Course Department, Number & Title: PED 807, Pediatric Critical Care

Course credit or length: 2 Weeks. This selective is available to only one student at a time.

Course directors and contact information: Dr. Jennifer Gerlach, 304.691.1371, kayser6@marshall.edu

Course coordinator and contact information: Emily Smith, 304.691.1371, pelfrey40@marshall.edu

Course location: Pediatric Intensive Care Unit, 5th Floor, at Cabell Huntington Hospital.

Course Description: The student will observe and participate in the management of the critically ill pediatric patient. Emphasis will be placed on assessing and recognizing critically ill children and developing early intervention and daily treatment plans. The student will have primary responsibility for one or two patients on daily rounds. Reading and participation in selected diagnoses and/or management reports related to the patients in the unit is expected.

Additional Responsibilities of Students: Students are to report to the Pediatric Intensive Care Unit at approximately 6:30 AM Monday through Friday unless otherwise instructed by attending or resident. Students will participate actively on patient rounds, including contributing to the treatment plan and communicating with consultants. Bedside teaching rounds are conducted daily with attending physicians and residents. Review of recent literature and evidence-based medicine will be discussed as it relates to the treatment of the patient in addition to cost effectiveness of care. The student is required to attend (and participate) in all scheduled resident lectures, grand rounds, case discussions, etc. while on this elective. A schedule of the weekly didactic sessions will be available for the student.

The student will work at least one day each weekend and take one 24 hours call during the elective.

PEDIATRIC CRITICAL CARE

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 able to recognize and assess the critically ill pediatric patient and institute acute therapeutic emergency measures under direct supervision.

Outcome Measure
The student will orally discuss with the faculty the management of critically ill pediatric patients in an intensive care setting.

Course Objective
The student will demonstrate the ability to accurately assess a critically ill pediatric patient, construct a thorough differential diagnosis and develop an appropriate diagnostic and therapeutic management plan.

Outcome Measure
The student will orally present at least three critically ill pediatric cases to a designated Attending. The patient cases must be one in which the student was directly involved. During this presentation, the student must demonstrate the basic ability to formulate a differential diagnosis as well as develop an investigatory plan, utilizing appropriate and cost-effective laboratory and radiological studies. Finally, an appropriate treatment plan must be formulated.

**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.

**Course Objective**
Students must demonstrate basic knowledge in pediatric medicine and its application in the resolution of critical care clinical problems.

**Outcome Measure**
The Attending will assess the students’ abilities and demonstration of knowledge during the course and the Case Presentation.

**Basic Science Course Objective**
The student will demonstrate the ability to apply knowledge of pathophysiologic states to the management of critically ill pediatric patients.

**Outcome Measure**
The student will orally demonstrate to a faculty member the application of knowledge of pathophysiologic states to the management of critically ill pediatric patients.

**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 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

**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
- 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 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

Mid Point Evaluation
In accordance with LCME standard ED-30, the Course Director will evaluate student performance at mid-point to review the student’s professional, clinical and academic performance up to that point. The formative evaluation must be reviewed with the student and the student will have an opportunity to discuss with the Course Director. The form must be signed by the student and returned to the Course Director. The Course Director shall then forward a copy of the form to the Office of Academic Affairs. The form will NOT however be included in the student’s official academic record. For two week electives, oral feedback shall be provided at the end of the first week.

Preceptor Evaluation- 75%
Grade Mode: Honors/Pass/Fail

The preceptors’ evaluation will be based upon, but are not limited to, the following factors:

- Attendance and participation in tutorials
- Conference attendance
- Maturity and Professionalism
- Oral Case Presentation/Patient Workup
- Participation in call
- The demonstration of basic knowledge of critically ill patient care.

Exam- 25%

The student will be required to take an exam at the end of this course. Your exam will be scheduled for the last Friday of the elective starting at 1:30pm in the small conference room beside my office 3606. You will have 45 minutes to answer 25 questions. Make sure that you meet with Dr. Loudin before the exam for a review. Should a student not score at least a 75% on the first attempt, the student will be given an opportunity to retest. If a 75% passage is obtained on the second attempt, the student’s exam score will be comprised of the average of both exam score. If passage is not obtained on the second attempt, the student will complete a written report on a topic selected by the clerkship director.

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

Required Reading: [www.UpToDate.com](http://www.UpToDate.com) As per assignment by faculty and Chief Residents