

**COMMERCIAL CASE: THE BUILDING**  
**APPENDIX 07 - QUALITY & SAFETY INVENTORY**

Design Choice	Quality & Safety Impact	Evidence
<b>Scope</b>		
<ul style="list-style-type: none"> <li>Replacing out of date facilities – Barry/Jubilee/HWP</li> <li>Improve the quality of accommodation, materials, surfaces and design, focused on making things easier to clean</li> </ul>	<ul style="list-style-type: none"> <li>Prevention and reduction in Healthcare Acquired Infections</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>Enable a fully functioning Major Trauma Centre with Neurosurgery at RSCH and Helideck</li> </ul>	<ul style="list-style-type: none"> <li>Reduced mortality for major trauma patients</li> <li>Improved outcomes for patients admitted to A&amp;E wards/reduced admissions (radiated benefit of MT workforce in A&amp;E improving front door assessment/diagnosis out of hours)</li> </ul>	Evidence/ Best Practice
<ul style="list-style-type: none"> <li>Increased capacity for specialist and tertiary Services: <ul style="list-style-type: none"> <li>- Critical Care</li> <li>- Cancer</li> <li>- Neurosurgery &amp; Neurology</li> <li>- HIV/Infectious Diseases</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Reduction in outliers to improve clinical effectiveness</li> <li>Access to IP facilities for patients having 7 day radiotherapy treatment currently travelling</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>Enhance capacity and capability to become an Experimental Medicine Centre by co-locating BSMS &amp; CIRU and bringing together services to enable focussed participation in research</li> </ul>	<ul style="list-style-type: none"> <li>Improve patient safety</li> <li>Enable innovation</li> </ul>	
<ul style="list-style-type: none"> <li>Enable implementation of Ed &amp; learning Strategy by providing Simulation Suite, surgical skills lab, meeting and teaching suite, new facilities, improved IT</li> </ul>	<ul style="list-style-type: none"> <li>Improve patient safety</li> <li>Achieve academic excellence</li> <li>Improve efficiency and enable innovation</li> </ul>	
<ul style="list-style-type: none"> <li>Neurosurgery – Increase in theatre capacity to achieve separation of elective /emergency flows</li> </ul>	<ul style="list-style-type: none"> <li>Reduction in cancelled operations</li> <li>Efficiency benefits reduced waiting times and therefore improved clinical outcomes</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>Reduction in patient moves across site (eg head injury pts between RSCH/HWP)</li> </ul>	<ul style="list-style-type: none"> <li>Reduces clinical risk</li> <li>Reduction in length of stay</li> </ul>	Evidence
<ul style="list-style-type: none"> <li>Increase in size of discharge lounge</li> </ul>	<ul style="list-style-type: none"> <li>Improved patient flow/efficiency</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>Reduced lift and external journeys around the site for patients accessing in-patient facilities</li> </ul>	<ul style="list-style-type: none"> <li>Improved patient experience</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>Reduce patient moves/transfers between and within sites</li> </ul>	<ul style="list-style-type: none"> <li>Reduce clinical risk</li> <li>Improved patient experience</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>3Ts Development likely to attract high</li> </ul>	<ul style="list-style-type: none"> <li>Improved clinical effectiveness</li> </ul>	

Design Choice	Quality & Safety Impact	Evidence
calibre staff		
<b>1:500</b>		
<ul style="list-style-type: none"> <li>Co-located Neurology with Stroke (Acute Brain injury centre) with rehab facilities</li> </ul>	<ul style="list-style-type: none"> <li>Improved outcomes for stroke patients</li> </ul>	Evidence/BP
<ul style="list-style-type: none"> <li>Co-location of HIV and infectious diseases out-patient and in-patient services (staff expertise, emergency preparedness, bigger single facility)</li> </ul>	<ul style="list-style-type: none"> <li>Develop staff expertise</li> <li>Facilitate emergency preparedness</li> <li>Enable research and innovation</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>Co-located Neurology with Stroke (Acute Brain Injury Centre) with rehab facilities</li> </ul>	<ul style="list-style-type: none"> <li>Improved outcomes for patients</li> <li>Enabled research and innovation</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>Other Clinical Adjacencies: <ul style="list-style-type: none"> <li>Critical Care link bridge to trauma ward</li> <li>Haematology &amp; Oncology ward</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Increase efficiency</li> <li>Fostering innovation</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>Separation of in-patient and out-patient imaging facilities</li> </ul>	<ul style="list-style-type: none"> <li>Increase privacy &amp; dignity</li> <li>Increase efficiency for both types of patients particularly in-patients</li> </ul>	Best Practice
<b>1:200</b>		
<ul style="list-style-type: none"> <li>Increase in proportion of single rooms to 65%</li> </ul>	<ul style="list-style-type: none"> <li>Prevention and reduction in HAIs</li> <li>Reduction in falls, leading to a reduction in length of stay</li> <li>Improved sleep which aids recovery</li> <li>Increased patient choice, privacy &amp; dignity</li> <li>Increase in efficiency through flexibility and higher bed utilisation</li> </ul>	Evidence Evidence Evidence Best Practice
<ul style="list-style-type: none"> <li>Larger ward templates</li> </ul>	<ul style="list-style-type: none"> <li>Potential for workforce redesign leading to impact on clinical effectiveness</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>Improved ward layout – addressing CQC requirements re space between beds</li> </ul>	<ul style="list-style-type: none"> <li>Prevention and reduction in Health Acquired Infections</li> <li>Increase in near to bed treatments</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>More en-suite bathroom facilities</li> </ul>	<ul style="list-style-type: none"> <li>Prevention and reduction in Health Acquired Infections</li> <li>Improve privacy &amp; dignity</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>Bariatric ward facilities</li> </ul>	<ul style="list-style-type: none"> <li>Improved care for heavier patients</li> <li>Staff safety</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>Ward layout reflects productive ward principles</li> </ul>	<ul style="list-style-type: none"> <li>Research evidence suggests reduces risk of human factors errors</li> <li>Reduced length of stay and readmissions</li> </ul>	Evidence
<ul style="list-style-type: none"> <li>Touchdown points</li> </ul>	<ul style="list-style-type: none"> <li>Increase in productive nursing time with patients</li> </ul>	Evidence
<ul style="list-style-type: none"> <li>Separate commode wash within dirty utility area</li> </ul>	<ul style="list-style-type: none"> <li>Prevention and reduction in Health Acquired Infections</li> </ul>	Evidence
<ul style="list-style-type: none"> <li>Basement wash/store</li> </ul>	<ul style="list-style-type: none"> <li>Prevention and reduction in Health Acquired Infections</li> </ul>	Best Practice

Design Choice	Quality & Safety Impact	Evidence
<ul style="list-style-type: none"> <li>Pass through changing areas</li> </ul>	<ul style="list-style-type: none"> <li>Patient-centred care</li> <li>Privacy &amp; Dignity</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>CT in ICU</li> </ul>	<ul style="list-style-type: none"> <li>Minimise Infection risk of moving patients</li> </ul>	Evidence
<ul style="list-style-type: none"> <li>Fracture clinic – X-ray access from waiting room</li> </ul>	<ul style="list-style-type: none"> <li>Patient-centred</li> <li>Improved Efficiency</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>Separating patient/FM flows</li> </ul>	<ul style="list-style-type: none"> <li>Prevention and reduction in Health Acquired Infections</li> <li>Minimise risk of injury</li> </ul>	Best Practice
<b>1:50</b>		
<ul style="list-style-type: none"> <li>Same-handed in-patient room design</li> </ul>	<ul style="list-style-type: none"> <li>Reduce human factor errors</li> </ul>	Evidence
<ul style="list-style-type: none"> <li>Continuous handrails from bedroom to ensuite bathroom to enable safe transfer</li> </ul>	<ul style="list-style-type: none"> <li>Reduction in patient falls</li> </ul>	Evidence
<ul style="list-style-type: none"> <li>Visibility of bedhead in single rooms from ward</li> </ul>	<ul style="list-style-type: none"> <li>Reduction in patient falls</li> <li>Allows observation for deterioration</li> </ul>	Evidence
<ul style="list-style-type: none"> <li>All wards include design features for elderly patients: <ul style="list-style-type: none"> <li>Contrasting colours between floor and walls</li> <li>Choice of flooring materials</li> <li>Avoiding glare</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Reduction in patient falls</li> <li>Assist with way-finding and minimise confusion</li> </ul>	Evidence
<ul style="list-style-type: none"> <li>Consideration to be given to lighting (low level / automatic at 1:50 design stage)</li> </ul>	<ul style="list-style-type: none"> <li>Reduction in patient falls</li> </ul>	Evidence?
<ul style="list-style-type: none"> <li>CIS wards include pressure controlled rooms</li> </ul>	<ul style="list-style-type: none"> <li>Prevention and Reduction of HIAs</li> </ul>	Evidence
<ul style="list-style-type: none"> <li>Antimicrobial surfaces – to be considered at 1:50 design, in context of evidence and cost</li> </ul>	<ul style="list-style-type: none"> <li>HIAs</li> </ul>	Evidence
<ul style="list-style-type: none"> <li>Drainage and air con systems</li> </ul>		
<ul style="list-style-type: none"> <li>Smart cabinets in wards &amp; theatres for storage of high costs consumables and drugs to aid stock management and ability to track devices and drugs to individual patients. Secure POD lockers at bedside.</li> </ul>	<ul style="list-style-type: none"> <li>Medication safety</li> </ul>	
<ul style="list-style-type: none"> <li>Specific design features for patients with dementia in dedicated area eg clocks and signage, memory boxes, doors</li> </ul>	<ul style="list-style-type: none"> <li>Reduce anxiety</li> <li>Improve clinical outcomes</li> <li>Reduce length of stay</li> </ul>	Evidence
<ul style="list-style-type: none"> <li>Specific security features, including: <ul style="list-style-type: none"> <li>secure entry systems to all wards;</li> <li>infrastructure to support RFID if Trust decides to use;</li> <li>alarm systems / design to minimise risk of hanging.</li> </ul> </li> </ul>	<ul style="list-style-type: none"> <li>Patient-centred care for vulnerable patients</li> </ul>	Best Practice
<ul style="list-style-type: none"> <li>Therapeutic Landscape, eg.</li> </ul>	<ul style="list-style-type: none"> <li>Patient-centred care</li> </ul>	Evidence

Design Choice	Quality & Safety Impact	Evidence
<ul style="list-style-type: none"> <li>- all bed spaces located on exterior walls to maximise natural light – majority have sea views</li> </ul>		
<ul style="list-style-type: none"> <li>• Arts strategy</li> </ul>	<ul style="list-style-type: none"> <li>• Patient-centred care</li> </ul>	Evidence