

**George Washington University
Department of Anesthesiology and Critical Care Medicine
Clinical Clerkship for Medical Students and Residents
(Revised August 2014)**

**You are responsible for the information contained in this handout, this includes all of the paperwork requirements, attendance, evaluation and anything else included herein.
Failure to do so may result in a delay or diminution in your grade.**

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Course Objectives

Goals and Objectives and the relevant course syllabus (Anesthesia 302 or 380) are attached.

Evaluation

Basic Requirements

Requirements for passing the rotation include:

1. Attend all required lectures and conferences
2. Demonstrate clinical and technical competence by performing the activities outlined on the attached form *Student Technical Skill Checklist and Topics*.
3. Pass the written examination
4. Present and participate in the discussion at the student case roundtable
5. Obtain a completed Clerkship Medical Student Evaluation (two for Anes 302 and four for Anes 380 students) from the teaching faculty
6. Obtain a completed Anesthesiology Clerkship Encounter form at mid-rotation from the teaching faculty
7. Complete the course evaluation

Final Grade

The clinical rotation is 60% of your final grade. This is based on daily performance and attendance. The evaluation is a compilation of the individual evaluation forms submitted by the teaching faculty you are assigned to work with.

Final examination is divided into Written Examination, which is 30% of your final grade and Oral Case Presentation, which is 10% of your final grade.

Written examination

Multiple choice examination is 30 questions weighing one point each. This is established to test your knowledge of the didactics from the assigned text, formal lectures, and informal sessions.

Presentation

The presentation is an anesthesia-related case (302) / topic (380). The latter is graded *Fail/Pass/High Pass/Honors*.

Honors Requirements

To receive a grade of *Honors* students must complete the basic requirements and:

1. Pass the written examination with a score of *Honors* (score ≥ 27 out of 30 questions),
2. Complete a **case** (302) / **topic** (380) presentation, reflecting *Honors* quality and
3. Receive clinical evaluations from the anesthesia staff demonstrating consistent *Honors* level performance.

High Pass Requirements

To receive a grade of *High Pass*, students must complete the basic requirements and:

1. Pass the written exam with a score of *High Pass* (score 24-26 out of 30 questions),
2. Complete a **case** (302) / **topic** (380) presentation, reflecting *High Pass* quality and

3. Receive clinical evaluations from the anesthesia staff demonstrating *High Pass* level performance.

Pass Requirements

To receive a grade of *Pass*, students must complete the basic requirements and:

1. Pass the written exam with a score of *Pass* score (score 16-23 out of 30 questions),
2. Complete a **case** (302) / **topic** (380) presentation, and
3. Receive clinical evaluations from the anesthesia staff demonstrating *Pass* level performance.

Low Pass or Fail will require remediation.

Attendance

Students are expected to be present every day of their assigned rotation. Exceptions are made under the rarest circumstances. Under no circumstance will an exception be made on the last day of the rotation when students will be taking exams and giving presentations.

The schedule of lectures is based on anticipated OR scheduling and staffing and may change at the last moment.
Examination is scheduled on the last day of the clerkship. The formal presentations and roundtable discussion are followed by the written examination.

George Washington University Hospital Rotation

Daily Activities

See attached handout for Rotation Structure

Paperwork

Each student should give an evaluation form to the attending, resident, and/or CRNA (f at the VA) they are assigned to work with. These forms are available on the E-value packet you received before orientation and can also be accessed through the departmental website. The evaluations students receive on the form serve as the basis for the clinical component of their grade.

It is your responsibility to procure completed evaluation forms, *Anesthesiology Clerkship Encounter Form*, and *Student Technical Skill Checklist*, and *Anesthesia Discussion Topics Form* before sitting for your written examination. **You will not be allowed to take the written examination without the completed forms!**

The attached *Technical Skill Checklist* and *Anesthesia Discussion Topics* form should be completed daily. You can use this list to complete your required clinical procedures on E-value system. The attached *Anesthesiology Clerkship Encounter Form* should be completed mid-rotation (beginning of 2nd week for ANES 302 and beginning of 3rd week for ANES 380) and must be signed off by an attending.

At mid-rotation you can elect to meet with the clerkship director to review your progress.

Veterans Administration Hospital Rotation

Veterans Administration Contact

Ms. Petway (Coordinator)

2nd floor in room 2A155

(202-745-8000) Ext: 58295

In order to provide adequate clinical opportunities to the medical students during their anesthesiology clerkship, the department has made arrangements with the Veterans Administration Hospital for students to rotate there. This rotation is available to third or fourth year medical students doing a two-week rotation only. Assignments are generated on a first come first-serve basis and the department will not change the assignments. If no student request to rotate at the VA, one or more will be assigned.

Students rotating at the VA will attend the introductory lectures given by the Department of Anesthesia and Critical Care Medicine at the GWUH campus. In addition, students are required to attend the mandatory lectures at GWUH campus. **Students will return on the last day Friday of the rotation** to take the written examination and present a case at the roundtable. The student's grade will be based on the clinical evaluations from the VAMC and the performance on the final activities.

The VA Department of Anesthesiology has implemented the following policy:

Veteran's Administration Hospital Rules of Conduct for Anesthesia Students

During your rotation:

- You are to remain with your cases.
- If you are not busy with a case, you **MUST** stay in the operating room at the computers learning how to utilize the system to enter cases or remain with the supervisor.
- You are not to enter the physicians' offices and utilize their computers or occupy their chairs. Even if the doctor is out for the day, you are reminded to stay out of their private offices.
- You are to remain in the operating room where the cases are being held. You are to remain under supervision so everyone will know where you are and that you can be accounted for.
- If you leave the operating room, let your supervisor know. There should be no need to have you paged or your location unknown to your supervisor.

Text

The textbook for the course is Basics of Anesthesia (6th edition) by Stoelting and Miller. Copies are available at the Himmelfarb Library. Course material is drawn from the following chapters:

<u>Chapter</u>	<u>Topic</u>
5	Basic Pharmacologic Principles
8	Inhaled Anesthetics
9	Intravenous Anesthetics
10	Opioids
11	Local Anesthetics
12	Neuromuscular Blocking Agents
13	Preoperative Evaluation and Medication
16	Airway Management
39	Acute Postoperative Pain Management
Appendix 1	Basic Standards for Preanesthesia Care
Appendix 2	Standards for Basic Anesthetic Monitoring

The purpose of the above reading is to provide a context and supplement to the clinical experience. It offers a broader informational base than that which can be explained in the operating room.

For a list of drugs to concentrate on in chapters 8 - 12, please consult the syllabus.

Calendar of Activities

Introductory lectures

The introductory lectures occur on the first day of the clerkship starting at 8:00 AM. All students beginning their rotation on that day **must** attend. Those on the four-week rotations need only attend once during their rotation. Those who attended during a previous rotation must still attend at the beginning of each rotation.

Preoperative Evaluation

This lecture introduces you to the preanesthetic evaluation and a synopsis of considerations necessary before the conduct of an anesthetic. Topics include ASA classification, perioperative and cardiac risks.

Pharmacology and Anesthesia

An overview of medications used for anesthesia – this lecture is designed to introduce the relevant agents in the textbook. Topics may include volatile anesthetic agents, induction agents, neuromuscular blocking agents, and narcotics as well as others.

Pulmonary Function and Ventilator Management

This lecture introduces and highlights normal pulmonary physiology and the effects of mechanical ventilation.

Introduction to Acute Pain

This lecture introduces you to basic physiology, assessment and management of acute pain patients.

Introduction to Airway Management

This lecture introduces you to airway anatomy and basic airway management. Topics include mask ventilation, airway adjuncts, endotracheal intubation, and laryngeal mask airway. This includes video demonstration and simulation.

Weekly Conferences

Grand Rounds

Unless otherwise noted, Anesthesia Grand Rounds are held on the second and subsequent Wednesday mornings of the month at 7:00 am in the Washington Room on the lower level of the hospital. Please check the lecture calendar. All residents and students are required to attend. Third year students rotating via the surgical clerkship should attend the Anesthesia Grand Rounds and then proceed with their surgical student day. Note: **The first Wednesday of the month is the departmental faculty meeting** (residents and students do not attend) –**there are no Grand Rounds on that day.**

Residents' Conference

Every Monday and Tuesday from 3:45 – 5:00 pm the anesthesia residents have a topic conference in the Anesthesia Library on the second floor of the hospital. This is required for Anes 380 students. Anes 302 students, both at the GWUH and VAH, are invited to attend.

Chairman's Conference

The chairman's conference is a case-based discussion with the residents, covering a wide range of disease processes and case specific issues. Students rotating for four weeks are encouraged to attend. Those students on a two week rotation are not required to attend, but are welcomed. This is held Thursday mornings in the Anesthesia Library from 6:30 – 7:00 am.

Student Conferences

Clinical Conference

This is a case-based discussion structured around the cases presented in the supplemental brochure, "*Cases for Discussion.*" Attendance is required.

Daily Informal Sessions

These sessions are scheduled based on the daily clinical duties of the anesthesia staff and residents. During the daily clinical duties each student will be taught the usage and application of the basic monitoring during the provision of anesthesia care. These include placement of electrocardiogram leads, blood pressure cuff, pulse oximeter and

administration of appropriate supplemental oxygen. Topics discussed are the practice of anesthesia, professionalism, etc.

Time and place are to be determined

****Please note that conference times and locations are subject to change. You will be notified of any major changes.**

Written Examination

The written exam is on the last day of the rotation (unless scheduled otherwise).

Successful completion of the exam is required to pass the clerkship. Exam questions are multiple choice. Material is drawn from the reading, lectures and operating room experience.

Students will obtain a copy of the exam from the department's clerkship coordinator and must return it within one hour. Please check the rotation schedule for the exact times and location. There are no exceptions. If the student picks up an exam late, they will have less than one hour to complete it. **Cheating (Dishonored behavior) in any form will not be tolerated! It will result in failure of the exam--and therefore failure of the rotation—and a report of the incident will be sent to the Academic Integrity Council for investigation. Please do not place the department in the position of having to fail a student because of cheating. In addition, please refrain from any activity that may give the impression of cheating.**

Roundtable Discussion

On the last Friday of each rotation (unless scheduled otherwise), each student enrolled in Anesthesia 302 is required to make a case presentation. Cases chosen for presentation should be of general interest and highlight issues common to anesthesia (e.g. airway management, coexisting disease states, etc.).

Case presentations should provide a brief description of the following:

- Pertinent history and physical exam
- Anesthetic plan and rationale
- Intra-operative and post-operative course

Topic Presentations

Students enrolled in Anesthesia 380 are required to make a topic presentation.

Presentations should be five to ten minutes long and should cover a relatively narrow topic presented with some depth. Past topics include:

- A specific drug with its indications, contraindications, dosing etc.
- An anesthetic technique (e.g. regional block, rapid sequence induction, etc.)
- A disease process and its anesthetic implications (morbid obesity and anesthesia, asthma, etc.)

Avoid overly broad topics such as one lung ventilation or cardiopulmonary bypass.

Visual aids and/or handouts are encouraged. No guarantee can be made as to the availability of projection equipment.

Please note some of the topics may be selected for our web-site.