

Appendix 2

DEFINING SPACE REQUIREMENTS

Starting Point:

In 2004 the HSE and the DOH & C agreed a brief for a pediatric hospital to replace Our Lady's Children's Hospital. This was a 350 bedded hospital of which had a total area of 72,000 m² with provision by various means for further expansion beyond this amount. Of this 64,886 m² was the gross internal space or departmental space the rest being and allowance for interdepartmental connections and circulation space.

Bed Capacity;

Simplistically this would indicate that an additional 8.5% is required for a bed capacity of 380 beds giving a total area of 78,171.4 m² as being required . A further requirement to configure to 585 beds will similarly need to be adjusted for.

ICU requirement:

However the recommendation of the Children's Health First with regard to the proportion of ICU beds required increases the space requirement for ICU from what is defined in the DCP brief. This will have a significant impact space impact. An ICU bed requires more space both around the bed and direct clinical supports than the standard bed. Extrapolation to 81 ICU bed configuration for example would indicate a requirement for 5625 m². - a 125 % increase. Furthermore the level of off ward supports required for an ICU bed is greater than the standard bed. One example of this is the pathology involved in patient care which is more complex and more frequent. Faster turn around times are demanded of the pathology and other support services to ensure that the patient is receiving optimum care.

Single versus shared (dormitory) bed spaces

In OLCH's ODCP the 245 standard beds were arranged in 18 bedded modules of which 55.5 % were single beds. The space allocated to each ward is shown below. Typically a single bedded room taking up 40.7% more space than the same single bed as part of a 4 bedded unit.

Four bedded rooms can share certain spaces and an allowance must be made for this additionally allowances would have to be made for circulation and support spaces between the single rooms.

The Children's Health First details the international evidence in the trend towards a growing proportion of single rooms particularly in the US. " All our rooms are single with two pullouts for the parents – that is really standard of care in the US now(Page 66).

The adoption of a higher than 55% ratio will therefore require further adjustment to the estimate of space requirements.

OLCH STANDARD WARD

Type	Quantity	Space	Total
Single beds	9	19	171
Isolation Room	1	27	27
Shared rooms (4 beds)	2	54	108
Parent accommodation	4	14	56
Total	18 patient beds		362
To serve the above			302
• Play Area			
• Bathroom			
• Staff base			
• Pantry			
• Treatment			
• Staff room/ changing			
• Equipment Store			
TOTAL			664

Patient / family accommodation – off ward.

OLHSC would ideally like to see patients not having to stay as inpatients and not have to subject children and families to the inconvenience and stress of an inpatient stay. The hospital through a variety of innovations in patient care and management is seeking to achieve this aim.

Non bedside space consists of 1191 m² of existing parent /family accommodation. Of this 206 m² is family accommodation on/close to the site but out of the hospital building.

For a National tertiary hospital significant family hostel type accommodation will be required and allowance should also be made if contra-indicated maternity services are co-located

OPD

There are 66,581 attendances per annum at OLCH. With greater emphasis on seeing the admission of a patient as a mechanism of care of last resort there is a great importance placed on adequate provision of OPD facilities and associated supports. Modeling allowing for this and combining the OPD services of the three hospitals to one site could indicate a need to provide a Single site large enough to cater for 150,000. (combined hospitals & increased OPD care allowance). The model of ambulatory care developed in our Medical Tower defines the best basis for establishing the correct OPD space for the New hospital. We consider that the appropriate facility will require an additional 4,000m²