

# ANESTHESIOLOGY

*"Learning is not attained by chance, it must be sought for with ardor and diligence."  
- Abigail Adams*



## Program Snapshot:

*Location:* Portsmouth, VA  
*Residents:* 20+: 6 per clinical anesthesia year (CA1-3), 2+ categorical interns  
*Staff:* 24 (20 Active Duty)  
*Annual Case Volume:* Approx 8,000 OR cases, 500 non-OR cases, 2,800 deliveries  
*NMCP Surgical Specialties:* General, Trauma, ENT, Urology, Orthopedics, Plastics, Neuro, Thoracic, Pediatric, Gynecology, Vascular, Surgical Oncology  
*Outside rotations:* University of Virginia, Carilion Medical Center, Cooper University, Children's Hospital of the King's Daughters, Sentara Norfolk Hospital  
*Additional resources:* Our program provides an annual subscription for an anesthesiology question bank and funds the American Society of Anesthesiologists Point of Care Ultrasound (POCUS) certification course.



## About the Faculty:

The Anesthesiology Department at NMCP boasts a faculty with a broad range of clinical, operational, and leadership experience who provide comprehensive care to our patients and high quality training to our residents. Some noteworthy accomplishments:

*Clinical:* 11 fellowships, 7 Master/Associate Master clinicians, 18 USUHS professorships, several grants and peer-reviewed publications.

*Operational:* Since 2019, 14 deployments and 3 Officer-in-Charge billets.

*Leadership:* Positions with command committees on ethics, pharmaceuticals, healthcare business, diversity, clinical learning environment, institutional review board, and more. Staff with former XO/CO experience.



## About the Program:

Training in Clinical Anesthesia consists of three years (CA-1, 2, 3). The Clinical Anesthesia Phase must be preceded by one year of Clinical Base training (CB). The CB year can be any internship (e.g. internal medicine, surgery, transitional, emergency medicine, etc.) but must include at least 1 month of emergency medicine, 1 month of ICU, and 6 or more months of inpatient medicine. Board certification requires 4 steps: 1) pass the American Board of Anesthesiology (ABA) Basic Exam at the end of CA-1 year, 2) graduate residency, 3) pass the ABA Advanced exam after graduation, 4) pass the ABA Applied (oral board and OSCE) exam. All graduating residents are expected to function as consultant anesthesiologists and gain board certification at the earliest opportunity.

Training includes: exposure to adequate patient numbers and case mix, robust didactic lecture series, simulation, case conferences, morbidity and mortality reviews, clinical teaching, and involvement in basic and clinical research. The most important means, however, is serious, individual, goal-directed study.

During your training, you will complete outside rotations in Trauma at Cooper University, Cardiothoracic at UVA and Carilion Medical Center, Neuro at UVA, ICU at UVA and Sentara Norfolk General, and Pediatrics at Children's Hospital of the King's Daughters.

Upon graduation, you will be expected to be an expert perioperative consultant capable of providing safe care anywhere in the United States. Additionally, you will be expected to understand operational and austere medicine so you are capable of practicing the nuances of military anesthesiology. This additional competency sets military programs apart from our civilian counterparts.

The CA-1 year is spent in clinical anesthesia nearly exclusively at Naval Medical Center Portsmouth. During the first six months, you are closely supervised and introduced to the basics of anesthesiology with the goal of mastering planning, preparation, and execution of routine cases. During the Spring months, you gain subspecialty experience in pediatrics, pain medicine, neuroanesthesia, critical care, and obstetric anesthesia.

The CA-2 year is spent in clinical anesthesia at Naval Medical Center Portsmouth and at affiliated hospitals. All types of anesthesia will be performed with a certain degree of independence but always with a staff anesthesiologist immediately available for advice and consultation. Outside rotations include 3 months at UVA and 2 months at CHKD.

The CA-3 year is tailored to your interests and specific clinical learning needs, arranged by the resident with the advice and approval of the Program Director, within the framework established by the American Board of Anesthesiology. Outside rotations include 2 months at Cooper University and 1 month at Carilion Memorial Hospital.

ANESTHESIOLOGY PROGRAM:

Anesthesiology Program Aims

- 1. Graduate military anesthesiologists who excel clinically in the perioperative management of patients across the spectrum of age, physiology, and surgical subspecialties and who are prepared to practice safe and skilled anesthetic care for the public.
- 2. Graduate military anesthesiologists who are equipped to provide outstanding care in forward-deployed, austere environments and who are military anesthesia subject matter experts.
- 3. Produce graduates who are expert perioperative consultants, skilled in understanding and communicating patient-centered issues to patients, family members, physicians, and non-physician healthcare providers.
- 4. Develop residents as crisis-managers, capable of delivering expert care in the context of serious or life-threatening pathology.
- 5. Emphasize development of residents as future military leaders and role models for professionalism, accountability, and dependability.
- 6. Foster an environment of scientific inquiry and scholarly activity. Graduates will understand basic tenants of research design and study interpretation, and application of scientific literature to patient care. Graduates will achieve satisfactory performance on the annual In-Training Exam and pass the ABA Basic exam.
- 7. Develop leaders in quality and patient safety. Graduates will be equipped with the skills to improve all aspects of patient care at the department level and beyond.
- 8. Foster a learning environment in which expert mentorship and critical self-reflection allow learners to experience both professional growth and personal well-being.

Anesthesiology Staff:

**Staff Anesthesiologists**  
LCDR Jacob Cole, MD  
LCDR Gregory Booth, MD  
LCDR Anthony Bradley, MD  
CDR Stephen Bronaugh, MD  
CDR Philip Geiger, MD  
LCDR Matt Haldeman, MD  
LCDR Marcus Herod, MD  
LCDR Maureen Higgs, MD  
LCDR Anna Hosig, DO  
LCDR Mark Hubbard, MD  
CDR Michael Lee, MD  
CAPT Jason Longwell, MD  
CDR Kathleen McDonald, DO  
CDR Jeffrey Moore, DO  
LT Sherrie Moore, MD  
CDR Robert O'Donnell, MD  
LCDR Elizabeth Slama, MD  
CAPT Eric Stedje-Larsen, MD  
CDR David Trowbridge, MD  
LT Dan Zink, MD  
Jennifer Adams, M.D.  
Craig Bonnema, M.D.  
Maureen McClenahan, M.D.



**Chairman**  
CAPT Jason Longwell, MD

**Vice Chairman**  
CDR Maureen Higgs, MD

**Administrative Officer/Chief CRNA**  
CDR Shane Lawson, CRNA

**Program Director**  
LCDR Gregory Booth, MD

**Assistant Program Director**  
LCDR Elizabeth Slama, MD  
LCDR Matt Haldeman, MD

**Pain Management Fellowship Program Director**  
CAPT Eric Stedje-Larsen, MD

**Rotation Coordinator**  
LCDR Anna Hosig, DO

**Acute Pain Service**  
LT Sherrie Moore, MD

**Pediatric Anesthesia**  
LCDR Mark Hubbard, MD

**Cardiovascular Anesthesia**  
CDR Philip Geiger, MD

**Neuro Anesthesia**  
LT Dan Zink, MD

**Obstetrical Anesthesia**  
Jennifer Adams, MD  
Maria Grauerholz, MD

**Operational Medicine**  
CDR Shane Lawson, CRNA

**Pain Management**  
CAPT Eric Stedjelarsen, MD  
CDR Jeff Moore, DO  
Maurren McClenahan, MD

**Preoperative Assessment Clinic**  
Craig Bonnema, MD

**Research Coordinator**  
LCDR Gregory Booth, MD

**Performance Improvement Coordinator**  
LCDR Elizabeth Slama, MD

**Education Committee Chairman**  
CDR Jeff Moore, DO

THE HOSPITAL:

Naval Medical Center Portsmouth

Naval Medical Center Portsmouth occupies a 112-acre site along the Elizabeth River in downtown Portsmouth, Virginia. It is located on the original site of Fort Nelson which was built in 1776 to provide harbor defense for Norfolk and Portsmouth. In 1827 construction began on the Naval Hospital, and by July 1830 a portion of Building One was occupied. Naval Medical Center, Portsmouth has provided continuous care since that time and remains the oldest hospital in the U.S. Navy.

In 1960 Building 215 was constructed to accommodate the ever-increasing demands of the Naval Medical Center. As the military establishment grew, Naval Medical Center Portsmouth became the major military medical facility serving active duty Navy, Marine Corps, Army, Air Force, and Coast Guard, their families, retired personnel, their dependents and other beneficiaries authorized treatment in uniformed services clinics and hospitals.

The Naval Medical Center expanded in 1999 to include a 1.02 million square foot facility with nearly all surgical subspecialties. The center contains over 300 clinical exam rooms, 140 specialty exam rooms and 17 operating rooms. In addition, the base features a research facility equipped for animal research projects, a mini mall with a Navy Exchange, banking services, galley and fast food operations, Olympic size pool, state-of-the-art gyms, MWR services and library.

How to apply and interview:

Interviews:  
Please contact our residency coordinator (see below) to schedule an interview between July 1 and September 30 of your application cycle.

Rotations:  
Interested USUHS, HPSP and HSCP students are encouraged to spend time on our service and should coordinate a rotation by contacting our Student Coordinators in GME.  
USUHS Student Coordinator:

Rachel Darling 757-953-3677  
rachel.k.darling.civ@mail.mil

Program Director:  
LCDR Gregory Booth  
gregory.j.booth5.mil@mail.mil

Residency Coordinator:  
Ms. Dora Breaux 757-953-3270  
dora.c.breaux.civ@mail.mil

Department of Anesthesiology 620 John Paul Jones Circle Naval Medical Center Portsmouth, Virginia 23708-2197 757-953-2518



# Living in the area.

## *Quality of life.*

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Naval Medical Center Portsmouth is located on the banks of the Elizabeth River in the historic and diverse community of Hampton Roads. Portsmouth is centrally located between the resort city of Virginia Beach, the vibrant downtown of Norfolk, suburban life in Chesapeake, the more rural Suffolk, and the peninsula communities of Hampton and Newport News. All are located no more than 20-30 minutes from Portsmouth!

This region is one of the most popular vacation sites on the East Coast. Miles of beautiful beaches are minutes away in Virginia Beach. Outdoor and environmental enthusiasts will love the ecologically diverse Chesapeake Bay and its inland waterways that transect the entire region. The historic triangle of Williamsburg, Jamestown, and Yorktown boast some of the most significant historical attractions in the country. Busch Gardens and Water Country USA are only 45 minutes away. The watersport paradise of North Carolina's Outer Banks is just an hour away. The eastern shore and its famous islands of Chincoteague and Assateague are only 90 minutes north. Skiing and mountain activities are only 3 hours away, as is Washington D.C. and all it has to offer.

The Hampton Roads area boasts world-class theater, opera, Broadway shows, concerts, and a symphony. Museum enthusiasts will love Nauticus in downtown Norfolk, the Battleship Wisconsin, the Virginia Air and Space museum (adjacent to the Langley NASA research center), the Chrysler Museum of Art, the Norfolk Botanical Gardens, the Norfolk Zoo, as well as the Virginia Aquarium, one of the largest and top rated Aquariums on the east coast. Sports are well represented by Triple-A baseball's Norfolk Tides (who play in Harbor Park, voted the best minor league baseball stadium in the country) and AHL Hockey's Norfolk Admirals. Runners and triathletes will enjoy the multitude of world class races in the area, including the Rock 'n Roll Half Marathon (held at the Oceanfront during the American Music Festival, which is the largest outdoor music festival on the east coast), as well as the St. Patrick's Day Shamrock Sportsfest.