



Hospital Future Expansion

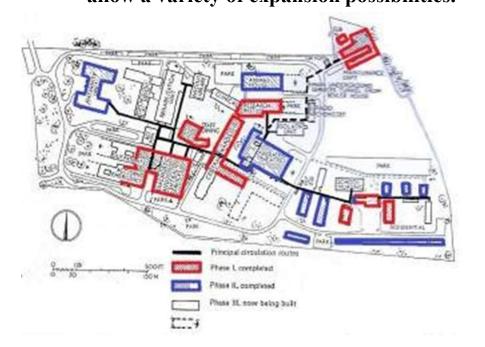
It takes 8-10 years for a hospital construction Project to move from initial planning discussions to commissioning. Meander Medisch Centrum

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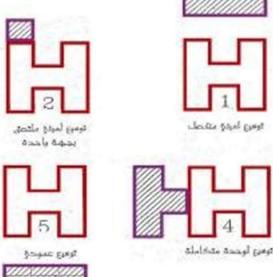
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Hospitals are often build in several phases or are added in stages to existing hospitals. Therefore, the design(circulation system, floor levels) and construction must be such as to allow a variety of expansion possibilities.









General Comments

Planning Conception

Location: The site should offer sufficient space for self-contained residential areas and hospital departments.

It should be a quiet location with no possibility of future intrusive development not excluded by regulations on adjacent sites.

No loss of amenity should result from fog, wind, dust, smoke, or insects. The land must not be contaminated and adequate open areas for later expansion must also be planned.





Royal Children's Hospital Helmann Australia





Cleveland Clinic Abu Dhabi

Also District Universit Aprill Engineers





General Comments

Planning Conception

Orientation: The most suitable orientation for treatment and operating rooms is between north-west and north-east.

For nursing ward facades, south to south-east is favorable:

The orientation of wards in hospitals with a short average stay is not so important.

Some specialist disciplines might require rooms on the north side so that patients are not

subjected to direct sunlight.



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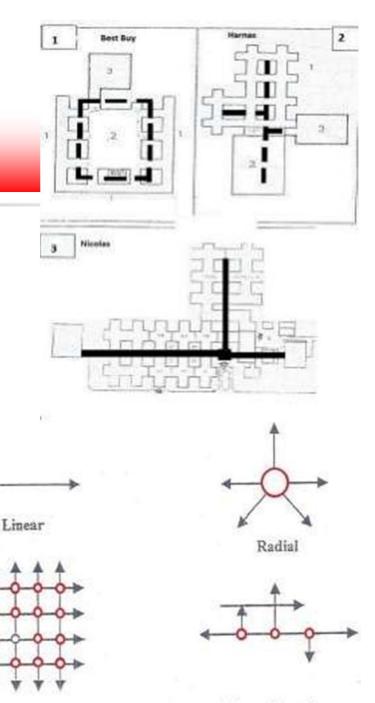


General Comments

Planning Conception

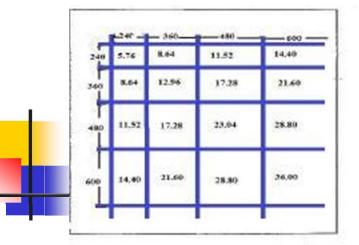
The form of a building is strongly influenced by the choice of access and circulation routes. It is therefore necessary to decide early on whether to choose a spine form with branching sections (individual departments), or whether circulation will be radial outwards from a central core.

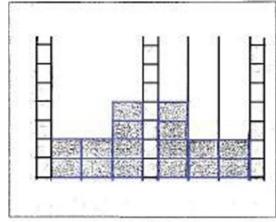
Consideration must be given to future expansion. The vertical arrangement within a hospital should be designed so that the functional areas care, treatment, supply and disposal, access for bedridden patients, service yard, underground garage, stores, administration, medical services can be connected and accessed most efficiently.

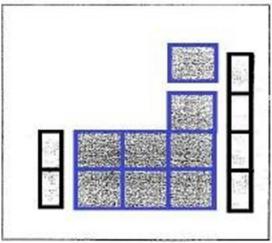


Tree - Shaped

Grid







Structural grid

The various operations centers can be planned most appropriately with a column grid spacing of 7.20m or 7.80m.

Dimensional Coordination

Modules: Modular dimensional coordination is the best starting point for meeting strategic design requirements.

For hospital construction the preferred module dimensions 12M= 1.20m are recommended, or 6M or 3M if the increments are too numerous.

In this system all the building components are coordinated with each other.

The supporting structure can be drawn in by producing a horizontal and vertical basic grid.

The benefits of dimensional coordination are shorter construction periods and easier replacement of interior fittings, with less disruption of service.

Corridors

Corridors

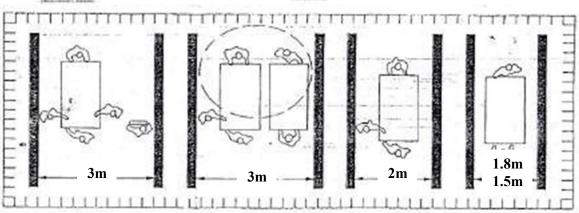
Corridors must be designed for the maximum expected circulation flow. Generally, access corridors must be at least 1.50m wide.

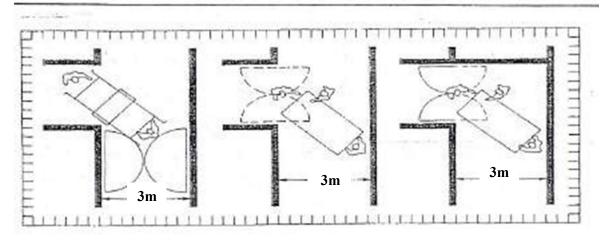
Corridors in which patients will be transported on trolleys should have a minimum effective width of 3.0 m. The suspended ceiling in corridors may be installed up to 2.40 m.

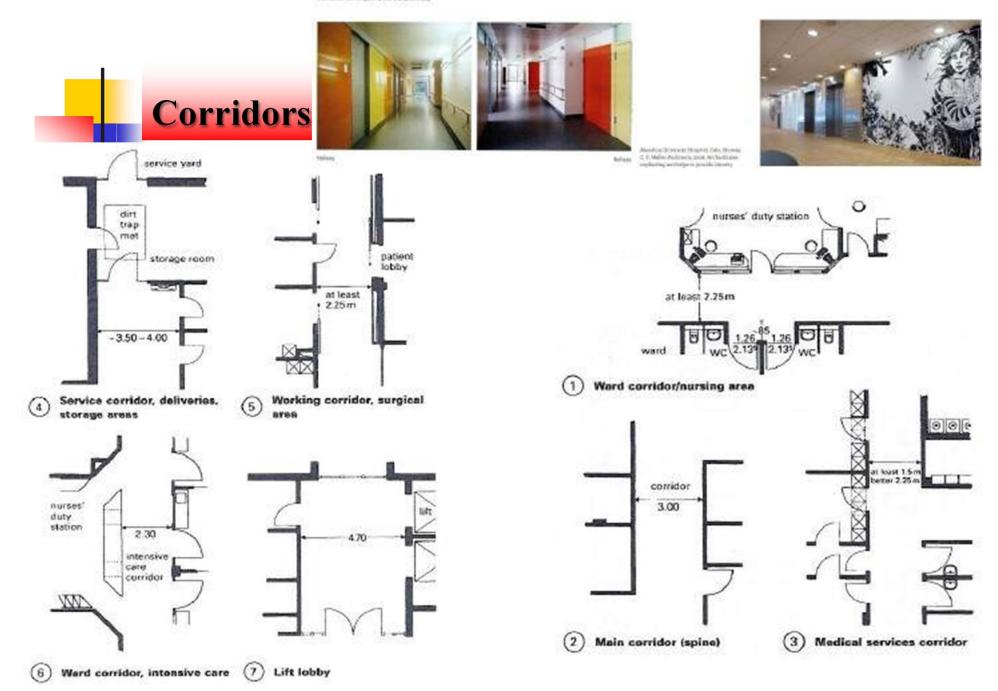


Los Arcos del Mar Menor University Hospital, Murcia, Spain, Casa Solo Arquitectos, 2011. Corridor in the operating department













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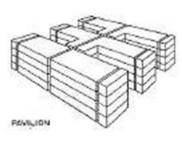
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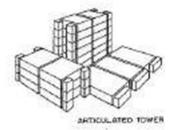


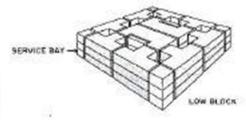


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