Planning Hospital Units



Functions of a Hospital

Preventive

- Concerned with health promotion
- Participated with community/peripheral health care delivery systems

Curative

- Patient care
- Includes health education

Training

- Continuing and on the job training

Research

- Health related researches

Categories of Hospitals

- Based on levels of functioning:
- Primary hospitals
- Secondary hospitals
 Based clinical
- Tertiary hospitals
- Based clinical specialties:
- General hospitals

Special hospitals

- Based ownership:
- Government

Principles of Planning Hospital Units

Protection

 Protection from unwanted & unnecessary disturbances in order to help speedy recovery

Separation

- Separation of dissimilar activities
- Control
 - Control over the untoward incidents
- Circulation
 - Proper integration of departments
 - Emerson Goble

hosp

Objectives of Planning Hospital Units

- Provide quality care
 - Quality medical services & enhancing patient satisfaction
- Provide maximum comfort
 - Comfort in terms of safety, security, convenience & privacy
 - Avoiding slippery floors, direct sunlight etc.
- Enhance staff satisfaction
 - Staff motivation & safe working environment
- Patient relatives & visitors convenience
 Comfortable stay, safe environments etc
- Maintenance & cost of services

Planning different hospital units

Divisions of a Hospital

- Administration division.
- **Outpatients' division**, includes;
 - Outpatient clinics.
 - Pharmacy.
 - Emergency reception.
- **Diagnostic services division**, includes;
 - Laboratories.
 - Radiology (diagnostic).
- Therapeutic services division, includes;
 - Physical Therapy.
 - Radiology (therapeutic).

Continues...

- 5. Internal medical treatment division, includes;
 - Operation Theatres.
 - Intensive Care unit.
 - Maternity section.
 - Central Sterilization Departme
- 6. Inpatient division, includes;
 - Patient wards.
 - Nurses wards.
 - Inpatient services.





Continues...

7. General service division, includes;

- Kitchen.
- Laundry.
- Storages.
- Workshops.
- Mechanical services.
- Mortuary.
- Security.
- Parking.
- Landscaping.

Inpatient Unit

- Patient rooms
 - Private/semi private or multi-bed general wards
 - Safe and aesthetic
 - Contain space for equipments, staffs & various needs of the patients

Nurse station

- Designed to observe the patients

Work area

- Space for materials necessary for patient care

Continues...

- Facilities & space required:
 - Examination & treatment room with wash basin
 - Cupboard for clean linen
 - Baskets for soiled linen
 - Waste baskets
 - Equipment storage rooms (For IV stands)
 - Lockers for staff
 - Space for storing stretchers and wheel chans

NURSE STATION

- Staff toilets
- Small laboratory
- Telephone

Specific Hospital Units

Outpatient unit

- Preferably on the ground level with separate entrance and adequate parking facilities
- Should be close to admitting area, MRD, Emergency, Radiology/Lab services & Pharmacy
- Proper ventilation & wide passages
- Properly signed

Emergency unit

- Should be in the ground level
- Separate entrance
- Well marked with proper lightings & signs
- Should be visible & accessible from the street
- Close to the admitting dept, MRD, Diagnostic services, Blood banks, elevators & cash counter.

- Intensive care units
 - Preferably in the ground floor with convenient access to OT & ED
 - Consists of patient area, staff area & support area
- Basic requirements are:
 - Direct observation of the pt by the nsg & medical staffs
 - Surveillance of physiological monitoring
 - Provision and efficient use of routine and emergency diagnostic procedures & interventions
 - Recording/Monitoring equipments

Obstetrical units

- Located close to labor & delivery room & also to the nursery
- A separate room for patient education & group discussions

Newborn unit

- An area of 30 sq ft/ infant
- Partitions made of clear glass (For observation)
- Furniture, cabinets, incubator, utility tables, wash basin, waste receptacles, oxygen & suction outlets

Area requirement- Nursery

Туре	Area (Sq. feet)
Septic	150
Normal	150
Premature	23
Nurses station with toilet	190
Doctors duty room	190
Formula/Breast feeding	115
Store	115
Phototherapy room	115

Pediatric unit

- Equal space for beds
- Provisions for parents stay
- Separate provision for examination & Rx of infants
- Single/separate room for critically/infections
- Recreation rooms
- Storage room fro toys, linen & recreational materials
- Glass panels between wall
- Lightings and cheerful cold



- Psychiatric unit
 - Consultation area containing individual and family sessions
 - Conference/therapy rooms
 - Activity area/ occupational therapy unit
 - Ward with 20-24 beds
 - Private rooms
 - Time-out rooms for violent/aggressive patients
 - Secure wards/rooms
 - All electrical fittings shall be suitably protected

- Radiology & laboratory services
 - Should be easily accessible from OPD, causality & IP
 - Preferably in the Ground floor
 - Adequate area for reception/waiting
 - Provision of separate rooms for technical functioning

Pharmacy

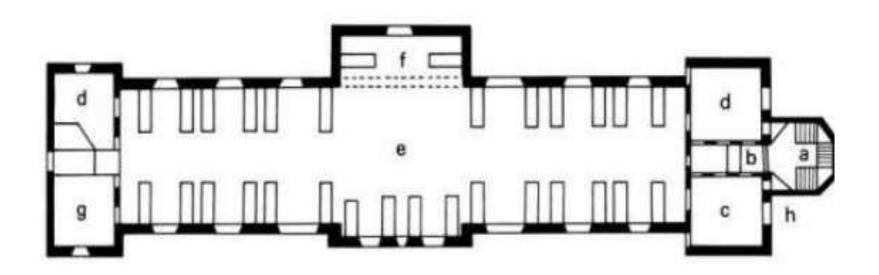
- Easily accessible
- Dispense counters
- Drugs storage spaces- cool & cold
- Administrative offices
- Circulation space

- Hospital workshop department (Bio Medial Dept)
 - It maintains & repairs the technical requirements in a hospital
- Laundry
 - Space for washing & keeping clothes
- Hospital store
 - With separate entrance
- CSSD
 - Located at centrally or unit wise (Maternity, childcare etc.)
- Hospital dietary services
 - Should be at ground level

Designs of Patient Care Units



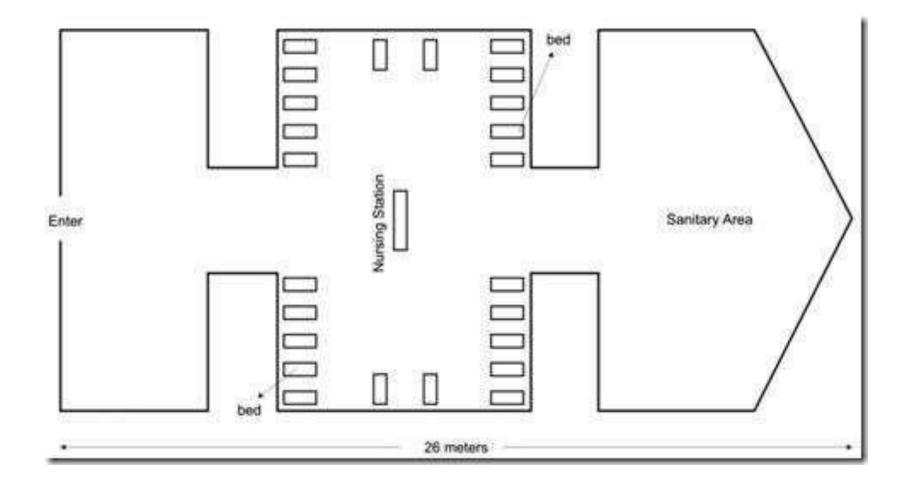
Nightingale ward



The Nightingale Ward

- Advantages
 - Excellent cross ventilation
 - Good lighting
 - Clear and unimpeded view of all patients
- Disadvantages
 - No privacy for the patients
 - Nurses or professionals may find difficult to move across

Variant Nightingale Ward

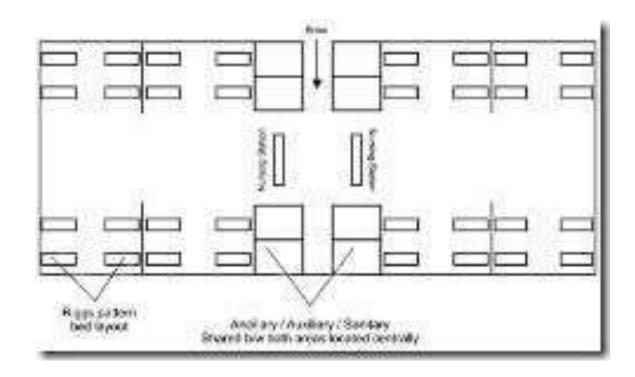


Variant nightingale ward

- Advantage
 - Privacy for the patients
 - Reduction in the noise levels
 - Reduced incidence of cross infection
 - Attached toilets making it convenient for patient relatives
- Disadvantages
 - Reduced view from the nurses station
 - Difficulty to communicate
 - Construction cost is high
 - Maintenance is difficult

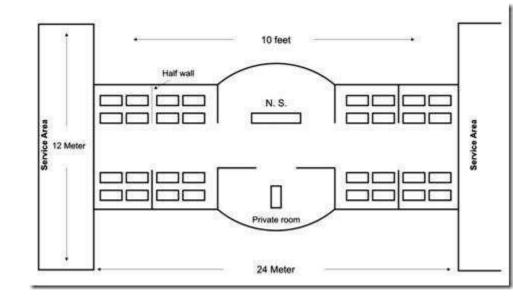
Race track design

• Also called double corridor system

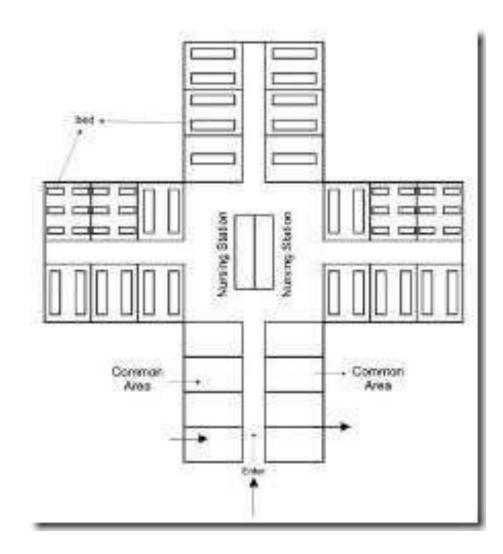


Rig's design

- Spacing of bed is improved
- Enhanced privacy due to wall partition of 5 ft height.
- Reduced walking distance
- Patient beds are arranged parallel

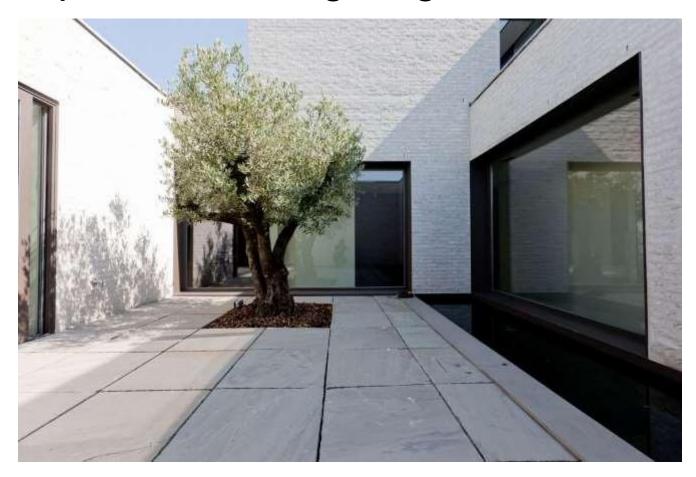


Harness type Ward



Courtyard Ward

• Adequate natural lightings are enabled





 Suneetha M. Management of nursing service and education. 1st Ed.,