INTRODUCTION

In addition to anesthesiology resident education, another educational mission of the Department of Anesthesiology is the teaching of medical students. The students who come to us work alongside the residents and attending staff for elective rotations of two to six weeks are primarily in their fourth year of medical school.

The objective of the elective in anesthesiology is to provide students with an understanding of how medical knowledge plus modern anesthetic and perioperative care contribute to the outcome of patients undergoing surgery. Secondary objectives include teaching basic airway techniques, fluid management, invasive monitoring capabilities, and regional anesthesia. Additionally, we hope to identify those students who have an interest in pursuing anesthesiology as a career and to intellectually stimulate other students who may eventually consider entering our medical specialty.

The medical students are assigned to work with an attending anesthesiologist each day. The students accompany their attending anesthesiologist and the anesthesiology resident in performing preoperative assessments of patients, and participate in the perioperative anesthetic care of the patients assigned to each anesthesia care team that day. The students receive one-on-one teaching from the attending anesthesiologists, as well as studying reading assignments. They also attend weekly grand rounds lectures that review interesting topics in anesthesiology and the latest research in the field. As a student, you will also attend case conferences that discuss interesting patient management situations. The students also are present at either daily or weekly lectures that are part of the didactic education the residents receive. We hope all the medical students, whether or not they become anesthesiologists, come away with the appreciation of how we use our knowledge of human physiology and pharmacology to provide safe and compassionate care to the patients who are entrusted to us.

EDUCATIONAL OBJECTIVES

By the completion of this rotation, the medical student will:

A. Develop orotracheal intubation skills.
B. Demonstrate and understand local anesthetic pharmacology and participate in the conduct of regional anesthetics.
C. Demonstrate and understand the principles of conduct of a general anesthetic by demonstrating:
   • Knowledge of the pharmacology of the major anesthetic agents including appropriate selection and use;
   • Knowledge of the basic physiology and interpretation of intraoperative monitoring including end-tidal CO2, oxygen saturation, arterial blood gas, pulmonary artery pressures and other hemodynamic measurements;
   • Knowledge of and administration of appropriate perioperative fluid therapy;
   • Knowledge and demonstration of operating room safety.
D. Demonstrate an understanding of the principles of post anesthesia recovery care and participate in the conduct of that care including recognition of the common complications seen following an anesthetic.

CLINICAL EXPERIENCE

The medical student participates with anesthesiology residents in pre-anesthetic evaluations, placement of monitors, conduction of anesthetics including induction, intubation, maintenance, emergence, and extubation, post-anesthetic recovery care and follow-up. The medical student may also have opportunities to gain experience in regional anesthesia, and sub-specialty anesthesia areas such as pediatric, obstetric, thoracic, and neurosurgical anesthesia. During the elective rotation, the student has the opportunity to attend core curriculum lectures as well as journal clubs and mortality-morbidity conferences.

SUGGESTED READING

Basics of Anesthesia by Robert Stoelting and Ronald Miller.

DIDACTIC EXPERIENCE

The medical student will be expected to participate in all departmental lectures and conferences.

EVALUATION METHOD

100% clinical observation.

HOW TO APPLY

If you are interested in applying, please call 516-572-5399 or visit us at www.numc.edu.