HIRAID –
A Framework For New ED Nurses

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Ruperto K & Fethney J.
Background

Need for an emergency nursing patient assessment framework?

- Prevalence of adverse events
- Rise in novice ED nurses
- No universal or validated system to guide ED nursing assessment
An Emergency Nursing Assessment Framework

LITERATURE REVIEW

HIRAID: An evidence-informed emergency nursing assessment framework

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HIRAID: An Evidence-Informed Emergency Nursing Assessment Framework

- **H** - History
- **IR** - Identify Red flags
- **A** – Assessment
- **I** – Interventions
- **D** – Diagnostics

**REASSES & COMMUNICATE**

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Mixed Methods Study Using Full Immersion Simulation

- Pre-post design

- 38 emergency nurses < 3 years post graduate experience

- 5 NSW hospital EDs

- Data collection December 2013

- Follow-up surveys April-June 2014
Key outcomes

Decreased Anxiety and Increased Self-Efficacy

Changes in anxiety levels pre and post intervention

Changes in total self-efficacy levels pre and post intervention
Key outcomes

Higher Quality Patient Assessments

<table>
<thead>
<tr>
<th></th>
<th>Pre-intervention mean (SD)</th>
<th>Post-intervention mean (SD)</th>
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<tbody>
<tr>
<td>Patient history</td>
<td>39.7 (11.0)</td>
<td>63.4 (17.7)</td>
</tr>
<tr>
<td>Red flags identified</td>
<td>45.0 (10.0)</td>
<td>70.8 (15.3)</td>
</tr>
<tr>
<td>Red flags handed over</td>
<td>48.8 (16.6)</td>
<td>55.4 (14.1)</td>
</tr>
<tr>
<td>Reassessments</td>
<td>51.2 (28.8)</td>
<td>63.0 (28.9)</td>
</tr>
</tbody>
</table>
Key outcomes

Assertive and Structured Communication

Number of nurses

MO review requested | Graded assertiveness | ISBAR-MO | ISBAR-RN

Pre-Intervention | Post-intervention
Key outcomes

Enhanced Competence in Non-Technical Skills

<table>
<thead>
<tr>
<th></th>
<th>Pre-intervention mean (SD)</th>
<th>Post-intervention mean (SD)</th>
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<tbody>
<tr>
<td>Communication</td>
<td>4.66(1.68)</td>
<td>6.26(2.0)</td>
</tr>
<tr>
<td>Decision-making</td>
<td>4.89 (1.45)</td>
<td>5.71(1.9)</td>
</tr>
<tr>
<td>Situational awareness</td>
<td>4.68(1.77)</td>
<td>5.58(2.1)</td>
</tr>
<tr>
<td>Task Management</td>
<td>4.9(1.66)</td>
<td>6.12(2.2)</td>
</tr>
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Facilitators and Barriers to Implementation

Key facilitators:
- Majority were satisfied with intervention
- HIRAID recommended for new grads or new nurses to the ED
- 89.4% (n=34) of participants recommended HIRAID be implemented before or within three months of commencing work in ED

Key barriers
- Learning and remembering HIRAID components
- Lack of confidence in using HIRAID
- Changing existing practice
Recommendations for Future Practice and Research

— HIRAID has potential to improve emergency nursing practice and patient safety

— Interventions needed to enhance facilitators and modify barriers to optimise uptake and use

— Further evaluation is needed in the clinical setting

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Thank you