Hospital planning: Overview and lessons learnt from Sengkang

Christopher Cheng
Singapore General Hospital

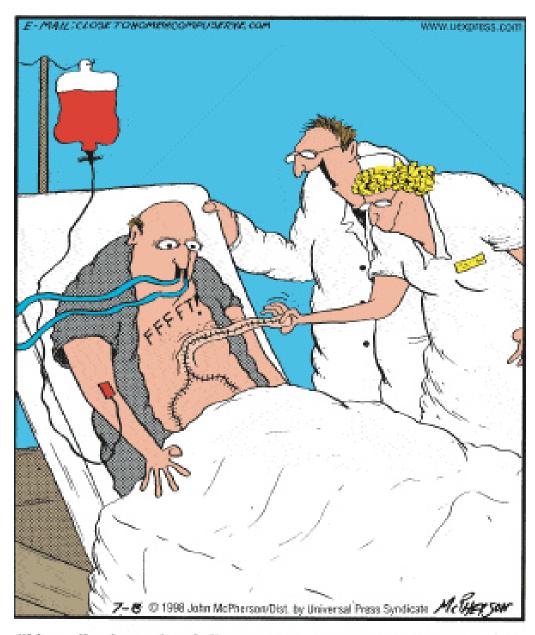
Overview

- Hospital planning: Overview and lessons learnt from Sengkang Prof Chris Cheng (<u>Christopher.cheng.w.s@sgh.com.sg</u>)
- 'Getting it right the voice of the users'Ms Grace Chiang (grace_chiang@nhgp.com.sg)
- 3) Infection Prevention in Hospitals : Designing Away the Risk Dr Brenda Ang (<u>Brenda.ang@ttsh.com.sg</u>)
- 4) From Master-planning to Total Experience Design Mr Jude Wessels, Designer/Planner, Kahler Slater Mr David Groth, Architect/Associate Principal, <u>Kahler Slater</u>





"We'll just mill around till he's asleep, and and then send him back up. This operation is actually for a placebo effect."



"Now that you're fully recovered, Mr. Dawkins, we can tell you the truth. The 12-hour operation, the intravenous meals, the three weeks of bed rest ... all were part of an elaborate placebo effect."

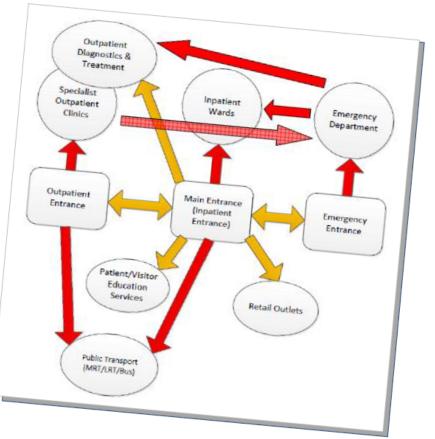


Sengkang Hospital







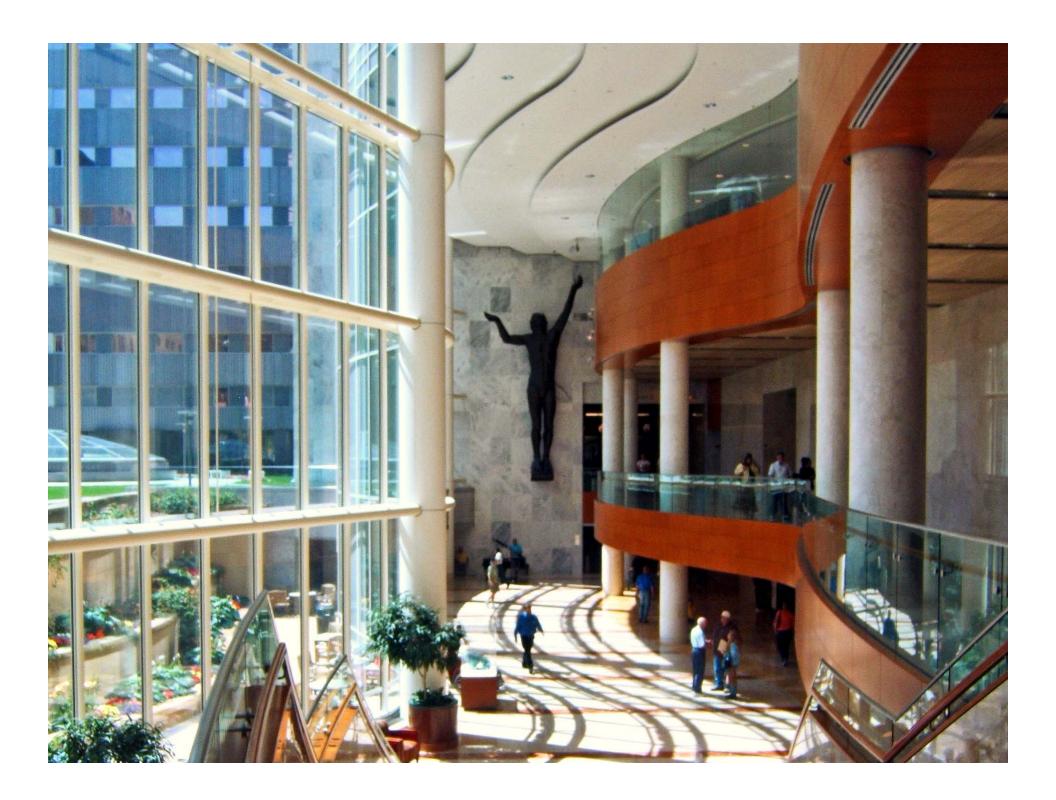


Science: Safe & Efficient Design

- Patient outcomes
- Patient satisfaction
- Clinical quality & safety
- Staff satisfaction
- Operational efficiency
- Financial performance

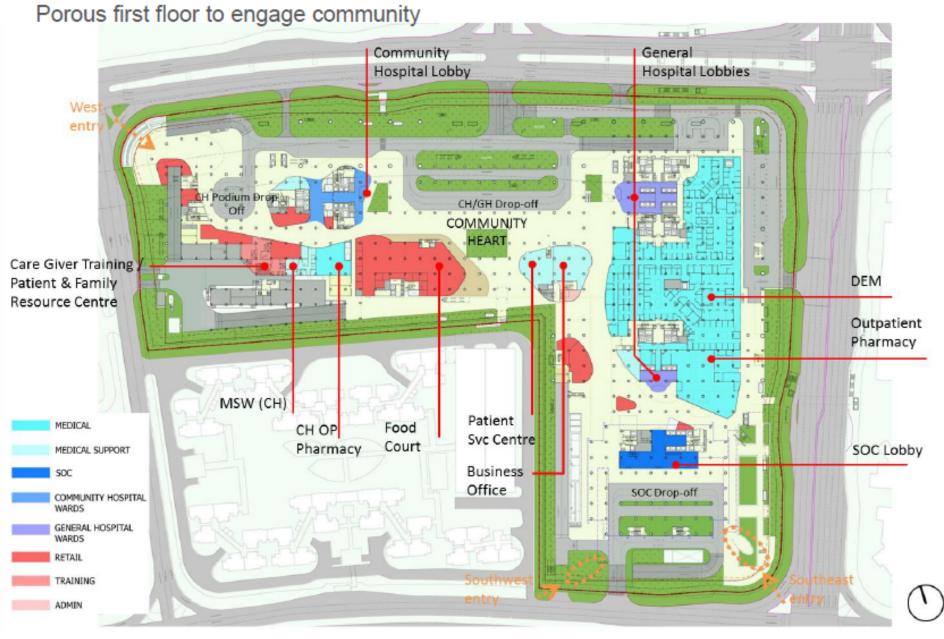
Clues to Quality: placebo effect

- Facilities Planning & Design
 - Beyond evidence based design for safety and efficiency
 - Environment and processes where trusting relationship blossoms
 - Providers at their best, patients peace of mind
- Physical environment has behavioral effects
 - Air quality, ventilation, temperature
 - Color, texture, reflectance, materials
 - Light, quality, amount, access to nature
 - Space, layout, privacy, way finding
 - Noise, vibration, aroma
 - Security and safety
 - Friction, traction



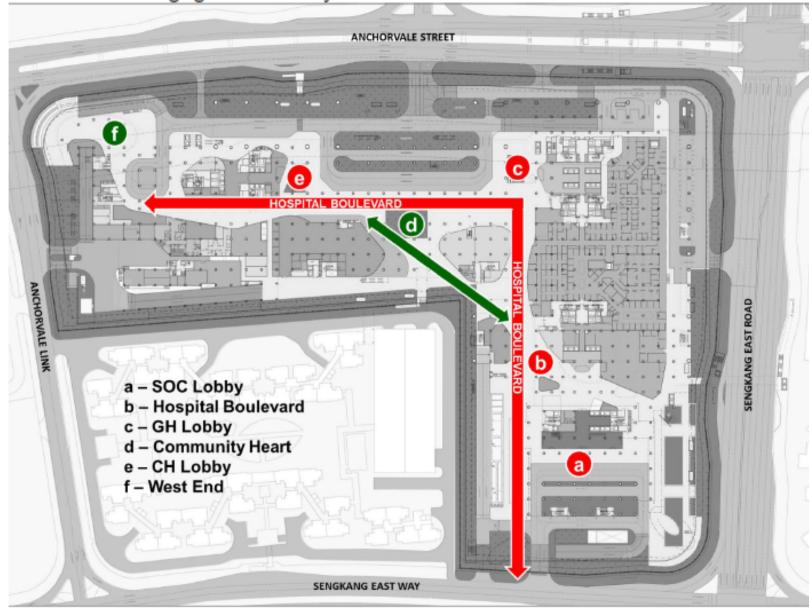


Embedded within fabric of community



Embedded within fabric of community

Porous first floor to engage community



Evidenced-based

Wider corridor to mobilise elderly patients during inpatient stay



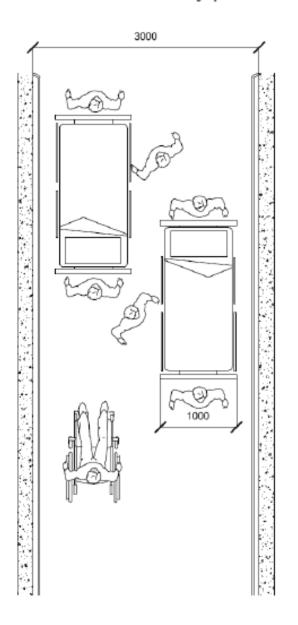


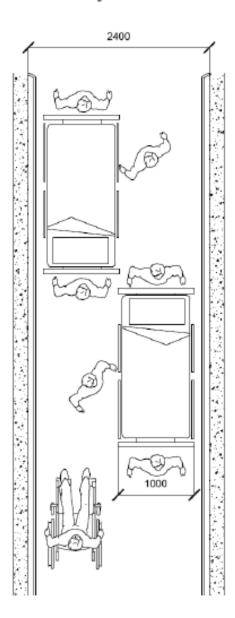




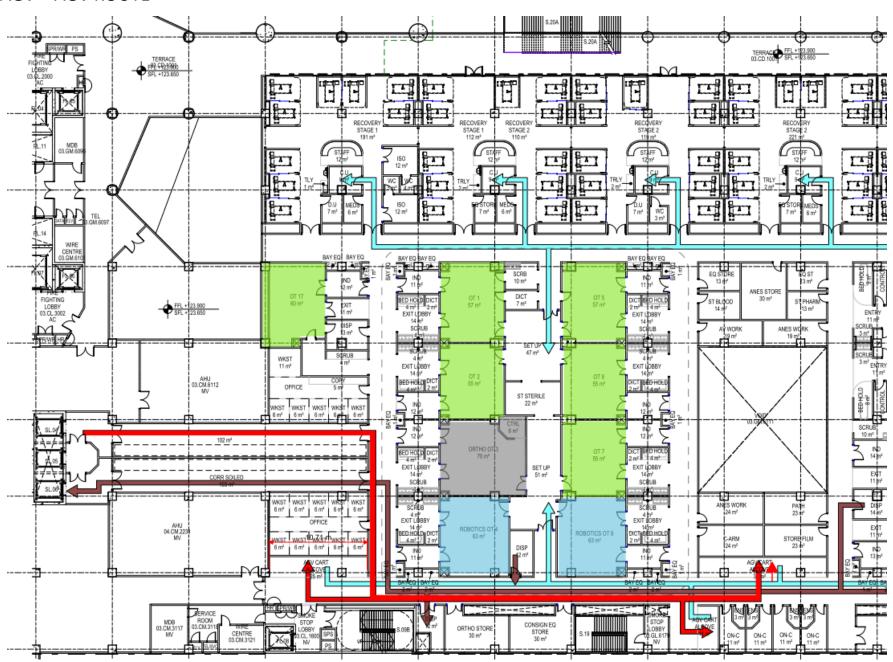
Evidenced-based

Wider corridor to mobilise elderly patients during inpatient stay





AGV - AGV ROUTE



FLOW OF STERILE INSTRUMENTS Options:

- 1. AGV
- 2. Supply via AGV and Returns via ETV
- 3. Supply and Returns via ETV







