

# SurgTrain<sup>™</sup> 4D Neurosurgical Simulator

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Training Never Stops...

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## All Simulation modalities in One Simulator



### One-stop solution for Neurosurgical training

## Supported Procedures



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# Neurosurgical Aneurysm and Bypass Training Models





Consumables and Disposables



## **Benefits**



#### **Realistic Training**

- Real haptics and tactile feedback of pathology and tissues
- 💠 Use real surgical instruments, Implants and tools
- Patient-Specific Individual Training model
- Beginner to advanced difficulty level training options
- Task-specific training models

#### True scale patient anatomy

Models are accurately replicated from actual patients radiology images

#### Pulsatile blood flow in models

Mimics cardiophysiological aspects: validated against gold-standard vital monitors

#### Image - Guided Therapy integration 🔅

Compatible to Surgical Microscope (ICG, 5-ALA) and other imaging modalities

#### Unique 150+ Patients dataset

- Standard training models
- Easy and Quickly swappable Patient models

#### Import real patient Anatomy

Receive tailored 3D-printed complete training model with Mixed-reality training preparation on the simulator

#### **Personalized Predictive Simulation**

- Replicates complete microsurgical clinical process
- Intelligent consumable and Disposable control

#### **Ergonomic Platform**

- Portable and can be placed anywhere with power and internet source
- Easily transportable in one case box
- Same seating positions and exact microsurgical workflow

#### Customize Simulator Training Solution

Short Term Training Program (Few days to weeks)
Workshops

#### 💮 On-site Training

- Dedicated Fellowship centers
- Pre-operative training for patient-specific cases

#### **Simulator Credentials**

- 📴 Self-Diagnostics
- System Performance Health Data
- Simulator tested and certified for CE under EMI/ EMC and environmental safety standards

**General Service** 



Remote maintenance support



# Software Features

#### Life Function Control, DICOM visualization

- Train under different scenarios with the adjustable blood pressure and heart rate
- Patient model background visualization, measurement and strategic planning with the DICOM and 3D model viewer
- Intra-operative integration with contrast markers for microscopic visualization. Compatible with standard neurosurgical microscopes and exoscopes



#### Surgical Taskbar and Trainee Summary

Personalized training and performance dashboard

#### Mentor feedback

- Get personalized feedback based on the training session from experts to evaluate and grade a trainee
- Share performance metrics with mentors to obtain personalized feedback with microscope videos
- Possibility to perform remote training with connected simulators and residents across the world

#### **Skill Training**

 Gamified fundamental skill exercises and simulation programs



- Simultaneous 3D visualization of Microsurgical instruments and implants for strategic procedural pre-operative planning
- Improves the decision-making of the trainee in selecting the right microsurgical tools
- Aids in strategic planning and familiarization with intraoperative workflow



#### eIFU (electronic Instructions For Use)

- Autonomous system easy and friendly to use
- Comprehendible guide to FAQ
- Electronic Visual Guide Videos and Images for standard operating procedures





# **Testimonials**



Simulator tested, verified and validated by expert Doctors from centers globally 77

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