	Version 1	Date January 15, 2011
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## **Introduction**

The aim of this document is to provide practical, evidence based (where appropriate) written materials about construction, design and renovation in health care facilities, that can be used in the co-operation between Infection control personnel, building planners and engineers.

SIG recommendations are given in three levels:


- **Basic** - Even with severely limited resources, this is what you should do as a minimum
- **Standard** – this is what you should aim for in less wealthy countries
- **Ideal** – if you have the resources, this is what you could do

Some **common principles**:


- Clean water supply and electricity is needed all the time.
- All surfaces should be smooth and non-absorbing. All surfaces must withstand cleaners/disinfectants. Surfaces that claim to be “anti-bacterial” offer no extra protection.
- Dispensers with alcoholic handrub should be available in all rooms and bedspaces: e.g Patient rooms, changing rooms, break room, toilets, space for reprocessing of medical devices, waste room, laboratory, housekeeping room.
- Clean gloves and plastic aprons should be available at every patient bed to prevent contact transmission of infection.
- PPE masks and eye protection should be available in every patient room to prevent splash and droplet transmission of infection to staff.
- Sterile goods storage only in cupboards.

## **Recommendations**

<b>Room</b>	<b>Basic</b>	<b>Standard</b>	<b>Ideal</b>
Corridor for patients, staff and supplies	Doors to staircase/public corridor	Dlosed doors to staircase/public corridor	Doors to ante-room leading to public corridor.
Single room with hand wash basin	Some single rooms should be available	Some single rooms must be available. Room area 25 m <sup>2</sup>	Most rooms should be single-bed rooms. Room area 25-30 m <sup>2</sup>
Ventilation for airborne infection			One to two rooms should have ventilation with possibility to get a negative pressure (including the anterooms) (for infectious patients), with HEPA filter (for hematology/oncology patients) and 6-12 air changes/h

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Multiple bed room with one hand wash basin per room	Minimum 1,5 meter between beds.	Minimum distance 2 m between beds	Minimum distance 2 m between beds.
Patient shower		One room for patient to be showered on a shower bed	Single rooms with en suite possibility to shower patient
Observation and report space	Necessary.	Necessary including online ECG (and blood pressure...) observation	Necessary including online ECG (and blood pressure, blood gas etc) observation
Space for consultation between medical staff and relatives.	Necessary.	Necessary.	Separate room should be available.
Space for family/visitors (close to the ICU)	Separate space for visitors, with toilet and facilities for food preparation	Separate room for visitors, with toilet, shower and small kitchen	Separate rooms for visitors, with toilet, shower and small kitchen
Clean utility space / clean working space Sharps must be collected in closed containers.	One designated space for clean work.	One room for clean work (preparing medications and infusions)	One room for clean work (preparing medications and infusions) per 4-5 single rooms.
Laboratory		Space for blood gas analysis machine and refrigerators for i.v. fluids and blood transfusions.	Room for blood gas analysis machine and refrigerators for i.v. fluids and blood transfusions.
Room for cleaning and disinfection of medical devices	Space for cleaning and disinfection of medical devices including ventilators and fluid pumps.	Room with washer-disinfector, space for reprocessing of ventilators and fluid pumps..	Room with washer disinfector and endoscopy disinfector, space for reprocessing of ventilators and fluid pumps.
Housekeeping room	Separate space for cleaning and disinfecting agents	Room with sink, disinfectants, cleaning agents and cleaning cart.	Room with sink, disinfectants, cleaning agents and cleaning cart.
Dirty working room	Designated space for dirty work.	Room for cleaning and disinfection of bedpans and washbasins	Rooms with flusher-disinfector for cleaning and disinfection of bedpans and washbasins.
Waste room for waste in bags / containers and dirty laundry.	Specific space for waste.	Space for waste, might be included in dirty working room.	Room for waste only, with doors to department and outside corridor.
Storage of clean and sterile equipment and	Separate room.	Separate room, with	Separate room, with

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products and clean laundry		locked doors.	locked doors.
Changing room for staff	Room with washbasin and dispensers for alcoholic hand rub, liquid soap and towels.	Rooms with washbasin and dispensers each for both sexes. Showers and toilets for each sex. Space for clean and dirty laundry.	Rooms with washbasin and dispensers each for both sexes- Showers and toilets for each sex. Space for clean and dirty laundry.

### **Some literature :**

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