
October 16, 2019
12:00 PM - 1:00 PM

Target Audience
This program has been designed for Pediatrics, Neurology, Physical Medicine And Rehabilitation, Psychiatry, Internal Medicine, Pathology - Anatomic, Pathology - Neuropathology, Psychiatry And Neurology - Addiction Psychiatry, Psychiatry And Neurology - Brain Injury Medicine, Psychiatry And Neurology - Child And Adolescent Psychiatry, Psychiatry And Neurology - Epilepsy, Psychiatry And Neurology - Forensic Psychiatry, Psychiatry And Neurology - Geriatric Psychiatry, Psychiatry And Neurology - Clinical Neurophysiology, Psychiatry And Neurology - Consultation-Liaison Psychiatry, Psychiatry And Neurology - Neuromuscular Medicine, Psychiatry And Neurology - Pain Medicine, Psychiatry And Neurology - Sleep Medicine, Psychiatry And Neurology - Vascular Neurology, Radiology - Neuroradiology, Psychiatry And Neurology - Hospice And Palliative Medicine, Psychiatry And Neurology - Neurodevelopmental Disabilities

Series Educational Objectives
After participating in this regularly scheduled series, participants should be able to:
1. Demonstrate increased knowledge of established and novel treatments for common and unusual neurologic disease.
2. Demonstrate increased knowledge of the pathogenesis of common and unusual neurologic disease.
3. Demonstrate increased knowledge of established, evidence-based guidelines for team-based management of neurologic disease.

Session Educational Objectives
After completing this educational activity, participants should be able to:
1. Describe the heterogeneity of traumatic brain injury (TBI) and how that complicates clinical research and clinical practice.
2. Explain novel neuroimaging techniques that identify trauma-related abnormalities.
3. Summarize advances in blood biomarkers that have the potential to revolutionize clinical research and practice in TBI.

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.

For more information, please contact
Corona Choice-Cohen, vanna hing
(215) 662-3360, (215) 662-3370
cohenc@uphs.upenn.edu, vanna.hing@uphs.upenn.edu

Check your transcript online at https://upenn.cloud-cme.com
Designation of Credit

Physicians: Penn Medicine designates this live activity for a maximum of 1.00 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Nurses: This activity is for 1.00 contact hours.

Pharmacists: This activity is not approved for pharmacy contact hours

PAs: AAPA accepts certificates of participation for educational activities certified for AMA PRA Category 1 Credit™ from organizations accredited by ACCME or a recognized state medical society. PAs may receive a maximum of 1.00 Category 1 credits for completing this activity.

Acknowledgement of Commercial Support*
None
Disclosure of Relevant Financial Relationships and Unapproved Uses of Products

It is policy at Penn Medicine Office of Continuing Medical and Interprofessional Education for individuals who are in a position to control the content of an educational activity to disclose to the learners all relevant financial relationships that they have with any commercial interest that provide products or services that may be relevant to the content of this continuing education activity. For this purpose, we consider relationships of the person involved to include financial relationships of a spouse or partner.

The intent of this policy is to ensure that Penn CME/CE certified activities promote quality and safety, are effective in improving medical practice, are based on valid content, and are independent of control from commercial interests and free of commercial bias. Peer review of all content was conducted for all faculty presentations whose disclosure information was found to contain relationships that created a conflict of interest relevant to the topic of their presentation. In addition, all faculty were instructed to provide balanced, scientifically rigorous and evidence-based presentations.

The staff in the Office of Continuing Medical and Interprofessional Education (CME and IPCE), have disclosed that they have no relevant financial relationships with any commercial interests related to the content of this educational activity. Any peer reviewer with a potential conflict of interest will recuse themselves from the peer review process.

<table>
<thead>
<tr>
<th>Name of individual</th>
<th>Individual’s role in activity</th>
<th>Name of commercial interest/Nature of relationship</th>
</tr>
</thead>
<tbody>
<tr>
<td>Corona Choice-Cohen, N/A</td>
<td>Activity Coordinator</td>
<td>Nothing to disclose</td>
</tr>
<tr>
<td>Geoffrey Aguirre, MD, PhD</td>
<td>Co-Director</td>
<td>Member scientific advisory board-Nia Therapeutics-Medical device for treatment of memory loss in traumatic brain injury</td>
</tr>
<tr>
<td>Raymond Price, MD</td>
<td>Course Director</td>
<td>Nothing to disclose</td>
</tr>
<tr>
<td>John Best, MD</td>
<td>Faculty Planner</td>
<td>Nothing to disclose</td>
</tr>
<tr>
<td>Adam Kruszewski, MD</td>
<td>Faculty Planner</td>
<td>Nothing to disclose</td>
</tr>
<tr>
<td>Jeanie Luciano, CRNP</td>
<td>Nurse Planner</td>
<td>Nothing to disclose</td>
</tr>
<tr>
<td>John Best, MD</td>
<td>Other Planning Committee Member</td>
<td>Nothing to disclose</td>
</tr>
<tr>
<td>Frances Jensen, MD</td>
<td>Other Planning Committee Member</td>
<td>Nothing to disclose</td>
</tr>
<tr>
<td>Joanna Mattis, MD, PhD</td>
<td>Other Planning Committee Member</td>
<td>Nothing to disclose</td>
</tr>
<tr>
<td>Ramon Diaz-Arrastia, MD, PhD</td>
<td>Faculty</td>
<td>Stock Shareholder (excluding mutual funds)-Neural Analytics, Inc-Robotic transcranial Doppler ultrasound instrumentation to assess cerebrovascular function</td>
</tr>
</tbody>
</table>
Relevant financial relationships are those relationships in which the individual benefits by receiving a salary, royalty, intellectual property rights, consulting fee, honoraria, ownership interest (e.g., stocks, stock options or other ownership interest, excluding diversified mutual funds), or other financial benefit. Financial benefits are usually associated with roles such as employment, management position, independent contractor (including contracted research), consulting, speaking and teaching, membership on advisory committees or review panels, board membership, and other activities from which remuneration is received or expected.