Assessment of Ebola Training Efficacy Using Learner Surveys

Faith Cantrell, MSN, RN, Education Nurse Specialist | Janet E. Craighead, PhD, RN, Healthcare Research Psychologist | Jody DeSitterg, MSN, RN-BC, Education Nurse Specialist

BACKGROUND
In the fall of 2014, Education Nurse Specialists at UCHealth’s Clinical Education and Innovation Center (CEIC) in Windsor, CO, were tasked with providing training for management of patients with high risk infectious diseases (HRIDs) in anticipation of caring for patients with Ebola.

PURPOSE
The study objective was to evaluate learner perceptions of the efficacy of the Ebola training.

METHOD
We used the IcER Model© as the theoretical framework for this evaluation.

RESULTS

<table>
<thead>
<tr>
<th>Class Length</th>
<th>Learner Role</th>
<th>Don/Doff PPE</th>
<th>Unique Procedures</th>
<th>Simulation Scenarios</th>
<th>Overall Content</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-hour</td>
<td>Hot Team</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>4-hour</td>
<td>ED Staff</td>
<td>x</td>
<td>x</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

F(2,176) = 231.51, p < .001, partial $\eta^2 = .781$; All post hoc comparisons $p < .001$.

<table>
<thead>
<tr>
<th>Class Length</th>
<th>Learner Role</th>
<th>Confidence to Safely Don/Doff PPE (n=183)</th>
<th>Confidence to Remain Safe while Caring for a Patient with Ebola (n=179)</th>
</tr>
</thead>
<tbody>
<tr>
<td>8-hour</td>
<td>Hot Team</td>
<td>x</td>
<td>x</td>
</tr>
<tr>
<td>4-hour</td>
<td>ED Staff</td>
<td>x</td>
<td>x</td>
</tr>
</tbody>
</table>

F(2,178) = 230.39, p < .001, partial $\eta^2 = .752$; All post hoc comparisons $p < .001$.

IMPLICATIONS

- Since similar findings were obtained regardless of class length, the 4-hour class will be used for future refresher training, which will improve training time and costs.
- Training procedures for clinicians caring for patients with Ebola may be generalizable to training for other HRIDs.
- Since similar findings were obtained regardless of class length, it is possible that similar results could be obtained for training procedures for clinicians caring for patients with other HRIDs.
- It is possible that similar results could be obtained for training procedures for clinicians caring for patients with other HRIDs.

REFERENCES