A Simulated First Night-onCall (FNOC): Establishing Community and a Culture of Patient Safety

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BACKGROUND AND SPECIFIC AIMS

The transition from medical student to intern presents a major patient safety concern. To support transitioning trainees and cultivate a culture of safety in our medical center we developed an authentic, immersive First Night-onCall (FNOC) simulation to ensure new interns are ready to address common patient safety issues.

The FNOC event was a 4-hour immersive simulation during which new interns, in groups, were challenged to: conduct an ethical informed consent, evaluate a decompensating patient and activate a rapid response team (escalation), recognize a mislabeled blood culture bottle, and participate in patient safety rounds.

METHODS

Prior to First Night-onCall Event
Interns were required to view 5 WISE-onCall modules

First Night-onCall Event
First Night-onCall: An institutional Patient Safety event to support incoming interns

EXAMPLE OF GROUP PERFORMANCE DURING FNOC

How many teams recognized the label error?

N= 44

8 Residency Programs Represented
Internal Medicine = 78 Interns
Emergency Medicine = 15 Interns
Surgery = 15 Interns
ObGyn = 11 Interns
Neurology = 20 Interns
Orthopedics = 15 Interns
Neuro Surgery = 3 Interns
Surgery = 14 Interns

Assessments
• Pre-Post Assessment Survey
• Retrospective Pre-Post Attitudes Survey
• Group Assessments during FNOC Activities
• Standardized Patient/Nurse Assessment of the Lead Learner

EXAMPLE FROM THE RETROSPECTIVE PRE-POST ATTITUDES SURVEY

Compared to before the Patient Safety Orientation, my comfort to …
1- declined a lot, 2- declined a little, 3- no change, 4- improved a little, 5- improved a lot

<table>
<thead>
<tr>
<th>Item</th>
<th>N= 133</th>
<th>Declined 1 or 2</th>
<th>Did Not Change 3</th>
<th>Improved 4 or 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Report a medical error</td>
<td>0</td>
<td>4 % (6)</td>
<td>95% (127)</td>
<td></td>
</tr>
<tr>
<td>Escalate a situation</td>
<td>0</td>
<td>4 % (6)</td>
<td>96% (127)</td>
<td></td>
</tr>
<tr>
<td>Involve an attending/supervisor*</td>
<td>0</td>
<td>6% (8)</td>
<td>94% (124)</td>
<td></td>
</tr>
</tbody>
</table>

FNOC PROGRAM EVALUATION: Interns rated FNOC as an effective way to learn patient safety (99%), a good approach to improve readiness (96%), fun (93%), and engaging (100%).

LESSONS LEARNED AND CONCLUSIONS

As a group, incoming interns are not yet consistently able to demonstrate common safety practices. Engaging immersive simulation-based group experiences like FNOC may reduce this variability and instill aspirational institutional norms, generating a culture of safety and providing a framework for effective on-boarding strategies for novice health care providers.

A large scale, high quality experiential patient safety simulation is a feasible and acceptable approach to engage learners and increase learning outcomes. Timing of the educational event was important for priming learning and serving as an introduction to the community and institutional expectations. Lasting impact will be evaluated by follow-up assessments, which will include rates of rapid response team activation and patient safety incident reporting across our clinical enterprise.

ACKNOWLEDGEMENTS

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