Massachusetts General Hospital

Boston, Massachusetts

For 200 years, Massachusetts General Hospital has been at the forefront of patient care, medical innovation and education. In July 2011, Mass General opened the doors to the new Lunder Building. The Lunder Building, a 530,000-square-foot, 14-floor medical facility located at the heart of MGH's main campus in Boston, reflects this progressive tradition with its state-of-the-art facilities and leading-edge technology.

With the desire to use leading-edge technology in their Neuro Intensive Care Unit, while creating a patient room environment where staff and clinicians could function at their best, MGH selected Modular's Stratus® Booms.

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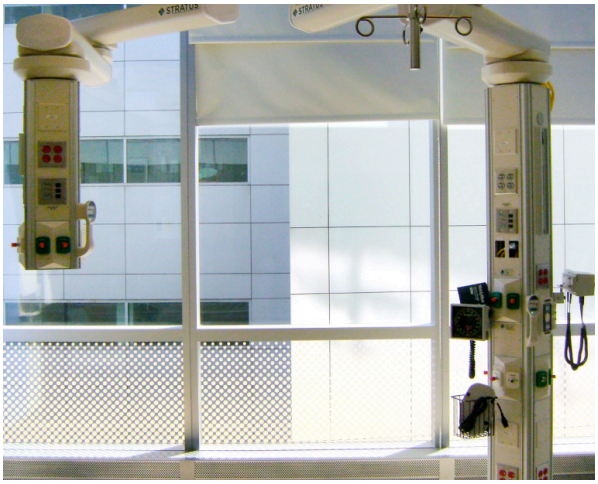

History

In late 2010, Mass General launched the largest fundraising campaign in its 200 year history and the largest capital campaign among health care institutions in the area. The three-year effort to raise $1.5 billion was called the "Campaign for the Third Century of MGH Medicine." An imperative part of the Campaign was the opening of the new building for the 3rd Century of MGH Medicine, the Lunder Building.

It was important to MGH to uphold their reputation of offering the latest in medical technology and environmentally friendly design. The new building would allow MGH to continue to provide advanced, patient-centered care.

The MGH planning team knew they wanted to use ceiling booms to best care for their patients who were staying in the Neuro Intensive Care Unit-a department consisting of 22 beds where all patients would need to be centrally monitored by the clinicians on the floor.

They needed to create a space that would best service their high acuity patients, retain the culture of a therapeutic environment with eco-friendly construction and design and include comfortable furnishings for family members.

In early 2008, a design team complete with architects, nurses, engineers and administration turned to Modular Services Company to help design a boom system that best fit their needs.

Partnering With Modular Services Company

Through a series of meetings, site visits, and mockups, it was determined that MGH would need a unique design applied to the service modules of their Stratus® booms. The nursing side would need to incorporate an extensive amount of services to best care for their high acuity patients, while the respiratory side of the patient bed needed to house the ventilator. Therefore, it was essential for one of the service modules to be designed as a shorter column so that the ventilator could be rolled and kept underneath the service unit.

Not only was the function of the unit important, but the staff also expressed that they were looking for a product that would fit in with their eco-friendly construction. There was a need to install a product that would help to reduce the stay of the patient and create an environment where the staff and clinicians would be able to do their best work. Specifically, the Neuro Intensive Care Unit would feature intra-operative imaging, the latest technology in brain tumor removal surgery. Therefore, for safety as well as convenience, the patients needed to remain in one bed on the same floor. After comparing ceiling booms to determine which unit best fit their need, MGH found Modular's Stratus® Boom to be the answer.

"One of the challenges we face in the current unit is a lack of space, but that won't be a problem in the Lunder Building. The staff is excited to move into the building, as this will

provide our patients and families with a healing and therapeutic environment in which to recover," said Suzanne Algeri, RN and Nurse Director.

Delivering Excellence

The Stratus® unit aids in maximizing patient healing and comfort. With the flexibility of MSC's Stratus® Boom in each patient room, nurses can arrange rooms to cater to each patient's needs.

"In the last ICU, the centers were stationary, but they are maneuverable around the bed at the Lunder Building. This gives nurses the ability to adjust the room according to the patient's needs, " said Tara Tehan, RN, nursing director of the Neuro ICU.

"When we began planning for the Lunder Building more than six years ago, we worked with our MGH staff and architects to incorporate a number of important environmentally friendly aspects to the building," said Jean Elrick, MD, senior vice

president for Administration and Lunder Building executive sponsor. "Along with the patient safety and excellent quality care, we focused on sustainability. Environmental conservation studies have shown that a natural environment can help to promote healing for sick patients. The practice of green building is a science, and we have been working with some of the best in the architectural field to be among the leaders in this area."

"The Neuro ICU staff has been looking forward to moving into the Lunder Building, as the new [Stratus®] unit has allowed us to provide more family and patient-centered care in a technologically cutting-edge environment, " says Tehan.

The 10-story Lunder Building has provided 150 new inpatient beds and 28 new procedural rooms, to increase MGH's number of hospital beds by nearly 20 percent. It has expanded, collated and enhanced services in cancer, neurology, neurosurgery, radiation oncology and emergency care.