

The Mount Sinai Hospital to Use Surgical Theater Technology For Brain Surgery Cases

Surgical Theater, LLC, creator of the Surgical Rehearsal Platform (SRP), has announced the sale of its cutting-edge technology to The Mount Sinai Hospital, making it the first hospital in New York to utilize the SRP for complicated brain tumor and cerebral-vascular cases.

Mount Sinai's purchase of the SRP builds on its world-renowned reputation as a trailblazer in the development and utilization of advanced imaging, robotic and simulation technology in patient care.

"At Mount Sinai we're committed to using the most advanced technology, science and engineering for the benefit of our patients. Using tools like the Surgical Rehearsal Platform in our patient care helps us keep that commitment," said Dr. Joshua B. Bederson, Professor and Chair, Department of Neurosurgery at The Mount Sinai Hospital. "We anticipate using this technology will support our mission to provide outstanding quality of care to our patients and will provide long-term risk reduction and efficiency improvement, both key in helping hospitals provide high quality and cost-effective care."

Surgical Theater is applying flight simulation technology to brain surgery. Surgical Theater has developed a software based solution that combines the science of aviation with advanced CT/MRI imaging technology. Surgical Theater's SRP is a 3D imaging platform which allows a surgeon to perform a real-life "fly through" of surgery before the actual operation. The tissue responds "realistically" to actions taken by the surgeon, enabling accurate pre-surgery planning and rehearsal. The unique software utilizes flight simulator technology to permit the remote connection of multiple SRPs; participants anywhere in the world can simultaneously work together and practice the same case with real-time feedback and collaborate on the planning of a specific surgery case.

Since obtaining Food and Drug Administration clearance in February 2013, Surgical Theater has installed SRPs in leading research and teaching hospitals across the country. Surgeons using the technology are reporting that the images and dynamic and interactive modeling of the patients' cerebral tumor and vascular cases provided by the SRP are unique in their precision. This precision is enabling surgeons to gain clinical insight that was previously unavailable and allowing them to perform enhanced planning and navigation of complex cases. Surgical Theater was also recently featured on CNN as a breakthrough technology in surgery. (<http://www.cnn.com/video/#/video/bestoftv/2013/05/15/exp-erin-dnt-idea-surgical-theater-flight-simulation-help-perfect-brain-surgery.cnn> [1]).

"Surgical Theater aims to allow each and every neurosurgeon the ability to "Pre-Live the Future" with an SRP. Using the SRP supports every neurosurgeon's goal of

