



# Professional Enrichment Course

University of Pittsburgh School of Medicine

Office of Medical Education

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## Approaching Pediatric Disease through the Microscope: A Window into the Role of Pediatric Pathology in the Diagnosis of Childhood Disease

<b>Enrollment Period:</b>	Spring 2023
<b>Course Dates:</b>	Feb 3, 10, 17, 24 from 1 PM to 3PM
<b>Student Max:</b>	2
<b>Class Year:</b>	MS1, MS-2
<b>Course Director:</b>	Claudia M. Salgado, MD. PhD. Assistant Professor of Pathology
<b>Course Administrator:</b>	Kim, Jinmi Phone: 412-692-6543 <a href="mailto:kimj31@upmc.edu">kimj31@upmc.edu</a>
<b>Location:</b>	Department of Pathology Children’s Hospital of Pittsburgh 4004 Penn Avenue, B258
<b>Registration:</b>	Via Amp Up – You will receive an email with enrollment info
<b>Course Description:</b>	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.
<b>Objectives:</b>	<ol style="list-style-type: none"><li>1. To understand how Pediatric Pathology is integral to the practice of Pediatrics</li><li>2. To become familiar with the process of tissue specimen handling from biopsy to diagnosis</li><li>3. To gain an understanding in how tissue is sampled for pathologic evaluation for specific pediatric disease</li><li>4. To learn the basic anatomy of congenital heart malformations</li><li>5. To understand process of performing a frozen section</li><li>6. To develop an appreciation of the integration between the clinical, radio-graphic, and pathologic diagnosis in the care of a pediatric oncology patient.</li></ol>

<b>Pre-Requisites:</b>	None
<b>Requirements:</b>	Participation in all class sessions. Completion of pediatric pathology online exercises
<b>Texts:</b>	

**Course Description:**

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

Course Directors: Claudia Maria Salgado, MD. PhD., Assistant Professor of Pathology

Location: Children’s Hospital of Pittsburgh, Department of Pathology

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1. To understand how Pediatric Pathology is integral to the practice of Pediatrics
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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 pediatric pathology online exercises

**Course Outline:**

Session 1: 1:00-3:00 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: 1:00-3:00 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: 1:00-3:00 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\*: 1:00-3:00 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 2nd 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.