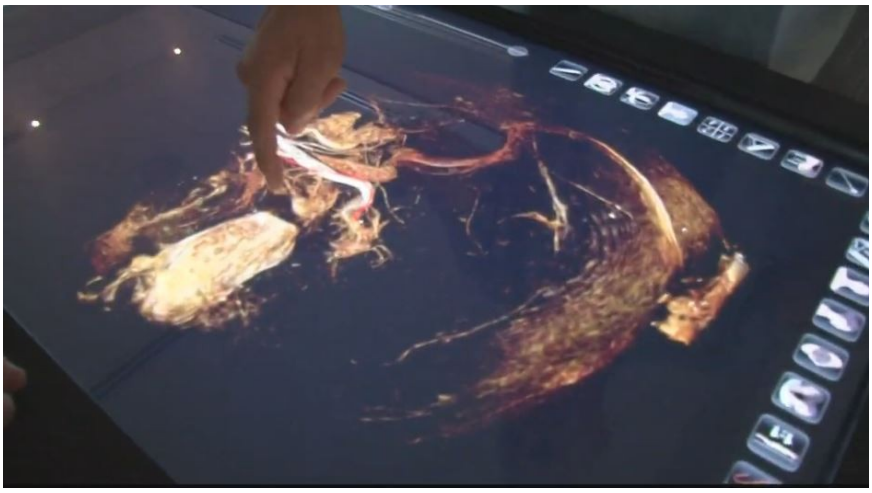
Dozens of Surgeries at Mayo Clinic Planned with High-Tech Anatomage Table

Anatomage 3D Technology for Surgical Planning & Stealth

Mayo Clinic in Jacksonville, Florida was the first facility in the world to utilize the Anatomage Table for surgical planning and stealth. They initially acquired the Table to be used in their specialized simulation center**.** The Table has been used in planning dozens of patient surgeries, many of them tumor removals.



Identifying Potential Complications & Ensuring Best Outcomes

Mayo Clinic surgeons use the Table's 3D visualization technology to view tumors from every possible angle. Specialists have been able to virtually manipulate and dissect their patients' anatomy and view the location of tumors in relation to nerves and blood vessels. Since the Table is DICOM compatible, they have the ability to load a specific patient's CT or MRI scan directly on to the Table and simulate the actual surgical procedure. Surgical teams not only use the Table to better understand a patient's anatomy, but to identify potential complications.

Successful Tumor Removal With The Table

In 2016, Chad Thomson was diagnosed with a nerve sheath tumor located at the base of his skull. The location of the tumor put significant pressure on his brain and caused debiltating headaches. Removing the golfball-sized tumor would normally have required significant facial incision, considerable post-operative scarring, substantial blood loss, and high risk for complication. His surgical team wanted to develop an alternative approach that would circumvent these negative outcomes.

They loaded Chad's MRI on to the Table to pinpoint the tumor's location and accurately visualize the surrounding anatomy. By viewing the tumor in relation to surrounding vessels and nerves, the team developed a less invasive procedure that involved reaching the tumor through the cheek sinus. With no critical structures being destroyed or post-operative scarring, the surgery was highly successful. Chad agreed that the alternative approach to his surgical plan made his surgery almost a non-event.

3D Case Review To Solve Complex Patient Conditions

The Table has allowed for surgeons to reach seemingly unreachable tumors and solve complex medical conditions. One specific patient at the clinic would lose conciousness every time she turned her head in a specific direction. By viewing her scan on the Table, specialists discovered a floating bone chip that would pinch an artery to her brain. Working with the versatile nature of the Table has allowed for specialists to review 3D clinical cases and ensure the best outcomes for their patients. Surgeons have been able to develop successful surgical strategies that wouldn't have been possible without the Table's technology.

References

Valin, J. (2017, August 30). Hi-Tech table a game changer for surgeries at Mayo Clinic Jacksonville. Retrieved from http://www.firstcoastnews.com/news/hi-tech-table-a-game-changer-for-surgeries-at-mayo-clinic-jacksonville/469373159

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