

# The 21st Annual PENN NEUROLOGY BOARD REVIEW 2024

Available Online from June 1 – December 31, 2024

A CME-ACCREDITED COURSE

Course Director Raymond S. Price, MD

> Co-Course Director Laura Stein, MD

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

You may print the brochure and/or register for the course online. https://upenn.cloud-cme.com/NBR2024

# THE 21ST PENN NEUROLOGY BOARD REVIEW 2024

#### **Program Overview**

This course is specifically designed for neurologists taking or retaking the Initial Certification Neurology Examination, the Initial Certification Neurology with Special Qualifications in Child Neurology Examination or the Recertification 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.

#### 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.

#### **Hosting Institution**

The 21st Penn Neurology Board Review 2024 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.

#### **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.

#### 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."

## THE 21ST PENN NEUROLOGY BOARD REVIEW 2024

#### Prerecorded Didactic Lectures Available June 1 – December 31, 2024

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 50 hours of pre-recorded video lectures are included in the course registration fee and are available online from June 1 until December 31, 2024. In addition to 50 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 12/31/24 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 2024 (300 questions)
- Option 2: Mock exam 2024, 4 board-style questions to your mobile device every other day, and 800 additional questions
- Option 3: Extended Access to materials. Access extended through February 7, 2025

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 21st Annual Neurology Board Review 2024 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.

#### **Registration Fees**

The registration fee for the 21st Penn Neurology Board Review 2024 are \$1,000 for physicians and \$800 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, 2023.

The fee for those needing access to the pre-recorded presentations and Board-style questions through February 7, 2025 is an additional \$200.

The fee for the *Mock Exam* is \$750. You must register for the 2024 Board Review in order to purchase the *Mock Exam*.

The Additional Study Option is \$850 and includes the 2024 *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.

#### How to Register Online visit: https://upenn.cloud-cme.com/NBR2024

If you do not already have a UPenn Cloud CME profile, you will need to create one by visiting: *https://upenn.cloud-cme.com* and clicking 'Sign-in' and sign-in using your email address and then selecting the "Don't have an account?" option.

Please be sure you do not already have an existing UPenn Cloud CME account before creating a new profile. All Penn Medicine employees, faculty and staff must sign-in using your UPenn ID.

#### If you are registering with a credit card, please register online at

*https://upenn.cloud-cme.com/NBR24*. We cannot accept faxed or mailed registration forms with credit card information. To pay by check, complete the registration form and mail it in with your check. Please see the registration form for mailing information. Please note: mailed registrations can take up to 5-10 business days before they are received.

#### **Discount Policy**

Individuals taking this 2024 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 they do not pass the 2024 board exam or 75% off of the additional offerings (option 1, 2, 3) if they do not pass the 2024 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, no refunds can be issued.

The 21st Annual

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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

- 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

#### Neuro-Immunology Through Clinical Cases Dina Jacobs, MD

Molecular pathogenesis of multiple sclerosis

• Immunotherapy in multiple sclerosis

#### 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 Altered States of Consciousness 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**

Raymond S. Price, MD Professor of Clinical Neurology Director, Neurology Residency

Co-Course Director Laura Stein, MD Assistant Professor of Neurology

#### 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

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 Associate 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 Assistant 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 Associate Professor of Neurology Faculty – Department of Psychiatry Louis Littman, MD, PhD Clinical Assistant Professor of Psychiatry

Robert M. Weinrieb, MD Associate 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.

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#### You may register by credit card or check online at: https://upenn.cloud-cme.com/NBR2024

#### 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		
□ \$1,000 for p	re-payment is required to b practicing physicians idents and fellows	be officially registered)
Optional Purchases: (Must register and p Option 1: Mod \$750	ay for course in order to p	urchase any additional options)
<b>Option 2: Moo</b> □ \$850	ck exam, 4 board-style que	stions every other day, and 800 additional questions
	ended Access to the Pre-rect or access through February	orded and Board-Style Questions

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/NBR2024
- 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