

A health care system to meet our needs

In Situ
Simulation
Training In the
Emergency
Department and
Operating Suite

The Power of Innovation

Jenny Major
Nurse Educator
The Emergency Department
The Children's Hospital at Westmead



Health

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



Health



Our Idea Comes to Life

- Standardised scenarios
- Specific medical and nursing learning objectives
- Standardised forms
- Incidents of suboptimal care

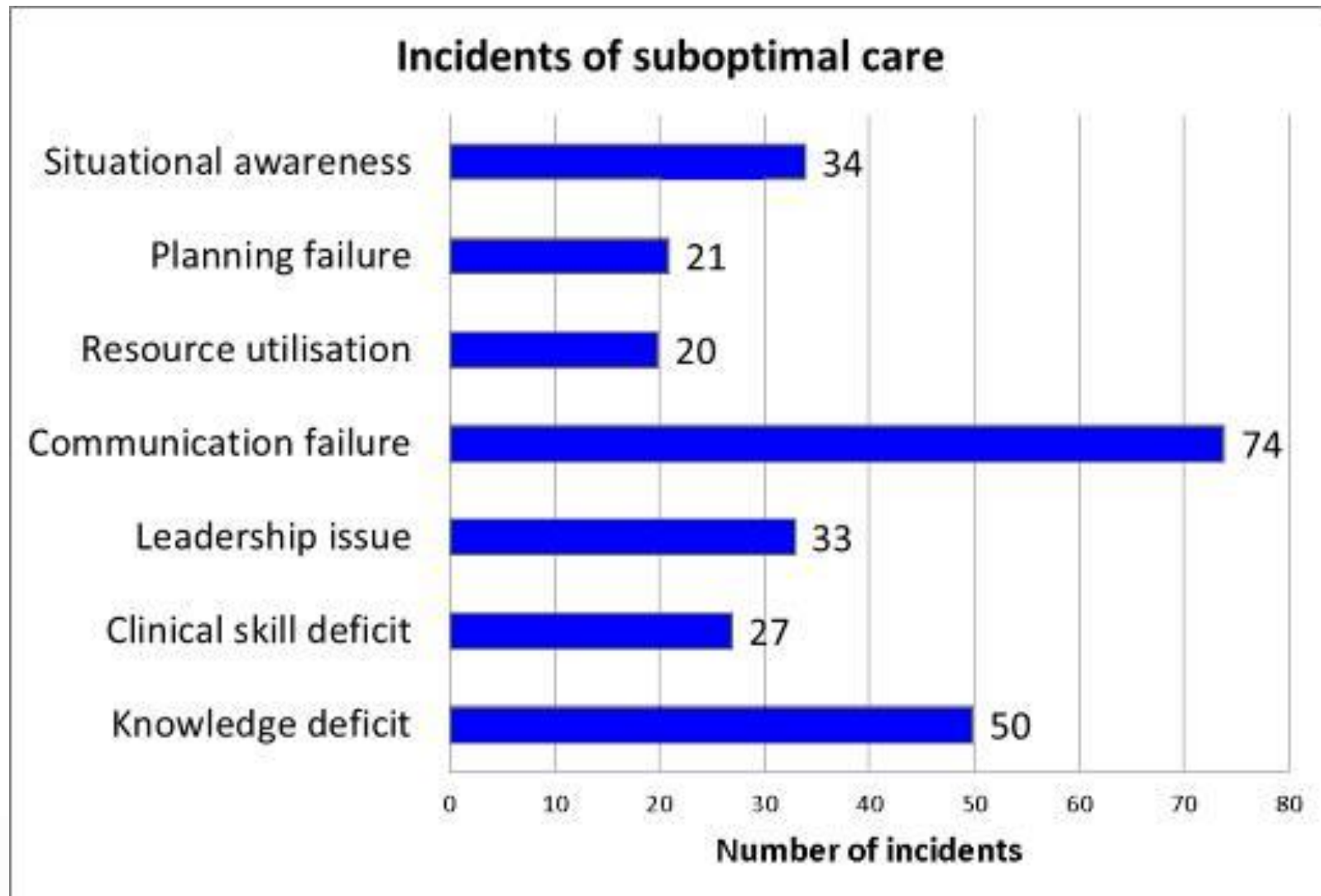


Our Idea Comes to Life

Debriefings



Our Innovation: How We Improved Care/Services

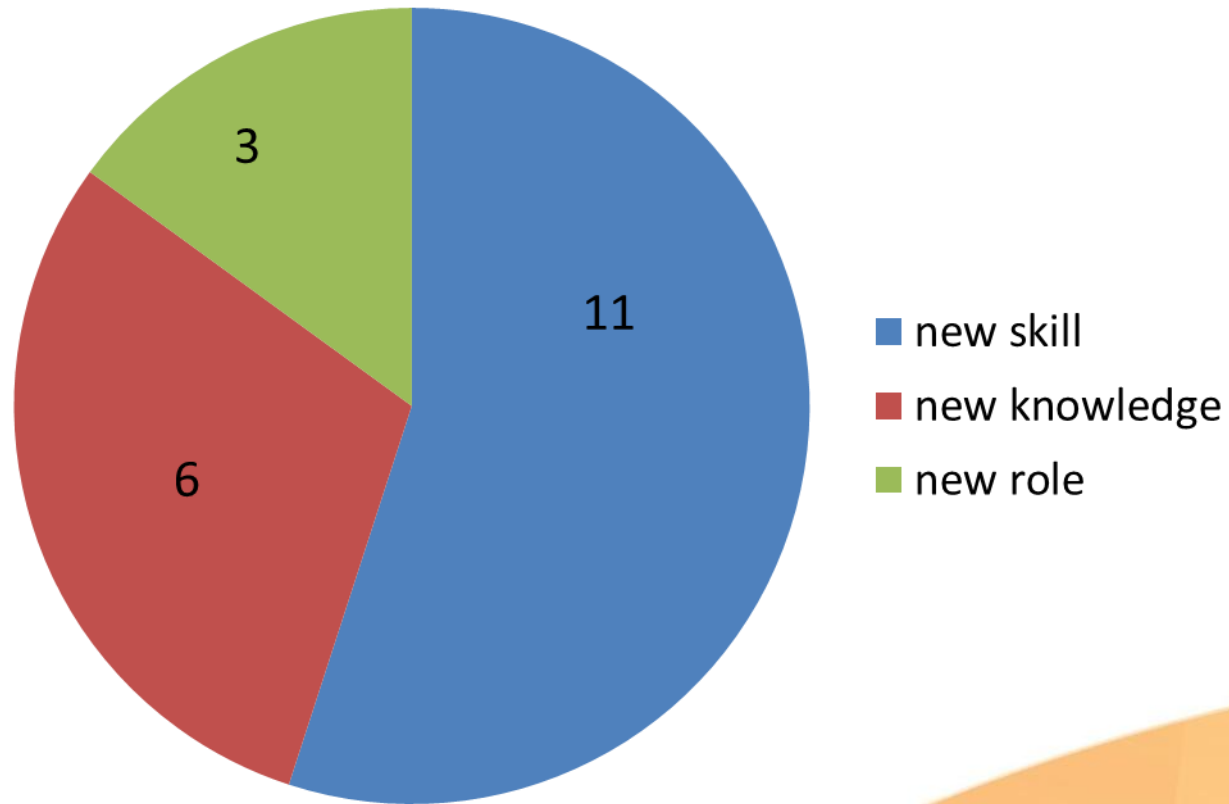


Our Innovation: How We Improved Care/Services

ISSUE IDENTIFIED	ACTION	OUTCOME
Manometer connector doesn't fit mask	Raised at department management meeting	Appropriate equipment obtained and assembled correctly same day
No filters in resuscitation bay for Phenytoin	Raised at department management meeting with Pharmacist	Pharmacist added filters in drug room where Phenytoin kept
Unclear location of nasopharyngeal airways	Raised at department management meeting	Moved NPA to resuscitation trolley
3% saline – No dose guidelines and administration guidelines	Raised at department management meeting with Pharmacist	Pharmacist added dose/kg and administration instructions to sticker on 3% saline bag

Our Innovation: How We Improved Care/Services

Immediate new learning



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

The education team would like to thank the clinical staff from the Emergency Department and Operating Theatres / Recovery for their enthusiasm in adopting the program.

Dr A, Christoff, Paediatric Emergency Physician, The Children's Hospital at Westmead.

K.Gardner, Clinical Nurse Educator, Anaesthetics and Recovery, The Children's Hospital at Westmead.

Dr F.O'Leary, Paediatric Emergency Physician, The Children's Hospital at Westmead.

Dr S.Wharton, Anaesthetist, The Children's Hospital at Westmead.

J.Wolfsberger, Clinical Nurse Educator, ED, The Children's Hospital at Westmead.

References

- 1.Braddock, C. 2012. 'Project TRANSFORM Simulation training improves clinical outcomes'. *Stanford Hospital and Clinics Medical Staff Update*. Vol. 36, no. 2. Viewed 27 June 2012, <<http://med.stanford.edu/shs/update/archives/FEB2012/transform.htm>>
- 2.Donaldson, L Chief Medical Officer 2008. 150 years of the Annual Report of the Chief Medical Officer: On the state of public health. Viewed 27 June 2012, <http://www.dh.gov.uk/en/Publicationsandstatistics/Publications/AnnualReports/DH_096206>
- 3.Riley, W., Davis, S., Miller, K. et al. 2011 'Didactic and simulation nontechnical skills team training to improve perinatal patient outcomes in a community hospital.' *The Joint Commission Journal on Quality and Patient Safety* vol 37, no. 8, pp. 357-364.