent CRNAs since inception in 1999. Happy with CRNAs. They also provide services with anesthesiologists and CRNAs at a number of local hospitals and surgical centers. Notes it is not uncommon for CRNAs to be the only anesthesia provider in rural and other areas. Indicates that licensure would not improve or alter the current level of care provided patients.
37	Samuel Smith, CRNA	CRNAs can practice independently. AAs education program would have a severe impact on our ability to train CRNAs. AAs cannot practice in the military. The "need" projected for AA's by ASA and VSA is merely a 'money grab" slyly disguised as a "patient access" issue. Cannot compare AA and CRNA care, but licensing AA's to practice in Va. will place Virginians at risk from substandard

		anesthesia care.
38	Sara A. Rolfes SRNA ODU Portsmouth	Cites personal background in healthcare prior to RNA program. Concerned about training slot competition
39	Theodore W. Uroskie, Jr., MD of behalf of Caren Cajares, CRNA Norfolk Plastic Surgery	See same letter from Lawrence Cohen (#24) supporting CRNAs and the issue of cost for two providers with CAAs due to anesthesiologist supervision requirement.
40	Thomas Corey Davis, PhD, CRNA	Expresses concerned over CRNAs currently employed within the Commonwealth. Responsible for 50 clinical sites. Posits CAA licensure would jeopardize VCU's program, may cause them to have to reduce enrollment. Also, responds as follows to points raised by supporters of CAA licensure during the June 27 Public Hearing: States there are differences between CRNAs and AAS (education, training, examinations, etc.) Speaker from Williamsburg said it was difficult to hire CRNAs., but went on to hire 25 in 12 months. The practice had been an MD-only practice and moved to Anesthesia Team. Noted that they may have only needed 7 anesthesiologists not 25. If the group retained all of their anesthesiologists, he states he sees why the cost is high, but the problem isn't CRNA salaries. Notes in general that one group of employers may have a significant need, while another none. States that it appears that differences in salary and benefits, coupled with the "unit culture" of a particular group has more to do with availability of employment than availability of applicants. Reiterates that CRNAs are often sole providers, cannot be supervised by AA, and that 86% of graduates remain in the region in which they were educated. Contends that the problem is not a lack of qualified SRNA applicants, but lack of clinical sites. Reports there being 30 student applying from Northern Va. with seven placements but only one clinical site in Fairfax. Indicates that AAs would be damaging by competing for training slots and unlikely service in underserved areas.
41	Thomas J. Joly, MD, PhD Ophthalmic Plastic Surgery Virginia Eye Consultants, Eastern Va. Medical School	Notes working successfully with CRNAs under his and other doctor's supervisions including an anesthesiologist, or independently. Concerned about the cost of two anesthesia providers due to the requirement for CAAs to be supervised only by anesthesiologists.
42	Virginia Association of Nurse Anesthetists	Reports representing over1900 CRNAs, many of whom serve as the primary providers in rural surgical facilities, including hospitals and dental offices. Describes numerous costs and negative impacts of licensing a third anesthesia provider, especially on existing providers

		and patients. Opines that CAA licensure will not increase access or reduce costs. Indicates further that there is no evidence of a shortage of anesthesia providers. Express concern over impact on existing CRNA provider jobs and limitation on competition by having the anesthesiologist in control of AA education, accreditation, payment, and employment of anesthesia delivery. Cites concerns over training slot competition and the CAA's relative lack of patient care experience.
43	McGuire Woods Packet	Original packet available prior to Public Hearing.

LIST OF ACRONYMS

AAAA - American Academy of Anesthesiologist Assistants

AA/CAA – Anesthesiologist Assistant/Certified Anesthesiologist Assistant

ABA – American Board of Anesthesiology

ACGME – Accreditation Council for Graduate Medical Education

AHRF – Area Health Resource File

APRN - Advanced Practice Registered Nurse

ARC-AA – Accreditation Review Committee for Anesthesiologist Assistant

ASA – American Society of Anesthesiologists

BLS - Bureau of Labor Statistics of the U.S. Department of Labor

CAAHEP - Commission on Accreditation of Allied Health Education Programs

CAHEA - Committee on Allied Health Education and Accreditation

CEAA - Certifying Examination for Anesthesiologist Assistant

COA – Council on Accreditation of Nurse Anesthesia Education Programs

DHP HWDC - Virginia Department of Health Professions Healthcare Workforce Data Center

GRE - Graduate Record Examination

HRSA – Heath Resources and Services Administration of the U.S. Department of Health and Human Services

HWSM - Health Workforce Simulation Model

LMI – Labor Market Information

MCAT – Medical College Admission Test

NBCRNA – National Board of Certification and Recertification for Nurse Anesthetists

NCCAA – National Commission for Certification of Anesthesiologist Assistants

NCCAA CERT - Certifying Examination for Anesthesiologist Assistants

NCCAA CDQ – Continued Demonstration of Qualifications of Anesthesiologist Assistants

NCCPA – National Commission on Certification of Physician Assistants

NP - Nurse Practitioner

NPI - National Provider Identifier

PA – Physician Assistant