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ENRICH & Forum 2016

Title

Background
The advent of electronic health records (EHR), coupled with nearly $30 billion in government stimulus to encourage EHR implementation, has prompted a 78 percent adoption rate of EHR and a rapidly increasing number of wired examination rooms, posing a conundrum for clinicians and patients both of whom are interacting with a “third presence” in the room. Integrating computers in the exam room while maintaining patient-centeredness is a challenge at one end of the spectrum and a disaster at the other end.
Enter human factors, a branch of engineering that pursues the scientific understanding of interactions between humans and technology in order to optimize well-being and overall system performance. Human factors research has been used extensively in aviation, and other high reliability industries such as nuclear power, in which precise coordinated actions of humans and technology can mean the difference between life and death.

Emerging from this technological intrusion are proven effective practices that light the way for learners to optimally incorporate computers in routine patient visits. Guided by other industries’ successful adoption and integration of computers, the healthcare technology challenge will become a distant memory as clinicians learn to combine computers and patient-centeredness for optimal patient care and experience.

Learning Objectives
Describe at least three models of computer integration in the exam room
Assess the pros and cons of each computer integration model in the exam room
Create a diagram of ideal computer location in exam room, which suits participant’s needs
Describe the value of computer integration for the patient and the clinician

Teaching Methods
This session will include audience surveys and participation, so attendees understand effective practices, as well as challenges, in this important area of patient care.

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<tr>
<th>Topic</th>
<th>Audience Participation</th>
<th>Time</th>
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<tbody>
<tr>
<td>1</td>
<td>Patient-centeredness pendulum</td>
<td>Survey on patient-centered courses, teaching</td>
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<td>2</td>
<td>Emergence of EHR and its acceleration</td>
<td>Survey on EHR adoption and teachings</td>
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<td>3</td>
<td>Human factors in technology: how airline pilots incorporated high tech in the cockpit</td>
<td>Short didactic presentation</td>
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<td>4</td>
<td>3 ways to integrate computers in the exam room</td>
<td>Survey on use of each way &amp; table discussion on the pros and cons</td>
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<td>5</td>
<td>What the literature reveals</td>
<td>Short didactic presentation</td>
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<td>6</td>
<td>Case studies of successful integration</td>
<td>Invitation to discuss successful integration</td>
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<td>7</td>
<td>Teaching effective practices for integration</td>
<td>Invitation to discuss teachings</td>
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Teaching Materials
PPT for each of the seven areas above
Annotated bibliography of current and relevant references
Demo on three ways computers are integrated in the exam room
Audience surveys of attendees’ computer integration
Interactive discussion on how attendees integrate computers
Evaluation Description
Before workshop begins, the audience will receive a short survey, which will be repeated at the conclusion of the workshop to
gauge the change in views and to assess learnings.