Radiology Grand Rounds  9/17/2019  Is There a Robot in the House? The Use of Machine Learning and Informatics with Ultrasound and Other Clinical Applications.
September 17, 2019
12:00 PM - 1:00 PM

Target Audience
This program has been designed for Diagnostic Radiology, Interventional Radiology And Diagnostic Radiology, Nuclear Medicine, Radiology - Neuroradiology, Radiology - Nuclear Radiology, Radiology - Pain Medicine, Radiology - Pediatric Radiology

Series Educational Objectives
After participating in this regularly scheduled series, participants should be able to:
1 Identify and utilize dose reduction techniques to improve patient safety
2 Apply health care quality improvement processes to increase medical error identification and reporting
3 Analyze new scientific advances in image acquisition, quantification, processing, and visualization and apply technique to advance precision medicine

Session Educational Objectives
After completing this educational activity, participants should be able to:
1 Analyze prior research in machine learning and informatics, with particular application to ultrasound
2 Discover new opportunities for research and collaboration in informatics, involving partnerships between physicians, scientists, and engineers

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*
None

For more information, please contact
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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>
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</thead>
<tbody>
<tr>
<td>Lori Ehrich, CMP</td>
<td>Activity Coordinator</td>
<td>Nothing to disclose</td>
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<tr>
<td>Angela Scott,</td>
<td>Activity Coordinator</td>
<td>Nothing to disclose</td>
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<tr>
<td>Mary Scanlon, MD</td>
<td>Co-Director</td>
<td>Nothing to disclose</td>
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<tr>
<td>David Mankoff, MD, PhD</td>
<td>Course Director</td>
<td>Board Member-ImaginAb-N/A</td>
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<tr>
<td>Mitchell Schnall, MD, PhD</td>
<td>Other Planning Committee Member</td>
<td>Nothing to disclose</td>
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<tr>
<td>Hersh Sagreiya, MD</td>
<td>Faculty</td>
<td>Nothing to disclose</td>
</tr>
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</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.