Course Department, Number & Title: PED 820, Pediatric Hematology/Oncology

Course credit or length: 2-4 Weeks

Course directors and contact information: Dr. Paul Finch, finchp@marshall.edu (Contact Jill Gindlesperger 1 week before elective begins, 304-399-6515, Jill.Gindlesperger@chhi.org)

Course coordinator and contact information: Ashley O'Neill, 304.691.1371, oneill15@marshall.edu

Course location: Edwards Comprehensive Cancer Clinic

Course Description: This elective will introduce the student to the specialty of Pediatric Hematology/Oncology and will involve him/her in the management and care in the inpatient and outpatient setting with a broad spectrum of hematologic and oncologic disorders.

Additional Responsibilities of Student:
The student will be responsible for diagnostic work-up and management of hospitalized patients, consults, and outpatients under faculty supervision. Clinic days and the student’s schedule will be arranged on an individual basis. The student will spend time at the Joan C. Edwards Cancer Center and Cabell Huntington Hospital. The student is required to attend (and participate) in all scheduled resident lectures, grand rounds, case discussions, etc. while on this elective schedule permitting. A schedule of the weekly didactic sessions will be available for the student.

This elective does not require night call.

PEDIATRIC HEMATOLOGY/ONCOLOGY

Institutional Objective
Patient Care - Students must demonstrate the ability to provide patient care that is compassionate, appropriate, and effective for the treatment of health problems and the promotion of health.

Course Objective
The student will be introduced to the pediatric subspecialty of hematology/oncology and learn the historical, physical and laboratory findings diagnostic of hematologic or oncologic abnormalities and recognize the hematologic findings in disorders of other organ systems.

Outcome Measure
The student will demonstrate the basic ability to conduct a diagnostic workup and management of hospitalized patient, consults and outpatient patients under faculty supervision. The student will demonstrate the basic ability to formulate an appropriate screening and testing, treatment plan, ordering and interpreting laboratory and radiographic studies for the following common pediatric cancers, including but not limited to:

- Adrenal gland cancers
- Bone cancers
- Childhood brain and spinal tumors
- Childhood leukemia
- Eye cancers
- Kidney cancers
- Lymphomas
- Soft Tissue sarcomas
Institutional Objective

Medical Knowledge- Students must demonstrate knowledge of established and evolving biomedical, clinical, epidemiological and social-behavioral sciences, as well as the application of this knowledge to patient care.

Basic Science Course Objective
The student must demonstrate basic familiarity with the known chromosomal and molecular genetic abnormalities underlying hematologic/oncologic diseases, including the familial cancer syndrome.

Outcome Measure
The Attending will assess the student’s abilities and demonstration of knowledge during the course.

Basic Science Course Objective
The student must demonstrate basic familiarity with the strategies of oncologic treatment, management of complications, and with toxicities associated with chemoradiotherapy.

Outcome Measure
The Attending will assess the student’s abilities and demonstration of knowledge during the course.

Basic Science Course Objective
The student must demonstrate basic familiarity of red blood cell disorders in children.

Outcome Measure
The Attending will assess the student’s abilities and demonstration of knowledge during the course.

Basic Science Course Objective
The student must demonstrate basic familiarity of white blood cell disorders in children.

Outcome Measure
The Attending will assess the student’s abilities and demonstration of knowledge during the course.

Institutional Objective

Interpersonal and Communication Skills- Students must demonstrate interpersonal and communication skills that result in the effective exchange of information and collaboration with patients, their families, and health professionals.

Course Objective
The student will be able to communicate information effectively with members of the health team, including other physicians, nurses, physician and medical assistants, psychologists, school personnel and social workers.

Outcome Measure
The student will be able to demonstrate to faculty:
- The ability to communicate effectively with others
- The ability to perform concise oral case presentations
- The ability to work as a team member and leader

Course Objective
The student will be acquainted with the psychological and emotional aspects of childhood cancer and chronic hematologic disorders, and be involved in family genetic counseling sessions.

Outcome Measure
The Attending will assess the student’s abilities and demonstration of knowledge during the course.

Institutional Objective

Professionalism- Students must demonstrate a commitment to carrying out professional responsibilities and an adherence to ethical principles.
**Course Objective**
The student will behave in an ethical, responsible, reliable and dependable manner and be able to accept constructive feedback to improve performance. The student must demonstrate professionalism in interacting with other medical students and health care providers.

**Outcome Measure**
The student will be directly observed and assessed as part of the final grade by faculty to determine ethical behavior, reliability and level of dependability of the student and the student’s ability to accept criticisms or suggestions. The student will also be evaluated by faculty on:
- Professional behavior toward colleagues and other health care professionals
- Exhibition of integrity and honesty
- Acceptance of responsibility one’s own actions and decorum
- Sensitivity to gaps in knowledge exhibited by colleagues
- Ability to work effectively as a team member

**Institutional Objective**
**Systems-based Practice** - Students will be able to recognize and better understand the role of other health care professionals in the overall care of the patient.

**Course Objective**
The student will practice interacting with the health team, including other physicians, nurses, physician and medical assistants, school personnel and social workers to better understand the role of ancillary staff that is critical to the care of pediatric patients.

**Outcome Measure**
The student will orally demonstrate to faculty the ability to:
- Understand the concept of interdisciplinary teams to improve patient care
- Understand the multidisciplinary resources necessary to care optimally for patients
- Understand the need to collaborate with other members of the health care team to assure comprehensive patient care
- Understand the use of evidence-based, cost-conscious strategies in the care of patients

**Self-Directed Learning**
As a medical student, you are encouraged to use any unstructured time to read about your patients, research questions that arise during the day, prepare for case conferences, and prepare for student-faculty rounds. Preceptors have been specifically asked to look for evidence that you have read articles and books between clinic sessions. Use this time to build your knowledge of medicine and learn from your patients.

**ASSESSMENT METHODS**

**Preceptor Evaluation- 100%**
The preceptors’ evaluation will be based, but not limited to, upon the following factors:
- Attendance and participation in assigned activities
- Demonstration of knowledge and skills
- Maturity and Professionalism
- Oral Case presentation/patient workup
- Informal oral case discussions and presentations
- Self-directed learning

**Grade Mode: Pass/Fail**
Each component mentioned above must be passed in order to successfully complete the course.

MUJCESOM Policies: All medical students taking this course will comply with School of Medicine policies given at http://musom.marshall.edu/students/policies.

Required Reading: www.UpToDate.com As per assignment by faculty and Chief Residents
Recommended reading: Pediatric Hematology, Nathan and Orkin; Principles and Practices of Pediatric Oncology, Pizzo and Poplock.