

In-patient care

Health Building Note 04-01: Adult in-patient facilities



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Preface

About Health Building Notes

Health Building Notes give "best practice" guidance on the design and planning of new healthcare buildings and on the adaptation/extension of existing facilities.

They provide information to support the briefing and design processes for individual projects in the NHS building programme.

The Health Building Note suite

Healthcare delivery is constantly changing, and so too are the boundaries between primary, secondary and tertiary care. The focus now is on delivering healthcare closer to people's homes.

The Health Building Note framework (shown below) is based on the patient's experience across the spectrum of care from home to healthcare setting and back, using the national service frameworks (NSFs) as a model.

Health Building Note structure

The Health Building Notes have been organised into a suite of 17 core subjects.

Care-group-based Health Building Notes provide information about a specific care group or pathway but

cross-refer to Health Building Notes on **generic (clinical)** activities or **support systems** as appropriate.

Core subjects are subdivided into specific topics and classified by a two-digit suffix (-01, -02 etc), and may be further subdivided into Supplements A, B etc.

All Health Building Notes are supported by the overarching Health Building Note 00 in which the key areas of design and building are dealt with.

Example

The Health Building Note on accommodation for adult in-patients is represented as follows:

"Health Building Note 04-01: Adult in-patient facilities"

The supplement to Health Building Note 04-01 on isolation facilities is represented as follows:

"Health Building Note 04-01: Supplement A – Isolation facilities in acute settings"

Health Building Note number and series title	Type of Health Building Note
Health Building Note 00 – Core elements	Support-system-based
Health Building Note 01 – Cardiac care	Care-group-based
Health Building Note 02 – Cancer care	Care-group-based
Health Building Note 03 – Mental health	Care-group-based
Health Building Note 04 – In-patient care	Generic-activity-based
Health Building Note 05 – Older people	Care-group-based
Health Building Note 06 – Diagnostics	Generic-activity-based
Health Building Note 07 – Renal care	Care-group-based
Health Building Note 08 – Long-term conditions/long-stay care	Care-group-based
Health Building Note 09 - Children, young people and maternity services	Care-group-based
Health Building Note 10 – Surgery	Generic-activity-based
Health Building Note 11 – Community care	Generic-activity-based
Health Building Note 12 – Out-patient care	Generic-activity-based
Health Building Note 13 – Decontamination	Support-system-based
Health Building Note 14 – Medicines management	Support-system-based
Health Building Note 15 – Emergency care	Care-group-based
Health Building Note 16 – Pathology	Support-system-based

Other resources in the DH Estates and Facilities knowledge series

Health Technical Memoranda

Health Technical Memoranda give comprehensive advice and guidance on the design, installation and operation of specialised building and engineering technology used in the delivery of healthcare (for example medical gas pipeline systems, and ventilation systems).

They are applicable to new and existing sites, and are for use at various stages during the inception, design, construction, refurbishment and maintenance of a building.

All Health Building Notes should be read in conjunction with the relevant parts of the Health Technical Memorandum series.

Activity DataBase (ADB)

The Activity DataBase (ADB) data and software assists project teams with the briefing and design of the healthcare environment. Data is based on guidance given in the Health Building Notes, Health Technical Memoranda and Health Technical Memorandum Building Component series.

- Room data sheets provide an activity-based approach to building design and include data on personnel, planning relationships, environmental considerations, design character, space requirements and graphical layouts.
- 2. Schedules of equipment/components are included for each room, which may be grouped into ergonomically arranged assemblies.
- 3. Schedules of equipment can also be obtained at department and project level.
- 4. Fully loaded drawings may be produced from the database.
- Reference data is supplied with ADB that may be adapted and modified to suit the users' project-specific needs.

Note

The sequence of numbering within each subject area does not necessarily indicate the order in which the Health Building Notes were or will be published/printed. However, the overall structure/number format will be maintained as described.

Acknowledgements

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The Department of Health also wishes to express thanks to those who contributed to the en-suite shower room research project:

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Executive summary

This Health Building Note provides best practice guidance on the planning and design of in-patient facilities for adults. The accommodation described includes:

- bed and sanitary facilities;
- patient support facilities;
- storage facilities;
- utility facilities;
- administration area and staff facilities.

The space standards for bed areas are applicable to inpatient rooms in any setting, including acute (critical care at levels 1 and 0), day surgery and community facilities. "Level 1 critical care: Patients at risk of their condition deteriorating, or those recently relocated from higher levels of care, whose needs can be met on an acute ward with additional advice and support from the critical care team.

"Level 0 critical care: Patients whose needs can be met through normal care in an acute hospital."

Source: 'Comprehensive Critical Care' (Department of Health, 2000).

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1 Policy context

Impact of the 2006 White Paper on inpatient accommodation

1.1 The White Paper 'Our health, our care, our say: a new direction for community services' (DH 2006) signalled a shift of care into community settings. This includes activity that can be safely and effectively provided outside the acute hospital. Inpatient accommodation remains largely in acute settings, particularly for complex cases or where major surgery requiring general anaesthesia is required. However, in-patient accommodation may also be provided in community settings for those patients with less complex conditions. Planning teams will need to consider the number of inpatient beds required and where they may be most appropriately located.

Patient expectations and choice

- 1.2 Patients will have higher expectations of the environment in which they are to be treated and more say about how and where healthcare is provided, as reflected in 'Creating a patient-led NHS: Delivering the NHS Improvement Plan' (DH 2005). The provision of high-quality facilities, with the option of a single-bed room, is likely to be an influencing factor on patient choice.
- 1.3 A key element that should be addressed in all patient accommodation is that of privacy and dignity. 'The Essence of Care' (DH 2001) identified several benchmarks of good practice, focusing on the issue of respect for the individual so that:
 - patients feel that they matter all of the time;
 - patients experience care in an environment that actively encompasses individual values, beliefs and personal relationships;

- patients' personal space is actively promoted by all staff;
- communication between patients takes place in a manner that respects their individuality;
- the care of patients actively promotes their privacy and dignity and respects their modesty, including gender segregation; and
- patients can access an area that safely provides privacy.

Privacy and dignity: Same-sex accommodation

- 1.4 The need to deliver the highest standards of privacy and dignity applies equally to all areas of a hospital. Achieving these high standards will usually mean ensuring that men and women do not have to sleep in the same room or share toilet and washing facilities. Patients should not have to pass through areas used by the opposite sex to reach their own facilities.
- 1.5 Same-sex accommodation can be provided in:
 - same-sex wards, where the whole ward is occupied by men or women only;
 - single rooms;
 - mixed wards, where men and women are in separate bays or rooms.
- 1.6 In January 2009 the Department of Health launched its 'Same-sex accommodation' programme, which aims to all but eliminate mixed sex accommodation from hospitals in England by 2010. With funding and support from the programme, trusts will be expected to reduce mixed sex accommodation to the lowest possible level.

2 Scale of provision

- 2.1 The number of patients admitted to hospital each year depends on local workload patterns. The number of bed spaces required will be calculated from factors such as:
 - data on number of admissions, number of refused admissions, number of premature discharges, bed occupancy and length of stay;
 - local admissions policy;

- future developments influencing demand for acute services, for example increasing day case surgery rates, improved chronic disease management, and the potential for more care at home;
- availability of beds in other settings, for example community hospitals.

3 History of changes in bed spaces since 1997

- 3.1 The size of single-bed rooms has increased from 21 m² to 23.5 m² as a result of the review of DCAGs, ¹ which added 2.5 m² to each bed space.
- 3.2 The size of multi-bed rooms has increased from 60 m^2 to 72.5 m^2 as a result of:
 - a. the 2001 review of DCAGs, which added 2.5 m^2 to each bed space;
- b. the impact of the Disability Discrimination Act, which requires that sanitary facilities should be provided for independent users and those requiring assistance from staff. As a result the assisted shower room, which now includes a WC as well as a shower and wash-hand basin, has increased in area from 4.5 m² to 6.5 m². This has increased the overall dimensions of the multi-bed room.

Summary of changes in space requirements for a single-bed room since 1997

Area	HBN 04 1997 (m²)	Healthcare Capital Investment (Consumerism) (m²)	Difference (m ²)	Schedules of Accommodation 2003 (m ²)	HBN 04-01 2009 (m ²)	Difference (m²)
Single-bed room	13.5	16.0				
	16.0	19.0				
Family and clinical support area	3.0	3.0		3.0	included above	
Sub-total	16.5	19.0	+2.5	19.0	19.0	0.0
En-suite shower room	4.5	4.5	0.0	4.5	4.5	0.0
Total single-bed room	21.0	23.5	+2.5	23.5	23.5	0.0

^{1 *}In 2001, as part of the consumerism agenda to deliver the NHS Plan, the Departmental Cost Allowance Guides (DCAGs) were reviewed. The review concluded that an additional 2.5 m• per bed should be added to the schedules of accommodation for single-bed rooms and multi-bed rooms.

Summary of changes in space requirements for a multi-bed room since 1997

Area	HBN 04 1997 (m²)	Healthcare Capital Investment (Consumerism) (m²)	Difference (m ²)	Schedules of Accommodation 2003 (m ²)	HBN 04-01 2009 (m ²)	Difference (m²)
4-bed room	48.0	58.0		58.0	64.0	
Clinical support area	3.0	3.0		3	included above	
Sub-total	51.0	61.0	+10.0	61.0	64.0	+3.0
En-suite assisted shower & wash	4.5	4.5	0.0	4.5	not included	-4.5
En-suite assisted WC/wash	4.5	4.5	0.0	4.5	not included	-4.5
Assisted shower room (en-suite)	not included	not included		not included	6.5	+6.5
Semi-ambulant WC without luggage space (en-suite)	not included	not included		not included	2.0	+2.0
Total 4-bed room	60.0	70.0	+10.0	70.0	72.5	+2.5

4 General functional and design considerations

Location and departmental relationships

- 4.1 Historically, in-patient accommodation has been the core of the hospital. Although current trends in the delivery of health services have eliminated inpatient care for some patients who previously would have been admitted, in-patient accommodation still accounts for a significant proportion of space in a hospital.
- 4.2 Patients who are admitted are often acutely ill and in need of observation. One of the primary goals of designers, therefore, is to minimise the distance between patient rooms and staff workstations, and the distances between all patient rooms.
- 4.3 Traditionally, in-patient accommodation has been located either above the diagnostic and treatment floors of a hospital or adjacent to them. Critical care beds are prioritised to be closest to surgical or medical interventions, whereas rehabilitation and long-stay beds can be significantly further away from the core clinical services.
- 4.4 Beds can be organised horizontally over large floor areas or stacked into towers. A recent tendency in the UK has been to put beds into multi-storey wings that are separate from diagnostic and treatment facilities. This allows more consistent planning of in-patient accommodation, increases flexibility in the way that beds can be organised, and enables maintenance and refurbishment to be carried out more easily.
- 4.5 The location of wards needs to ensure privacy, particularly at night. Ground-floor locations should be considered only where the adjacent environment is free of hospital traffic and publicly accessible areas. Views outside, together with access to sunshine or direct daylight, have been shown to benefit a patient's recovery. The orientation and aspect of in-patient accommodation should be prioritised when developing a hospital masterplan.
- 4.6 The ability to isolate components of in-patient accommodation is important for infection control, particularly during outbreaks of infectious illness. It

- is also important in the event of a fire or other emergency, when patients will generally be evacuated to a safe space on the same floor.
- 4.7 The ability to combine clusters of beds will allow for different needs over time. Support facilities can be more flexibly located.
- 4.8 Because in-patient accommodation is such a large component of the hospital, its departmental relationships are mostly dependent on the number and location of access points, lifts, and distance from diagnostic and treatment facilities. Small, discrete and specialist wards such as oncology will require direct access to their own specialist diagnostic and treatment centre within the whole hospital or within the same floor.

Functional relationships

- 4.9 A ward may function as a stand-alone unit within which beds are grouped into two or more clusters. Alternatively, depending on the layout of in-patient floors, some bed clusters may be configured to be shared between wards to provide flexibility (see figure below).
- 4.10 Each bed cluster will be serviced by staff and support facilities, therefore access to supplies and means of disposal should ideally be local to each cluster. It is recommended that rooms be serviced by trolley, like hotels, so that staff do not need to walk far from their bed cluster unless they require access to a shared facility, for example the medicine store/preparation room. The preferred option will be to stock each room for linen, clinical consumables and disposable items, and rely on "just-in-time" and "top-up" supplies.
- 4.11 The reception desk will be at the entrance to a ward, together with a waiting area and facilities for visitors. The entrance to accommodation is usually controlled by staff via intercom.
- 4.12 Regeneration kitchens should not be situated centrally within a ward, although the food trolley bay will need to be located between the clusters.

4.13 Ward layouts will depend on local conditions and overall bed numbers.

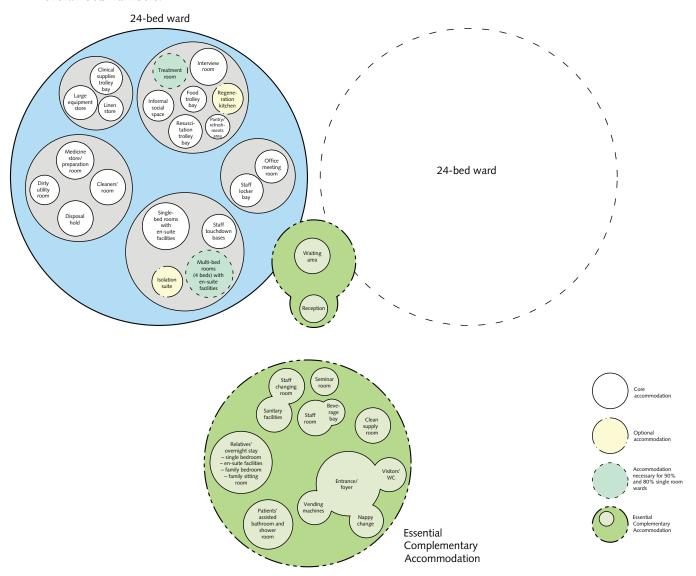


Figure 1 Functional relationships

Ward size

- 4.14 The schedules of accommodation for adult inpatient facilities are based on 24 beds.
- 4.15 The 24-bed ward has been selected as an example only, chiefly because this size is common throughout NHS hospitals.
- 4.16 It also supports the assumption that an eight-bed cohort is the preferred workforce planning unit, with one clinician and one support worker caring for each cohort, although this may vary according to the dependency level of patients in a cohort. Wards may be larger or smaller than the 24-bed example.

4.17 The number of beds in each ward should be determined locally.

Key features of a desirable environment

- 4.18 Studies (such as 'Lighting and colour for hospital design' (DH, 2004) and 'Hospital interior architecture: creating environments for special patient populations'. Malkin, Jain. Van Nostrand Reinhold, New York, 1992) have shown that the following features are necessary to provide a desirable in-patient environment:
- **4.19** Space for:
 - a. clinical activity at the bedside

- b. clinical activity elsewhere
- c. storage/display of patients' possessions
- d. storage of bulky equipment
- e. staff support and training
- f. social support of patient

4.20 Suitability of:

- a. services and supplies at the bedside for clinical activity
- b. access to and within area for physically and sensory impaired people
- c. services to enable personal communication by patient
- d. services to enable direct admin/clinical communication from the bedside
- e. a reassuring, stress reducing, environment
- f. a safe and hazard free facility

4.21 Privacy:

- a. between patient and staff
- b. during clinical treatment
- c. during clerking and clinical discussions
- d. for bodily functions and personal care
- e. for personal discussions and telephone calls
- f. for staff communications
- g. for staff rest and beverage breaks

4.22 Choice, control, comfort:

- a. to be alone or in company, including visitors
- b. of temperature, ventilation, lighting and sound
- c. of diversion, outlook, entertainment
- d. with access to beverages for patients and relatives
- e. with local storage of personal belongings of staff
- f. with access to the outside world.
- 4.23 Scientific evidence also indicates that daylight has beneficial effects on patients (see 'Natural lighting' under 'Functional design issues' in Health Building Note 00-01 'General design principles'). Therefore, all bed areas should receive natural daylight.

Space requirements

4.24 The provision of sufficient space in clinical areas, particularly for each bed space, is one of the most important considerations in the planning and design of in-patient accommodation. Ergonomic studies have established that most activities carried out at the bedside can be accommodated within the dimensions 3600 mm (width) × 3700 mm (depth). This represents the clear bed space and does not include space for fixed storage, preparation and worktops.

Sanitary facilities

- **4.25** For infection control purposes, in-patients, clinical staff and visitors should be provided with separate sanitary facilities, which should be clearly labelled.
- **4.26** Facilities for visitors and non-clinical staff should be located close to the ward reception and waiting area.
- 4.27 Sanitary facilities for clinical staff may be provided in association with staff changing and rest room areas. Where staff changing and rest rooms are located away from the ward, a designated WC for clinical staff should be provided.
- 4.28 All single-bed rooms and multi-bed rooms should have en-suite sanitary facilities. The increasing acuity of illness of in-patients means that a great proportion of patients may require assistance during their hospital stay. For greatest flexibility of use, all sanitary facilities in in-patient areas should be accessible and manageable by people with physical or sensory disabilities with or without assistance.
- 4.29 The Department of Health commissioned research into the size and layout of en-suite shower rooms to single-bed rooms to identify a space-efficient design that would, as far as possible, meet the needs of the majority of patients.
- 4.30 It was acknowledged during the research that some aspects of ambulant/semi-ambulant/independent wheelchair access and assisted use are not compatible. For example, the provision of a handrinse basin next to the WC for independent wheelchair users would have conflicted with access for patients requiring assistance.
- 4.31 As the number of patients requiring assistance is likely to be greater than the number of independent wheelchair users in in-patient accommodation, the primary concern should be to provide space and

facilities for people requiring assistance. Certain limitations on independent access are therefore considered acceptable within a healthcare setting. See paragraph 5.2, 'Bed and sanitary facilities'.

Hand hygiene

- 4.32 Antibacterial hand-rub dispensers should be provided at the ward entrance.
- 4.33 Each single-bed room should contain a clinical wash-hand basin. The basin should be located to be highly visible to staff entering and leaving the room and convenient for them to use.
- 4.34 Multi-bed rooms should contain two clinical washhand basins, one close to the entrance to the room and the other placed in a convenient position for staff working at the other end of the room.
- 4.35 The use of sensor taps may be appropriate to reduce the risk of infection. See paragraph 5.2, 'Bed and sanitary facilities'.

Isolation facilities

- 4.36 Single-bed rooms provide an effective facility for isolating patients with a variety of infections, such as MRSA. However, in some circumstances it may be necessary to provide a higher level of isolation, particularly for those patients with airborne diseases or for immuno-suppressed patients who may be at risk of infection from others. In these cases, an isolation suite which includes an entrance lobby, bedroom and en-suite sanitary facilities will be required.
- 4.37 The need for and number of isolation suites should be decided locally and in consultation with local Health Protection Agency staff. See paragraph 5.2, 'Bed and sanitary facilities'.

Cleaning services

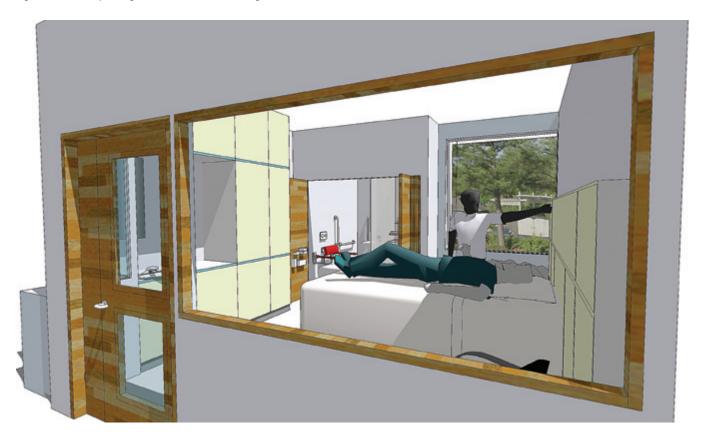
- 4.38 Recent research ('An integrated approach to hospital cleaning', DH 2007) indicates that a microfibre system for day-to-day cleaning in combination with periodic steam cleaning is an effective approach to cleaning in–patient facilities. The guidance in this manual is based on this approach. If other cleaning systems are to be adopted, design teams should give careful consideration to the facilities required in each case.
- **4.39** In terms of facilities, a microfibre system requires:

- a. space for storing the microfibre cleaning trolley and clean microfibre cloths and mops (i.e. a cleaners' room);
- b. space for holding dirty microfibre cloths (i.e. a disposal hold);
- c. laundry facilities for washing and drying used microfibre cloths.
- 4.40 The laundering of microfibre cloths and mops requires special conditions and dedicated facilities. The laundry process should be carefully managed. Project teams should decide locally whether laundry facilities are provided in-house or contracted out. More information on the laundering of microfibre cloths is contained in the research and development report 'An integrated approach to hospital cleaning: microfibre cloth and steam cleaning technology' (DH, 2008).
- 4.41 A supply of disposable cleaning materials should also be stored for clinical staff to use when cleaning staff are not available. These may be held separately in the dirty utility room.
- 4.42 This manual assumes that steam cleaning equipment for periodic deep cleaning will be stored centrally and brought to the ward as required. Storage space for this equipment on the ward is not required. See paragraph 5.36, 'Utilities'.

Observation and communication

- 4.43 Clinical staff should be able to observe and communicate easily with patients. Some clinicians may feel that single-bed rooms make observation more difficult, whereas others find that engagement with patients improves in a single-room environment because they are able to complete a whole episode of care privately without being disturbed by others.
- 4.44 Careful design can support good observation. For example, glazed walls or very large windows between rooms and corridors will enable staff to observe patients and, equally importantly, patients to see staff. Views into busy internal spaces such as circulation areas can provide a distraction for patients and are just as important as views of the outside world. Patients should have the means to obscure windows if required. For example, integral Venetian blinds can be lowered and closed to provide privacy.
- 4.45 In addition to observation through windows, the use of electronic surveillance equipment such as





cameras may be considered. However, in order to guard against the potential invasion of privacy, patients must be able to choose whether cameras in their bedroom are switched on or off. In particular, the dignity and safety of patients with mental health conditions and patients who may be in a state of confusion should be carefully considered.

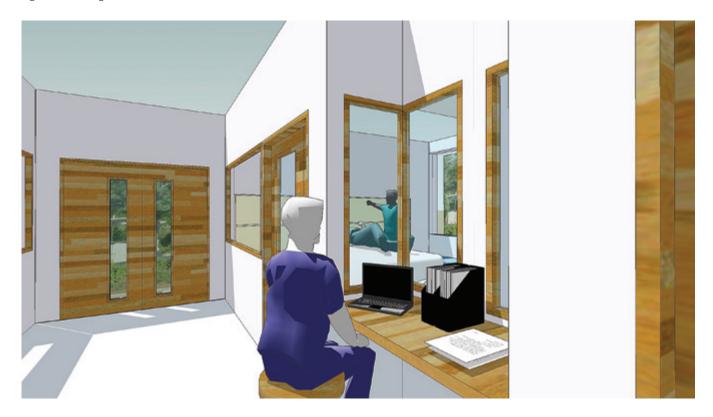
- **4.46** Use of a two-way speech facility as part of the help call system can be reassuring for patients and can reduce journey times for staff.
- 4.47 Two-way speech facilities can be made significantly more effective by including an option to enable staff to key in and out of rooms (staff presence). Smart technology allows such systems to be automated so that each member of staff wears a radio frequency identification (RFID) tag that remotely indicates their presence. This function allows staff to locate, and communicate with, each other more effectively. These facilities are particularly relevant in wards with a high percentage of single rooms.
- 4.48 Call systems should operate on a "follow the light" principle whereby over-door lights and discrete indicator units mounted at strategic positions (staff

rest rooms etc) guide staff to the call origin. In addition this can be supplemented by the use of Wi-Fi/IP technology, which can be interfaced with other site communication facilities (for example single staff handset, which combines phone, pager, cardiac and help call facilities).

Clinical administration

- 4.49 Advances in IT are enabling clinicians to move away from traditional paper-based patient records towards more flexible computer-based systems. Electronic patient records (EPR) and picture archiving and communication systems (PACS) mean that a significant amount of direct clinical administration can now take place at the bedside using a computer.
- 4.50 Wireless and infra-red technologies provide an alternative to networked computers in fixed locations. They enable EPRs to be accessed from laptops and other mobile and hand-held devices that can move with staff between clinical spaces. Where computers are fixed in bed areas, design teams should ensure that patients will not be disturbed by the light from VDUs or by staff entering data at night-time.

Figure 3 Working at a touchdown base



- 4.51 This technical information manual describes two locations for clinical administration close to the patient:
 - in bedrooms: a clinical support zone with space for recording clinical data. In multi-bed rooms, one clinical support zone serving all four beds is sufficient;
 - touchdown base: a workstation located close to patients but not within single rooms or multibed rooms. This is where EPRs can be accessed and updated. The touchdown base is at standing height with a perching stool.
- 4.52 There should be a number of touchdown bases throughout the ward, which may be located in a variety of ways:
 - a dedicated touchdown base immediately outside each bedroom; or
 - a touchdown base shared between a pair of bedrooms; or
 - a touchdown base serving a small cluster of bedrooms.
- 4.53 This technical information manual assumes that there is no central staff base, as staff will be working locally throughout the ward unit. It is recognised, however, that this is only one design solution and

- that planning teams may wish to include a central staff base.
- 4.54 The greeting of patients and visitors, and general administration, will be carried out at the ward reception desk by clerical staff. Depending on the layout of wards, the reception desk could be shared between two or more wards.
- 4.55 Pre-admission and post-discharge correspondence, private telephone calls and patient handover meetings may take place in the office/meeting room. See 'Staff communication base' in Health Building Note 00-03 'Clinical and clinical support spaces'.

Moving and handling patients

- 4.56 Patient moving/handling tasks are associated with the greatest proportion of musculoskeletal disorders in the health services (see 'Moving and handling in health and social care', HSE). One way of avoiding such injury is to move patients by use of a hoist, which requires sufficient space around the bed for staff to perform these tasks.
- 4.57 If mobile hoists are to be used, design teams should ensure that there is sufficient space within the ward to store them. Other devices for transferring patients will also need to be stored.

- 4.58 If ceiling-mounted hoists are preferred, design teams will need to consider the potential conflict with medical service units and patient entertainment systems. Consideration should also be given to the "parking" of the hoist sling when not in use. Where ceiling-mounted hoists are installed, there will still be a need for some mobile hoists, for example for lifting patients who may have fallen beyond the reach of the ceiling track.
- 4.59 The use of ceiling-mounted hoists in isolation suites requires careful consideration (see 'Isolation suites' under 'Bed and sanitary facilities').
- 4.60 In multi-bed rooms, the hoisting of patients around the bed space may compromise their privacy and dignity. The use of hoists should be restricted to bed-to-chair/trolley/wheelchair transfers only.
- 4.61 The decision on the extent of lifting equipment provided will depend on several factors including the patient profile, and should be decided locally.
- 4.62 Further guidance on the space required for moving and handling patients is contained in 'Ward layouts with single rooms and space for flexibility'. See paragraph 4.24, 'Space requirements'; and 'Ward layouts with single rooms and space for flexibility' (DH, 2005).

Separate treatment room

4.63 In a ward of 100% single-bed rooms the provision of a separate treatment room is optional, as procedures that cannot be undertaken at the patient's bedside will take place in the appropriate departments. Wards with a combination of single-bed rooms and multi-bed rooms will require a separate treatment room. See 'Treatment room: double-sided couch access' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

Supplies, storage and disposal

- 4.64 Supplies, storage and disposal are whole-hospital issues. An increasing number of UK hospitals have adopted a "just-in-time" supplies system, which involves a large centralised store on each site where all non-specialised clinical supplies are kept for regular distribution on a "top-up" basis to the different departments when required. Local policy will influence how much storage space is needed within acute wards.
- **4.65** Two options for delivering and storing clean supplies and consumables are:

- a. Each ward contains a clean utility room, which is restocked regularly from the hospital's central stores and pharmacy. Clinical supplies for individual bedrooms are held on supplies trolleys, which are topped up in the clean utility room and then parked in the clinical support area of each bedroom. Medicines are stored and prepared in the clean utility room.
- b. Clinical supplies are stored in a clean supply room serving a number of wards. Clinical supplies trolleys are restocked here and then returned to patient bedrooms where they are parked in the clinical support area. Medicines are stored and prepared separately in the ward's medicine store/preparation room.
- **4.66** The schedules of accommodation for adult inpatient facilities are based on option 2.
- 4.67 Items for disposal will be placed in the disposal hold. Some items will be held temporarily in the dirty utility room before being transferred to the disposal room.
- 4.68 Design teams should ensure that supplies policies and storage systems are agreed early in the design process, as they can have a significant impact on planning and room areas. See Figures 4 and 5. See also 'Clean utility room', 'Clean supply room' and Medicine store/preparation room' in Health Building Note 00-03 'Clinical and clinical support spaces'.

Dirty utility room

4.69 Ideally, a dirty utility room should serve no more than 15 beds. This reduces travel distances for staff, making better use of nursing time and reducing the risk of spillages and cross-contamination. A second dirty utility room on a ward is also helpful during outbreaks of illness or infectious diseases. The schedules of accommodation include two dirty utility rooms per 24-bed ward. See 'Dirty utility room for bedpan processing' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

Education and training facilities

4.70 Education is important in acute wards, and appropriate facilities should be provided. Trainee clinical staff will form a proportion of staff working in acute areas. While some teaching takes place in the clinical area on a one-to-one basis or in small groups, the teaching of large groups can be an imposition on the function of the area. A seminar

Figure 4 Central store and clean utility room

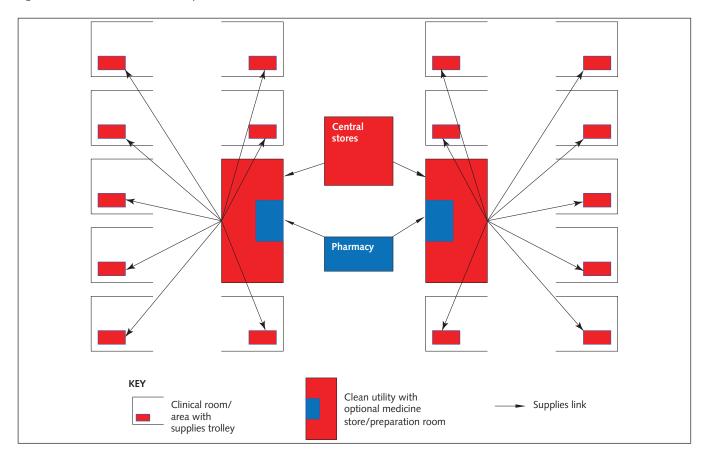
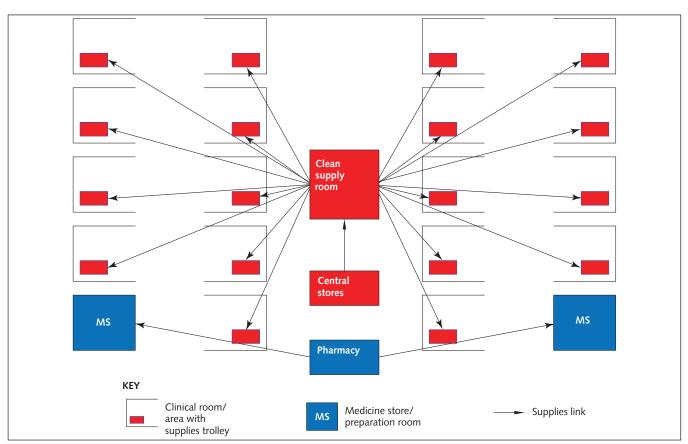


Figure 5 Clean supply room and medicine store/preparation room



room, which may be shared with other wards, should be provided as essential complementary accommodation. See paragraph x.xx, 'Seminar room'.

Views from windows

- 4.71 Wherever possible, beds should be positioned to enable patients to have a view of the outside world, which might include landscaped gardens or a courtyard with good-quality natural planting. Sill heights of windows should be low enough to allow seated people to see outside. Views out over flat roofs and roof-top plantrooms should be avoided.
- 4.72 The means for patients to control curtains or blinds for privacy should be included (motorised curtains are an option for non-ambulant patients). For further guidance refer to Health Technical Memorandum 55 'Windows'.

Courtyards

- 4.73 Well-proportioned courtyards enable rooms to receive natural daylight and ventilation in addition to providing a stimulating outlook from bedrooms, day spaces and staff areas. Layout and planting can help to preserve privacy in surrounding rooms. Courtyards may also provide a suitable location for artwork.
- 4.74 It is desirable to provide access to courtyards wherever possible, and thresholds should be designed to facilitate access. Short lengths of handrail should be provided at strategic points around the courtyard for patients who need support. Seating should also be provided. Access for

maintenance and cleaning should be sited so that patients and staff are not disturbed. Adequate water points, power points and lighting, if necessary, should be provided in all courtyards.

Environmental control

4.75 As noise is such a significant issue for patients, design that separates busy activity areas and patient bed spaces and the use of sound-absorbing materials should be adopted. Partitions between areas for confidential discussions should also be sufficient to prevent overhearing.

Telephone, TV and radio facilities

4.76 It is beneficial for patients to have convenient access to telephone, TV and radio facilities. Planning teams should identify suitable systems to meet local requirements.

Security

- 4.77 The Local Security Management Specialist (LSMS) will be able to identify security risks and offer advice on measures that can be implemented to reduce them.
- 4.78 Where entryphone/intercom systems and CCTV are installed, they should be linked to the reception desk and appropriate touchdown bases to control access through the main entrance. The LSMS should be consulted on the installation of all access control systems.

5 Spaces

Bed and sanitary facilities

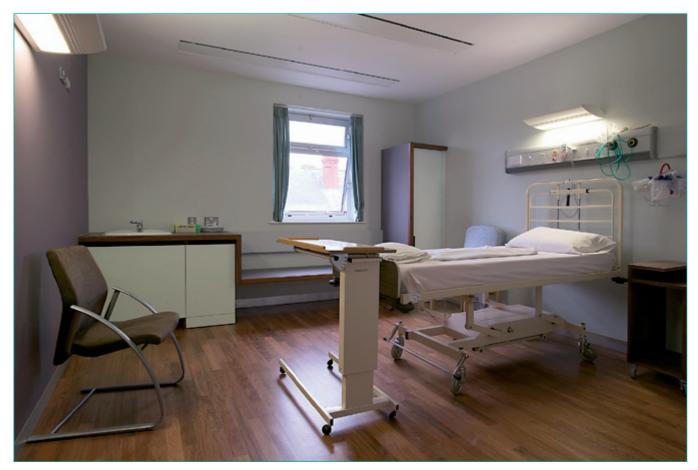
Bed spaces

- 5.1 The number of activities taking place at the bedside is increasing. The period that a patient spends in hospital is shortening, and is limited to active interventions for diagnosis, treatment and immediate recovery.
- 5.2 The level of acuity and dependence of patients once interventions begin until discharge is relatively high; movement by staff around the patient may be considerable, and there is likely to be an increasing but intermittent use of equipment and aids at the bedside.
- 5.3 The activities and the patient's response to interventions are recorded, increasingly on computer-held databases.
- 5.4 Relatives and visitors are encouraged to be more involved in patient care and support.
- 5.5 See 'Single-bed room' and 'Multi-bed room' in Health Building Note 00-03 'Clinical and clinical support spaces'.

En-suite sanitary facilities

En-suite shower room to single-bed room

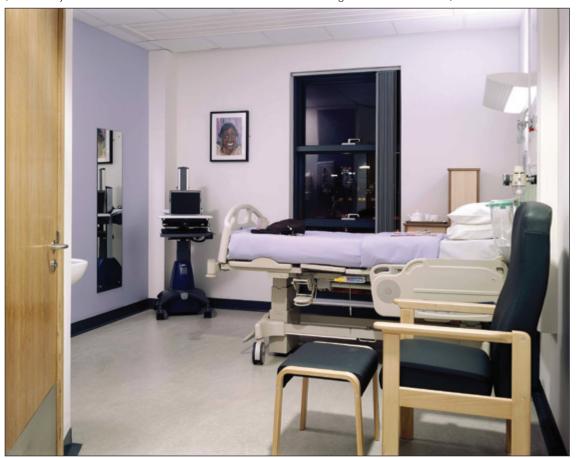
5.6 Each single-bed room should have an en-suite shower room (with WC, shower and wash-hand basin).



Kidderminster Treatment Centre (Photographer: David Whyte, Copyright: MAAP Architects Ltd)



Design for four-bed room. MAS Project, Sherwood Forest Hospitals NHS Foundation Trust (Swanke Hayden Connell Architects on behalf of Skanska Central Nottinghamshire Joint Venture)



Newham Gateway Surgical Centre, Newham University Hospitals NHS Trust



Brent Emergency Care and Diagnostic Centre, North West London Hospitals NHS Trust (Photographer: Lisa Payne)

- 5.7 The location of the en-suite can have a significant impact on the bedroom in terms of floor area, views to and from the bed, and support facilities such as the touchdown base.
- 5.8 Four layouts, each showing a different location for the en-suite, have been included for illustrative purposes (see Figure 6).

Multi-bed room sanitary facilities

- facilities, which can be accessed by patients without the need for them to travel or cross circulation routes.
- 5.10 It is convenient to provide an assisted shower room (with WC, shower and wash-hand basin) and a separate semi-ambulant WC (with hand-rinse basin), both en-suite to the bed area. Thus one person showering does not prevent others from using the WC.
- 5.11 Privacy and dignity should be ensured by the provision of appropriate security devices, locks etc. En-suite doors should not open directly onto immediate bed areas.

5.12 See 'Shower room: en-suite: chamfered', 'Shower room: assisted', and 'WC: independent wheelchair/ semi-ambulant' in Health Building Note 00-03 – 'Sanitary spaces'.

Assisted bathroom or shower room

- 5.13 In addition to en-suite facilities, an assisted bathroom or shower room is required, although this may be shared with other wards.
- 5.14 See 'Bathroom: assisted' and 'Shower room: assisted' in Health Building Note 00-03 'Sanitary spaces'.

Isolation suite

- 5.15 An isolation suite comprises a single-bed room, ensuite shower room and a ventilated lobby.
- 5.16 If it is proposed to install a ceiling hoist track system between an isolation room and en-suite shower room, the design should not compromise the airflow pattern between the two rooms.
- 5.17 The design of the isolation suite works on the principle of supplying air from the lobby at high level to the bedroom and removing it at low level



- Access points
- Support facilities including the nurse "touchdown" base
 - Views to and from the bed
- Privacy

Circulation/corridor space

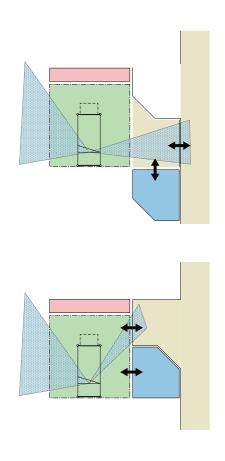
Access points

Clinical support

Bed space En-suite

Views from the bed

Floor area



Internal adjacent en-suite

a) Access to en-suite and to the room are on the same side and this determines the minimum width of the

a) Access to en-suite and to the room are on the same side and this determines the minimum width of the

Internal en-suite

b) Views of the bed from the corridor are improved in

- comparison to the inboard option.

 c) External views are maximised.
 d) Privacy for the patient is reduced. Entry to the en-suite can be seen from the conidor.
 e) There are two options for support services: external

e) There are two options for support services: external wall or partition wall.

Bed turning can be accommodated adjacent to the bedroom, which increases the circulation space but

views into the en-suite.

b) Views of the bed from the corridor are restricted.c) External views are maximised.d) Privacy for the patient is maximised especially for

- wall or partition wall
- f) To accommodate bed turning, either the corridor or
 - the bedroom doors will need to be wider. The bedroom door position is fixed.
- difficult without adding additional width to the corridor. Accommodating the nurse "touchdown" base is £8∂

In-between en-suite

a) Access to room and en-suite are on opposite sides,

which is less restrictive on room width.

b) View of the bed from the corridor is maximised.
c) External views are minimised.
d) Privacy for the activation.

- a) Interlocking en-suites increases overall width and depth of the room.

 b) Views of the bed from the corridor are maximised.
- e) There are two options for clinical support services: external wall or corridor partitions. This will be influenced by whether the en-suite is "nested" on the c) External views are maximised.d) Privacy for the patient is minimised and entry into the en-suite can be observed from the corridor. External views are minimised.
 Privacy for the patient is minimised and entry into the
 - f) To accommodate bed turning, either the corridor or the bedroom doors will need to be wider.
 g) The bedroom doors can be located flexibly on the external or internal wall.

partitions. To accommodate bed turning, either the corridor or

¢

en-suite can be observed from the corridor.

e) There are three options for support services: part

external wall, part corridor partitions and room

the bedroom doors will need to be wider. g) The bedroom doors can be located flexibly on the

adjacent to the bedroom door.

corridor wall.

- corridor wall.
- h) A nurse "touchdown" base can be accommodated adjacent to the bedroom door. h) A nurse "touchdown base" can be accommodated

Figure 6 Four exemplar locations for en-suites

decrease space within the room.

h) A nurse "touchdown" base can be accommodated adjacent to the bedroom door.

g) The door position can be optimised to increase or

minimises corridor width.

- via a transfer grille in the en-suite door. This ensures good mixing of the air in the bedroom, with a consequent dilution of possible contaminants.
- 5.18 The wall area above the outward-opening door that is penetrated by the track and suspension system should not therefore allow unrestricted airflow between the bedroom and en-suite at high level.
- 5.19 Suitably profiled filler boards and the use of brush seals will ensure an adequate resistance to flow and prevent short-circuiting.

Touchdown bases

5.20 In addition to workstations in bedrooms, space is required close to patients, but not within bedrooms, for clinical administration. The touchdown base provides a place for accessing and updating Electronic Patient Records (EPRs) and other computer work. See 'Touchdown base' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

Patient support facilities

Treatment room

- 5.21 In wards with multi-bed bays, a treatment room will be required where clinical procedures can be carried out in private. In wards with 100% single rooms, the provision of a treatment room is optional.
- 5.22 Patients using the treatment room may be ambulant, in a wheelchair, on a trolley or on a bed; the door width should be sufficient to permit their passage. See 'Treatment room: double-sided couch access' in in Health Building Note 00-03 'Clinical and clinical support spaces'.

Interview room

5.23 Discussions with patients and relatives may be carried out in an interview room. The room may also be used by staff for staff interviews, appraisal and counselling. See 'Interview room: 4 places' and 'Interview room: 7 places' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

Informal social space

5.24 Open, yet intimate, areas recognisably intended for casual meeting and talking (i.e. breakout spaces) may be all that is required to enable patients to

- socialise without the provision of dedicated day
- 5.25 Planning decisions should take account of patient culture and preferences in terms of privacy, modesty and same-sex accommodation.
- 5.26 Where day rooms are provided they should be as inviting as possible, with hotel style or domestic furnishing. It should be possible for patients to control environmental features such as lighting. A generic interview room may be adapted for use as a day room. See 'Breakout space' in Health Building Note 00-03 'Clinical and clinical support spaces'.

Ward pantry

5.27 A ward pantry is required for the preparation of beverages and light snacks on the ward. A ward pantry is an enlarged pantry/refreshment room, which includes a larger fridge, ice-making machine and additional storage. See 'Pantry/refreshment room' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

Regeneration kitchen

5.28 A regeneration kitchen will be required where the local catering policy requires food to be delivered to a department for regeneration and then distributed to a number of wards. The design of the regeneration kitchen should be determined by the catering contractor.

Parking bay: food trolley

5.29 A bay is required for parking the food trolley while meals are distributed to patients. See 'Parking bay' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

Linen store

5.30 For infection control purposes, clean linen should be kept in a closed store rather than on open trolleys. Local policy will determine whether linen is stored in single-bed rooms or in a central store.

Storage spaces

General stores

5.31 Store rooms are a costly means of providing storage, as they require internal circulation space. Storage in relatively shallow cupboards or doored alcoves opening directly from circulation areas may be more convenient and cheaper. The latter is

particularly useful for goods for which stocks are maintained by an exchange trolley service. Cupboards in corridors may need to be recessed so that the doors, when open, do not obstruct movement in the corridor.

Clean supply room

5.32 This room provides storage for sterile supplies and consumables for a number of wards. Supplies trolleys are brought here for restocking. See 'Clean supply room' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

Clinical supplies trolley

5.33 Clean and sterile goods for daily use will be held on trolleys, at the point of use in bedrooms.

Large equipment store

5.34 This store is required for bulky items of equipment, bed accessories and therapy aids. Open shelving, hanging rails and hooks as well as free-standing space for heavy equipment such as hoists and



Large equipment store

- weighing machines is required. Sockets may be useful for equipment that needs charging. Disposable items delivered in bulk packages to the clinical area will require storage.
- 5.35 Design teams may decide that more than one large equipment store is required. A number of local stores adjacent to single-bed rooms or multi-bed rooms might be more efficient.

Utilities

Medicine store/preparation room

5.36 The medicine store/preparation room is required for the storage and preparation of all the medicines to be used on the ward. This will include controlled drugs, medicines requiring refrigeration, and consumables such as syringes and needles. Rechargeable syringe drivers and infusers may be stored here. See 'Medicine store/preparation room' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

Dirty utility room

5.37 A dirty utility room with bedpan processing is required. One dirty utility room should serve no more than 15 beds. See 'Dirty utility room for bedpan processing' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

Cleaners' room

5.38 The cleaners' room is the base from which domestic service staff provide the immediate day-to-day cleaning service. See 'Cleaners' room' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

Disposal hold

5.39 The disposal hold is the temporary storage point for all items of supplies and equipment which have to be removed for cleaning, reprocessing or destruction, for example clinical and non-clinical waste and sterile services department items. See 'Disposal hold: 3000 litres' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

Administration areas and staff facilities

Reception desk

5.40 The reception desk should be in a prominent position at the entrance to the ward. The counter

needs to be stepped so that a person in a wheelchair can see and speak easily to the receptionist. The desk requires sufficient working space for a receptionist and one other who will welcome patients, relatives and staff, and undertake the local clerical and administrative duties. The reception desk and waiting area may be shared between wards. See 'Reception desk' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

Waiting area

5.41 The waiting area should be adjacent to the reception desk. It may also serve as additional informal day space for patients. See 'Waiting area' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

Office/meeting room

- 5.42 This office is a multi-purpose office, but is likely to be used principally by clinical staff to complete notes on discharged patients, hold patient handover meetings, undertake telephone calls and for staff discussions.
- 5.43 It should be located close to bed areas and sized to accommodate two computer workstations, a table and eight to ten people. A cupboard or shelves for storing a limited amount of stationery should be provided.

5.44 There is no separate medical staff or ward manager's office. See 'Office/meeting room' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

Staff locker bay

- 5.45 Staff will require local lockers to hold small personal belongings while on duty. It may be convenient to locate lockers within or adjacent to the staff room/beverage bay where provided.
- 5.46 In wards that contain the staff changing facilities, staff will have easy access to the lockers in the changing rooms and a separate locker bay will not be necessary.

Staff WC

5.47 A WC is required for clinical staff working on the ward. In wards that contain the staff changing facilities, staff will have easy access to sanitary facilities and a separate WC will not be necessary. See 'WCs' in Health Building Note 00-02 – 'Sanitary spaces'.

Staff changing room

5.48 Facilities are required for staff changing, clothes storage, showers and sanitary facilities. These facilities may be shared between several wards. Estimates of the amount of changing space and



Reception desk at East Somerset NHS Trust (Reproduced with the permission of the King's Fund Enhancing the Healing Environment Programme, and East Somerset NHS Trust)

locker provision should take into account the numbers of full-time and part-time staff, including trainees and students. See 'Changing area: staff', 'Changing room: semi-ambulant', 'Shower room: ambulant' and 'Uniform exchange area in Health Building Note 00-02 – 'Sanitary spaces'.

Staff rest room

5.49 Rest room facilities are required where staff can relax and take beverages. These may be shared

between several wards. See 'Rest room with mini kitchen' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

Seminar room

5.50 It is assumed that a designated education centre with conference facilities for multi¬disciplinary use will be available on site. See 'Seminar room' in Health Building Note 00-03 – 'Clinical and clinical support spaces'.

6 Specific engineering considerations

Internal drainage

6.1 Bedpan washers or macerators should discharge with a short branch to a vertical stack or horizontal drain. The waste pipe should not be installed above or close to heating or hot-water mains. If a bedpan washer or macerator discharges to a 100 mm drain, frequently used large-volume appliances should be situated upstream of its connection to provide additional flushing.

7 Schedule and cost information

Adult in-patient schedules of accommodation

7.1 Example schedules of accommodation are provided for a 24-bed ward with 50%, 83% and 100% single rooms.

Costing the example schedules of accommodation

- 7.2 Departmental Cost Allowances Guides (DCAGs) have been replaced by Healthcare Premises Cost Guides (HPCGs) (DH, 2010).
- 7.3 The HPCGs have been calculated by costing a 24-bed ward with 83% single rooms although the rates can be applied to all adult in-patient accommodation.
- 7.4 The HPCGs are based on a two-storey new build on an acute hospital site.

7.5 For full details of how the HPCGs were calculated see the 'Healthcare Premises Cost Guides (HPCGs)'.

Engineering space allowances

- 7.6 For the purposes of calculating the engineering space allowances it has been assumed that each ward is located on an acute (multi-purpose) hospital site with a gross internal area (GIA) of 25,000 m•.
- 7.7 For larger or smaller facilities, or where there needs to be largely dedicated engineering services plant space, the engineering space allowances will vary, generally downwards as GIA increases.
- 7.8 For further details of how the engineering space allowances have been calculated see the 'Healthcare Premises Cost Guides (HPCGs)'.

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Medicine store/proportion room	W1584										
Medicine stree preparation room	W1585	General store									
Mediting area (size based on number of places) Mediting area (size based on number of places) Mediting area (size based on number of places) Mediting area (size based on number of seats) Mediting area (size based	W1594									- 1	
Cleaners' rroom Staff spaces Staff support St	T0540 Y0331	Medicine store/preparation room Dirty utility room for bedpan processing	12.0	- 2	8.0	- 2	24.0	- 2	8.0	- 1	1 per 24 beds. 1 per 12 beds.
Safe Spaces	Y1510	Cleaners' room	8.0	1	8.0	-	8.0	1	8.0		1 per 24 beds.
Steff support Steff support 1.5 2 3.0 2 3.0 2 3.0 Para 3.7 Locker Teay: *L2 small lockers I Locker Teay: *L2 small lockers Net Internal area (NLM) 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 2.0 1 1.0 2.0 1 1.0 2.0 1		Sand suaces									
Vic. ambulant Vic. ambulan		Ctaff cupper			1						
W.C.: ambulant Net internal area (NIA) 2.0 1 2.0 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 708.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 709.5 7	V0653	Locker bay: 12 small lockers	1.5	2	3.0	2	3.0	2	3.0	Para 3.7	1 per 12 beds.
Moc. semi-ambulant clinear computer of places on number of places on number of seased on number of seases seased seased on number of seased on n	V1010	WC: ambulant	2.0	-	2.0	-	2.0	-	2:0	Para 3.72	1 per 24 beds.
Communication allowance 25.0% 166.4 27.5% 194.8 31.0% 221.3		Net internal area (NIA)			665.5		708.5		714.0		
Communication allowance 100% 666 100% 1799 174 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178 178		Circulation allowance		25.0%	166.4	27.5%	194.8	31.0%	221.3		
Essential complementary accommodation Engineering space allowance Essential complementary accommodation Engineering space allowance Gross internal area (GIA) 1064.8 1165.5 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 126.7 12		Communication allowance		10.0%	9.99	10.0%	6.07	10.0%	71.4		
Essential complementary accommodation Totals Totals		Engineering space allowance		25.0%	166.4	27.0%	191.3	28.0%	199.9		
Essential complementary accommodation 5.5 2 11.0 2 11.0 Para 3.3.364 Reception (size based on number of places) 1.7 6 10.2 6 10.2 Para 3.3.364 Walting area (size based on number of places) 1.7 6 10.2 6 10.2 Para 3.3.364 Wo: semi-ambulant Wo: semi-ambulant Additional clinical spaces 2.5 1 2.5 1 2.5 1 2.5 Para 3.66 Wo: respectation wheelchair 4.5 0.5 2.3 0.5 2.3 0.5 2.3 Para 3.66 Additional clinical spaces Ciean supply room allowance 8.0 8.0 8.0 Para 2.51,3.49 Disposal hold allowance 6.0 6.0 6.0 Para 2.51,3.49 Safif rest and mink kitchen (size based on number of seats) 1.8 3 5.4 3 5.4 5.4 Para 3.77		Gross internal area (GIA)			1064.8		1165.5		1206.7		
Entrance and reception Face states of number of places) 5.5 2 11.0 2 11.0 2 11.0 Para 33, 364 Waiting area (size based on number of places) Waiting area (size based on number of places) Waiting area 6 10.2 6 10.2 6 10.2 Para 33, 364 WC: semi-ambulant WC: semi-ambulant Children's play area 2.5 1 2.5 1 2.5 Para 3.66 WC: independent wheelchair 4.5 0.5 2.3 0.5 2.3 0.5 2.3 Para 3.66 Additional clinical spaces Clean supply room allowance 8.0 8.0 Ran 2.51, 3.49 Para 2.51, 3.49 Disposal hold allowance 6.0 6.0 6.0 6.0 Fara 3.59 Staff support Staff rest and mink kitchen (size based on number of seats) 1.8 3 5.4 3 5.4 Para 3.77		Essential complementary accommodation									
Neception (size based on number of places) 55 2 110 2 110 2 110 Para 3.3.364 Waiting area (size based on number of places) Waiting area (size based on number of places) Waiting area (size based on number of places) Wo: semi-ambulant Children's play area 2.5 1 2.5 1 2.5 1 2.5 Para 3.66 WC: semi-ambulant Children's play area 4.5 0.5 2.3 0.5 2.3 Para 3.66 WC: independent wheelchair 4.5 0.5 2.3 0.5 2.3 Para 3.66 Additional clinical spaces 8.0 8.0 8.0 Para 2.51, 3.49 Disposal hold allowance 6.0 6.0 Para 3.59 Staff support Staff support 8.0 8.0 8.0 8.0 Para 3.77 Staff support Staff support 8.0 8.0 8.0 8.0 Para 3.77 Staff rest and mink kitchen (size based on number of seats) 1.8 3 5.4 Para 3.77 Staff rest and mink kitchen (size based on number of seats) 1.8 3 5.4 Para 3.77 Staff support 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0 8.0		Entrance and reception									
Waiting area (size based on number of places) 1.7 6 10.2 6 10.2 Para 3.3.364 Word: semi-ambulant Children's play area 2.5 1 2.5 1 2.5 1 2.5 Para 3.66 WC: independent wheelchair Clean supply room allowance 4.5 0.5 2.3 0.5 2.3 Para 3.66 Additional clinical spaces Clean supply room allowance 8.0 8.0 Para 2.51.349 Disposal hold allowance 6.0 6.0 6.0 6.0 Para 3.59 Staff support Staff rest and mink kitchen (size based on number of seats) 1.6 3 5.4 Para 3.77	J0232	Reception (size based on number of places)	5.5	2	11.0	2	11.0	2	11.0	Para 3.3, 3.64	2 places per 24 beds.
Wording area Waling area Londren's play area Long remains a control of search and a control of searc		Waiting area (size based on number of places)	1.7	9	10.2	9	10.2	9	10.2	Para 3.3, 3.64	1 per 4 beds. Allowance includes more than one type of ADB room. For
W.C. semi-ambulant Children's play area 2.5 1 2.5 1 2.5 1 2.5 1 2.5 1 2.5 1 2.5 1 2.5 1 2.5 1 2.5 1 2.5 1 2.5 1 2.5 1 2.5 1 2.5 1 2.5 1 2.3 1 2.3 1 2.5 1 2 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 3 2 4 3 3 3 4 4 3 3 4 4 3 3 4 4 3 4 4 3 4 4 3 4 4 3 4 4 3 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4 4	J1152	Waiting area									details of utilit alea allowalice see Itbiy 00-03.
WC: racein-ambulant 2.5 1 2.5 1 2.5 Para 3 66 WC: racependent wheelchalf 4.5 0.6 2.3 0.5 2.3 0.5 2.3 Para 3.66 Additional clinical spaces Clean supply room allowance 8.0 8.0 Para 2.51, 3.49 Disposal hold allowance 6.0 6.0 Para 2.51, 3.49 Staff support 8.0 8.0 Para 3.59 Staff rest and mink kitchen (size based on number of seats) 1.8 3 5.4 3 5.4 Para 3.77	J1413										
WC: independent wheelchair 4.5 0.5 2.3 0.5 2.3 Para 3.66 Additional clinical spaces Additional clinical spaces 8.0 8.0 8.0 Para 2.51, 3.49 Clean supply room allowance 6.0 6.0 6.0 Fara 2.51, 3.49 Staff support 8.0 8.0 8.0 Fara 3.59 Staff rest and mink (kitchen (size based on number of seats) 1.8 3 5.4 7 Para 3.77	V1121		2.5	-	2.5	-	2.5	-	2.5	Para 3.66	1 per 24 beds.
Additional clinical spaces Additional clinical spaces 8.0 Rara 2.51;349 Clean supply room allowance 6.0 6.0 6.0 Fara 2.51;349 Disposal hold allowance 6.0 6.0 6.0 Fara 3.59 Staff support Staff rest and mink kitchen (size based on number of seats) 1.8 3 5.4 7 Fara 3.77	V0922	WC: independent wheelchair	4.5	0.5	2.3	0.5	2.3	0.5	2.3	Para 3.66	1 per 48 beds.
Clean supply room allowance		Additional clinical spaces									
Disposal hold allowance 6.0 6.0 Fara 3.59	W1475	Clean supply room allowance			8.0		8.0		8.0	Para 2.51, 3.49	0.34 sqm per bed.
Staff rest and mini kitchen (size based on number of seats) 1.8 3 5.4 3 5.4 Para 3.77	'0642 or Y0646	Disposal hold allowance			0.9		0.9		0.9	Para 3.59	0.25 sqm per bed.
Staff rest and mini kitchen (size based on number of seats) 1.8 3 5.4 3 5.4 Para 3.77		Staff support									
area allowance see HBN 0U-U3.	D0434	Staff rest and mini kitchen (size based on number of seats)	1.8	ო	5.4	က	5.4	3	5.4	Para 3.77	3 for 8 staff (maximum staff on shift). Space allowance should be combined with neighbouring wards to create a viable staff rest room. For details of unit



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H1304	Seminar room: 24 places (including 1 wheelchair place)	32.0	0.4	12.0	0.4	12.0	0.4	12.0	Para 2.56, 3.80	1 per 64 beds.
	Communal changing area (size based on number of lockers)	1. 4.	18	25.2	18	25.2	18	25.2	Para 3.73	Twice number of lockers as staff on shift plus 10% contingency (rounded). Space allowance should be combined with neighbouring department to create viable male and female changing rooms. Allowance includes more than one type of ADB room. For details of unit area allowance see HBN 00-03.
V0554	Staff communal changing room									
V0725	Semi-ambulant changing room									
V1321	Shower room: ambulant									
V0667	Uniform exchange									
V1010	WC: ambulant	2.0	+	2.0	-	2.0	1	2.0	Para 3.73	1 for up to 20 lockers.
	Net internal area (NIA)			84.6		84.6		84.6		
	Ontional accommodation									
7,4404	Nomination	C L	ļ	C L	\int		1		99 0 0000	Constitution of the Consti
POROR	Nappy drangrig room	3.0	-	3.0					Para 3.66	Optional addition to waiting space.
G0510	Lobby to isolation room	5.0		2.0					Para 3.29	
B0308	Isolation room	19.0		19.0					Para 3.29	In lieu of standard single-bed room provision.
T0535	Clean utility room	16.0	-	16.0					Para 2.51	Alternative to dean supply and medicine store/preparation room.
V1635	Shower room: assisted	8.0	_	8.0					Para 3.26	Alternative to assisted bathroom in wards with multi-bed bays.
M0727	Sitting room: 7 places (including 1 wheelchair place)	12.0	-	12.0					Para 3.41	Alternative to patient breakout space.
NA	Regeneration kitchen								Para 3.45	Project specific. Requirements by catering contractor.
					_					
Note 1	Relationship of schedule to ADB room names The ADB room codes listed may not carry a title, in ADB, identical to the room function in the schedules. Use of the appropriate ADB room code will, however, result in the correct room being accessed	in the schedu	iles. Use of th	e appropriate,	ADB room cod€	e will, however,	result in the co	rrect room be	ing accessed	
Note 2	Relationship of schedule to ADB for scalable rooms (i.e. those for which a recommended room size in ADB does not exist) ADB room code relates to one example size of this space and does not reflect space requirements of these schedules. Projects will	nmended roo equirements o	m size in AD fthese sched	B does not ex lules. Projects	cist) will scale up/dc	nded room size in ADB does not exist) ements of these schedules. Projects will scale up/down according to schedule.	to schedule.			
Note 3	Essential complementary accommodation Accommodation to which the department needs access but may be shared with nearby departments.	v departments								
Note 4	Optional accommodation Accommodation which is not expected in all departments, but, dependent on local policy, may be needed in addition to or instead of the rooms listed in the schedule.	cy, may be ne	eded in additi	on to or instea	d of the rooms	listed in the sch	hedule.			
Note 5	Circulation allowance The circulation allowance is based upon the study and calculations contained within 'Ward layouts with single rooms and space for flexibility' (DH, May 2005)	/ard layouts w	ith single roor	ms and space	for flexibility' (D	1H, May 2005).				
Note 6	Engineering space allowance For the purposes of calculating the engineering space allowances it has been assumed that each ward is located on an acute (multi-purpose) hospital site with a GIA of 25,000 sqm. For larger or smaller facilities, or where there needs to be largely dedicated engineering services plant space allowances will vary, generally downwards as GIA increases.	d that each was	ard is located	on an acute (r	nulti-purpose) h	nospital site witl	h a GIA of 25,0	00 sqm. For Is	arger or smaller faciliti	es, or where there needs to be largely dedicated engineering services plant
Note 7	Status of defined metrics All of the defined metrics (calculations for cuantifying spaces) in the potes column have been included as a reasonable basis for initial briefing. They are not intended as and should not be considered requirements.	e been include	d as a reaso	nable basis for	· initial briefing.	They are not in	Itended as and	should not be	considered requirem	PILE



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