

## **ANES 471 - Anesthesia Clinical Experience V Spring 2009**

### **Faculty:**

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### **Course Overview:**

A continuation of ANES 469. Extended exposure to all of the clinical subspecialties of anesthesiology (obstetrics, pediatrics, neurosurgery, cardiovascular, etc.). Students alternate through rotations at several area hospitals. A comprehensive clinical examination is administered at the end of the semester.

Prerequisite: ANES 469

### **Grading:**

During rotations, clinical instructors are asked daily to complete an evaluation form that coincides with the student's level of education in anesthesia. Upon completion, these forms are reviewed carefully and used to calculate semester grades.

Student grades are determined by completed evaluations and averaged weekly. It is imperative that an evaluation is completed for every day a student is assigned to the OR. An instructor has two weeks to turn in an evaluation. Any missing evaluations will be entered with scores of one in each category if the evaluation is not received and entered at the end of 4 weeks. If an evaluation is received after the four-week time allotment and the evaluation has been recorded as missing with scores of one, the Education Coordinator will enter the correct scores.

### **Course Objectives:**

By the end of the spring semester of the second year and having completed the entire didactic and clinical programs of study, the MSA graduate candidate should strive to be at least **95%** successful when performing all of the previously mentioned tasks in addition to the following tasks *with rare assistance* (defined as “**supervision 100%** of the time with **technical support 5%** of the time given by a clinical instructor”):

1. Arterial vessel cannulation.
2. Central venous cannulation.
3. Lumbar epidural catheter placement and management.
4. Placement and management of pediatric caudal blocks.
5. Placement and management of IV perfusion (Bier) blocks.
6. Nasotracheal intubation.
7. Endobronchial tube placement.
8. Nasogastric tube placement.

9. Management of monitored anesthesia care (MAC).
10. Management of anesthesia for outpatient surgery.
11. Management of anesthesia for cardiac surgery.
12. Management of anesthesia for thoracic surgery.
13. Management of anesthesia for obstetrics.
14. Management of anesthesia for pediatric surgery.
15. Management of anesthesia for neurosurgery.
16. Management of anesthesia for trauma surgery.
17. Management of anesthesia for vascular surgery.
18. Management of anesthesia for geriatric patients.

The performance checklist for the entire clinical (second) year contains the following items:

1. Successful placement of **arterial catheters** by the *second* needle stick given the following criteria:
  - a) An appropriate vessel is chosen for insertion.
  - b) An appropriate catheter is chosen.
  - c) Aseptic technique is used.
  - d) The transducer tubing is connected with minimal blood loss.
  - e) The catheter and tubing are secured adequately.
  - f) The transducer is zeroed properly.
2. Successful placement of subclavian or internal jugular **central venous catheters** by the *second* needle stick given the following criteria:
  - a) An appropriate vessel is chosen.
  - b) An appropriate catheter is chosen.
  - c) Aseptic technique is used.
  - d) Tubing is connected with minimal blood loss.
  - e) The catheter and tubing are secured properly.
  - f) The transducer is zeroed properly (when appropriate).
  - g) The Swan-Ganz catheter is inserted properly (when appropriate).
3. Successful placement of **lumbar epidural catheters** by the *second* Touhy needle stick given the following criteria:
  - a) Aseptic technique is used.
  - b) The appropriate level for insertion is chosen.
  - c) The dura is **not** punctured.
  - d) No persistent paresthesia is elicited.
  - e) An appropriate local anesthetic/dosage is chosen.
  - f) No intravascular injection is evident.
  - g) The level of analgesia is deemed adequate.
  - h) Follow up management of the block is appropriate.

4. Successful placement of **pediatric caudal blocks** by the *second* needle stick given the following criteria:
  - a) Aseptic technique is used.
  - b) No CSF, heme or stool is aspirated.
  - c) An appropriate local anesthetic/dosage & volume is chosen.
  - d) An adequate level of analgesia is obtained.
5. Successful placement of intravenous perfusion (**Bier**) **blocks** given the following criteria:
  - a) Standard practice is followed.
  - b) Adequate surgical analgesia is achieved without the need for follow up general anesthesia.
6. Successful placement of adult or pediatric **nasotracheal tubes** by the *second* tube pass given the following criteria:
  - a) An appropriately sized endotracheal tube is chosen.
  - b) Magill forceps are used effectively when needed.
  - c) Tube insertion is atraumatic.
  - d) No epistaxis is noted.
  - e) The tube is secured adequately.
7. Successful placement of **endobronchial tubes** by the *second* tube pass given the following criteria:
  - a) An appropriately sized tube is chosen.
  - b) Proper tube placement is verified by fiberoptic endoscopy.
  - c) The tube is secured adequately.
  - d) The student shows a working knowledge of endobronchial tube ventilation principles.
8. Successful placement of **nasogastric tubes** by the *second* tube pass given the following criteria:
  - a) The appropriate size tube is chosen.
  - b) The appropriate nares is chosen.
  - c) No epistaxis is noted.
  - d) The tube is secured adequately at the appropriate depth.
9. Anesthetic management of patients for **monitored anesthesia care** as a member of an anesthesia care team.
10. Anesthesia management of ***adult*** patients for **outpatient** surgery as a member of an anesthesia care team.
11. Anesthetic management of patients for **cardiac** surgery as a member of an anesthesia care team.
12. Anesthetic management of patients for **thoracic** surgery as a member of an anesthesia care team.
13. Anesthetic management of patients for **obstetrical** procedures as a member of an anesthesia care team given the following criteria:
  - a) ***Vaginal deliveries*** including:
    - (1) placement of epidural

- (2) management of labor
- (3) present for delivery
- b) *Cesarean sections*** including:
  - (1) placement of epidural and/or induction of general anesthesia
  - (2) management of the case
- 14. Anesthetic management of **pediatric** patients for all types of surgery as a member of an anesthesia care team (patients included in this category can also be counted toward requirements in other categories).
- 15. Anesthetic management of patients for **neurosurgery** as a member of an anesthesia care team.
- 16. Anesthetic management of patients for **trauma** surgery as a member of an anesthesia care team.
- 17. Anesthetic management of patients for **vascular** surgery as a member of an anesthesia care team.
- 18. Anesthetic management of **geriatric** patients for all types of surgery as a member of an anesthesia care team (patients included in this category can also be counted toward requirements in other categories).