A health care system to meet our needs

In Situ Simulation Training In the Emergency Department and Operating Suite

The Power of Innovation

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Our Inspiration: The Start of the Journey

**Issues**

- Lack of confidence
- Unfamiliar with clinical skills
- Principles of teamwork, leadership and communication
- Loss of trained individuals
- IIMS reports
Our Innovation: How We Improved Care/Services

Aim

Design, implement and evaluate an interdepartmental, interdisciplinary in situ simulation program in the ED and OT
Our Idea Comes to Life

- Standardised scenarios
- Specific medical and nursing learning objectives
- Standardised forms
- Incidents of suboptimal care
Our Idea Comes to Life

Debriefings
Our Innovation: How We Improved Care/Services

- Incidents of suboptimal care:
  - Situational awareness: 34
  - Planning failure: 21
  - Resource utilisation: 20
  - Communication failure: 74
  - Leadership issue: 33
  - Clinical skill deficit: 27
  - Knowledge deficit: 50

Number of incidents
## Our Innovation: How We Improved Care/Services

<table>
<thead>
<tr>
<th>ISSUE IDENTIFIED</th>
<th>ACTION</th>
<th>OUTCOME</th>
</tr>
</thead>
<tbody>
<tr>
<td>Manometer connector doesn't fit mask</td>
<td>Raised at department management meeting</td>
<td>Appropriate equipment obtained and assembled correctly same day</td>
</tr>
<tr>
<td>No filters in resuscitation bay for Phenytoin</td>
<td>Raised at department management meeting with Pharmacist</td>
<td>Pharmacist added filters in drug room where Phenytoin kept</td>
</tr>
<tr>
<td>Unclear location of nasopharyngeal airways</td>
<td>Raised at department management meeting</td>
<td>Moved NPA to resuscitation trolley</td>
</tr>
<tr>
<td>3% saline – No dose guidelines and administration guidelines</td>
<td>Raised at department management meeting with Pharmacist</td>
<td>Pharmacist added dose/kg and administration instructions to sticker on 3% saline bag</td>
</tr>
</tbody>
</table>
Our Innovation: How We Improved Care/Services

Immediate new learning

- 11 new skill
- 6 new knowledge
- 3 new role

NSW Government Health
Our Innovation: How We Improved Care/Services

“I’m a hands on person. I had to do an adrenaline infusion last night and I knew what to do because I learnt it in the mock last week.” ED RN

“Great to have the opportunity to practice a clinical emergency that rarely occurs. Now I feel confident.” OT RN

“I have had to be team leader in a paediatric emergency in another hospital and I felt more confident and knew what to do.” ED Doctor

“It’s great to see you practice so you know what you are doing.” Parent in ED in nearby bedspace
Our Innovation: How We Improved Care/Services

Benefits of programme

• Increased confidence, competence & efficiency
• Interdisciplinary learning
• Varied learning styles
• Increased confidence in clinical service
• Reducing suboptimal care
• Systems improvements
• On demand
Our Insights: What We Have Learned

Challenges

• Time and space
• Staff trained in simulation
• Willing participants
Our Insights: What We Have Learned

- Don’t be afraid to express your ideas
- Collaborate with other areas and experts
- Be flexible
- Use existing resources including personnel
- Share your findings
Acknowledgements

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References

