
ANESTHESIOLOGY

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ANES 800A - Research

Dr. J. Badal (626-6938)

4 wks; maximum length of 12 wks; offered year round

Directly supervised/Non-patient care

Maximum enrollment of 1

Prerequisites: **Contact Office Prior to Enrolling.** Student must provide proof of successful completion in both Human Subject Protection Training and Blood Borne Pathogen Training.

Goals: To provide the student with an opportunity to participate in ongoing laboratory or clinical research in the Department of Anesthesiology.

Format: Determined by the student in conjunction with the supervising faculty member. Currently, topics under investigation include: *Phase I, II, III, and IV* clinical trials with new medications, engineering, and evaluation of anesthesia delivery systems and anesthesia monitoring equipment, human factors (interaction of the physician with anesthesia equipment and with the operating room environment), optimal management of anesthesia, and basic research into pain mechanisms and pain pharmacology.

Evaluation Methods: Based on observation and student performance. Grades are Honors, Pass, Fail. The College of Medicine elective evaluation form will be used.

ANES 810Aa - Anesthesiology (UMC)

Dr. Dax Trujillo (626-6938)

4 wks; not offered during period 4S1 (July)

Aug-May: 4 wk rotation (May only shorten to 3 weeks with Course Coordinator permission)

Directly supervised/Patient care

Maximum enrollment of 3

Prerequisites: Completion of clerkships.

Goals:

At the end of the four-week University of Arizona Anesthesiology rotation, the Medical Student will be able to:

1. Evaluate a patient for a general anesthetic with special attention to:

a. Airway history and examination

b. Full stomach risk factors

c. Medications and the need to continue peri-operatively

d. Cardiovascular and pulmonary history and examination

2. Manage the adult airway before intubation

3. Gather the appropriate supplies and place peripheral intravenous lines

4. Evaluate a patient for the necessity of endotracheal intubation

5. Induce general anesthesia with drugs appropriate for the patient

6. Gather the appropriate supplies and intubate an adult patient

7. Evaluate a patient for conscious sedation for painful procedures and use the appropriate drugs

Format: Students will be assigned daily to work with a faculty member and a resident on specified operative cases. In addition, the student is provided with a daily reading/task curriculum to guide their learning experience. The textbook, *Clinical Anesthesiology* by Morgan & Mikhail, is provided to the student for the duration of the rotation. Didactic sessions include daily conference (6:30 - 7:30) and Wednesday morning lecture and clinical conference (6:30 - 8:30).

Evaluation Methods: Assigned residents evaluate student's clinical performance. The student will be given a pretest and posttest to evaluate their learning during the course of the elective. The evaluation encompasses the student's clinical performance, and improvement from pretest to posttest. A College of Medicine elective evaluation form will be used with the grades of Honors, Pass, and Fail.

ANES 810Ad - Anesthesiology (VAH)

Dr. V. Groysman (626-6938)

4 weeks *only*

Offered year round

Directly supervised/Patient care

Maximum enrollment of 1

Prerequisites: Completion of clerkships. Contact office prior to enrolling

Goals: The goals of the anesthesiology clerkship are manifold but include:

1. Teaching the student basic technical familiarity with resuscitation and management of the comatose and critically ill patient.

2. Encouraging skills and scientific reasoning in clinical pharmacology and clinical physiology problems presented by the anesthetized patient.
3. Developing rational approaches to monitoring.
4. Evaluating the problems of the surgical patient preoperatively from a physiologic and psychologic standpoint.

Format: Cases scheduled for Surgery will be assigned to a student, a resident and a faculty member. They will evaluate the patient preoperatively and choose anesthetic management based on pathophysiology of the patient and surgical necessities. The team then together conducts anesthesia. Postoperative rounds are made until the patient is judged free of possible anesthetic complications. Didactic sessions include a Wednesday morning Case Discussion Conference at the College of Medicine.

Evaluation Methods: Student performance is evaluated by Anesthesiology faculty members at the end of each period, using the standard elective evaluation forms. Students are evaluated on the basis of improvement in cognitive knowledge of pharmacology and psychomotor skills, regular attendance to clinical duties and teaching activities.

ANES 810D - Anesthesiology Sub-Internship

Dr. Dax Trujillo (626-6938)

4 weeks *only*; not offered during period 4S1 (July)

Directly supervised/ Patient Care

Maximum enrollment of 3

Prerequisites: Anesthesiology 810A or equivalent or exceptional performance on third year Anesthesiology Clerkship.

Goals: At the end of the four-week University of Arizona Anesthesiology Sub-internship, the Medical student will be able to:

1. Administer a general anesthetic on an ASA performance status I patient which includes:
 - a. Comprehensive pre-anesthetic evaluation
 - b. Appropriate preparation of the site of the general anesthetic
 - c. Induction of general anesthesia
 - d. Maintenance of general anesthesia
 - e. Emergence of general anesthesia
 - f. Transport to the post anesthesia care unit
 - g. Report to the post anesthesia care unit nurse.
2. Evaluate a patient for the necessity of endotracheal intubation;
3. Recognize and manage a patient with a potential difficult airway
4. Gather the appropriate supplies and place a central venous line
5. Gather the appropriate supplies and place an arterial line
6. Evaluate a patient for conscious sedation for a painful procedure and use the appropriate drugs.

Format: The student will be assigned to one or more Senior Anesthesiology Residents and will perform the duties of the Anesthesiology Resident. The student will also have on call duties that shadow the Anesthesiology Resident. In addition, the student will be provided with a reading/task curriculum to guide their learning experience. The textbook, Clinical Anesthesiology by Morgan and Mikhail, is provided to the student for the duration of the rotation. Didactic sessions include daily conference (6:30 - 7:30) and Wednesday morning lecture and clinical conference (6:30 - 8:30). The student is also expected to give a 30-minute presentation on an assigned topic.

Evaluation Methods: The performance will be assessed by the Anesthesiology resident(s) with whom the student has been working and an Anesthesiology faculty member. There will also be a pretest/posttest given to evaluate the progress during the elective. The comprehensive evaluation will reflect the evaluation of individual performance by residents and faculty and the quality of the presentation. A College of Medicine elective evaluation form will be used with the grades of Honors, Pass, and Fail.

ANES 815P - Critical Care Medicine

Drs. C. Otto, R. Latifi, J. Porter, (626 6938)

4 wks; offered year round

Directly supervised/Patient care

Maximum enrollment of 3

Prerequisites: Completion of clerkships

Goals: To provide the student with an introduction to the management of the patient with severe multiple system disease in the surgical intensive care unit setting. Major emphasis will be placed on providing an understanding of the diagnosis and management of acute respiratory failure, fluid, electrolyte, cardiovascular and neurological disorders.

Format: The experience will consist of a four-week assignment to the Critical Care Medicine Service. Students will work under the supervision of residents and fellows of this service and an attending physician. They will participate in patient consultations and follow-up, rounds and conferences.

Evaluation Methods: Evaluation by supervising faculty member.

**Crosslisted with MEDI 815P (ANES 815P is home)*

ANES 891 Ai/891Au - Anesthesiology & Sub-Specialties

Dr. Dax Trujillo (626-6938)

3 to 6 weeks; maximum length of 8 weeks

Offered year round

Directly supervised/Patient care or non-patient care

Maximum enrollment not set

Prerequisites: Successful completion of Medicine 803

Goals: Through the sponsorship of the Department of Anesthesiology faculty, a student may apply for a preceptorship experience at hospitals throughout the world. Students seeking unique preceptorships in any aspect of anesthesiology must first consult with a member of this department. **The student is responsible for furnishing the Student Records Office with the name and address of the preceptor at the outside institution.**

Format: As determined by the preceptor.

Evaluation Methods: The form issued by the College of Medicine may be used; however, arrangements can be made to accept evaluation forms from other institutions that prefer to evaluate students using their own forms.

ANES 899 - Independent Study

Dr. S. Barker & Faculty (626-6938)

3 to 6 weeks; maximum length of 6 weeks

Offered year round

Directly supervised/Patient care or non-patient care

Maximum enrollment varies

Prerequisites: Medical students only. Contact office prior to enrolling

Goals: The goal of this elective is to allow the student to work with a particular faculty member in pursuit of a particular field of study in anesthesiology.

Format: As arranged between student and instructor

Evaluation Methods: Based on observation and student performance. Grades are Honors, Pass, Fail. The College of Medicine elective evaluation form will be used.