ANGIO Mentor™
Simulator Features

Imaging
- C-arm and patient table maneuvering
- Real time fluoroscopy, cineangiography, DSA and roadmapping
- Real time Echocardiography (ICE) and TEE

Device Simulation
- A wide selection of interventional devices: guide wires, catheters, balloons, stents, grafts and more
- Actual devices and deployment mechanisms
- Haptic feedback and realistic device behavior

Patient Management
- Responsive vital signs monitor
- Extensive medication panel
- Complex scenarios with real time complications

Educational Features
- Comprehensive performance metrics for trainee assessment
- Unique basic skills modules
- Self-guided tutorial cases for independent practice
- 3D views to establish anatomical knowledge
The ANGIO Mentor™ VR Training Simulators provide a comprehensive, safe environment for multi-level hands-on practice of endovascular procedures and techniques performed in the cath lab, interventional suite or an operating room.

**PROcedure Rehearsal Studio™**

An advanced dynamic tool for clinical and training purposes. Developed to assist clinicians prepare for their upcoming intervention by using segmentation technology to create a patient specific 3D anatomical model based on scanned images.

The 3D model can be exported to a virtual simulation environment, used by CAD software or physically printed by 3D printers, for the purpose of simulating, analyzing and evaluating pre-operative surgical treatment options.

Cases with strong teaching value can be stored on the ANGIO Mentor simulator for future training.
An Ever Expanding Library of Modules

Developed in collaboration with world leading physicians, the training modules support skills acquisition to build confidence and proficiency in a variety of endovascular techniques and procedures.

**Basic Skills**
- Endovascular Basic Skills
- EP Basic Skills

**Peripheral Interventions**
- Iliac Intervention
- SFA Intervention
- Atherectomy
- Lower Extremities CTO
- Below The Knee Intervention
- Peripheral Embolization

**Coronary Interventions**
- Coronary Intervention
- Transradial Coronary Intervention
- Advanced Coronary Intervention

**Neurovascular Interventions**
- Carotid Intervention
- Cerebral Intervention
- Acute Ischemic Stroke

**Structural Heart Diseases**
- Aortic Valve Replacement
- ASD/PFO Closure Echo Enabled
- LAA Closure Echo Enabled

**Electrophysiology**
- Cardiac Rhythm Management
- Transseptal Puncture Echo Enabled

**Aortic Interventions**
- EVAR
- TEVAR
The ANGIO Mentor Family of Products

Simulator platforms are capable of running all ANGIO Mentor modules as well as PROcedure Rehearsal Studio software.

**ANGIO Mentor Suite**
- Ideal for multi-disciplinary team training
- True-to-life Interventional Suite/Hybrid OR environment
- Optional C-arm integration
- Realistic, life-size patient mannequin
- Enables tool introduction from 5 access sites
- Ergonomically designed with adjustable table height and control panel position

**ANGIO Mentor Flex**
- Ideal for remote courses and conventions
- Compact (foldable) and light
- Packed in a small case – within airline check-in weight restrictions
- Quick setup and easy operation using a tablet
- Snap-in tracking stations, easily replaced without opening the system
- Available in both single and dual access configurations

**ANGIO Mentor Tab**
- Carry-on solution - light weight and packed in a small laptop bag
- Ideal for device demonstration (clinical reps), teaching procedural steps (hospitals/training centers)
- Runs PROcedure Rehearsal Studio - allows upcoming procedure rehearsal using patient specific file
- Full simulation using keyboard and touch gestures
- Enables device deployment using an authentic handle

Optional: C-arm Integration

An actual C-arm can be integrated into the simulation environment to contribute to a more realistic clinical setting and enhance team training. The physical rotation of the C-arm (LAO/RAO/CRAN/CAUD) is reflected in both the fluoroscopic image and the virtual C-arm simulation on the screen.
I believe that training on a Simbionix ANGIO Mentor should become an integral part of any endovascular curriculum. It provides residents and fellows with step-by-step training on fundamental skills as well as various procedures and anatomies. Not only does the simulator have realistic haptics and visuals, the range of complex scenarios and enhanced performance metrics allow our trainees to attain essential technical and cognitive expertise before working on real patients.

Jean Bismuth, M.D., Associate Professor and a leading vascular surgeon at the Methodist DeBakey Heart and Vascular Center, Methodist Hospital, Houston, Texas.