

Elective Description

Campus: Southwest (Bismarck)

Elective/Experience Title: Infectious Disease

Location of Elective: Sanford Health & Clinics of CHI St. Alexius Health - Bismarck, ND

Department: Internal Medicine

Course Number: IMED 9126

Preceptor(s): Supha Arthurs, MD & Noe Mateo, MD

Period(s) Offered: all

Number of students per period: 1

Course prerequisites:

Revised Curriculum Phase(s): 2 & 3

Purpose: To provide education and experience in the care of patients with an infectious disease.

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

1. Describe the basic operation of the microbiology laboratory.
2. Interpret Gram stain and culture and sensitivity results.
3. Select appropriate antibiotic therapy based on laboratory results.
4. Integrate antibiotic therapy choices with the clinical presentation of the patient – IV versus PO, absorption, excretion, and allergic reactions.
5. Perform the basic elements of an infectious disease consultation along with appropriate examination of a patient with a suspected infectious disease.
6. List current child and adult immunization practices.

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

1. Infectious disease rounds at Sanford Health.
2. Review plates and operational techniques in the microbiology lab (maybe one half day for two weeks).
3. Infectious disease consultations guided by infectious disease attendings.
4. Outpatient care of infectious disease patient cases including HIV/AIDS patients.

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

1. Utilize the standardized UNDSMHS senior elective evaluation form.
2. Evaluate through direct observation the student's ability to perform a thorough history and physical, integrate laboratory results, construct a differential diagnosis for suspected pathogens, and formulate a plan for diagnosis and treatment of infectious disease patients.
3. Evaluate the student's written communications including histories and physicals, progress notes, and consultations.
4. Evaluate the student's knowledge of infectious diseases through case discussion of common and important infectious disease problems including community acquired pneumonia, urinary tract infections, meningitis, and STDs.
5. Evaluate the student's ability to recite from memory pediatric and adult immunization schedules.
6. Evaluate the student's ability to recite the common categories of antibiotics along with their known spectrum of activity, toxicities, and indications for altering dose.
7. Evaluate through direct observation the student's "360" communication skills.

8. Provide a weekly oral examination to document the student's knowledge in infectious disease.