UND School of Medicine & Health Sciences
University of North Dakota

Elective Description

Campus: Southwest (Bismarck)
Department: Internal Medicine
Elective/Experience Title: ICU/Pulmonary Medicine
Course Number: IMED 9130
Location of Elective: Sanford Health – Bismarck, ND

Preceptor(s): Jan Levora, MD; Andreas Sarrigiannidis, MD; Bhaja Shrestha, MD; Anthony Tello, MD; Peter White, MD; Eusebio Desuyo, MD
Period(s) Offered: All
Number of students per period: 1
Course Prerequisites: Completion of Internal Medicine Clerkship
Revised Curriculum Phase(s): 2 & 3

Purpose: To provide education and experience in the care of patients requiring critical care and pulmonary medicine services.

Objectives:

Following successful completion of this elective, the student will be able to:

1. Describe basic cardio-pulmonary/critical care physiology and apply it in the ICU setting.
2. Evaluate patients with critical illness including patient stabilization and daily care.
3. Perform critical care procedures such as central lines, arterial lines, and thoracentesis as permitted and under the supervision of a critical care specialist.
4. Discuss the basic principles of critical care monitoring.
5. Describe the principles of ventilatory support.
6. Discuss the role of the multidisciplinary team in the management of critical care patients.

Instructional Activities:

During this elective, the student will be involved in/experience:

1. Evaluation of all new ICU admissions/consultations including the performance of a history and physical examination under the supervision of an ICU attending.
2. Daily rounds and follow-up of established ICU patients. The student will present their patients, including history, physical exam, laboratory data, imaging studies, laboratory settings, and inter-current events.
3. Formulation of a differential diagnosis and therapeutic plans on their specific patients.
4. Prepare and present critical care topics of special interest.
5. Call in the ICU in conjunction with selected ICU attendings.
6. Completion of required reading materials and resources in critical care.
7. Daily brief (20-25 min.) didactic conferences regarding theoretical principles of critical care management emphasizing bedside teaching and direct application to patient care.

Criteria for Grading:

During and following this elective, the preceptor will:

1. Utilize the standardized UNDSMHS senior elective evaluation form.
2. Daily evaluation by direct observation of the student's knowledge of ICU basic physiological principles, formulation of differential diagnoses and management plans.
3. Evaluate through oral communication with the student and through review of his/her written notes, the student's development of clinical skills and critical care knowledge.
4. Evaluate by direct observation the student's clinical skills in performance of permitted procedures.
5. Evaluate the student's written communications including admission, history and physicals, progress notes, procedure notes, and consultations.
6. Evaluate by direct observation the student's "360" communication skills.
7. Evaluate the student's performance during presentation of critical care topics.