



University  
of  
Pittsburgh

School  
of  
Medicine

Office  
of  
Medical  
Education

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

412.648.8714

# Neuroanatomy Applied—Stroke by Stroke Mini-Elective Spring 2019

<u>Course Dates:</u>	Session 1: April 1, 8, 15, 22 <b>Mondays, 1:00-4:00 PM</b>  Session 2: April 5, 12, 19, 26 <b>Fridays, 1:00-4:00 PM</b>
<u>Maximum Students:</u>	3 Students Per Group ( <b><u>cannot mix days/dates</u></b> )
<u>Class Year:</u>	MS1
<u>Course Directors:</u>	Laurie Knepper, MD knepperle@upmc.edu—412-647-9494  Cynthia Kenmuir, MD, PHD Neurology Stroke Attending kenmuircl@upmc.edu—814-889-3930
<u>Contact Information:</u>	Renee Craig craigr2@upmc.edu 412-648-8914—336C Scaife Hall
<u>Registration:</u>	Betsy Nero, Office of Medical Education betsy@medschool.pitt.edu

## Description:

Stroke is a leading cause of morbidity and mortality in the US. It is the most frequent reason patients are admitted to the inpatient Neurology service. The quick assessment and management of patients presenting with stroke is essential for optimal outcome. Evaluation of stroke patients begins with a quick decision as to which part of the brain is involved and which artery has caused this stroke. This helps to determine the possible cause of the stroke. Stroke Neurology is a direct and emergent application of neuroanatomy knowledge to guide the immediate evaluation and treatment of patients presenting with stroke. This mini elective will introduce how brain neuroanatomy is applied to the diagnosis and acute management of patients with stroke. This mini elective is being run during the neuroscience course to illustrate direct clinical application of neuroscience.

## Course Objectives:

1. Students will learn how to localize strokes based on presenting symptoms and exam
2. Students will be able to identify the stroke on imaging, name the location and arterial territory
3. Students will understand causes of stroke and acute and chronic management of stroke patients

## Requirements:

Attendance at all four sessions.

## Pre-Requisites:

None

## **COURSE OUTLINE**

### **Neuroanatomy Applied—Stroke by Stroke**

#### **Course Directors:**

Laurie Knepper, MD  
Cynthia Kenmuir, MD

#### **Participating Faculty:**

Laurie Knepper, MD—Neurology  
knepperle@upmc.edu  
412-647-9494

Cynthia Kenmuir, MD—Stroke Attending  
kenmuircl@upmc.edu  
412-648-8914

#### **Location:**

**UPMC Stroke Institute—PUH 4th Floor  
4th Floor Stroke Conference Room**

#### **Texts:**

Grays Clinical Neuroanatomy\*, Mancall, Elliot, editor, Chapter 6 – Vascular Supply of the Brain and Spinal Cord

\*Available online at HSLs

#### **Session 1–**

Dr. Kenmuir will review cerebrovascular anatomy and clinical presentations of common stroke syndromes. She will review of how to diagnose and manage stroke patients. Dr. Kenmuir will present illustrative cases with neuroimaging. 4th Floor Stroke Conference Room

#### **Session 2 –**

Stroke fellows, Stroke and Neurology attendings will review CT head, MRI brain images and cerebral vascular imaging with students. If scheduled, they will observe a cerebral angiogram with stroke faculty/fellows. 4th Floor Stroke Conference Room

#### **Session 3 and 4 –**

Student will round with the inpatient stroke team at PUH, which includes residents, fellows and stroke attendings.