

Overview of Australian Healthcare Sector, Models of Care, Case Studies (presentation)

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Centre for Health Assets Australasia

IPFA: AUSTRALIA TRENDS & PRESSURES IN AUSTRALIAN HEALTHCARE PROJECTS - 19 AUGUST 2009

OVERVIEW OF AUSTRALIAN HEALTHCARE SECTOR, MODELS OF CARE, CASE STUDIES

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Outline

- 1. Emerging needs impacting our facilities
- 2. Who is most likely to be a patient?
- 3. Ageing Health Workforce
- Emerging Technology + impact on clinical/non-clinical functions
- 5. Community-based facilities
- 6. Design Considerations
- 7. Rise of the 'superbug' and other nasties
- 8. Politics and Policy
- 9. Conclusions





Emerging needs impacting our facilities

- Ageing population patients and workforce
- Emerging technology cost, availability,
- Consumer expectations increasing demand
- Increasing age of existing facilities replacement/ refurbishment?
- Need for new facilities in new areas
- Trend towards care in the community
- Increasingly tight health budgets –
 do 'more with less'
- Politicisation of health NHHRC, etc
- Rise of superbugs, possibility of pandemics
 e.g. swine flu, climate change illnesses, etc







Who is most likely to be a patient?

- More likely to be 'older Australians' 'people aged 65 years or over' (AIHW, Australia's Health, 2006)
- 13% of the population 2,604,900 people in 2004

 Much greater use of hospitals than younger people: in 2003-04, 2.38 million or 34% of all hospital separations







Ageing Health Workforce

For well over two decades there have been dire warnings of a looming crisis in the health care system due to the exponential increase in the ageing population, the burden of chronic disease and significant workforce shortages. In rural areas, we are now seeing the beginnings of catastrophic health workforce shortages that without action will cripple the health care system. (Amanda Kenny, Latrobe University,

http://www.abc.net.au/news/stories/2009/02/02/2479976.htm

- Average age of nurses now 45-50 years
- Doctor shortage especially in rural areas
- Increasing use of overseas trained doctors
- Increasing use of agency nurses often overseas trained
- Inadequate numbers of clinicians being trained





Emerging Technology

Re-direction of care away from the immediate hospital setting – assisted by technology, telemedicine, remote diagnosis

- Robot doctors
- Robotic units are being used in the US and Canada to provide consultations or ward rounds in some US hospitals. The doctor can be located in any part of the world but can still see his patients and check on their progress. A simple joystick enables navigation of the room even with obstacles
- (http://www.nationalreviewofmedicine.com/issue/2007/06 15/4 advances medicine01 11.html, 11 Oct 2007)



Dr Mendez, Dept of Neurosurgery, QEII, Halifax, Canada





Impact of Technology on clinical and non-clinical functions

Clinical: MRI and other technology in Operating Theatres





http://www.medicalimagingmag.com/issues/articles/2006-09_04.asp

http://www.childrenshospital.org/clinicalservices/ Site2131/mainpageS2131P0.html

Boston Children's Hospital

Architect Shepley Bulfinch and Abbott (Boston)
MRI moves in and out of the operating room as needed into a docking bay

Design Issues:

- structure required to support the 7.4-ton magnet;
- containment of the fringe magnetic fields associated with the scanner within the room;
- isolation of vibration and sound;
- accommodation of adjacent spaces not typically found in ORs, such as the docking and control rooms.
- Secured entry and provisions for ease of circulation for the patient, equipment, and different types of clinicians involved in the intraoperative procedure

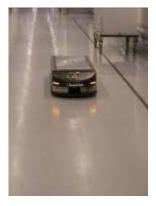




Impact of Technology on clinical and non-clinical functions

Non-clinical: Goods delivery and stores

- Automated delivery systems using robotic devices e.g. AGV hospital 'workhorses' at St Olav's Hospital, Trondheim, Norway
- Guided by lasers and microchips, run automatically to stations in the wards, using hospital lifts and corridors shared with patients and the general public.
- Can 'talk' and take themselves to a charging station when batteries run low.











Community-based Facilities Leith Community Centre, Edinburgh Scotland

http://www.nhslothian.scot.nhs.uk/news/publications/Leith_CTC.pdf







Design Considerations include:

Healing environments for patients

Good workplaces for staff

Environmental sustainability – healing the environment

Long term planning for flexibility and adaptability

Efficient use of scarce resources including money







Design considerations – some examples Provide an interior environment to assist healing

Provide an interior environment to assist - healing, stress reduction Create designs that identify, unify or separate spaces, and add aesthetic and functional value

Use of colours, patterns and texture for practical purposes and aesthetics Wayfinding devices for general /specific user profiles - patients with dementia

Accessibility issues





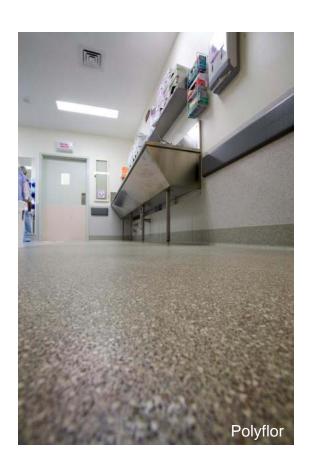


Rise of the Superbug and other nasties we would rather avoid!

SARS, swine flu, what's next?

Increasing emphasis on design of 'safe' facilities – lower rates of adverse incidents, healthcare acquired infection (HAI), slips, trips and falls, and other injuries

Climate change related illnesses – dengue fever, Japanese encephalitis, Ross River Virus, mental health problems in rural communities, etc







Politics and Policy

Garling Report, NSW, 2008 – the health 'culture'

National Hospitals Health Reform Commission Report, 2009

Federal – State relations – Healthcare Agreements

Draft Premises Standards
Commonwealth Disability
Access to Premises – Buildings
(draft standards), 2009

Do more with less = efficiency Value for money is important Billard Leece, RCH Amb Care Melbourne







Conclusions

What are the issues being discussed? ACHSE-CHAA Conference held 4-7 August 2009 – program included issues such as:

- Building Bridges between Infrastructure and People: the intersection between hospitality and healthcare
- Creating and Sustaining a Performance Development Culture
- Workforce Planning in the current Economic Climate
- Vision Zero Safe Systems, Safe Processes, Safe Buildings
- Risk Management using a Multi-media Approach
- Engaging Consumers in health care system design and reform moving beyond the rhetoric.



Many and Varied! Thank you!









CENTRE FOR HEALTH ASSETS AUSTRALASIA*

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