

OSS 648  
**Anesthesiology Advanced**

**CLERKSHIP ELECTIVE ROTATION SYLLABUS**

OSTEOPATHIC SURGICAL SPECIALTIES  
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*At Michigan State University College of Osteopathic Medicine (MSUCOM), we are constantly working to improve our curriculum and to meet accreditation guidelines. We need to meet the challenges of modern medicine that force us to innovate. While changes will generally be instituted at the beginning of the school year, changes may also be implemented semester to semester.*

*Please be mindful of the need to read your syllabi before beginning your rotation.*

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## **INTRODUCTION AND OVERVIEW**

This course is designed to provide the student with an opportunity to actively engage in patient-based learning experiences under the guidance of a faculty member in collaboration, as appropriate, with residents and/or fellows. The purpose of this Advanced Anesthesia clerkship is to provide the student with an overview of the clinical specialty.

Rotations are typically two weeks, three credit hours or four weeks, six credit hours in duration. Timeframes for each rotation are decided at least 30-days prior to the beginning of the rotation.

The overall performance of course participants will be evaluated through customary assessment instruments normally employed by the department for core rotations, at the discretion of the instructor of record.

Please note that we have included links to the reading materials. Should the links not work for you, please cut, and paste the link into a browser window and the material should load for you.

This syllabus provides an overview of rotation goals and objectives designed to help you gain an understanding of the breadth and scope of this subject. As you progress through the rotation, you will perform certain activities intended to help you meet the identified goals and objectives. Please make sure to review this syllabus in its entirety to ensure understanding of the rotation format, syllabus content, and MSUCOM expectations.

### **ELECTIVE COURSE SCHEDULING**

#### Preapproval

- This course does not require preapproval from the IOR. The student should follow the below directions for elective course confirmation and enrollment.

#### Required Prerequisites

- This course does not require any prerequisite courses.

#### Course Confirmation and Enrollment

- The student must be an active student at MSUCOM.
- Student must complete five core rotations prior to any elective rotation.
- It is the student's responsibility to provide the elective site/rotation acceptance material to the [COM.Clerkship@msu.edu](mailto:COM.Clerkship@msu.edu) for MSU confirmation and scheduling.
  - MSUCOM clerkship confirmation is complete when the rotation is visible on the students Medtrics schedule.
- It is the student's responsibility to ensure enrollment prior to beginning any course/rotation.
  - Enrollment will be processed by the MSUCOM Registrar's Office upon clerkship confirmation.
  - Enrollment can be verified by the student by reviewing the Student Information System
- MSUCOM confirmation must occur at least 30 days in advance of the rotation.
- Once confirmed, the rotation may only be cancelled 30 days or more in advance of the start date.

## ROTATION FORMAT

This course is designed to provide the student with an opportunity to actively engage in patient-based learning experiences under the guidance of a faculty member in collaboration, as appropriate, with residents and/or fellows. This Elective rotation is a two (2) or four (4) week experience. The purpose of this Advanced Anesthesia clerkship is to provide the student with an overview of the clinical specialty. Advanced Anesthesia clerkship should include exposure to a variety of surgical topics and experiences. Exposure to the topics will be through reading, lectures, seminars, and hands-on experiences.

You can find additional resources at: <http://libguides.lib.msu.edu/medicalebooks>

## **GOALS AND OBJECTIVES**

### GOALS

1. Observe and participate in the evaluation, intra-operative, pre - operative and post - operative management of patients requiring surgery.
2. Demonstrate the ability to appropriately evaluate post-operative care management of patients.
3. Demonstrate the ability to perform and record an osteopathic structural examination on a surgical patient and document such using acceptable osteopathic terminology.
4. Interact with patients and their families in a respectful, sensitive, and ethical manner.
5. Interact with members of the team, patient care units and ambulatory clinic personnel in a respectful, responsible, and professional manner.
6. To review the Entrustable Professional Activities and Osteopathic Core Competencies located on D2L under the Additional Information module.

Clinical education in anesthesiology involves achieving competence in two important areas:

1. Acquisition of a specific body of information/knowledge.
2. Acquisition of the various mechanical (psychomotor) skills associated with anesthesiology.

The acquisition and demonstration of a core set of anesthesia skills is especially relevant to the adequate application of the art and science of anesthesiology. These skills vary in complexity from the insertion of an intravenous line to endotracheal intubation and progress to many increasingly complex diagnosis and therapeutic modalities. Mastery of these skills will often require repetition, in order for students to achieve the requisite skill level and degree of competence required.

### OBJECTIVES

1. Airway Management: You will be expected to perform or assist:
  - Oral endotracheal Intubation
  - MAC blade x2
  - Miller Blade x2
  - LMA intubation x 2
  - Glide scope or Video Assisted Intubation x1.

**Specific Learning Objectives**

- Know the indications/contraindications as well as the mechanics needed relative to Central Line Placement.
2. Arterial Line Placement: Be aware of the indications/contraindication relative to arterial line placement. Participation in the insertion of arterial lines will be at the discretion of the attending anesthesiologist and the Department of Anesthesiology.

**Specific Learning Objectives**

- Be aware of the indications and contraindications relative to arterial line placement.
3. Ultrasound: Be aware of the use(s) of ultrasound in the placement of arterial lines, nerve blocks and central line placement.
4. Central Line Placement: Be aware of the indications/contraindications as well as the mechanic's relative to central line placement. Participation in the insertion of central lines will be at the discretion of the attending anesthesiologist and the Department of Anesthesiology.

**Specific Learning Objectives**

- Be aware/knowledgeable relative to the placement of arterial lines, central venous lines, and the use of ultrasound in the placement/technique of various nerve blocks.

## **COLLEGE PROGRAM OBJECTIVES**

In addition to the above course-specific goals and learning objectives, this clerkship rotation also facilitates student progress in attaining the College Program Objectives. Please refer to the complete list provided on the MSUCOM website (<https://com.msu.edu/>) and in the Student Handbook.

## **REFERENCES**

### REQUIRED STUDY RESOURCES

Desire 2 Learn (D2L): Please find online content for this course in D2L (<https://d2l.msu.edu/>). Once logged in with your MSU Net ID, your course will appear on the D2L landing page. If you do not see your course on the landing page, search for the course with the following criteria, and pin it to your homepage: **OSS 648 Anesthesia Advanced**

If you encounter any issues accessing this D2L course, please email the CA (on the title page of this syllabus). It is your responsibility to make sure you have access to the course D2L page on the first day of the course.

**SUGGESTED STUDY RESOURCES**You can find additional resources at: <http://libguides.lib.msu.edu/medicalebooks>**ROTATION REQUIREMENTS**

| REQUIREMENT   | SUBMISSION METHOD  | DUE DATE<br>Please refer to D2L for actual<br>(month/day) due dates |
|---|--|---|
| Attending Evaluation of Clerkship Student                               | Students must select their attending physician as directed within the rotation description in Medtrics. At the start of the last week of the rotation, students will need to request an evaluation in Medtrics. By requesting an attending evaluation from their assigned attending physician, the attending physician will receive an automated email link connecting them to their assigned Attending Evaluation within Medtrics. Attendings will be able to electronically access and submit the forms on behalf of their students. | Last Day of Rotation  |
| Student Evaluation of Clerkship Rotation                                | Students will submit their rotation evaluations electronically at the conclusion of every rotation by accessing the Medtrics system: <a href="https://msucom.medtricslab.com/users/login/">https://msucom.medtricslab.com/users/login/</a> . By the last week of each rotation, students will receive an automated email link connecting them to their assigned evaluation. Students can also access pending evaluations on the 'Home' or 'Evaluations' tabs within their Medtrics accounts.   | Last Day of Rotation  |
| Student Activity Log  | Submit via D2L   | Last Day of Rotation  |
| Topic Paper   | Submit via D2L   | Last Day of Rotation  |
| Mid Rotation Feedback Form<br><b>Required for 4-week rotations only</b> | Submit via D2L   | By 11:59 PM the 3 <sup>rd</sup> Sunday of the rotation.             |

**WEEKLY READINGS/OBJECTIVES/ASSIGNMENTS**

## A. Airway Management

**Labs/Other Activities**

- VIDEO: Central Venous Catheterization (NEMJ) <https://www.youtube.com/watch?v=HE5QhsPRaPU>
- VIDEO: Placement of a Formal Venous Catheter (NEJM) <https://www.youtube.com/watch?v=HE5QhsPRaPU>
- VIDEO: Peripheral Venous Cannulation <https://www.youtube.com/watch?v=qRWb9CJU0Yk>

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- VIDEO: Central Line Placement (YouTube)  
<https://www.youtube.com/watch?v=PAr4kC5BQbY>

### B. Arterial Line Placement

#### **Labs/Other Activities**

- VIDEO: Placement of Arterial Line (NEJM) <https://www.youtube.com/watch?v=8hK04ai17-k>
- VIDEO: A-Line Insertion (YouTube)  
<https://www.youtube.com/watch?v=x0zzI4VFLa4>

### C. Ultrasound

Be aware of the use(s) of ultrasound in the placement of arterial lines, nerve blocks and central line placement.

### D. Central Line Placement

#### **Labs/Other Activities**

- VIDEO: Ultrasound Guided Peripheral Intravenous Placement (NEJM) <https://www.youtube.com/watch?v=-fduljQ8EH4>
- VIDEO: Ultrasound Guided Internal Jugular Vein Cannulation (NEJM)  
<https://www.nejm.org/doi/full/10.1056/nejmvm0810156>
- VIDEO: Central Line Placement (You Tube)  
[https://www.youtube.com/watch?v=HE5QhsPRaPU&list=PL5JaZVPnPe4a8dW3J\\_rortbLOnzJeb4MG](https://www.youtube.com/watch?v=HE5QhsPRaPU&list=PL5JaZVPnPe4a8dW3J_rortbLOnzJeb4MG)
- VIDEO: A-Line Insertion with Ultrasound (YouTube)  
<https://www.youtube.com/watch?v=YOxyssqgYNE>

## STUDENT ACTIVITY LOGS

Students are required to submit via D2L Dropbox an Activity Log by 11:59 pm on the last day of the rotation. In this log you will need to outline all the Procedures you either assisted or watched, the Primary Diagnosis of each patient seen, all meetings or lectures (including didactics) and all materials you read while on the rotation.

The complete Activity Log can be viewed on the last page of this syllabus or under the Activity Log Module on D2L for this course. The form is the last page of the syllabus. Students will choose one of two topics provided and submit a one-page paper on findings. This will be submitted into D2L in the Activity Log section. Any questions contact Shawna at [oldss@msu.edu](mailto:oldss@msu.edu)

## MID ROTATION FEEDBACK FORM

Students are required to complete the MSUCOM Mid-Rotation Feedback form.

This is not required for a two-week rotation.

Four-week Rotation: This will need to be completed by the Attending or Resident at the end of week two of the rotation. It should be dated no later than the 3<sup>rd</sup> Wednesday of the rotation. Students must upload the form to a D2L drop box by 11:59pm on third Sunday of the clerkship to be eligible to obtain a Pass in the rotation. A grade cannot be entered for the course until all requirements of the course have been met.

## TOPIC PAPER

There are two topics to choose from on the last page of the syllabus. Complete a one-page paper in a word document and submit on the last day of the rotation into the Activity Log drop box. All students to complete, whether you are on a 2- or 4-week rotation.

## ROTATION EVALUATIONS

### Attending Evaluation of Student

Attending Evaluation of the Student is completed electronically via Medtrics by the supervisor designated within the Medtrics rotation description. To initiate this evaluation, each student must select their attending physician as directed within the rotation description in Medtrics. Students will receive an email from Medtrics to select the attending 7 days prior to the end of the rotation. Should your rotation lack a rotation description or if you have any questions, please contact [COM.Clerkship@msu.edu](mailto:COM.Clerkship@msu.edu). Upon selecting the attending physician directed within the Medtrics rotation description, the attending physician will receive an automated email link connecting them to their assigned Attending Evaluation within Medtrics.

Attendings will be able to electronically access and submit the Attending Evaluation of the Student. Attendings will access the electronic form within Medtrics by selecting the email link on a smart device. No login (username/password) will be required for attendings to access their pending evaluation(s) assigned to them. After the electronic form has been submitted by their attending, students can review the Attending Evaluation of the Student that were completed by visiting the 'Evaluations' module (in the 'About Me' tab) of their Medtrics profiles.

Students are encouraged to seek formative/verbal feedback on their performance at least weekly. Students are also encouraged to discuss the Attending Evaluation of the Student with the supervisor completing the evaluation.

Any evidence of tampering or modification while in the possession of the student will be considered "unprofessional behavior" and will be referred to the Committee on Student Evaluation (COSE).

Grades are held until all rotation requirements are received. Students are required to ensure their rotation requirements are completed correctly.

### Student Evaluation of Clerkship Rotation

Students will submit their rotation evaluations electronically at the conclusion of every rotation by accessing the Medtrics system: <https://msucom.medtricslab.com/users/login/>. By the last week of each rotation, students will receive an automated email link connecting them to their assigned evaluation for the respective rotation. Students can also access their pending evaluations on the 'Home' or 'Evaluations' tabs within their Medtrics accounts.

### Unsatisfactory Clinical Performance

The Instructor of Record will review/investigate a student's performance on a rotation when a concern is raised by the supervisor(s), and/or when the Attending Evaluation of Clerkship Student contains any below expectation marks within the professionalism area,



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any unsatisfactory written comments, or a total of two or more below average marks on the evaluation. After investigations, the Instructor of Record will determine a final grade for the student.

Professionalism concerns, as well as accolades, will also be referred to the MSUCOM Spartan Committee Clearinghouse for resolution, per MSUCOM's Common Ground Framework for Professional Conduct.

### CORRECTIVE ACTION

There is no corrective action available for this course.

As determined by the IOR, the student will receive an N grade for the course if all assignments are **not completed** successfully within 14 days after the last day of rotation at 11:59pm (except for the Attending Evaluation). Additionally, a letter of unprofessional behavior for late submission of assignments will be sent to the MSUCOM Spartan Community Clearinghouse.

### BASE HOSPITAL REQUIREMENTS

Students are responsible for completing all additional requirements set by the hospital/clinical site at which they are completing a rotation. Students are not responsible for reporting to MSUCOM the results of any requirements that exist outside of those listed above.

## **STUDENT RESPONSIBILITIES AND EXPECTATIONS**

### STATEMENT OF PROFESSIONALISM

Principles of professionalism are not rules that specify behaviors, but guidelines that provide direction in identifying appropriate conduct. These principles include the safety and welfare of patients, competence in knowledge and skills, responsibility for consequences of actions, professional communication, confidentiality, and lifelong learning for maintenance of professional skills and judgments.

Professionalism and professional ethics are terms that signify certain scholastic, interpersonal and behavioral expectations. Among the characteristics included in this context are the knowledge, competence, demeanor, attitude, appearance, mannerisms, integrity, and morals displayed by the student to faculty, peers, patients, and colleagues in other health care professions. Students are expected to always conduct themselves in a professional manner and to exhibit characteristics of a professional student.

### STUDENTS RIGHTS AND RESPONSIBILITIES

Each individual student is responsible for their behavior and is expected to maintain standards of academic honesty. Students share the responsibility with faculty for creating an environment that supports academic honesty and principles of professionalism. Proper relationships between faculty and students are fundamental to the college's function and this should be built on mutual respect and understanding together with shared dedication to the education process. It is a fundamental belief that each student is worthy of trust and that each student has the right to live in an academic environment that is free of injustice caused by dishonesty. While students have an obligation to assist their fellow students in

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meeting the common goals of their education, students have an equal obligation to maintain the highest standards of personal integrity.

## **MSU COLLEGE OF OSTEOPATHIC MEDICINE STANDARD POLICIES**

The following are standard MSUCOM policies across all Clerkship rotations.

### CLERKSHIP ATTENDANCE POLICY

MSUCOM requires student participation in clerkship rotations and clinical activities with consistent attendance to acquire the skills and knowledge necessary for successful program completion. This policy will define the policy and procedures regarding absences for clerkship activities. [Clerkship-Absence-Policy.pdf \(msu.edu\)](#)

### POLICY FOR MEDICAL STUDENT SUPERVISION

The MSUCOM curriculum includes required clinical experiences in a variety of clinical learning environments. The Medical Student Supervision Policy outlines all supervision agreements and expectations. [Clerkship Medical Student Supervision Policy.pdf](#)

### MSUCOM STUDENT HANDBOOK

The Student Handbook is published electronically by MSUCOM for students in the Doctor of Osteopathic Medicine program. This handbook does not supersede other Michigan State University or College of Osteopathic Medicine policies, regulations, agreements, or guidelines. <https://osteopathicmedicine.msu.edu/current-students/student-handbook>.

### COMMON GROUND FRAMEWORK FOR PROFESSIONAL CONDUCT

The Common Ground Framework provides the MSUCOM community with a reminder of the unity of mind, body, and spirit that underlines the field of osteopathic medicine. The framework is a set of guiding, foundational principles that underpin professional conduct and integrity and applies to all professionals at work within the shared college community, independent of their specific roles or responsibilities.

<https://osteopathicmedicine.msu.edu/about-us/common-ground-professionalism-initiative>

### MEDICAL STUDENT RIGHTS AND RESPONSIBILITIES

The rights and responsibilities of students enrolled in MSUCOM are defined by the medical colleges of Michigan State University, including the College of Osteopathic Medicine, the College of Human Medicine, and the College of Veterinary Medicine. Students enrolled in the professional curricula of these colleges are identified as “medical students.” These colleges collectively define “Medical Student Rights and Responsibilities” (MSRR). This document addresses academic rights and responsibilities, governance, procedures for complaints, due process, and other topics. The current version is available on the MSU Spartan Life website at the address below: <http://splife.studentlife.msu.edu/medical-student-rights-and-responsibilities-mssr>

### MSU EMAIL

MSU email is the official communication from faculty and staff to students and students are responsible for checking it daily and maintaining their MSU email accounts so that messages can be received.

Forwarding MSU email to another email account or failure to check email are not valid excuses for missing a deadline or other requirements of the DO program.

Further, students must use secure email when working in a hospital, clinic, or other health care setting if discussion of patient information is involved. MSUNet (msu.edu) email is secure; many web-based email systems including Hotmail, Gmail, and Yahoo are not.

<https://osteopathicmedicine.msu.edu/current-students/student-handbook>.

### DUTY HOURS AND FATIGUE MITIGATION

The accreditation standards for graduate medical education programs include restrictions on the duty hours of residents. Additionally, institutions are expected to promote a clinical learning environment in which duty hours are monitored and strategies exist to mitigate the effects of fatigue. [Clerkship Duty Hours and Fatigue Mitigation Policy.pdf](#)

### STUDENT EXPOSURE PROCEDURE

A protocol has been developed by the University Physician to report incidents of exposure, e.g., needle sticks, mucous membrane exposure, tuberculosis exposure, etc., and it may be found here:

<https://osteopathicmedicine.msu.edu/current-students/clerkship-medical-education/injury-and-property-damage-reports>

Contact Associate Dean for Clerkship Education, Dr. Susan Enright ([enright4@msu.edu](mailto:enright4@msu.edu)), if exposure incident occurs.

### COURSE GRADES

**P/Pass** – means that credit is granted, and that the student achieved a level of performance judged to be satisfactory by the department according to the student's didactic and clinical performance.

**NGR/No Grade Reported** – means that a final grade ('Pass' or 'No Grade') cannot be determined due to one or more missing course requirements. The NGR grade will be changed to a final grade once all the completed course requirements have been submitted to and processed by MSUCOM (either to the department or Clerkship Team). An 'NGR' grade will NOT remain on a student's transcript.

**N/No Grade** – means that no credit is granted, and that the student did not achieve a level of performance judged to be satisfactory by the department according to the student's didactic and clinical performance.

N Grade Policy

Students who fail this rotation will have to repeat the entire rotation and fulfill all (clinical and academic) requirements.

STUDENT ACCOMMODATION LETTERS

Michigan State University is committed to providing equal opportunity for participation in all programs, services, and activities. Requests for accommodations by persons with disabilities may be made by contacting the Resource Center for Persons with Disabilities (RCPD) at 517-884-RCPD, or on the web at [www.rcpd.msu.edu](http://www.rcpd.msu.edu). Once a student's eligibility for (clinical and/or testing) accommodation(s) are determined, the student may be issued an Accommodation Letter. Students must present their letter to the Clerkship Team ([COM.Clerkship@msu.edu](mailto:COM.Clerkship@msu.edu)) at the start of the semester in which they intend to use their accommodations (for tests, projects, labs, etc.). Accommodation requests received after the semester onset will be honored whenever possible.

If modifications, updates, or extensions to an existing letter are made after the semester begins, it is the responsibility of the student to submit the newest version to the Clerkship Team if he/she intends to utilize the accommodation going forward.

## SUMMARY OF GRADING REQUIREMENTS

| Requirement   | Submission Method  | Pass   | No Grade Reported  | No Pass   |
|---|--|--|--|---|
| Attending Evaluation of Clerkship Student                           | Attendings receive an automated email link connecting them to their assigned evaluation(s) within Medtrics, where they may access and submit the electronic form(s) directly | <ul style="list-style-type: none"> <li>• Student may receive "Below Expectations" in up to one (1) subcategory.</li> <li>• Overall categories must receive "Meets Expectations" or "Exceeds Expectations"</li> </ul> | Will be the conditional grade until all requirements of this rotation are met  | <ul style="list-style-type: none"> <li>• Receives two (2) or more "Below Expectations" within the subcategory sections.</li> <li>• Receives comments that indicate below expectations of performance.</li> <li>• See Unsatisfactory Clinical Performance above</li> </ul> |
| Student Evaluation of Clerkship Rotation                            | Can be accessed and submitted electronically by students within the dashboard of their Medtrics profiles   | Completed 100% by 11:59 pm the last day of the rotation  | Will be the conditional grade until all requirements of this rotation are met. | Failure to complete and submit within 14 days from the end of the rotation  |
| Student Activity Log  | Submit by Dropbox in D2L   | Completed 100% and uploaded by 11:59 pm the last day of the rotation   | Will be the conditional grade until all requirements of this rotation are met  | Failure to complete and upload within 14 days after the rotation ends   |
| Topic Paper   | Submit by Dropbox in D2L   | Completed 100% and uploaded by 11:59 pm the last day of the rotation   | Will be the conditional grade until all requirements of this rotation are met  | Failure to complete and upload within 14 days after the rotation ends   |
| Mid Rotation Feedback Form<br><br>NOT required for 2 Week Rotations | Submit via D2L   | <ul style="list-style-type: none"> <li>• Completed, scanned, and uploaded to D2L.</li> <li>• Must be 100% and needing no revisions by 11:59 pm on the 3<sup>rd</sup> Sunday of the rotation.</li> </ul>              | Will be the conditional grade until all requirements of this rotation are met. | Failure to complete 100% and upload by 14 days after the last day of the rotation at 11:59 pm   |



College of Osteopathic Medicine  
MICHIGAN STATE UNIVERSITY

**MID-ROTATION FEEDBACK FORM**

Rotation Name: OSS 648

Student Name: \_\_\_\_\_

Evaluator Name: \_\_\_\_\_

Evaluator Signature: \_\_\_\_\_

Date of review with Student: \_\_\_\_\_

1. This assessment is based on:
- My own observations and interactions with the student.
  - Feedback received from other faculty and/or resident supervisors.

2. The student is progressing satisfactorily for their level of training:
- YES                       NO

If NO, please summarize areas needing improvement below:

3. Overall comments on student performance

| Strengths: | Areas of Improvement: |
|------------|-----------------------|
|            |                       |

4. Professionalism expectations are listed below. Please check only areas of student **DIFFICULTY**:

|                          |   |                          |  |
|--------------------------|---|--------------------------|--|
| <input type="checkbox"/> | On time for all activities of the rotation                  | <input type="checkbox"/> | Present/Prepared for all activities of rotation                                |
| <input type="checkbox"/> | Respectful/courteous to patients, staff, peers, attending's | <input type="checkbox"/> | Student is aware of limitations and appropriately seeks assistance when needed |
| <input type="checkbox"/> | A great team player (helpful, reliable, proactive)          | <input type="checkbox"/> | Accepting of feedback and made necessary changes because of the feedback       |
| <input type="checkbox"/> | Engaged in learning   | <input type="checkbox"/> | Honest and trustworthy   |
| <input type="checkbox"/> | A good patient advocate                                     | <input type="checkbox"/> | Work ethic   |

## TOPIC PAPER (OSS 648)

Pick **one** of these topics listed below to write a one-page word document paper. Turn the paper in via D2L and load it into the Activity Log section. Due the last day of the rotation at 11:59pm. Put your Name & Rotation dates on this project. Every student will turn in a paper.

### Scenario #1:

A two-year-old male patient is undergoing a tonsillectomy/adenoidectomy. No prior medical history, full term baby. He is in the OR and prior to surgical incision begins to exhibit and increasing HR. from 110 to 150 bpm.

- a. Discuss a brief differential dx for this patient and recommendation for treatment. No action is "an" action.
- b. During your assessment you noticed the patient was missing an important monitor. What is the ASA standard monitors? What is another important monitor that should be used with this patient (and all pediatric patients especially)?
- c. The surgeon is ready to start and is persistent in wanting to start in order not to slow her day down. You have not figured out why HR is increasing. What do you do?
- d. While explaining your treatment of the patient, the patient SPO2 begins to drop, the CO2 waveform is zero! What is your differential dx and steps to discover it?
- e. You find the patient is biting the ET tube and cannot exchange O2. His temp is 39 Celsius. What is your diff dx and treatment?

### Scenario #2:

I'm an attending anesthesiologist. I have determined a nerve block is an appropriate addition to the scheduled procedure which is a "shoulder arthroscopy" for possible rotator cuff repair.

- a. What are my initial considerations prior to choosing a specific regional anesthetic? Specifically, what would be my choice of regional anesthesia for this procedure, and why? Be creative.
- b. I have chosen a block to do for this patient. She has mentioned a non-specific "allergy" experienced at a dentist office where she was told she was allergic to "something", maybe a local anesthetic. What type of local anesthetic might it be? What are the other considerations?
- c. We have determined the risk for a local anesthetic allergy is low. In our clinical opinion it is ok to proceed with a regional anesthesia block. Which local anesthetic might you choose? What are the main properties of that local anesthetic?
- d. What information will you provide to the surgeon or surgical nursing circulator? Why? What might you report to the post op nursing team?





OSS 648 Anesthesiology Advanced

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**Please list all meetings and Lectures attended:**

| Meeting / Lecture | Date | Topic |
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**Please list all reading materials read on the rotation:**

| Material | Topic |
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When completed, please upload to the Dropbox on D2L