

Basic and Advanced Neurovascular ANatomy

BANANA COURSE

Monday–Wednesday, November 4–6, 2019

New York, NY

nyulmc.org/bananacme





NYU Langone Health

Tisch Hospital

The University Hospital of NYU

Basic and Advanced Neurovascular ANatomy

COURSE DIRECTOR

Maksim Shapiro, MD

Clinical Associate Professor of Radiology and Neurology
NYU School of Medicine

COURSE PLANNERS

Breehan Chancellor, MD, MBA

Mattia Gilmartin, RN, PhD, FAAN

David S. Gordon, MD

Peter K. Nelson, MD

Erez Nossek, MD

Eytan Raz, MD, PhD

Howard A. Riina, MD, MPH

Omar Tanweer, MD

Linda Warren, NP

COURSE DESCRIPTION

Join us this November in New York City as the NYU Center for Stroke and Neurovascular Diseases launches a three-day course dedicated to the teaching of advanced neurovascular anatomy. Continued advances in minimally invasive neurovascular techniques such as treatment of stroke, cerebral aneurysms, brain and spine fistulas, arteriovenous malformations, tumors, and other pathology place increasing emphasis on the availability of advanced neurovascular anatomy training. This course is designed for neurovascular trainees, faculty, nurses, advanced practice providers, technologists, and other catheterization lab staff. Multimodality instruction will include angiography (including volumetric and stereoscopic imaging), MR, CT, graphic design, and virtual reality material. A mixture of lectures, interactive workshops, and online material, delivered by world-class neurovascular anatomy faculty, will be directed towards the goal of maximizing accurate diagnostic and successful procedural outcomes through knowledge of essential clinically-relevant anatomy.

EDUCATIONAL OBJECTIVES

After participating in this activity, clinicians should be able to:

- Define major features of spinal arterial and venous anatomy and identify vascular pathoanatomy of spinal dural fistulae
- Identify intracranial and extracranial arterial vascular disease and identify major arterial variants and their significance in performance of diagnostic and therapeutic procedures
- Identify intracranial and extracranial venous abnormalities and their significance in performance of diagnostic and therapeutic procedures

TARGET AUDIENCE

Neurovascular fellows and junior attendings in radiology, neurology, neurosurgery, cardiology, and vascular surgery

LOCATION

NYU Langone Health
Smilow Seminar Room
550 First Avenue
New York, NY 10016

COURSE FEES

Full: \$599

Reduced*: \$449

Fellows: \$449

Residents: \$299

* Reduced fee applies advanced practice providers and all other non-physician healthcare professionals.

Please note: This course is eligible for NYU School of Medicine Alumni discount.

REGISTRATION

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After 12 pm on November 1, 2019, only onsite registration is available, provided the course has not reached capacity. Onsite registrants will incur an additional \$20 charge. Registration is non-transferable.

ELECTRONIC SYLLABUS

Course syllabus will only be distributed electronically. A link will be sent the week of the course where you can view, download or print course information and presentations in advance. This link will also allow you to view the course syllabus on your smartphone, tablet, or laptop during the course. Course presentations remain available for one year after the course.

REFUND POLICY

Submit your request for a refund of course fees more than \$75 no later than 7 days before the course start date. No refunds will be issued for cancellations or no-shows after that time. To request a refund, email cme@nyulangone.org. A \$75 administrative fee will be deducted.

AGENDA

COURSE CANCELLATION POLICY

If a course is cancelled due to inclement weather, insufficient enrollment, or any other reason, NYU SOM will refund registration fees in full. NYU SOM will provide at least two weeks' advance notice if cancelling due to insufficient enrollment and as soon as possible in all other circumstances. NYU SOM is not responsible for any airfare, hotel, or other non-cancellable costs incurred by the registrant.

CONTACT INFORMATION

NYU School of Medicine
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CME ACCREDITATION STATEMENT

The NYU School of Medicine is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

CREDIT DESIGNATION STATEMENT

The NYU School of Medicine designates this live activity for a maximum of 21.5 *AMA PRA Category 1 Credits*[™]. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CONTINUING NURSING EDUCATION CONTACT HOURS

This program will award 21.5 continuing nursing education contact hours. Participants must complete a course evaluation to claim contact hours for this learning activity.

The NYU Meyers College of Nursing Center for Continuing Education in Nursing is accredited as a provider of continuing nursing education by the American Nurses' Credentialing Center's Commission on Accreditation.

PROVIDED BY

NYU School of Medicine

MONDAY, NOVEMBER 4, 2019

- 8:00 am Registration and Continental Breakfast**
- 8:30 Introduction and Imaging Techniques**
Maksim Shapiro, MD
- 9:00 Embryology—Arteries of the Cord and Brain**
Eytan Raz, MD, PhD
- 9:30 Spinal Arterial Anatomy Part 1**
Peter K. Nelson, MD
- 10:00 Spinal Arterial Anatomy Part 2 and Spinal Venous Anatomy**
Maksim Shapiro, MD
- 10:30 Coffee Break**
- 11:00 Spine, Neck, Brainstem, and Cerebellar Arterial Homology**
Peter K. Nelson, MD
- 11:30 PICA/Lateral Spinal Region**
Kittipong Srivatanakul, MD, MSc
- 12:00 pm AICA/SCA/PCA and Perforators**
Eytan Raz, MD, PhD
- 12:30 Brainstem/Cerebellar Venous Anatomy—Yun Peng Huang Tribute Lecture**
Maksim Shapiro, MD
- 1:00 Lunch**

WORKSHOPS — Track 1

- 2:00 Spinal Dural Fistula—Endovascular and Surgical Approaches**
Kittipong Srivatanakul, MD, MSc and Omar Tanweer, MD
- 3:00 Spinal Dural Fistula—Unusual Types—C1, Ascending Pharyngeal, Sacral**
Erez Nossek, MD and Eytan Raz, MD, PhD
- 4:00 Brainstem/Posterior Fossa Fistula**
Maksim Shapiro, MD and Lucas Elijovich, MD

OR

WORKSHOP — Track 2

- 2:00 Neurovascular Angiographic Anatomy Primer for Licensed Independent Practitioners, IR Technologists, and Nursing Staff**
Introductory neurovascular anatomy with emphasis on catheter angiographic imaging, consisting of lecture and question/answer sessions.
Breehan Chancellor, MD, MBA and David S. Gordon, MD

- 5:00 Adjourn and Light Refreshments**
- 6:00–8:00 pm Reception, Case Presentations, and Panel Discussion***

TUESDAY, NOVEMBER 5, 2019

- 8:00 am Registration and Continental Breakfast**
- 8:30 Aortic Arch, CCA, ECA Linguofacial Trunk**
Maksim Shapiro, MD
- 9:00 Intracranial Extradural ICA Part 1**
Kittipong Srivatanakul, MD, MSc
- 9:30 Intracranial Extradural ICA Part 2**
Eytan Raz, MD, PhD
- 10:00 Intracranial Intradural ICA (including Ophthalmic)**
Maksim Shapiro, MD
- 10:30 Coffee Break**
- 11:00 ECA—Occipital, IMAX, STA**
Maksim Shapiro, MD
- 11:30 Ascending Pharyngeal Artery**
Peter K. Nelson, MD
- 12:00 pm Meningeal Arteries**
Eytan Raz, MD, PhD
- 12:30 Dural Venous Sinuses and Venous Embryology**
Kittipong Srivatanakul, MD, MSc
- 1:00 Lunch**

WORKSHOPS

- 2:00 Cranial Nerves/Tumor Embolization/Complications**
Kittipong Srivatanakul, MD, MSc and David S. Gordon, MD
- 3:00 Cranial Nerves/Tumor Embolization/Complications**
Eytan Raz, MD, PhD and Maksim Shapiro, MD
- 4:00 Venous/Extracranial Anatomy**
Lucas Eljovich, MD and Omar Tanweer, MD

- 5:00 Adjourn and Light Refreshments**
- 6:00–8:00 pm Reception, Case Presentations, and Panel Discussion***

WEDNESDAY, NOVEMBER 6, 2019

- 8:00 am Registration and Continental Breakfast**
- 8:30 Anterior Cerebral Artery**
David S. Gordon, MD
- 9:00 Posterior Cerebral Artery**
Maksim Shapiro, MD
- 9:30 Middle Cerebral Artery**
Erez Nossek, MD
- 10:00 Choroidal Arteries**
Eytan Raz, MD, PhD
- 10:30 Coffee Break**
- 11:00 Surgical Intracranial Anatomy**
Howard A. Riina, MD, MPH
- 11:30 Cavernous Sinus Region**
Kittipong Srivatanakul, MD, MSc
- 12:00 pm Superficial Venous System**
Maksim Shapiro, MD
- 12:30 Deep Venous System**
Eytan Raz, MD, PhD
- 1:00 Lunch**

WORKSHOPS

- 2:00 Pediatric Vascular Anatomy**
Lucas Eljovich, MD and David S. Gordon, MD
- 3:00 Brain Dural Fistula**
Kittipong Srivatanakul, MD, MSc and Maksim Shapiro, MD
- 4:00 Brain Dural Fistula**
Eytan Raz, MD, PhD and Erez Nossek, MD

- 5:00 Concluding Remarks**
- 5:30 pm Adjourn**

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