



University  
of  
Pittsburgh

School  
of  
Medicine

Office  
of  
Medical  
Education

[www.omed.pitt.edu](http://www.omed.pitt.edu)

412.648.8714

## Approaching Pediatric Disease through the Microscope: A Window into the Role of Pediatric Pathology In the Diagnosis of Childhood Disease Mini-Elective 2019

<u>Course Dates:</u>	April 1, 15, 22, 25* (Thursday) (with makeup day April 29) Mondays, 3:00-5:00 PM *tentative Thursday session to attend tumor board
<u>Maximum Students:</u>	2
<u>Class Year:</u>	MS1
<u>Course Director:</u>	Jennifer Picarsic, MD Assistant Professor of Pathology Sarangerajan Ranganathan, MD Professor of Pathology
<u>Contact Information:</u>	Rhonda Cunningham Phone: 412-692-5655 <a href="mailto:cunninghamwicksrl@upmc.edu">cunninghamwicksrl@upmc.edu</a>
<u>Registration:</u>	Betsy Nero, Office of Medical Education <a href="mailto:betsy@medschool.pitt.edu">betsy@medschool.pitt.edu</a>

### Description:

This mini-elective will involve four 2-hour sessions that will introduce the student to pediatric disease, with both macroscopic and microscopic visualization of childhood disease. The sessions will involve a combination of "hands-on" holding of pathologic specimens, double-scoping with the pathologist at the microscope to learn about specific childhood disease entities, hands-on frozen section activities, power point didactics, and clinical-radiology-pathologic correlation at Pediatric Oncology tumor board.

### Objectives:

1. To understand how Pediatric Pathology is integral to the practice of Pediatrics
2. To become familiar with the process of tissue specimen handling from biopsy to diagnosis
3. To gain an understanding in how tissue is sampled for pathologic evaluation for specific pediatric disease
4. To learn the basic anatomy of congenital heart malformations
5. To understand process of performing a frozen section
6. To develop an appreciation of the integration between the clinical, radiographic, and pathologic diagnosis in the care of a pediatric oncology patient.

### Requirements:

- Participation in all class sessions.
- Completion of PathXL pediatric pathology online exercises

### Pre-Requisites:

None

**Course Description:****Approaching Pediatric Disease Through the Microscope: A Window into the role of Pediatric Pathology in the Diagnosis of Childhood Disease**

**Course Directors:** Jennifer Picarsic, MD, Assistant Professor of Pathology and Sarangarajan Ranganathan, MD, Professor of Pathology

**Location:** Children's Hospital of Pittsburgh, Department of Pathology

**Objectives:**

1. To understand how Pediatric Pathology is integral to the practice of Pediatrics
2. To become familiar with the process of tissue specimen handling from biopsy to diagnosis
3. To gain an understanding in how tissue is sampled for pathologic evaluation for specific pediatric disease
4. To learn the basic anatomy of congenital heart malformations
5. To understand process of performing a frozen section
6. To develop an appreciation of the integration between the clinical, radiographic, and pathologic diagnosis in the care of a pediatric oncology patient.

**Requirements:**

- Participation in all class sessions
- Completion of PathXL pediatric pathology online exercises

**Course Outline:****Session 1: 3:00-5:00 pm Children's Hospital of Pittsburgh, Department of Pathology**

**Pathology intro and experience of being in the "hot-seat":** Students will receive an orientation to the pathology lab processes, experience preparing and cutting their own mock "intraoperative frozen sections" and review normal microanatomy at the microscope. Students will be administered a Pre-test assessment with digital pathology slides.

**Session 2: 3:00-5:00 pm Children's Hospital of Pittsburgh, Department of Pathology**

**Love your hearts:** Students will learn about congenital heart disease and anatomy by holding precious specimens and reviewing structural malformations with "hands-on" learning.

**Session 3: 3:00-5:00 pm, Children's Hospital of Pittsburgh, Department of Pathology**

**Send it to pathology:** What happens to a tumor after the surgeon removes a mass? Students will review and discuss macroscopic images of pediatric oncology specimens and learn how a pathologist diagnoses, grades, and helps stage a pediatric malignancy.

**Session 4\*: 3:00-5:00 pm, Children's Hospital of Pittsburgh, Department of Pathology**

**So what does this mean to for the patient?** Students will complete post-test assessment with digital pathology slides and review case modules of relevant pediatric specific diseases. The 2<sup>nd</sup> hour the student will attend the multidisciplinary pediatric tumor board to hear the discussion on specific cases in terms of clinical presentation, radiology images, pathology, and treatment questions.

**Course Evaluation:**

Each student will be asked to complete an evaluation of the course at its conclusion.