

Te Wao Nui – the great forest of Tane.
IPC for a new build.

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From concept to commissioning

July 2017: Mark Dunajtschik and Dorothy Spotswood gifted \$50 million. Caveat: ground breaking within one year. Services will not be increased.

July 2017: Varicella (chickenpox) vaccine added childhood immunization schedule. Overall childhood vaccine coverage 92%. Last NZ measles epidemic 1997.

Asbestos found in site. Concept design redrawn; repositioning emergency access, lifts, parking.

Dec 2017: Concept design completed.

Mar 2018: Developed design completed.

Late 2018: Site preparation

Early 2019: Construction starts.

2019-2020: Measles outbreak; 700 hospitalised mostly in northern region. 2.8% of population in Samoa got measles.

2020: Covid 19 pandemic

July 2021: RSV surge.

Mar 2022: Building 'complete', handed to CCDHB

Mar 2022: Overall vaccine coverage 83%

Apr-Aug 2022: Air-handling upgrade, clinical fit outs, surgical ward decant

Oct 2022: Medical, short stay unit decant.

Further funding: C&C and Govt: \$24 million, Govt \$21 million (site prep), Wellington Hospital Foundation \$10 million.

Guidance at the time...

Australasian Health Facilities Guidelines

- No recommendation of proportion of single to shared rooms.
- No recommendation for ventilation standard.
- Hand hygiene sinks in more or less all clinical spaces
- ASHRAE 170:2013
 - Worked out as approx two air changes an hour for inpatient areas

IPC requirements for concept design

- 80% + single rooms plus ensuite for inpatients
- Two inpatient and one short stay negative pressure rooms.
- Dirty utility manages dirty flow only.
- Rooms large enough for easy access clinical space, and whanau space
- Other floor plan issues.

IPC requirements post pandemic

- ACH 4-6 for medical ward

Beautiful things beget beautiful things

80% single rooms with ensuite and approx. 4 ACH + easy access PPE

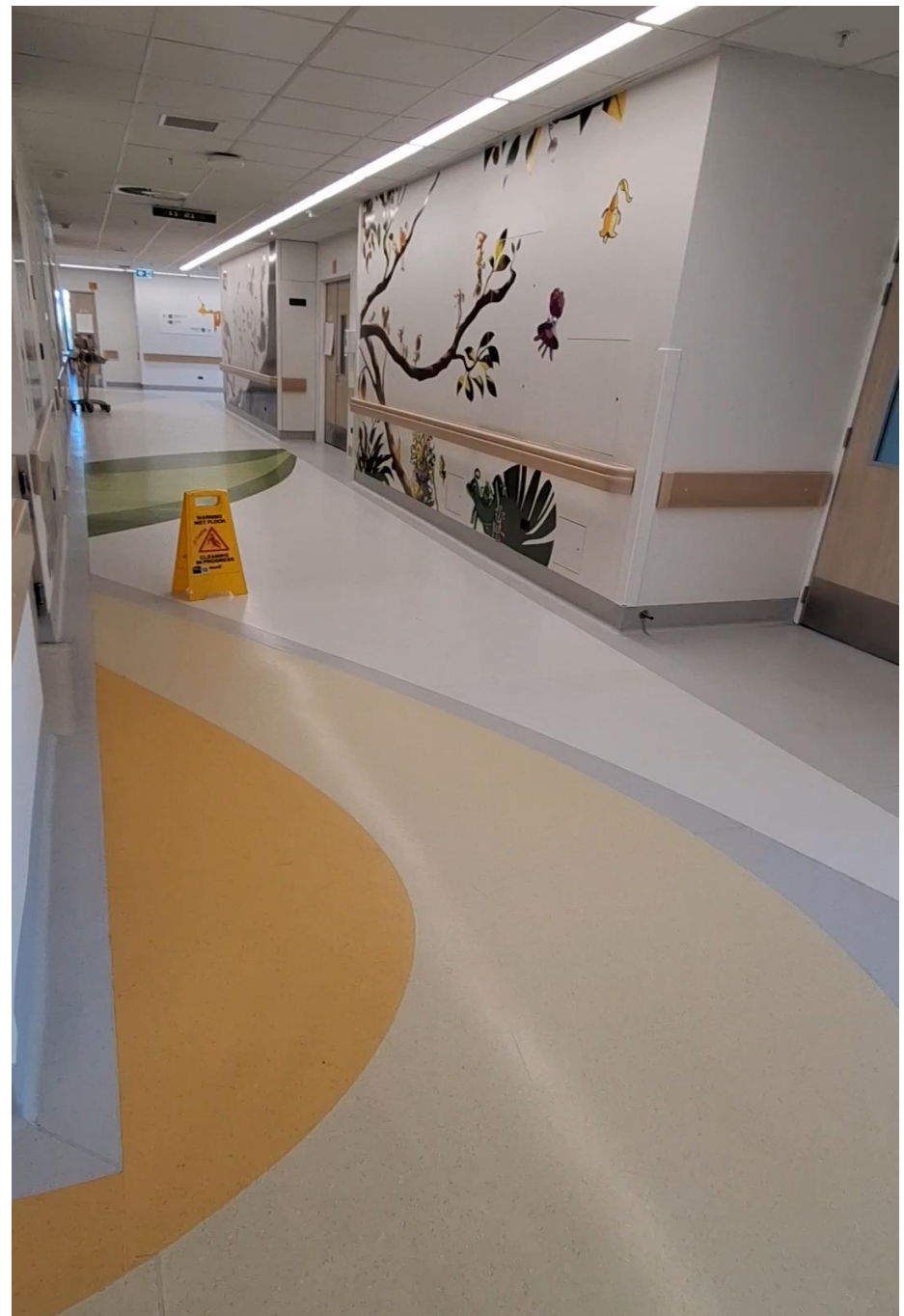


no nosocomial transmission.

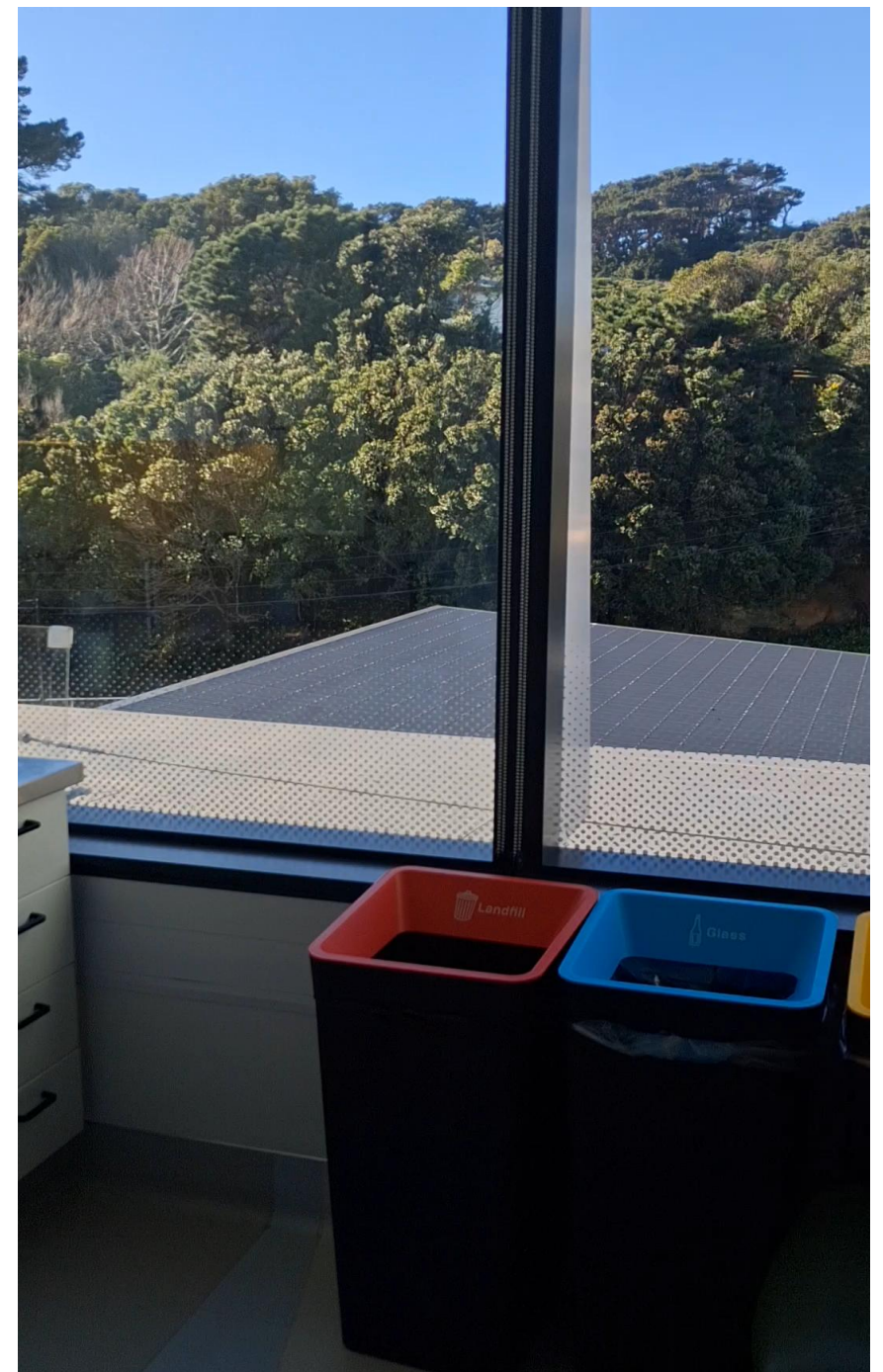


staff and patients not getting sick in hospital.

34 single ward rooms with
ensuites.
3 twin rooms with ensuites.
9 single rooms in Short Stay.
6 single daystay rooms.
4 shared daystay spaces.
Separate oncology unit.
Ground floor outpatients.



Nine bed short stay unit

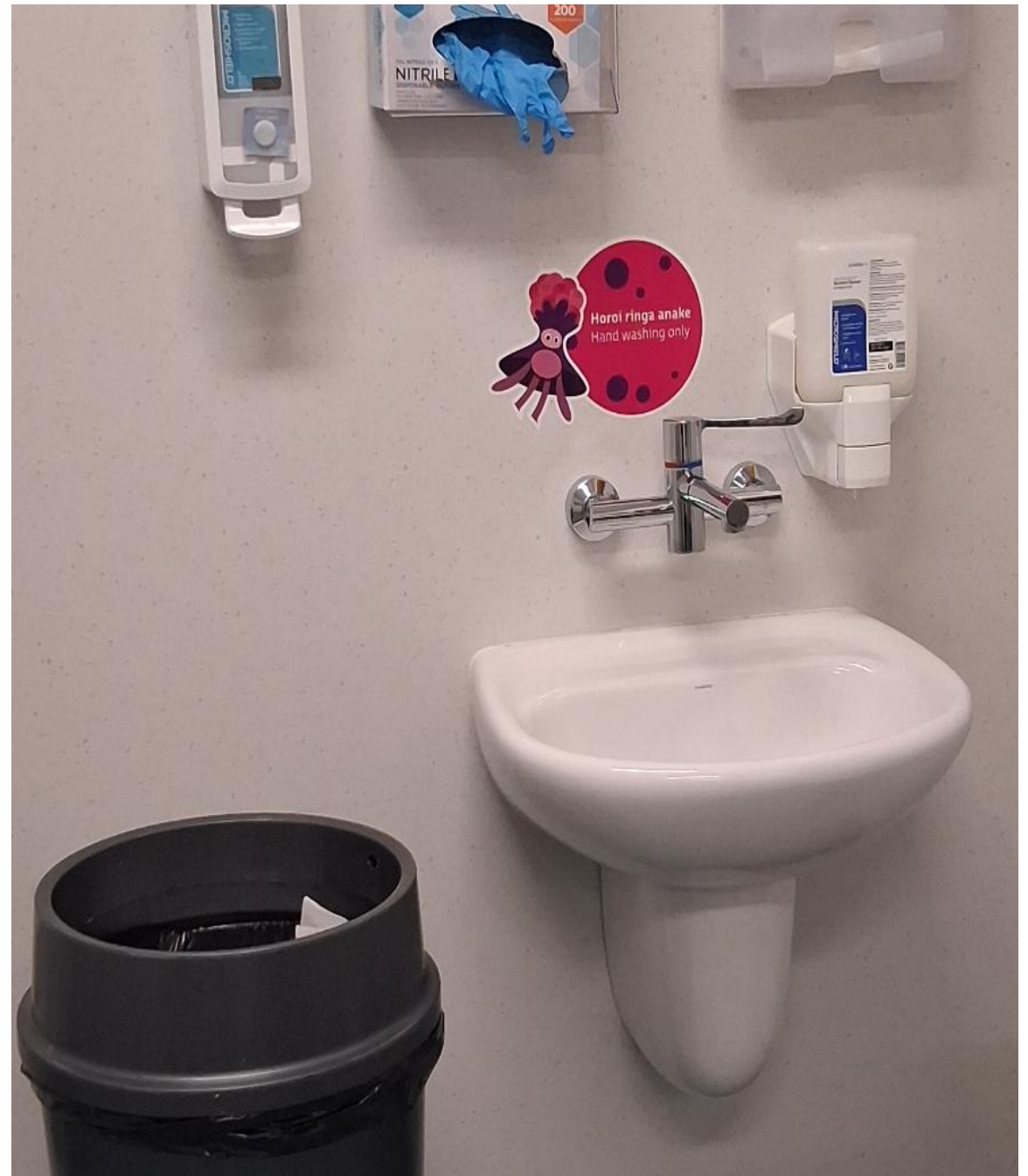


Designated
dirty utility

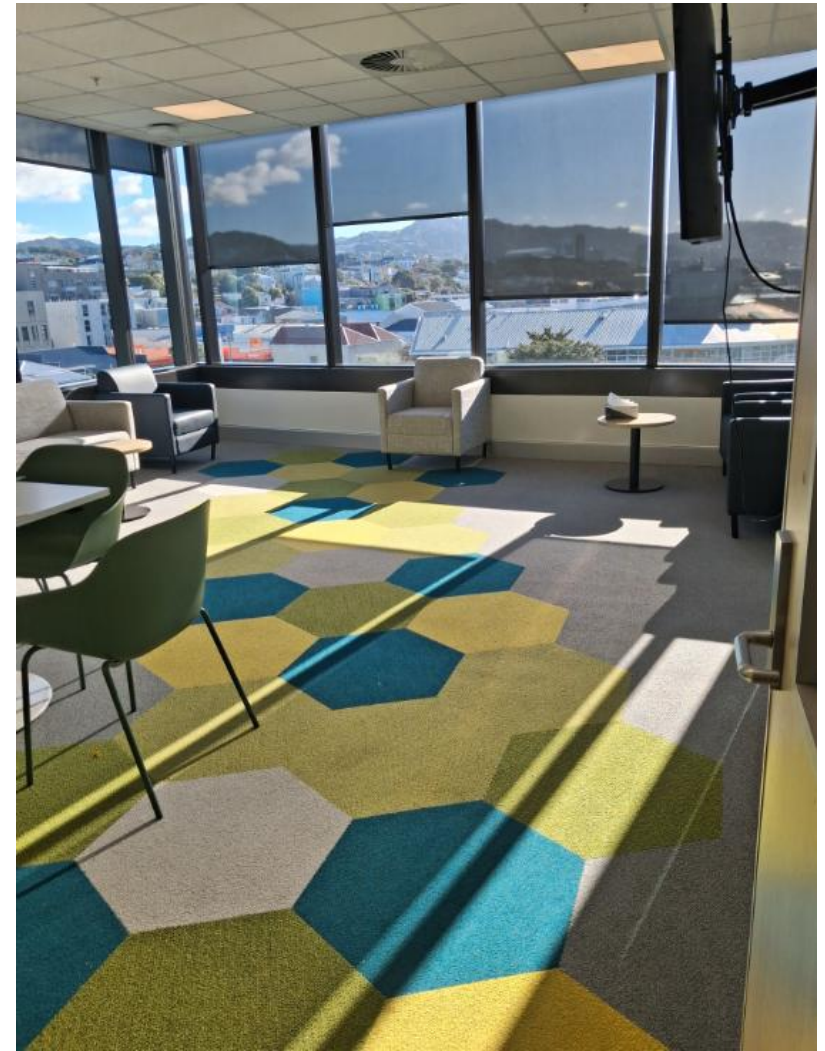
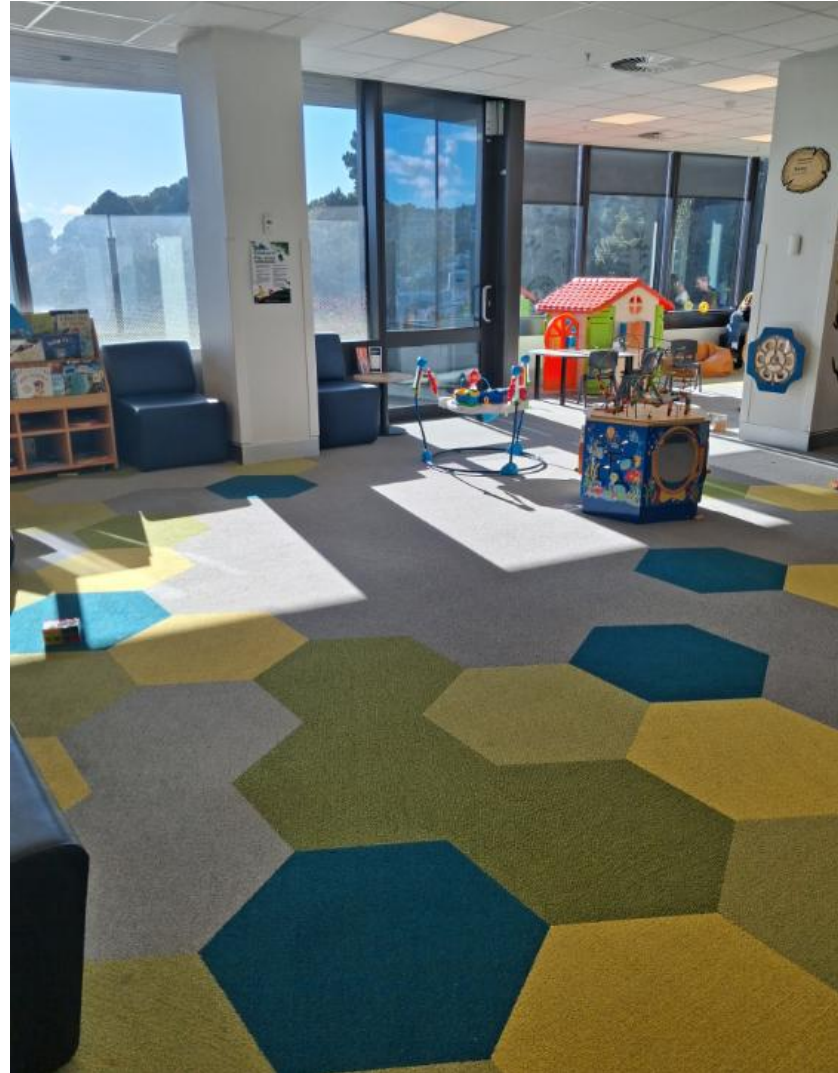


Hand hygiene

Some sinks seldom used.
Change of practice.



Whanau spaces on wards...



And off wards...



Medical separate to surgical/oncology.



Lots of space



Lots of space



Other spaces...



Built in art means
less clutter,
easier cleaning.



Built in PPE cupboards



If we could do it again...

- Specify ventilation.
- More negative pressure capacity.
- Specify water safety requirements
- No carpet in outpatient waiting areas
- One soap dispenser per HH sink
- Minimise non-slip flooring, choose most cleanable product
- Smooth, wipe-able furnishings

Impact of Te Wao Nui on IPC

- Early involvement of IPC in new builds and retrofitting
- Public/philanthropic partnership
- Built environment working group – IPC principles document.
- Section D AusHFG update with overarching principles, including governance, 60-80% single room with ensuite for new builds, ventilation standards (minimum 6 ACH).