

Elective Description

Campus: Southwest (Bismarck)

Elective/Experience Title: Introduction to Emergency Medicine

Location of Elective: Sanford Health – Bismarck, ND

Department: Emergency Medicine

Course Number: EMRG 9105-01

Preceptor(s): David Gayton, MD; Kadon Hintz, MD; Justin Reisenauer, MD; Steven Schmidt, MD & Matthew Zimny, MD

Period(s) Offered: Periods 1-10 (not 11)

Course Prerequisites: none

Number of students per period: 1

Revised Curriculum Phase(s): 2 & 3

Purpose: To provide the medical student an introduction to Emergency Medicine.

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

1. Execute the performance of an accurate history and physical examination of patients presenting for emergency medical care (*Competency 3.1*)
2. Apply the ABCDs (Airway, Breathing, Circulation, Disability) to critically ill and undifferentiated medical and trauma patients (*Competency 3.4, 3.5, 3.6*).
3. Demonstrate the ability to identify and address abnormal vital signs with appropriate urgency (*Competency 3.3, 3.5*).
4. Verbally present an emergency department patient, emphasizing the pertinent parts of the HPI and an appropriate “worst-first” differential diagnosis (*Competency 3.3, 3.4, 3.5*).
5. Recognize and initiate stabilizing treatment for the life-threatening causes of abdominal pain, altered mental status, cardiac arrest, chest pain, GI bleeding, headache, and shortness of breath, and shock (*Competency 3.4, 3.5, 3.6*).
6. Recognize clinical features of the following toxidromes: sympathomimetic, opioid, cholinergic, and anticholinergic (*Competency 3.4, 3.5, 3.6*).
7. Outline key features of stabilizing treatment for the following poisonings: acetaminophen, aspirin, tricyclic antidepressant, and toxic alcohol poisonings (*Competency 3.4, 3.5, 3.6*)
8. Execute management of an occluded airway by applying the head tilt/chin lift maneuver, inserting an oral or nasopharyngeal airway, and correctly administering bag-valve-mask ventilation (*Competency 3.5, 3.6*).
9. Summarize key features of 7 types of scientific publication in the Emergency Medicine literature.

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

1. Minimum of 150 hours of supervised patient contact in the emergency department
2. “Study Design 101” tutorial on 7 types of scientific publication: Study Design 101 - Himmelfarb Health Sciences Library (gwu.edu)
3. Obtain an average score of 85% on 25 “Full-Code” online case-based simulations of life-threatening conditions. You may wish to focus on emergencies in your chosen area of specialty
4. Attend two online Zoom sessions with Clerkship Faculty. Access department schedule here: [Emergency Medicine | University of North Dakota \(und.edu\)](https://www.und.edu/emergency-medicine)
 - A. Journal Club and Mid-Clerkship Feedback Session. (Usually, the 2nd Thursday of the rotation at 12:00PM). Students and faculty engage in discussion of a current publication relevant to emergency medicine. Give and receive feedback on the rotation thus far.

- B. Grand Rounds Day and End-Clerkship Feedback Session. (Usually, the 4th Thursday of the rotation at 12:00PM). Students deliver a 10-minute case presentation on a patient of their choice from their Emergency Medicine rotation, with emphasis on basic science. Preferred Power Point Slides are “UND SMHS green standard” slides available here: <https://med.und.edu/information-resources/branding-and-templates.html>
- C. Make-up a missed Journal Club or Grand Rounds Day by passing 15 additional Full-Code cases for each event missed.

Criteria for Grading: During and following this elective, the preceptor will:

- 1. Utilize the standardized UNDSMHS senior elective evaluation form.
- 2. Observe completion of 150 hours of supervised patient contact.
- 3. Review successful completion of the required “Full-Code” cases.
- 4. Observe the student’s ability to obtain a complete patient history (*objective 1*).
- 5. Observe the student’s ability to perform a complete physical examination (*objective 1*).
- 6. Observe the student’s ability to present a patient case orally (*objective 4*).
- 7. Observe the student’s overall clinical competence (*objective 2, 3, 5-8*).
- 8. By discussion or observation of presentation, evaluate the student’s ability to summarize the 7 types of scientific publication in Emergency Medicine (*objective 9*).
- 9. Participate in or make-up attendance at Journal Club and Grand Rounds.

Criteria for Honors: The student will do the following in order to obtain honors:

- 1. In addition to above instructional activities, obtain a passing score on 15 additional Full-Code cases.
- 2. Choose a trauma case for your case presentation, and submit it in poster format. Posters may be displayed at the ND State Trauma Conference. Preferred poster template is 48x36 UND branded poster template (<https://med.und.edu/information-resources/branding-and-templates.html>)
- 3. Be recommended for Honors by the preceptor completing the UNDSMHS senior elective evaluation form.