A Comprehensive Simulation-Based Curriculum for Teaching Non-Interpretive ACGME Skills and Evidence Based Concepts Relevant to Radiology Resident Training
Presenting Author:
Dan Shilo, MD

Author(s):
Dan Shilo¹, Gregory Emmanuel¹, Brian Folan¹, Natalya Kusheleva¹, Jerel Chacko¹, Josh Greenstein¹, Noor Ahmad¹, Heidi Baer¹, David Sarkany¹

Institutions:
¹Staten Island University Hospital, Staten Island, NY
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The purpose of this exhibit is to present a comprehensive simulation curriculum employed at our institution to teach the ACGME non-interpretive skill requirements as well as clinical skills relevant to the training of diagnostic radiology residents.
The Patients Safety Institute is an 1,100 square foot facility equipped with state of the art simulation and audiovisual / recording systems employed to educate trainees in evidence based medicine and team communication skills.

Our radiology department has utilized the resources of the center to create a simulation curriculum devised specifically for radiology residents.
WRITING THE CURRICULUM

Using a standardized simulation template, all sessions are carefully scripted with specific objectives in mind.

Evidence-based debriefings are prepared in advance to highlight the most important teaching points and anticipate the areas of greatest strength/weakness.
SIMULATIONS

On a monthly basis, our residents engage in manikin-based simulation training on various topics including ACLS/BLS, contrast premedication, allergic contrast reactions, seizure management, and IR periprocedural sepsis and opiate overdose.

Each session includes groups of 4-5 residents that are placed into a simulated rapid response in which they must evaluate and manage a patient in distress.

After each scenario, an evidence based debriefing takes place with radiology and emergency department attendings, senior radiology residents, and simulation nurses.
SESSION EVALUATION

Following the debriefing which takes place at the end of each session, residents are asked to evaluate the session and provide feedback.

Over the past 3 years, the curriculum has undergone massive improvement and continues to expand due to the input from the learners.

Buy-in from the target audience is critical to effective learning.
RESULTS

Our residents (n=12, including R1-R4 trainees) were polled regarding the relevance and efficacy of the simulation program, grading responses between 1 (strongly disagree) and 5 (strongly agree):

<table>
<thead>
<tr>
<th>Questionnaire Responses</th>
<th>Response</th>
</tr>
</thead>
<tbody>
<tr>
<td>The simulation curriculum is relevant to my training:</td>
<td>4.42</td>
</tr>
<tr>
<td>I feel more comfortable handling a contrast reaction after simulation training:</td>
<td>4.42</td>
</tr>
<tr>
<td>ER involvement has improved the simulation experience:</td>
<td>4.50</td>
</tr>
<tr>
<td>I feel the curriculum should be continued in future years:</td>
<td>4.67</td>
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</tbody>
</table>
DISCUSSION

Clinical skills are becoming an increasingly important part of the practice of radiology.

Our simulation program is a unique, comprehensive full year curriculum which effectively teaches important evidence based concepts relevant to radiology resident training.
THANK YOU

Questions?

Dan Shilo, MD
Staten Island University Hospital
shilo.dan@gmail.com