

# MEDICAL EDUCATION

## CRANIAL NAVIGATION StealthStation™ S7™ Training Agenda

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This course instructs Allied Health staff and operating room staff on the use of the StealthStation™ S7™ Navigation System running the cranial application. 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, and shunt catheter placement procedures.

### **DAY 1 - Morning**

- 8:30 a.m.      Introductions and Course expectations
- Orientation to course materials
- Computer-assisted surgery and how it relates to neurosurgical procedures
- Technology overview
    - Required elements for navigated procedures
    - Optical tracking
    - AxiEM™ tracking
  - Clinical applications
- 9:15 a.m.      StealthStation™ S7™ system setup, components and take down
- Setup Exercise
  - Review
- 10:00 a.m.      Break
- 10:15 a.m.      **Cranial application overview**  
Navigating the software interface  
Pre-registration Steps - Part 1
- Select Surgeon screen
  - Select Procedure screen
  - Select Patient screen
  - Loading and checking patient exams
    - Imaging protocol exercise
  - Reviewing and modifying exams
    - Checking and modifying exams exercise
- Preregistration Steps - Part 2
- Setup Equipment Screen
  - Plan Screen - optional
  - Verify instruments screen
    - Toolcards
    - Troubleshooting Instrument tracking
- 12:00 p.m.      Lunch

## **DAY 1 - Afternoon**

- 1:00 p.m. Registration
- Setting up the head holder and non-sterile reference frame
  - Building the Registration model
    - Building the Registration model exercise
  - Tracer™ registration
    - Tracer™ registration exercise
- 2:15 p.m. Break
- 2:30 p.m. Registration
- Touch-n-Go registration
  - Fiducial Placement
    - Exercise
  - PointMerge™ registration
    - PointMerge™ registration exercise
- 3:30 p.m. Transitioning to Sterile Environment
- Draping options
- The Navigate Screen
- Modifying Images
  - Screen layout and views
    - Exercise
    - Review
- Tumor Resection procedure
- Optional task: accuracy checkpoints
- 4:30 p.m. Software customization and end tasks
- Admin>Options
  - Snapshots
  - Exam archival and removal
- 5:00 p.m. Dismissal

## **DAY 2**

- 8:30 a.m. Biopsy
- Plan screen – creating a surgical plan
  - Equipment
    - Navigus™ Biopsy kits and probe
    - Vertek™ biopsy hardware
  - Performing a Biopsy
    - Exercise
    - Review
- 10:15 a.m. Break
- 10:30 a.m. Optical Shunt placement procedure
- Passive Catheter Introducer
  - Tip projection and look-ahead views
- 11:00 a.m. SureTrak2™ Trackers
- Assembly
  - Calibration

- 11:30 Advanced instrument troubleshooting
- Geometry error
  - Tip distance error
- 12:00 p.m. Lunch
- 1:00 p.m. Microscope Demo
- 1:20 p.m. AxiEM™ Technology Overview
- How the technology works
    - Metal interference
  - Instruments and kits
    - Shunts
    - Tumor Resection
  - Exercise AxiEM™ Setup and Shunt placement case
- 2:00 p.m. Managing Patient data, merging exams
- Managing Patient data
  - Using StealthMerge™ Image Registration
    - Auto Merge
    - Checking and verifying a merge
  - Showing Multiple exams on the Plan and Navigate screens
- 2:45 p.m. Break
- 3:00 p.m. 3D Model Building
- Tools for model building
  - Building tumor models
  - Showing multiple models on the Plan and Navigate screens
- 3:45 p.m. Course evaluations
- 4:00p.m. Awarding of certificates and dismissal

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