

# 2102 Pediatric Hematology and Oncology

Course: Pediatric Hematology and Oncology Course Number: PED 2102

**Department:** Pediatrics

**Faculty Coordinator:** Martha Stegner, MD

**Assistant Faculty Coordinators:** N/A

**UTSW Education Coordinator Contact:** Anthony Lee ([Anthony.Lee@UTSouthwestern.edu](mailto:Anthony.Lee@UTSouthwestern.edu))

**Hospital: (Location of rotation)** Children’s Medical Center

**Periods Offered:** Periods 1-12

**Length:** 4 weeks

**Max # of Students:** 1 (Post Clerkship Students)

**First Day Contact:** Martha Stegner, MD

**First Contact Time:** 8:00am

**First Day Location:** Children’s Medical Center – Main Hospital 6<sup>th</sup> Floor –Physician’s Touchdown

**Prerequisites:** PED 1801 Pediatric Core Clerkship

## I. Course Description

Students will receive extensive exposure to the diagnosis and management of malignant diseases and benign hematologic disorders. Students will be integrated into the multidisciplinary Hematology and Oncology teams and will provide comprehensive subspecialty consultations and ongoing care in the outpatient setting for children with cancer and blood disorders. Students will be taught procedures including lumbar punctures, bone marrow biopsies and aspirates and will participate in multidisciplinary conferences, education didactic sessions, and read prepared curriculum material.

<u>Goals</u>	<u>Objectives</u>	<u>Assessment Methods</u>
<p><b>Patient Care:</b> Students are expected to gather essential and accurate information about their patients, perform comprehensive histories, physical examinations and evaluate pertinent test results for children with known or suspected malignant and hematologic disorders.</p>	<ul style="list-style-type: none"> <li>Students will make informed recommendations about diagnostic and therapeutic interventions based on information obtained from the patient and medical literature, and provide appropriate counseling, education and health maintenance teaching for patients and their families.</li> <li>Students will be taught how to perform lumbar punctures, bone marrow biopsies and aspirates.</li> </ul>	<ul style="list-style-type: none"> <li>Quality of Medical Records entries</li> <li>Skills evaluation from direct observation.</li> </ul>
<p><b>Medical Knowledge:</b> Students must demonstrate knowledge</p>	<ul style="list-style-type: none"> <li>Students must learn to identify and manage common</li> </ul>	<ul style="list-style-type: none"> <li>Each student is required to create a case presentation and to</li> </ul>

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<p>about the etiology, pathophysiology, natural history, evaluation and management of common pediatric malignant and hematologic disorders.</p>	<p>complications of therapy and to understand the long term impact of various therapeutic modalities including surgery, chemotherapy, immunotherapy, radiation therapy and hematopoietic cell transplantation.</p>	<p>present it to the faculty and fellows during the rotation. It is recommended that students present an interesting case they encountered during their rotation. However, they are also permitted to present on a topic of interest that relates to pediatric course topic.</p>
<p><b>Interpersonal and Communication Skills:</b> Students must be able to demonstrate interpersonal and communication skills that result in effective information exchange and teaming with patients and families.</p>	<ul style="list-style-type: none"> <li>• Use effective listening skills and elicit and provide information using effective nonverbal, explanatory, questioning, and writing skills. These include taking complete history from pediatric patient and their family and writing a careful evaluation in the chart.</li> <li>• Work effectively with others as a member of a health care team.</li> </ul>	<ul style="list-style-type: none"> <li>• Observations of faculty and staff.</li> </ul>
<p><b>Practice-Based Learning and Improvement:</b> Students must be able to assimilate scientific evidence and improve their patient care practices.</p>	<ul style="list-style-type: none"> <li>• Locate and assimilate evidence from scientific studies related to their patients' health problems, including literature searches.</li> <li>• Use information technology to manage information, access on-line medical information; and support one's education.</li> </ul>	<ul style="list-style-type: none"> <li>• Each student is required to create a case presentation and to present it to the faculty and fellows during the rotation. It is recommended that students present an interesting case they encountered during their rotation. However, they are also permitted to present on a topic of interest that relates to pediatric course topic.</li> <li>• Critical review of a relevant article.</li> </ul>
<p><b>Professionalism:</b> Students must demonstrate a commitment to carrying out professional responsibilities, adherence to ethical principles, and sensitivity to a diverse patient population.</p>	<ul style="list-style-type: none"> <li>• Demonstrate respect, compassion, and integrity; a responsiveness to the needs of patients and their families; accountability to patients and their families and the profession; and a commitment to excellence and on-going professional development.</li> <li>• Demonstrate a commitment to ethical principles pertaining to provision or withholding of clinical care, and confidentiality of patient information.</li> <li>• Demonstrate sensitivity and responsiveness to patients' culture, age, gender, and disabilities.</li> </ul>	<ul style="list-style-type: none"> <li>• Observations of faculty and staff.</li> </ul>

### II. Methods of Instruction

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## **Didactic:**

- Daily Pediatric Hematology and Oncology didactic lecture series
- Weekly Pediatric Hematology and Oncology Grand Rounds
- Weekly Hematology and Oncology patient review sessions with faculty
- Weekly Pediatric Oncology Tumor Board
- Weekly Hematology and Oncology fellow's educational conferences
- Weekly Pediatric Grand Rounds

## **Clinical:**

- Students attend outpatient clinic each day and participate in multidisciplinary clinic. This will include evaluation of new and established patients with hematologic and malignant disorders. This involves regular one on one contact with faculty as well as interactions with fellows, residents, advanced practiced nurses and nursing staff. Regular review of peripheral blood and bone marrow specimens will accompany these evaluations. Students will be invited to attend subspecialty clinical sessions dealing with stem cell transplantation, hemophilia, sickle cell disease and the neuro-oncology. Students will have the opportunities to observe and practice lumbar punctures, bone marrow biopsies and aspirates under direct supervision by faculty.

## **III. Overview of Student Responsibilities**

- Assist with evaluation of patient consults and clinic patients, follow all clinical data as acquired, present to attending.
- Students will be provided with access to a teaching file with topics that parallel the epidemiology of hematologic and malignant diseases in children as well as cover the content objectives for the pediatric board examinations. These articles directly correlate with the topics covered in the daily Pediatric Hematology and Oncology didactic lecture series.

## **IV. Method of Evaluation of Students and Requirements**

Pass-Fail Grades: There are no examinations. Completion of an online evaluation by the student is required for a pass grade. Individual faculty members will evaluate the students daily, in writing, in reference to Interpersonal skills, Medical Knowledge, Patient Care, Procedural Skills, Independent Learning and Professionalism. At the end of the rotation, the student will receive an evaluation that is an aggregate of individual faculty assessments.