

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

A screenshot of the Austin Health website as viewed in a Windows Internet Explorer browser window. The browser's address bar shows the URL <http://www.austin.org.au/Default.aspx>. The website features a teal header with the Austin Health logo and navigation links for Austin Hospital, Heidelberg Repatriation Hospital, and Royal Talbot Rehabilitation Centre. Below the header is a horizontal menu with links for About us, Patients & visitors, Departments, For Healthcare providers, Research & education, Careers on-line, Support us, and a search bar. The main content area includes a large banner image of a nurse holding a bouquet of flowers, with the text "Austin Health Your partner in health". To the right of the banner is a section titled "Winner." announcing the Premier's Award for Most Outstanding Metropolitan Health Service 2006, with a "MORE" link. Below the banner are three smaller featured stories, each with a video thumbnail, title, and a "MORE" link: "Watch our nurse's stories", "Wally's \$75,000 for epilepsy", and "Dannii becomes Cancer Centre ambassador". The footer contains a navigation bar with links for Home, Privacy Policy, Site Map, Contact Us, Location Maps, Glossary, and a copyright notice for Austin Health Victoria 2008.

Austin Health - Windows Internet Explorer

http://www.austin.org.au/Default.aspx

Norton AntiVirus

Austin Health

Austin Health

Austin Hospital
Heidelberg Repatriation Hospital
Royal Talbot Rehabilitation Centre

About us Patients & visitors Departments For Healthcare providers Research & education Careers on-line Support us Search: GO

Austin Health
Your partner in health

Winner.
Premier's Award for Most Outstanding Metropolitan Health Service 2006.
MORE

Quick links
- Frequently asked questions - GO

Watch our nurse's stories
Be inspired! Watch our nurses' stories to find out why more and more nurses are choosing Austin Health as their employer.
MORE

Wally's \$75,000 for epilepsy
Former Rugby League superstar Wally Lewis visited the Austin Hospital to deliver a \$75,000 cheque for epilepsy research and treatment.
MORE

Dannii becomes Cancer Centre ambassador
Television celebrity Dannii Minogue has accepted a new role as Ambassador to the Olivia Newton-John Cancer and Wellness Centre Appeal.
MORE

Home Privacy Policy Site Map Contact Us Location Maps Glossary A+ A- Copyright © Austin Health Victoria 2008

http://www.austin.org.au/Default.aspx

Internet 100%

3D

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

.....Post Op Cardiac Surgery..



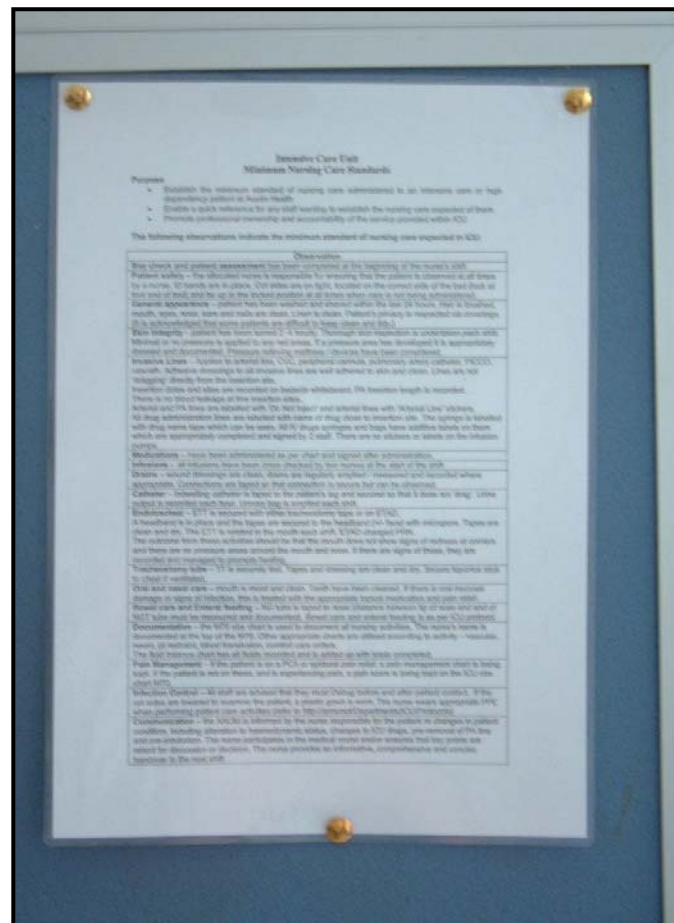
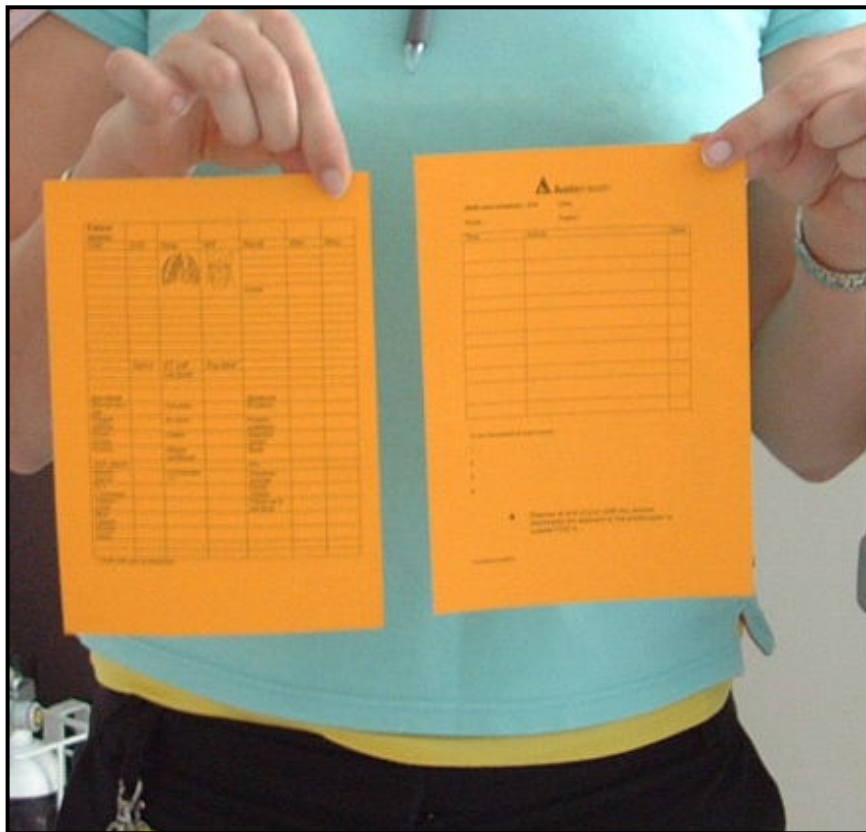
But need competent nurses.....



How do we ensure 'Competency' ?



Check - Lists....Protocols



Shift Checklist and Planner

Nursing Standards - Summary



Training Programs : Theory and Practical

Microsoft Excel - plana2007V1.8

File Edit View Insert Format Tools Data Window Help

Arial 24 B I U

BN5

2007	February	March	April	May	June	July	August	September	October	November	December	Jan 01/01/2008
WEEK OF:	5 12 19 26	5 12 19 26	5 12 19 26	5 12 19 26	5 12 19 26	5 12 19 26	5 12 19 26	5 12 19 26	5 12 19 26	5 12 19 26	5 12 19 26	5 12 19 26
WEEK NO:	1 2 3 4	5 6 7 8	9 10 11 12	13 14 15 16	17 18 19 20	21 22 23 24	25 26 27 28	29 30 31	1 2 3 4	5 6 7 8	9 10 11 12	13 14 15 16
Pay Period:	07/07 07/14 07/21 07/28	07/28 08/04 08/11 08/18	08/18 08/25 09/01 09/08	09/08 09/15 09/22 09/29	09/29 10/06 10/13 10/20	10/20 10/27 11/03 11/10	11/10 11/17 11/24 12/01	12/01 12/08 12/15 12/22	12/22 12/29 01/05 01/12	01/12 01/19 01/26 02/02	02/02 02/09 02/16 02/23	02/23 03/01 03/08 03/15
School Info:												
Maternity Info:												
MONDAY												
TUESDAY												
WEDNESDAY												
THURSDAY												
FRIDAY												
STUDY DAY NO.	1, 2, 3, 4	5	6	7	8	9	10	11	12	13	14	
STUDENTS												
Giulia Foddis-Meier												
Jia Ye												
Gavin de Loree												
Sandra Moore												
Brooke Reasie												
Brett Willoughby												
Brian Shortal												
Erie Lemmo												
Sherrie Noonan												
Michelle Tonks												
Clinical Assessments	BLS	PA	ACLS	MV	CVS							
Emergency Nursing												
Intensive Cardiac Nursing												
Neuro Nursing												
Peri-Anaesthesia Nursing												
Medical Nursing												
Underscored & PAP												
EFT Students												
Working EFT												
KEY:												
Acute Study Day												
School Holiday												
Night Duty												
Unit Study Day (Partners DO)												
Preceptor Unit/Exam day												
Formal Clinical Assessment due												
Basic Life Support												
Patient Assessment												
Mechanical Ventilation												
Advanced Cardiac Life Support												
Study Days / Blank												
Intensive Care Unit												
Coronary Care Unit												
Emergency Department												
ICU/Neuro Cardiac Surgical Intensive												
Emergency ICU Experience												
Peri-Anaesthesia Nursing												
ICU/Neuro Experience												
Neuro Nursing												
Medical Nursing												

PLANA 07 / PG EFT / Sheet1 / Sheet2 /

Draw AutoShapes

Ready NUM

start Inbox - Microsoft... Ian Baldwin http://www.anzi... 2006CourseIntro 2006CourseFinal Microsoft Excel - ... 11:25

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



The Y generation (1982 – 2000)

- 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 .

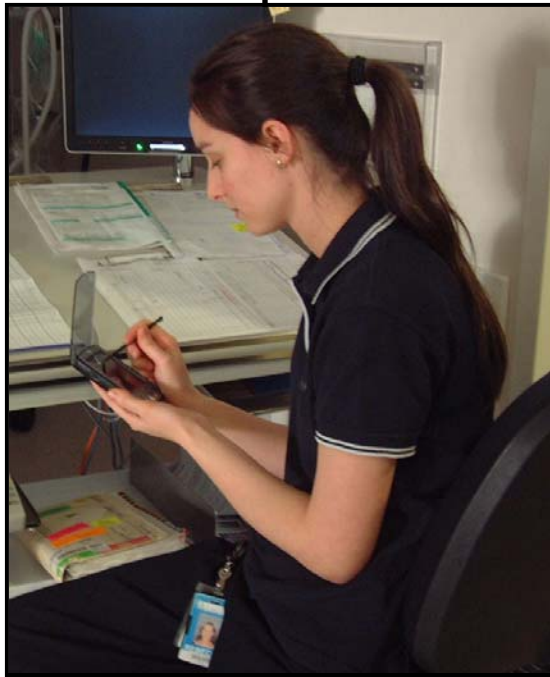
Which software, program,

Need for speed, real time, simple entry

Individual work space, mobile...wireless



Concept of Competency Logging



Network Server

PC – Clinical Teacher

PC – Shift manager

PC – Post grad.

Reports

Audits

Transcripts

PDA wireless connection

- Mobile
- Personal, individual



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
Add
Close

Created By Patrick McCrohan June 2008



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



ICU Procedure Log

Internet Explorer

http://demo.&OpenIn=PreferClient

ICU Procedure Log

Procedure Date

11/7/08

Which Shift?

{Cannot be blank}

Afternoon

Patient Category

Neurology

Neurology

Respiratory

Cardiovascular

G.I.T.

Professional Care

Metabolic

Renal

Low

Medium Low

Medium

Medium High

Back

Menu

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