The use of wireless technology and hand held computers in the acute care setting to improve patient safety
Dr Maureen Farrell
Austin Health Ian Baldwin
Virtual Tour

Higher bandwidth (broadband) (2Mb)
Following slides related to Austin Health are all copyright to Professor Baldwin
“Now, which one did they say not to turn off?”

But need competent nurses.....

Post Op Cardiac Surgery
How do we ensure ‘Competency’?
Check - Lists....Protocols

Shift Checklist and Planner

Nursing Standards - Summary
Training Programs: Theory and Practical

2007 Intake Graduate Certificate in Intensive Care Nursing.
Traditional Curriculum : Time and Experience(s)

- Set experiences anticipating effective learning
- Limited control over specifics
- Hurdles – assessments / appraisals
- No guarantees
- Designed to fit the calendar year, work needs
- Achievement determined by summative process – exams
- 12 month period, 6 monthly exams
Problems with Current Education Models for Clinical Learning

- Based on fixed time
- Variable clinical environments to provide development
- Potential for individuals to influence learning
- Difficulty standardizing clinical learning
- New learning styles of the digital world
- Need to respond to the ‘Y’ generation

- Why ? gen.
- NET gen.
- Now gen.
- 24/7 gen.
- ‘Me’ gen.
- Generation mobile
Need to Track Competency Development

- Modulate learning experience(s)
- Allows for minimum skills sets
- Standardize within groups
- Give better feedback
- Improve certification standards and documentation for this
Potential for Personal Computer to Track Clinical Learning

How to do it.

Which software, program,

Need for speed, real time, simple entry

Individual work space, mobile…wireless
Concept of Competency Logging

Network Server

- PDA wireless connection
  - Mobile
  - Personal, individual

- PC – Clinical Teacher
- PC – Shift manager
- PC – Post grad.

- Reports
- Audits
- Transcripts
Shift Profile 1st

Austin Health ICU Student Shift Report

Emp No: 152154
First Name: Mickey
Last Name: Mouse
Date: 15/07/2008

Patient Category: [ ]

Neurology | Respiratory | Cardiovascular | GIT | Professional Care | Metabolic | Renal |

- Management of ICP monitoring
- Removal of ICP drain
- Observe brain death tests
- Post op day neurosurgery

Shift:
- D
- E
- N

Pod:
- A
- B
- C

Validation By: [ ]

Shift Ranking: 5

Created By Patrick McCrohan June 2008

Add
Close
# Student Competency Summary

**Demo: Created by Patrick McCrohan June 2008**

<table>
<thead>
<tr>
<th>Name</th>
<th>Avg Shift Score</th>
<th>Management of ICP monitoring</th>
<th>Removal of ICP drain</th>
<th>Observe brain death tests</th>
<th>Post op day neurosurgery</th>
<th>Intubation</th>
<th>Tracheostomy change</th>
<th>Tracheostomy</th>
<th>Surgical Tracheostomy</th>
<th>Bronchoscopy</th>
<th>ICC management</th>
<th>Post op CABG, s admission</th>
<th>Pacemaker threshold check</th>
<th>PICCO use</th>
<th>SVO2 catheter use</th>
<th>PA catheter removal</th>
<th>Cardiac output measurement</th>
<th>Cardiac output measurement</th>
<th>Removal of chest drains</th>
<th>IABP patient</th>
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ICU Procedure Log

Data may be entered using the PDA’s Stylus or Keyboard. Dropdown boxes are available for simplified data entry.