

Elective Description

Campus: Southeast (SE)

Elective/Experience Title: Pathology

Location of Elective: Sanford Health System - Fargo, ND

Department: Pathology

Course Number: PATH 9203

Preceptor(s): Binara Assylbekova, MD
Zhanyong Bing, MD
Julie A. Marsh, MD
Angela J. Wood, MD

Jerry J. Baldwin, MD
Farid Saei Hamedani, MD
Hong-Qi Peng, MD

Michelle K. Bianco, MD
Sepehr Hamidi, MD
Yongsheng Ren, MD

Period(s) Offered: 3-11

Number of students per period: 1 per period

Course prerequisites:

Revised Curriculum Phase(s): 2 & 3

Purpose: To provide education and experience in surgical pathology and hospital laboratory medicine.

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

1. See Instructional Activities

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

1. A two-week rotation on surgical pathology and cytology.
During this time the student will initially observe the techniques utilized in making a diagnosis on tissue biopsy including frozen sections and proper utilization of special stains. The student will participate in cutting of tissues, making frozen sections and become aware of the limitations and methodology in surgical pathology. Time will also be devoted for the interpretation of cytologic preparations including gynecologic and body fluid smears. In addition, the student shall observe and participate in the immediate diagnosis of interventional radiological biopsies and fine needle aspirates from EUS and EBUS from cytologic examinations.
2. A two-week rotation involving:
 - a. Morphologic hematology
 - b. Flow cytometry
 - c. Urinalysis
 - d. Microbiology
 - e. Chemistry
 - f. Blood Bank
 - g. HLA Laboratory
 - h. Molecular Pathology
 - i. Histologic and Cytology Laboratory
3. At some point during the rotation, the student shall be responsible for providing an in-service on a laboratory medicine topic.

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

1. Utilize the standardized UNDSMHS senior elective evaluation form.
2. The student must display ability to make basic histologic diagnosis on a variety of surgical pathology specimens seen in the general practice of surgical pathology.
3. The student must display knowledge and understanding of laboratory medicine in the fields of blood banking, chemistry, and microbiology as subjectively evaluated by supervisors in these clinical laboratory departments.
4. Satisfactory in-service presentation.