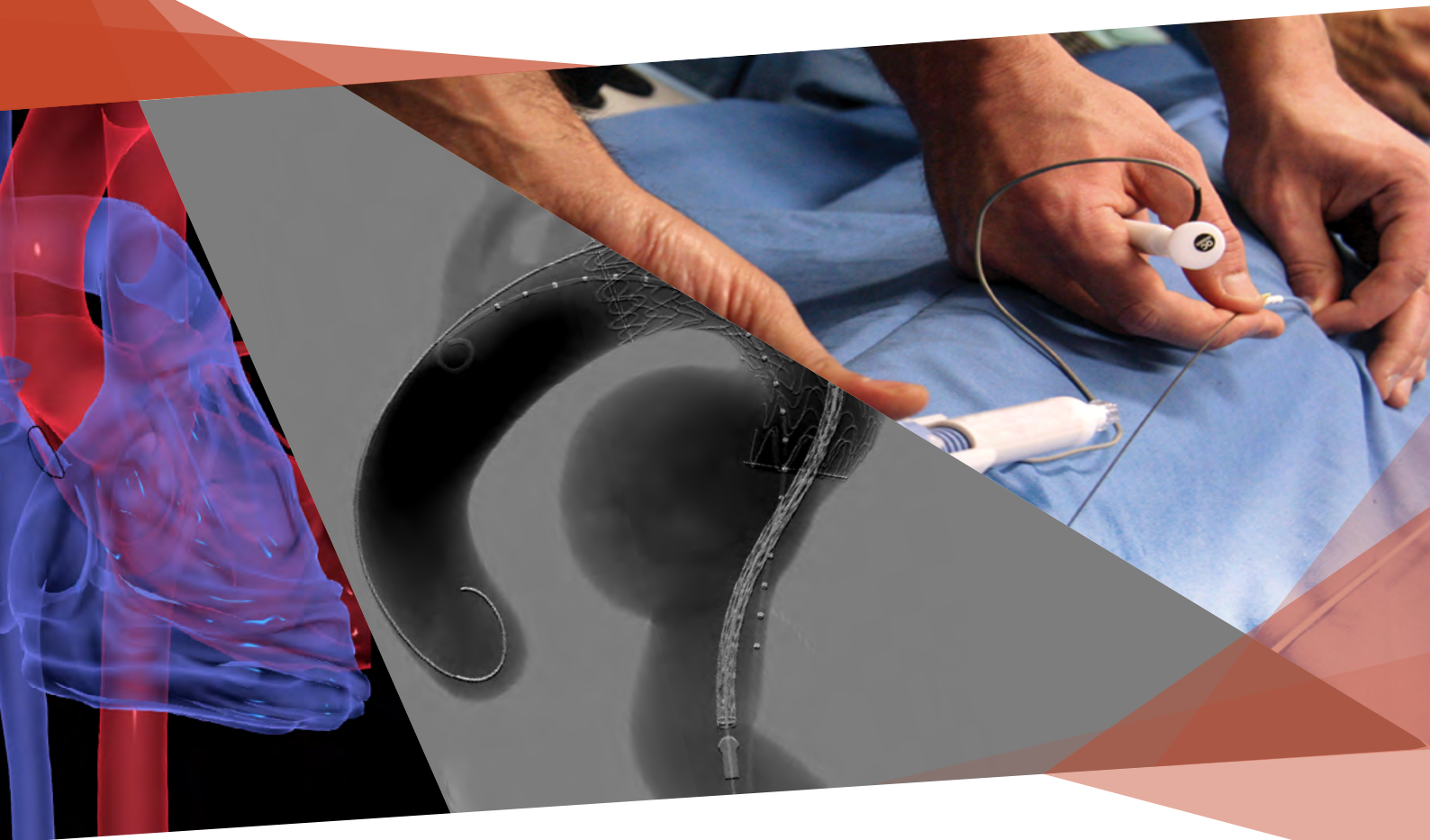


ANGIO Mentor™





Sanford-USD Surgical Residency and Cardiac Fellowship programs

Simulator Features

IMAGING

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

DEVICE SIMULATION

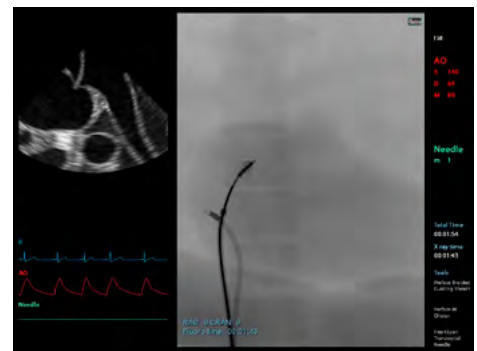
- A wide selection of interventional devices: guide wires, catheters, balloons, stents, grafts and more
- Simulated deployment handles and systems are based on actual devices
- Haptic feedback and realistic device behavior

PATIENT MANAGEMENT

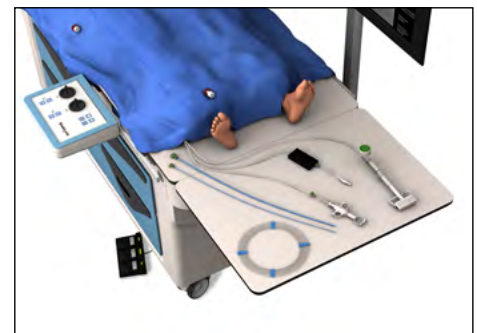
- Responsive vital signs monitor
- Extensive medication panel
- Complex scenarios with real time complications

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



Real-time ICE Simulation



Wide Variety of Interventional Device



Anglia Ruskin University, UK

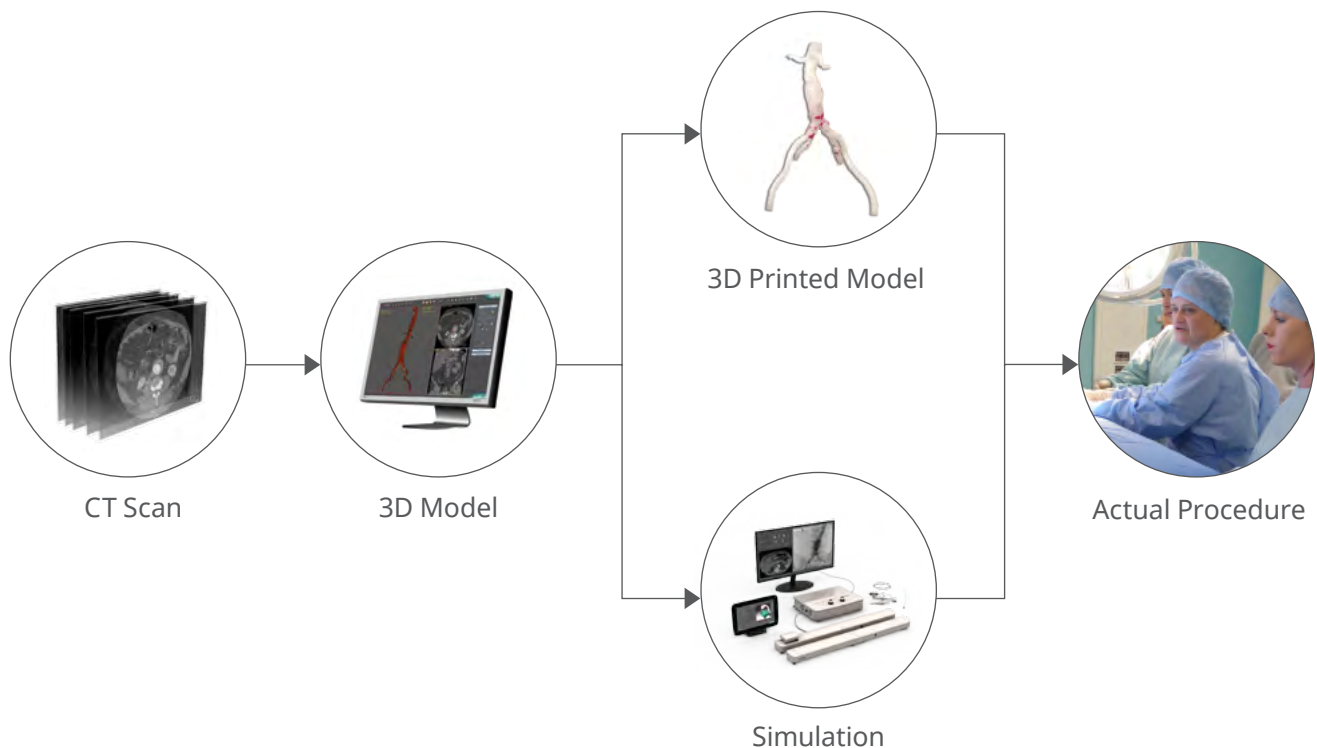
The ANGIO Mentor VR Training Simulators provide a comprehensive, safe environment for multi-level hands-on practice of endovascular procedures and techniques performed in the cath lab, interventional suite or an operating room.

PROcedure Rehearsal Studio™

A new level of preparedness for endovascular procedures.

This FDA cleared software allows clinicians to create a patient specific 3D digital model based on a patient's CT for the purpose of pre-operative surgical planning.

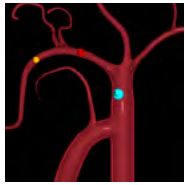
3D digital models can be exported to a virtual simulation environment for training purposes or in the form of STL file format for use in wide variety of applications.



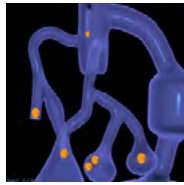
An Ever Expanding Library of Modules

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.

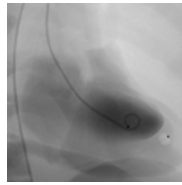
Basic Skills



Endovascular
Basic Skills

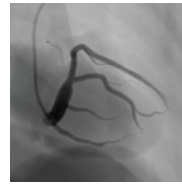


EP Basic Skills

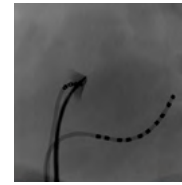


Cardio
Basic Skills

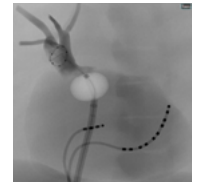
Electrophysiology



Cardiac
Rhythm
Management

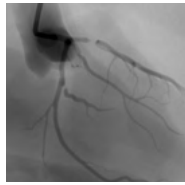


Transseptal
Puncture
Echo Enabled

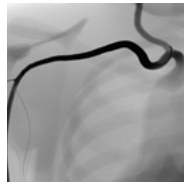


AF Ablation

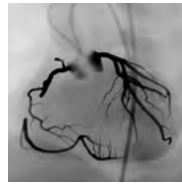
Coronary Interventions



Coronary
Intervention

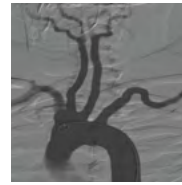


Transradial
Coronary
Intervention

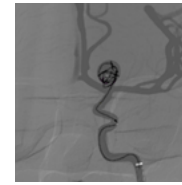


Advanced
Coronary
Intervention

Neurovascular Interventions



Carotid
Intervention

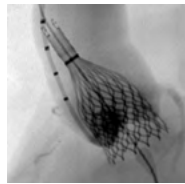


Cerebral
Intervention



Acute
Ischemic
Stroke

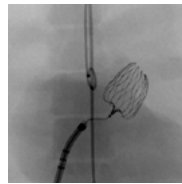
Structural Heart Diseases



Aortic Valve
Replacement

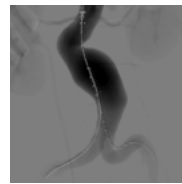


ASD/PFO Closure
Echo Enabled

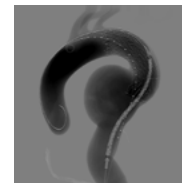


LAA Closure
Echo Enabled

Aortic Interventions



EVAR

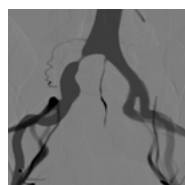


TEVAR



Advanced
TEVAR

Peripheral Interventions



Iliac
Intervention



SFA Intervention



Atherectomy



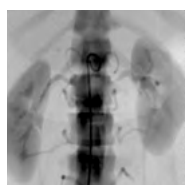
Lower
Extremities
CTO



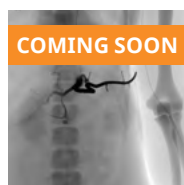
Below
The Knee
Intervention



Peripheral
Embolization



Renal
Intervention



Transradial
Peripherals



Trauma
Management

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 actual C-arm integration
- Realistic, life-size patient mannequin
- Built-in 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 touchpad tablet
- 22" multi-touch, full HD monitor for fluoroscopy view
- Easy maintenance with snap-in tracking stations that can be replaced without opening the system
- Available in both single and dual access configurations



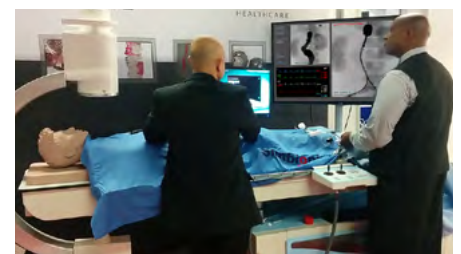
ANGIO Mentor Tab

- Carry-on solution: light weight and packed in a small laptop bag
- Ideal for device demonstration (sales reps), teaching procedural steps (hospitals/training centers)
- Runs PROcedure Rehearsal Studio: allows practicing on patient specific anatomy
- 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 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.

Healthcare Solutions

A pioneer in 3D printing, training simulators, surgical planning and personalized medical technologies, 3D Systems is dedicated to helping medical professionals train for, plan, practice and perform complex medical procedures and achieve better patient outcomes.

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