

MEDICAL EDUCATION

CRANIAL/ENT NAVIGATION StealthStation™ S8 Training Agenda

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This course instructs Allied Health staff and operating room staff on the use of the StealthStation™ S8 Navigation System running the Cranial or ENT application utilizing both optical and EM tracking methods. Emphasis is on understanding the concepts of image-guided surgery, including the qualities of a scan, principles of registration, and techniques of navigation. Additionally, this course reviews steps to perform navigated tumor resection, biopsy, FESS, and shunt catheter placement procedures.

DAY 1 - Morning

- 8:30 a.m. Introductions and Course expectations
- Orientation to course materials
- Image-guided surgery and how it relates to neurosurgical procedures
- Technology overview
 - Required elements for navigated procedures
 - Optical tracking
 - StealthStation™ S8 Electromagnetic (EM) system
- 9:15 a.m. StealthStation™ S8 system setup, components and take down
- Exercise
- 10:00 a.m. Break
- 10:15 a.m. Stealth™ Cranial/ENT application overview
- Touch Gestures
 - Logging into the software
 - Selecting a Surgeon and Procedure
- Images screen`
- Loading and checking patient exams
 - Imaging protocol
 - Exercise
- Reviewing and modifying exams
- Exercise
- Plan Screen Overview
- 11:15 a.m. Pre-Registration Steps
- Setting up the head holder and non-sterile reference frame
 - Building the Registration model
 - Exercise
 - Verifying non-sterile Registration instruments
- 12:00 p.m. Lunch

DAY 1 - Afternoon

- 1:00 p.m. Patient Registration
- Trace Registration
 - Exercise
 - Touch Registration
 - Exercise
 - Touch and Trace Combination Registration
 - Hands On
- 2:15 p.m. Break
- 2:30 p.m. Fiducial Placement
- Exercise
- 3:00 p.m. Transitioning to a Sterile Environment
- Draping options
- The Stealth™ Navigation screen
- Modifying images, screen layout and views
 - Exercise
- Tumor Resection Procedure
- 3:45 p.m. Main Menu, Optional Tasks and Customizing the Software
- Accuracy Checkpoints
 - Equipment screen
 - Instruments screen
 - Toolcards and Instrument troubleshooting
 - Export screen - Archival and Removal
 - Exams, Snapshots, and Videos
 - Admin screen- Surgeon preferences
 - Procedures, Configuration, Views, Navigation, Devices
- 5:00 p.m. Adjourn

DAY 2

- 8:30 a.m. Microscope Demo
- 9:00 a.m. Biopsy procedure
- Planning screen
 - Creating a surgical plan and utilizing the Cone of Reachability
 - Exercise
 - Instruments
 - NAVIGUS™ Trajectory Guide kits, Biopsy Needle kit, and NAVIGUS™ Probe
- Performing a NAVIGUS™ Biopsy procedure
- Exercise
- VERTEK™ Biopsy procedure demo
- 10:15 a.m. Break
- 10:30 a.m. SURETRACK2™ Trackers
- Assembly and Calibration
 - Exercise

- 11:00 a.m. Optical Shunt procedure demo
- 11:15 a.m. StealthStation™ S8 EM system
- Setup and hardware demonstration
 - Exercise
- 12:00 p.m. Lunch
- 1:00 p.m. StealthStation™ S8 EM Instruments and Supported Procedures
- Tumor Resection, Shunt Placement, ENT/FESS Procedures
 - Exercise
- 2:00 p.m. Break
- 2:15 p.m. Managing Patient data, merging exams
- Managing Patient data
 - STEALTHMERGE™ Image Registration
 - Auto merge, manual merge and verifying a merge
 - Visualizing multiple exams on the Planning and Navigation screens
 - Exercise
- 3:00 p.m. 3D Model Building
- Tools for model building
 - Tumor, Brain, Skull
 - Visualizing multiple models on the Planning and Navigation screens
 - Exercise
- 3:45 p.m. Course evaluations
- 4:00p.m. Awarding of certificates, adjourn

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