Changing Rooms

The redesign of Emergency Department bed bays for people with dementia
Background

- St James’s Hospital, Dublin
- Ireland’s largest hospital
- The Dempath project
- Genio funded (€500,000)
- Development of an integrated care pathway (ICP) for people with dementia
- ICP, education and training, environmental design
Hospital Design and Dementia in the UK and Ireland

Dementia Services Development Centre

The King's Fund

Enhancing the Healing Environment

Department of Health

Health Building Note 08-02
Dementia-friendly Health and Social Care Environments
<table>
<thead>
<tr>
<th>PRINCIPLES</th>
<th>DSDC</th>
<th>The King’s Fund</th>
<th>HBN</th>
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<tbody>
<tr>
<td>Compensate for disability</td>
<td>Easing decision-making</td>
<td>Provision of optimum levels of stimulation</td>
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<td>Maximise independence; reinforce personal identity; enhance self-esteem/confidence</td>
<td>Reducing agitation and distress</td>
<td>Provision of optimum lighting and contrast</td>
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<td>Demonstrate care for staff</td>
<td>Encouraging independence and social interaction</td>
<td>Provide a non-institutional scale and environment</td>
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<td>Be orienting and understandable</td>
<td>Promoting safety</td>
<td>Support orientation</td>
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<td>Welcome relatives and the local community</td>
<td>Enabling activities of daily living</td>
<td>Wayfinding and navigation support</td>
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<td>Control and balance stimuli</td>
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<td>Access to nature and the outdoors</td>
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<td>Promotion of engagement with friends, relatives and staff</td>
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<td>Promotion of good visibility and visual access</td>
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<td>Promotion of privacy, dignity and independence</td>
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<td>Promotion of physical and meaningful activities</td>
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<td>Support of good diet, nutrition and hydration</td>
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<td>Provision of a safe environment</td>
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<td>FEATURES</td>
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<td></td>
<td>Small in size</td>
<td>Environment promotes meaningful interaction between patients, families and staff</td>
<td>Acoustics</td>
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<td>Familiar building style i.e. domestic and home like</td>
<td>Environment promotes well-being</td>
<td>Artwork</td>
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<td>Scope for ordinary activities</td>
<td>Environment encourages eating and drinking</td>
<td>Ceilings</td>
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<td>Unobtrusive inclusion of safety features</td>
<td>Environment promotes mobility</td>
<td>Colour</td>
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<td>Rooms for different functions equipped with age appropriate furniture and fittings</td>
<td>Environment promotes continence and independence</td>
<td>Decoration</td>
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<td>Safe outside space</td>
<td>Environment promotes orientation</td>
<td>Doors</td>
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<td>Single rooms</td>
<td>Environment promotes calm and security</td>
<td>Fixtures</td>
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<td>Good signage and multiple cues</td>
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<td>Flooring</td>
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<td>Use of objects rather than colour for orientation</td>
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<td>Furniture and fittings</td>
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<td>Enhancement of visual access</td>
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<td>Lighting</td>
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<td>Control of stimuli, especially noise</td>
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<td>Reminiscence hardware and software</td>
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<td>Signage</td>
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<td>Walls and windows</td>
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<td>Transparent panels</td>
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Literature Review

A Review of the Research Literature on Evidence-Based Healthcare Design (Part I)
Design Team

- 2 artists (one with prior experience of clinical research)
- Senior social worker
- Dempath project manager
- ED staff

External advice:
- Dr Andrew Ashton, Whiston Hospital, Merseyside
- Dr Selina Lim, Croydon Health Services
- Dr Carmen Carroll, Salisbury NHS
Review of the existing situation

DemPath Project:
Research in ED,
St. James’s Hospital, Dublin

- Tracked 3 patients with dementia through the Emergency Dept.
- Long waiting times
- Lack of seating (especially for accompanying family members)
- Ceiling lights on throughout day & night
- Noise and disturbance
Audit

Two bed bays identified in Zone 3 of the Emergency Department
Each bay was audited with senior members of the ED staff
Areas identified for change
Areas identified for change

- Removal of clutter and superfluous equipment (top)
- Provision of improved storage (left)
Areas identified for change

- Improved infection control and ease of cleaning
- Improved privacy
- Aesthetics
- Improved acoustic control (?)
Areas identified for change

- Adjustable RGB light panels
- Control by staff/patient/family
- ‘Crash’ lighting option

Possible benefits?

- Support healthy sleep
- Lift mood
Areas identified for change

- Floor mounted
- Low profile when folded
- Arms for leverage
- Manual - not spring loaded!

Seating

Stadium-style
Areas identified for change – time orientation aid

- Identifies morning, afternoon, evening and night
- Image supports text e.g. dark sky and stars = night
- 2 units in each bay (front and back)
- Low cost – digital photo frame and free jpegs
- [http://sussexrookx.blogspot.ie/2013/04/day-clock-for-people-with-dementia.html](http://sussexrookx.blogspot.ie/2013/04/day-clock-for-people-with-dementia.html)
Staff Feedback – most and least popular changes

- Colour scheme: 81%
- Seating: 75%
- Time orientation aid: 25%
To be introduced...

Coloured crockery...

- Evidence suggests that coloured crockery improves nutrition
- Creates contrast between plate & table as well as plate & food

to encourage eating & drinking
Main challenges

- Lack of exemplars
- Finding the right products
- Getting staff to agree to changes
- Getting agreement of Infection Control Dept.
Thank you

Colleagues:
  Natalie Cole
  Denis Roche
  Dr Ger McMahon & staff of the Emergency Department