

# The 22nd Annual PENN NEUROLOGY BOARD REVIEW 2025

Available Online from June 9 – December 31, 2025

A CME-ACCREDITED COURSE

Course Director Laura Stein, MD Co-Course Director Raymond S. Price, MD

In Conjunction with: Department of Neurology Perelman School of Medicine at the University of Pennsylvania

Register for the course online at https://upenn.cloud-cme.com/NBR2025

# THE 22ND PENN NEUROLOGY BOARD REVIEW 2025

#### **Program Overview**

The list of course topics and subtopics was adapted from the ABPN's description of the board and recertification examinations. The time allotted for each topic is based upon the approximate distribution of the subject matter as given by the ABPN. Our course will provide an excellent review of board exam and recertification topics primarily through case-based learning and help the learner identify areas that require further study. The learner can then review and prepare further in these areas prior to taking the examination.

#### **Target Audience**

This course is designed for neurology residents, fellows, and practicing neurologists.

#### **Educational Goal**

Upon completion of this activity, participants will be able to prepare for either the American Board of Neurology and Psychiatry (ABPN) Initial Certification Examination in Neurology, the Initial Certification Neurology with Special Qualifications in Child Neurology Examination, or the Recertification Examination.

#### Learning Objectives

At the conclusion of this educational activity, the participant should be able to:

- Prepare for either the American Board of Neurology and Psychiatry (ABPN) Board Examination in Neurology or the Recertification Examination.
- Discuss topics in neurology basic science, including neuroanatomy, neuropathology and neurochemistry.
- Discuss common and new topics in clinical adult neurology, including neurovascular, movement disorders, sleep, headache, epilepsy, nueromuscular, neuro-immunology, neuro-infectious disease and behavioral neurology
- Review the diagnostic criteria for chronic migraine and the available treatments
- Review the diagnostic criteria for relapsing remitting and primary progressive multiple sclerosis and the available treatments

#### Accreditation



In support of improving patient care, Penn Medicine is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME), the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

#### **Designation of Credit**

Penn Medicine designates this live activity for a maximum of 47.0 *AMA PRA Category 1 Credits*<sup>TM</sup>. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

**Certificates and Transcripts:** After the conference has concluded, all participants will receive a follow-up email with instructions and a link. Once participants submit the request for credit, the earned credits will be available for viewing on a transcript and certificates will be available for printing at *https://upenn.cloud-cme.com*. Please note that the individual certificate will not be mailed.

#### **Comments from past participants:**

"I have absolutely enjoyed my experience and learning thus far. I have been to other neurology reviews and board reviews and this, in many ways, tops all of them."

"The best review course for the neurology board exam."

"Please allow me to thank you and your staff for helping me pass the Neuro Boards. I personally feel that the course made a difference."

#### **Benefits of Attendance**

Our course will provide an excellent review of board exam and recertification topics and help the learner identify areas that require further study. The learner can then review and prepare further in these areas prior to taking the examination.

#### **Hosting Institution**

The *Penn Neurology Board Review* is hosted by the Department of Neurology, University of Pennsylvania Health System. The department has a long tradition of excellence in the neurosciences and is internationally known for its strengths in many of the neurologic subspecialties. Other lecturers include those from the Departments of Psychiatry and Radiology.

#### THE PENN NEUROLOGY BOARD REVIEW

#### Prerecorded Didactic Lectures Available June 9 – December 31, 2025

We understand that preparing for the boards means spending many hours studying and reviewing. In an effort to provide our attendees with the comprehensive review needed to study for the boards within their own busy schedule, about 47 hours of pre-recorded video lectures are included in the course registration fee and are available online from June 1 until December 31, 2025. In addition to 47 hours of didactic lectures, there are an additional 5 hours of pre-recorded case-based discussions with multiple choice questions with 5 answer choices just like the ABPN examination. Attendees will be able to use these case-based sessions to assess their knowledge and then listen to a discussion about the reasoning behind the correct and incorrect answers. This will allow our attendees to review and study the videos at their own pace. The full list of pre-recorded lectures is listed on the agenda.

### ADDITIONAL SELF STUDY OPTIONS

There is an option to purchase 800 additional questions for self study. 100 of these questions are received via email, or to your mobile device, three times per week beginning when you register until 12/31/25 to more continuously prepare you for the American Board of Psychiatry and Neurology Examination. Utilization of this technology has been shown to increase scores on National Board of Medicine examinations. For an additional fee, all preregistered, paid attendees can choose these options below:

- Option 1: Mock Exam 2025 (300 questions)
- Option 2: Mock exam 2025, plus 800 more questions that includes 4 board-style questions to your mobile device every other day, and additional mock exam style questions.
- Option 3: Extended Access to materials. Access extended through February 6, 2026

# Please note: All materials will be made available to you electronically through your UPenn Cloud CME profile when you register for the board review and select this option.

Once you register for the *Annual Neurology Board Review* you will have immediate access to the prerecorded content and mock exams (if applicable).

#### Limitations

It is impossible for us to cover all of the material necessary to answer every question on the board or recertification exams. Similarly, we cannot guarantee that enrolling in this course will result in passing the board or the recertification exams.

#### Register Online at: https://upenn.cloud-cme.com/NBR2025

#### **Registration Fees**

The registration fee for the *Penn Neurology Board Review* are \$1,200 for physicians and \$600 for residents and fellows. Registration includes access to about 50 hours of pre-recorded lectures and presentation slides and 5 hours of pre-recorded case-based discussions with multiple choice questions through December 31, 2026.

**Option 1:** The fee for the *Mock Exam* is \$800. You must register for the 2025 Board Review in order to purchase the *Mock Exam*.

**Option 2:** The Additional Study Option is \$900 and includes the 2025 *Mock Exam*, four daily board-style review questions (100 total) sent by text or email and 700 additional questions with answers and references for self-study.

**Option 3:** The fee for those needing access to the pre-recorded presentations and Board-style questions through February 6, 2026 is an additional \$200.

#### Need to Register by Mail?

**Please note:** mailed registrations may take more than 5-10 business days before they are received because we continue to experience longer delays in receiving mail. We encourage all attendees to register online. See the registration form for mailing instructions. All registrations will be confirmed by email as long as your registration is received before February 6, 2026.

#### Be sure to check your spam box for emails regarding this conference.

#### **Discount Policy**

Individuals taking this 2025 course may take a future *Penn Neurology Board Review Course* and receive a discount of 25% off of the additional offerings (option 1, 2, 3) if you do not pass the 2025 board exam or 75% off of the additional offerings (option 1, 2, 3) if you do not pass the 2025 recertification exam. Proof of non-passing score and course registration will be required to be eligible for the discount.

#### **Cancellation and Refund Policy**

Once registered and paid, attendees will receive access to content purchased. Therefore once you are enrolled, <u>no refunds can be issued</u>.



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## Pre-recorded Case-based learning

#### **Neuroanatomy Through Clinical Cases**

Raymond Price, MD • Neuroanatomy Application of Recorded Talks

## Neuro-ophthalmology Through Clinical Cases

- Ali Hamedani, MD
  - Afferent Neuro-ophthalmology
  - Application of Recorded Talks
  - Efferent Neuro-ophthalmology
  - Application of Recorded Talks

#### Neuropathology Through Clinical Cases

Raymond Price, MD

 Neuropathology Application of Recorded Talks

#### Sleep Through Clinical Cases

David Raizen, MD, PhD

- Normal Sleep Physiology
- Sleep Disorders and Treatment

#### Psychiatry and Substance Abuse

Through Clinical Cases Robert M. Weinrieb. MD

Robert M. Weinrieb, MD

- Phenomena of withdrawal, tolerance, etc.
- Therapy-medication and psychological
- Personality-genetic and environmental influences
- Neurologic side effects of alcohol and substance abuse

#### Neuro-Immunology Through Clinical Cases

Dina Jacobs, MD

- Molecular pathogenesis of multiple sclerosis
- Immunotherapy in multiple sclerosis

#### Neuroimaging Through Clinical Cases John Woo, MD

- MRI, MRA, and MRV (exclusive of material in Neurovascular section)
- CT scan
- Angiography (exclusive of material in Neurovascular section)

#### Headache Through Clinical Cases

Katherine Hamilton, MD

- Migraine diagnosis and treatment (prophylactic and abortive)
- Other types (tension, cluster, chronic daily, medication overuse)

#### **Movement Disorders Through Clinical Cases**

Nabila Dahodwala, MD

- Hyperkinetic disorders including: tremor, tardive dyskinesia
- Hypokinetic disorders -
- Parkinson's disease, parkinsonism
- Movement Disorder Videos

#### Neuromuscular Diseases Through Clinical Cases Raymond Price, MD

- Neuropathies
- Myopathies
- Disorders of neuromuscular transmission

#### Epilepsy and EEG Through Clinical Cases

Taneeta M. Ganguly, MD

- Epileptic phenomena, pseudo-seizures
- Genetics of epilepsy
- Anticonvulsants

#### **Prerecorded Didactics**

Neuroanatomy Neurochemistry Neuroendocrinology Neuropathology Neurovascular Neuro-ophthalmology Neuromuscular Neurophysiology Neurogenetics Neuroradiology Neuro-oncology Neuro-infectious Metabolic Disorders Phakomatoses Development and Disorders of Childhood Movement Disorders Neuroimmunology/MS States and Disorders of Consciousness Brain Death/Death by Neurologic Criteria Neuropsychology EEG/Epilepsy Headache Sleep Psychiatry and Substance Abuse Neurology and Systemic Disease Cognitive

#### **Topics Covered in Online Syllabus Without Talks**

Cerebrospinal Fluid Normal CSF Constituents and Volume Ventricular System; CSF Pathways Pathologic CSF Patterns (Cellular, Chemical Enzymatic, Serologic)

#### **Physician-patient Relationship**

Interview Techniques and Mental Status Testing Management of Difficult Patients Relationship with Other Professionals Particularly Common "Errors" Death and Dying Normal Grief vs. Depression Role of Physician Attitudes in Therapy Therapy in Liaison Psychiatry Legal Responsibilities Factitious Phenomena Suicide Neuropharmacology Antioxidants Autonomic Agents Neurologic Side Effects of Systemic Drugs

#### Forensic Psychiatry and Neurology, Epidemiology, Transcultural Psychiatry, Public Mental Health, and Systems-based Practice Forensic Psychiatry/Neurology

Epidemiology Transcultural Psychiatry Community Psychiatry, Public Mental Health Systems-based Practice



Unless otherwise indicated, the Course Director and Faculty are all part of the University of Pennsylvania Health System and Children's Hospital of Philadelphia, Philadelphia, PA

#### **Course Director**

Laura Stein, MD Director, Neurology Residency Associate Professor of Neurology Director, Neurology Residency

#### **Course Co-Director**

Raymond S. Price, MD Professor of Clinical Neurology Chief of Neurology, Pennsylvania Hospital

#### Faculty – Department of Neurology

Geoffrey K. Aguirre, MD, PhD Professor of Neurology

Shawn J. Bird, MD Professor of Neurology Director, Electromyography Laboratory

Nabila Dahodwala, MD Professor of Neurology

Marissa Digiovine, MD Associate Professor of Neurology and Pediatrics

Lauren B. Elman, MD Professor of Neurology

David Fischer, MD Assistant Professor of Neurology

Taneeta M. Ganguly, MD Assistant Professor of Clinical Neurology

Ali Hamedani, MD Assistant Professor of Neurology

Katherine Hamilton, MD Assistant Professor of Neurology Medstar Georgetown University Hospital Washington, DC

Dina A. Jacobs, MD Professor of Neurology Associate Director, MS Center

Eric Lancaster, MD, PhD Associate Professor of Neurology Kathleen Lawler, DPhil, ABPP Director of Neuropsychology

Grant Liu, MD Professor of Neurology and Ophthalmology

Eric Marsh, MD, PhD Associate Professor of Neurology and Pediatrics

Michael L. McGarvey, MD Associate Professor of Neurology

Steven R. Messé, MD Professor of Neurology

James Morley, MD, PhD Associate Professor of Neurology

John Pollard, MD Adjunct Professor of Neurology

**Amy A. Pruitt, MD** Professor of Neurology Director, General Neurology Division

David Raizen, MD, PhD Professor of Neurology

#### Faculty – Department of Psychiatry

**Robert M. Weinrieb, MD** Professor of Psychiatry Chief Psychiatric Consultant, Liver Transplant Service Chief of Consultation Liaison Psychiatry

#### Faculty – Department of Radiology John H. Woo, MD

Associate Professor of Radiology

#### Disclosures

Penn Medicine, Office of Continuing Medical and Interprofessional Education, adheres to the ACCME Standards for Integrity and Independence in Accredited Continuing Education. Faculty disclosure information will be made available in the conference materials and syllabi. Faculty members are also expected to disclose to participants any discussions of off-label and/or investigational uses of pharmaceutical products or devices within their presentations.

Nondiscrimination Statement The University of Pennsylvania values diversity and seeks talented students, faculty, and staff from diverse backgrounds. The University of Pennsylvania does not discriminate on the basis of race, sex, sexual orientation, gender identity, religion, color, national or ethnic origin, age, disability, or status as a Vietnam Era Veteran or disabled veteran in the administration of educational policies, programs or activities; admissions policies; scholarship and loan awards; athletic, or other University administered programs or employment. Questions or complaints regarding this policy should be directed to Executive Director, Office of Affirmative Action and Equal Opportunity Programs, 3600 Chestnut Street, Sansom Place East Suite 228, Philadelphia PA 19104-6106 or 215-898-6993 (Voice) or 215-898-7803 (TDD). www.upenn.edu/affirm-action.

## The 22nd Annual PENN NEUROLOGY BOARD REVIEW 2025

#### You may register by credit card or check online at: https://upenn.cloud-cme.com/NBR2025

#### Questions? Contact us at:

Phone: 215-898-6400 or 215-898-8005 • penncme@pennmedicine.upenn.edu

# Please note we are unable to accept faxed or mailed registration forms with credit card payment.

Please print or type

Name (First)		(Last)	
Academic Degree			
Medical Specialty			
Affiliation (Hospital, O	ffice, or Company)		
Address (	or 🗌 Home)		
City	State	Zip	
Phone		Fax	
E-mail			
-	re-payment is required to be racticing physicians	e officially registered)	

□ \$600 for residents and fellows

#### **Optional Purchases:**

(Must register and pay for course in order to purchase any additional options)

**Option 1:** Mock Exam

□ \$800

- Option 2: Mock exam, 4 board-style questions every other day, and 800 additional questions \$900
- Option 3: Extended Access to the Pre-recorded and Board-Style Questions \$\Box\$ \$\$200 for access through February 6, 2026

Please total registration payment and optional purchases

Total: \$\_\_\_\_\_

#### **Payment Method**

- If you are paying by check or credit card, register online at https://upenn.cloud-cme.com/NBR2025
- If you are paying by check, you may mail your completed registration form and check made payable to The Trustees of the University of Pennsylvania/CME to: Conference Manager, Office of Continuing Medical & Interprofessional Education, Academic Programs, Penn Medicine, JMEC, SPE, 6th floor 3400 Civic Center Blvd, Bldg. 421, Philadelphia, PA 19104-5162