The use of wireless technology and hand held computers in the acute care setting to improve patient safety

Dr Maureen Farrell

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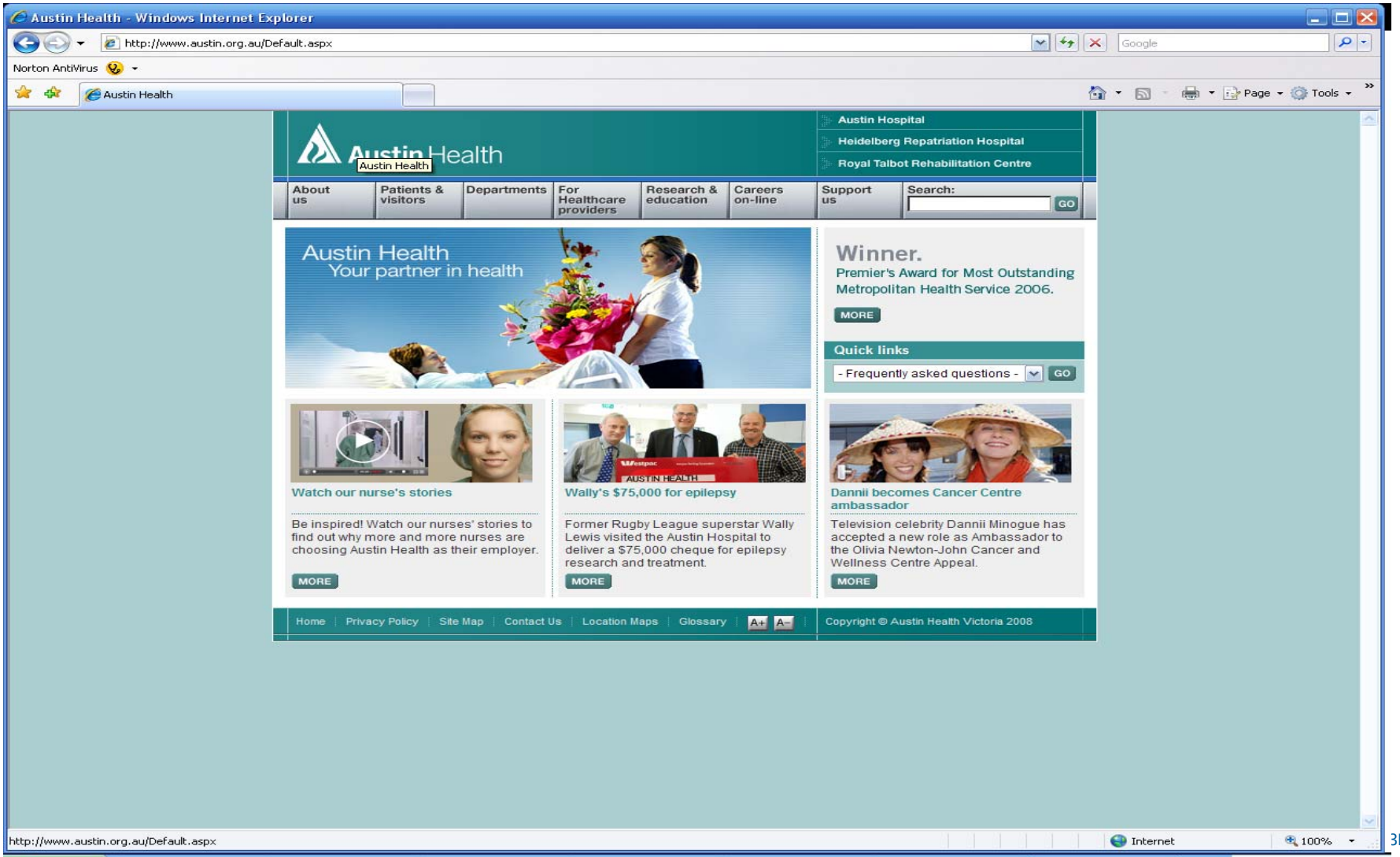
Austin Health Ian Baldwin

Virtual Tour

Higher bandwidth (broadband) (2Mb

Following slides related to Austin Health are all copyright to Professor Baldwin



3D

“Now, which one did they say not to turn off ?”

……Post Op Cardiac Surgery..

But need competent nurses…..

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How do we ensure 'Competency' ?

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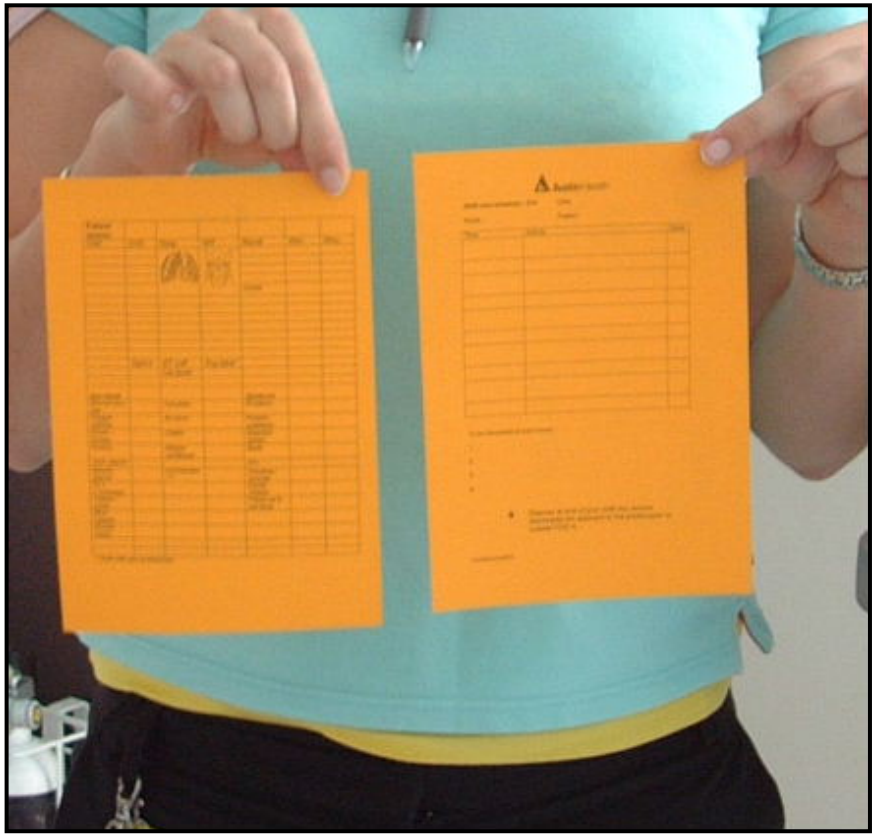
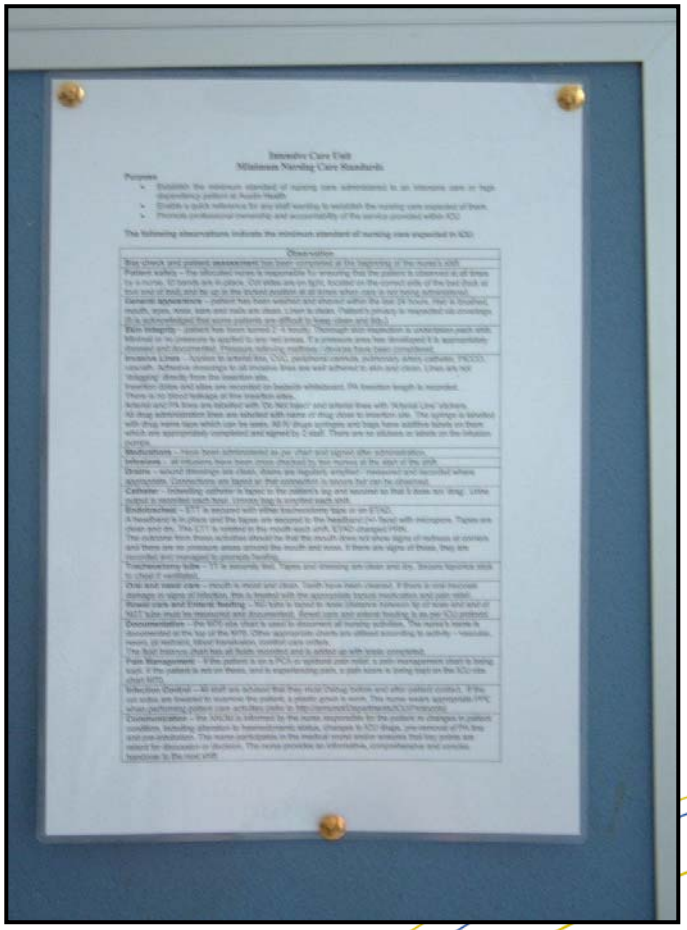
Check - Lists….Protocols



Shift Checklist and Planner



Nursing Standards - Summary

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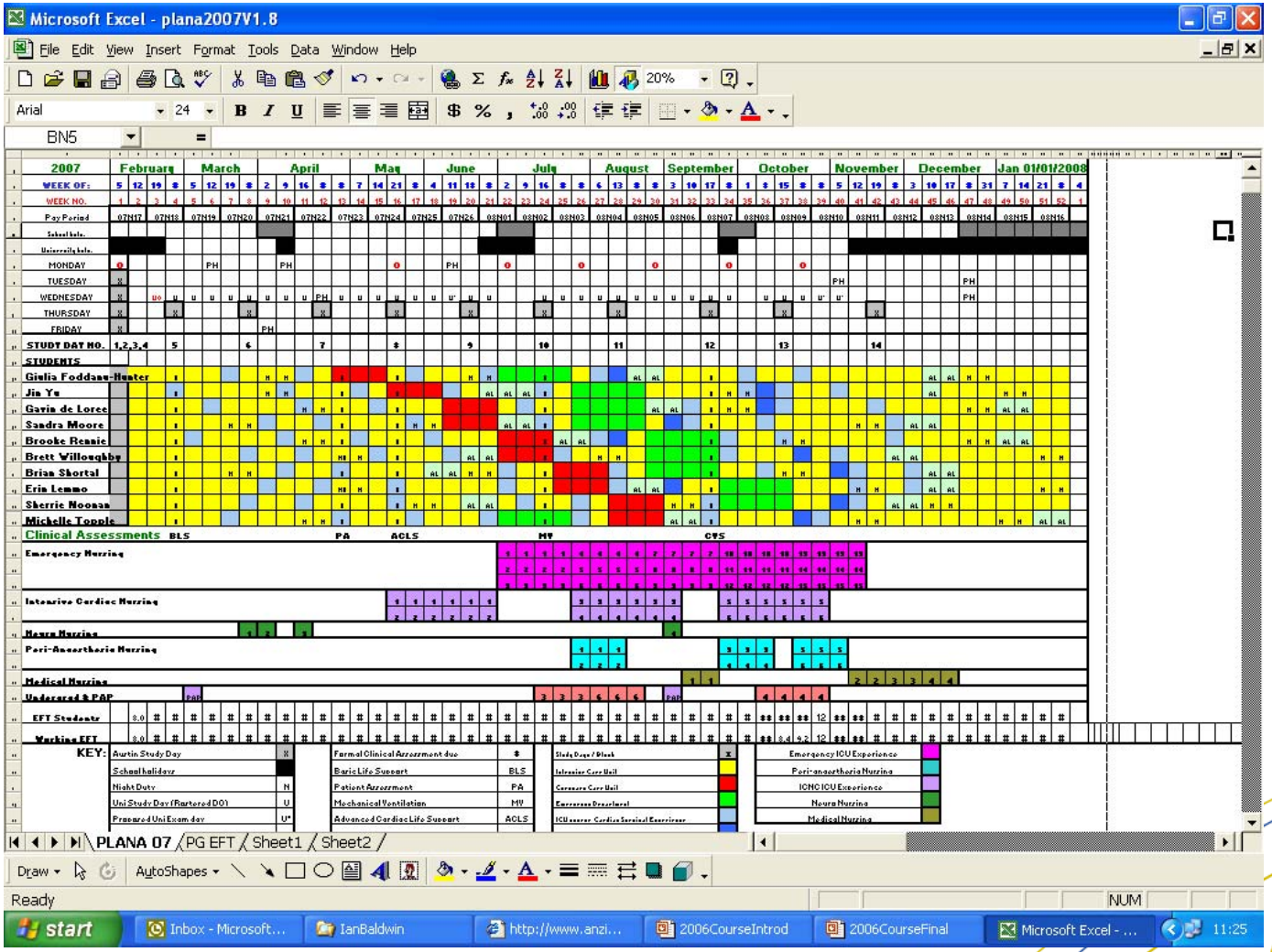
Training Programs : Theory and Practical



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

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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

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The Y generation (1982 – 2000)

- Why ? gen.
- NET gen.
- Now gen.
- 24/7 gen.
- ‘Me’ gen.
- Generation mobile

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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

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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

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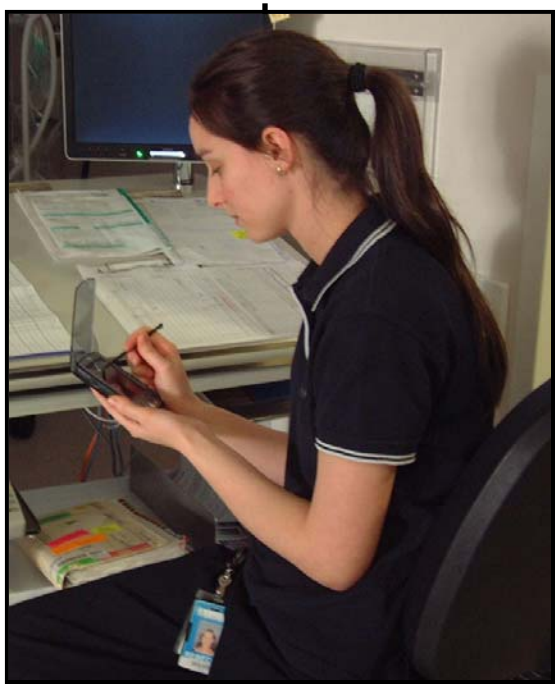
Concept of Competency Logging

Network Server

PC – Clinical Teacher

PC – Shift manager

PC – Post grad.



PDA wireless connection

- Mobile
- Personal, individual

Reports

Audits

Transcripts

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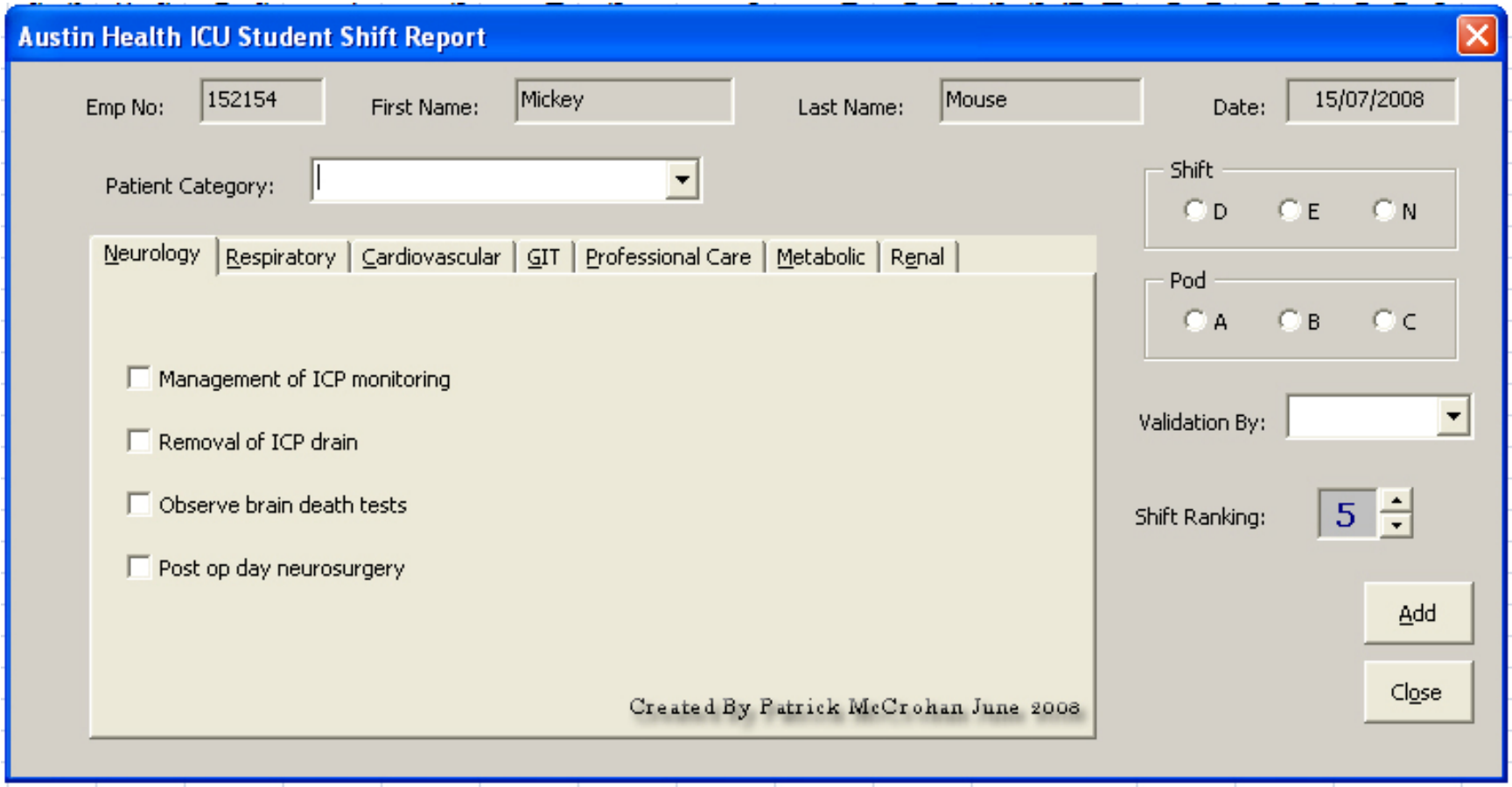
Shift Profile 1st



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Student Competency Summary

Demo: Created by Patrick McCrohan June 2008

Name	Avg Shift Score	Management of ICP monitoring	Removal of ICP drain	Observe brain death tests	Post op day neurosurgery	Extubation	Surgical Tracheostomy	Intubation	Tracheostomy change	Bronchoscopy	ICC management	Post op CABG_ s admission	Use and management Milrinone infusion	PA catheter removal	Pacemaker threshold check	Cardiac output measurement thermodilution	PiCCO use	SVO2 catheter use	Removal of chest drains	IABP patient
B B	4	2	2	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1	1
Buggs Bunny	7	1	1	0	0	1	0	0	0	0	0	0	0	0	0	0	1	0	0	0
Mickey Mouse	1	1	0	0	0	1	0	0	0	0	0	1	0	0	0	0	0	0	0	0

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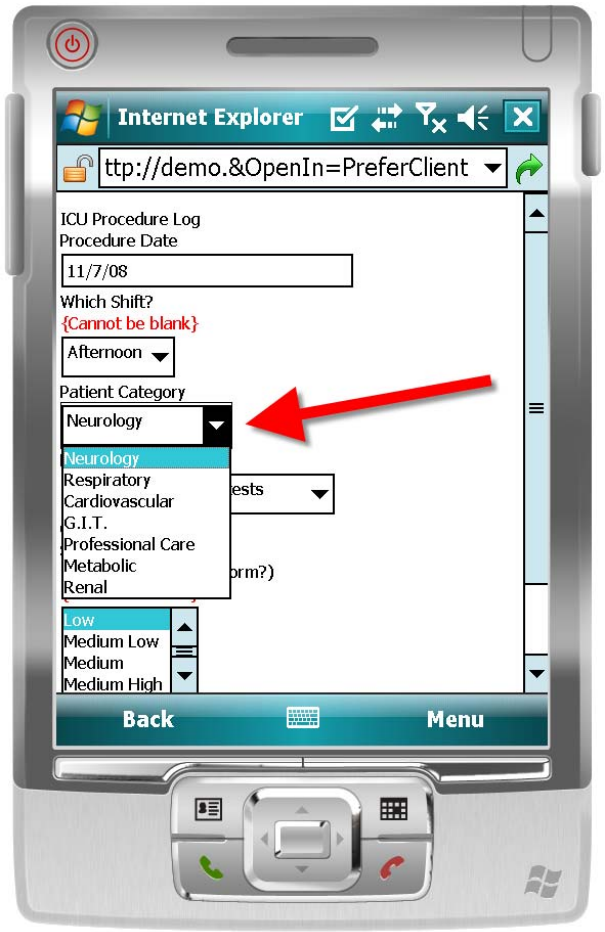
ICU Procedure Log



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

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