



HAMPSHIRE CRITICAL TREATMENT HOSPITAL HAMPSHIRE, UK

The new Hampshire Critical Treatment Hospital will become a hub providing consistent access to specialist care on a 24/7 basis for patients requiring emergency assessment and treatment.

Key to the success of the new Hospital is the efficiency of processes and the experience of the patients, visitors and staff. A holistic integrated approach to spatial design, people movements and activities, and operational management of the hospital is necessary to deliver a successful building.

BuroHappold's Smart Space team were enlisted to optimise the layouts and circulation elements within the hospital. Working with the design team, medical planners and clinical staff, we identified the critical scenarios and journeys for the public entrance area, staff facilities and operating theatres department.

Using our Smart Space methodology to model the complex activities and movement patterns of patients, visitors and staff for the identified critical

scenarios, this study assessed measures (e.g. journey times, travel distances, visibility and congestions) that enhance the experience of patients, visitors and staff, and measures of hospital performance and service levels.

Our people flow study provided the following benefits throughout the design of this new hospital:

- Aligning the design development to patient, staff and visitor journeys and activities
- Improved accessibility to wards and departments
- Optimised capacity of primary circulation elements
- Evidence based design of waiting areas and main reception in the main public entrance area
- Highlighting critical points in design and critical journey time
- Informing space requirements in the operating theatres department,

including waiting area, pre-op bays and recovery bays and segregation of flows

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