

## 2100 Clerkship Elective Template

Course: Hematopathology Course Number PATH2104

Department: Pathology  
Faculty Coordinator: Miguel Dario Cantu, M.D.  
Assistant Faculty Coordinators: N/A

Hospital: (Location of rotation) BioCenter, 2330 Inwood Road, EB3.234. Dallas, TX, 75390

Periods Offered: 1-12

Length: 4 weeks

Max # of Students: 2

First Day Contact: Miguel Dario Cantu, M.D., Schryka Taylor

First Contact Time: 9:15 AM

First Day Location: BioCenter, 2330 Inwood Road, EB3.234. Dallas, TX, 75390

Prerequisites: None

### I. Course Description

Goals (examples-edit as needed)	Objectives (describe activities that will support how goals are to be achieved)	Assessment methods (examples-explain how student will be evaluated)
<b>Patient Care:</b> Assessment and Management 1. Students will demonstrate the knowledge, attitudes and skills necessary to perform appropriately focused and accurate histories and physical assessments and document the findings accurately in the health record. 2. Students will assist in development of evaluation and treatment plans, and take responsibility for implementation. 3. Students will develop procedural skills related to bone marrow collection and	1. Students will assist with daily review and sign out of peripheral blood and body fluid samples that have been sent for Pathology Review by both CUH and PHHS. Duties will include review of the electronic medical record for collection of relevant history, relevant prior laboratory studies, and relevant medicine history. 2. Students will use the above data in combination with the CBC and other relevant laboratory data to “present” each patient’s case to the Hematopathology Faculty. 3. The student and Faculty will review the pathologic and	<ul style="list-style-type: none"><li>• Quality of Medical Records entries</li><li>• Skills evaluation from direct observation.</li></ul>

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<p>peripheral blood smear preparation</p>	<p>clinical material and formulate a report that includes any relevant pathologic diagnosis as well as suggestions for additional testing, when appropriate.</p> <ol style="list-style-type: none"> <li>4. Students will assist with communication of relevant/urgent findings to the appropriate clinical team.</li> <li>5. Students will observe sign out of bone marrow and tissue cases with the Hematopathology Faculty and trainees.</li> <li>6. As necessary, students will assist with collection of relevant clinical history and prior results before “presenting” the bone marrow or tissue cases.</li> <li>7. Students will not be required to perform procedures; however, observation and/or performance of bone marrow biopsy/aspiration will be arranged for interested students.</li> </ol>	
<p><b>Medical knowledge:</b></p> <ol style="list-style-type: none"> <li>1. The Student will be able to explain ...</li> <li>2. The student will know how to assess and manage common complaints in...</li> <li>3. The student will know the pathophysiology of common benign and neoplastic hematopoietic disease.</li> </ol>	<ol style="list-style-type: none"> <li>1. Students will learn the indications for peripheral blood, bone marrow, and body fluid collection and Pathology Review.</li> <li>2. Students will learn the basics of laboratory analysis of peripheral blood, body fluids, tissue, and bone marrows. They will also be introduced to common QA/QC issues in the Hematology laboratory as well as automation in the Hematology laboratory.</li> <li>3. Students will learn the basic components of the complete blood count (CBC) and white blood cell differential.</li> </ol>	<ul style="list-style-type: none"> <li>• Skills evaluation from direct observation.</li> </ul>

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	<ol style="list-style-type: none"> <li>Students will be able to identify the common cells see in peripheral blood.</li> <li>Students will learn the basic of bone marrow collection and be introduced to hematopoiesis and bone marrow evaluation.</li> <li>Students will learn the basics of evaluation of lymphoid and other tissues of hematopoietic disease.</li> <li>Students will be able to describe the pathophysiology and morphologic findings of common hematopoietic disorders.</li> </ol>	
<b>Interpersonal and communication skills:</b> The students will effectively exchange information with patients, families, consultants and the team, including nurses, faculty, residents and ancillary staff.	<ol style="list-style-type: none"> <li>Students will communicate relevant clinical and pathologic findings to the treatment team, Hematopathology Faculty, Hematopathology trainees and other Pathology Faculty as necessary.</li> <li>Students will work with Hematopathology administrative assistants, lab technicians, and lab supervisors as necessary.</li> </ol>	<ul style="list-style-type: none"> <li>Observations of faculty and staff</li> <li>Skills evaluation from direct observation</li> </ul>
<b>Practice Based learning and Improvement:</b> Students will demonstrate the ability to assimilate scientific evidence and improve patient care practices.	<ol style="list-style-type: none"> <li>Students will learn best practices for hematology lab test ordering and interpretation.</li> </ol>	<ul style="list-style-type: none"> <li>Observations of faculty and staff</li> <li>Skills evaluation from direct observation</li> </ul>
<b>Professionalism:</b> Students must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population	<ol style="list-style-type: none"> <li>Students must demonstrate professionalism at all times and in all areas during the rotation.</li> </ol>	<ul style="list-style-type: none"> <li>Observations of faculty and staff</li> <li>Skills evaluation from direct observation</li> </ul>
<b>Systems based practice:</b> <ol style="list-style-type: none"> <li>Know how .... fits into the larger system of health care.</li> </ol>	<ol style="list-style-type: none"> <li>Students will learn how the Hematology lab and Hematopathology faculty work with clinical teams to provide excellent care for</li> </ol>	<ul style="list-style-type: none"> <li>Skills evaluation from direct observation</li> <li>Direct discussion</li> </ul>

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2. Work with the team and patients to optimize use of system resources	patients with bone benign and malignant hematopoietic disease.	
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### III. **Methods of Instruction:**

- A. Didactic: Direct discussion at the microscope and via informal lectures and slide conferences
- B. Clinical: Direct discussion at the microscope and via informal lectures and slide conferences

### IV. **Overview of student responsibilities**

- 1. Students will assist with daily review and sign out of peripheral blood and body fluid samples that have been sent for Pathology Review by both CUH and PHHS. Duties will include review of the electronic medical record for collection of relevant history, relevant prior laboratory studies, and relevant medicine history.
- 2. Students will use the above data in combination with the CBC and other relevant laboratory data to “present” each patient’s case to the Hematopathology Faculty.
- 3. The student and Faculty will review the pathologic and clinical material and formulate a report that includes any relevant pathologic diagnosis as well as suggestions for additional testing, when appropriate.
- 4. Students will assist with communication of relevant/urgent findings to the appropriate clinical team.
- 5. Students will observe sign out of bone marrow and tissue cases with the Hematopathology Faculty and trainees.
- 6. As necessary, students will assist with collection of relevant clinical history and prior results before “presenting” the bone marrow or tissue cases.

### IV. **Method of evaluation of students and requirements:** Evaluation based on assessment methods listed above, grade is Pass/Fail

- 1. Direct observation and assessment by faculty, trainees, and ancillary staff

**Contact Delo Gates in the Pathology Education Office for questions:**

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