Target Audience
This program has been designed for Family Medicine, Pediatrics, Neurology, Psychiatry, Internal Medicine, Internal Medicine - Infectious Disease

Series Educational Objectives
After participating in this regularly scheduled series, participants should be able to:
1 Apply in clinical practice approaches for preventing HIV infection and getting newly diagnosed patients into care
2 Individualize ARV therapy for the treatment-naïve and treatment-experienced patients
3 Manage the aging patient with HIV infection, including issues associated with cardiovascular and bone disease

Session Educational Objectives
After completing this educational activity, participants should be able to:
1 Describe the role(s) of gastrointestinal CD8+ T-cells in chronic HIV infection.
2 Explain the characteristics of tissue-resident T-cells and how they differ from circulating T-cells.
3 Identify mucosa-associated invariant T-cells (MAIT cells) and examine their role in the host immunity to microbial pathogens within the context of HIV infection.

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
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 not approved for nursing 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* Janssen Therapeutics, A Division of Janssen Products LP, ViiV Healthcare, Merck Sharp & Dohme Corp., Gilead Sciences, Inc.

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Check your transcript online at https://upenn.cloud-cme.com
**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>Rick Gordon, BS</td>
<td>Activity Coordinator</td>
<td>Advisor or Review Panel Member-Gilead-HIV</td>
</tr>
<tr>
<td>Ian Frank, MD</td>
<td>Course Director</td>
<td>Nothing to disclose</td>
</tr>
<tr>
<td>Brian Boyle, MD</td>
<td>Other Planning Committee Member</td>
<td>Nothing to disclose</td>
</tr>
<tr>
<td>Oliver Fultz, JD</td>
<td>Other Planning Committee Member</td>
<td>Nothing to disclose</td>
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<tr>
<td>Mila Kostic, NA</td>
<td>Other Planning Committee Member</td>
<td>Nothing to disclose</td>
</tr>
<tr>
<td>Barbara Shacklett, PhD</td>
<td>Faculty</td>
<td>Nothing to disclose</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.