

# Ultrasound Mentor®





## Ultrasound Mentor

### AN ULTRASOUND TRAINING SOLUTION ACROSS MEDICAL SPECIALTIES

The Simbionix Ultrasound Mentor is a high-fidelity simulator for the training of ultrasound examinations and interventions. It provides interns, residents, fellows and practicing physicians the optimal solution for acquiring and improving their sonography skills on a variety of patient anatomies and pathologies.

## Key Benefits

- Accelerates the development of technical and cognitive skills
- Saves faculty time by enabling self-learning
- Enables individual progress monitoring by instructor
- A modular platform serving multiple specialties
- Fits varied experience levels

## Enhanced Educational Value

- Complete didactic environment: 3D anatomical map, anatomical labels, video tutorials and more
- Competence assessment: captured images are compared to gold standard and proficiency-based learning
- Skill Tasks and Procedural Tasks: integrated step-by-step scan protocols
- Extensive Content: a wide coverage of medical specialties and experience levels
- Integrated curricula: according to professional guidelines and protocols

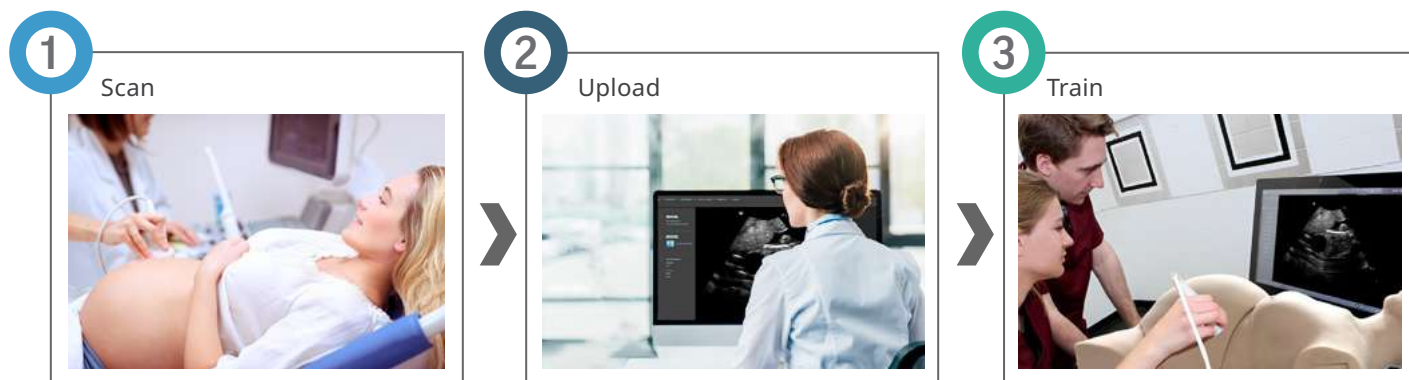
## Enhanced Realism

- A true-to-life, complex ultrasound image: presents common ultrasound attributes and artifacts
- Realistic anatomies physiology and pathologies: offer a diverse range of normal to abnormal scenarios
- Advanced diagnostic tools: Doppler modes, M-mode, numerous measurements and auto calculations

The Ultrasound Mentor is the optimal hands-on training solution for ultrasonography, designed to improve patient care by accelerating the trainee's learning curve and promoting diagnostic competence.

## MyCase

Create your own simulation case



## Diverse Simulation Technologies

Offer the most advantageous training experience: Virtual 3D simulation and US-image-based focused clinical scenarios.



## MentorLearn Cloud

Ask how the MentorLearn Cloud simulator curricula management system can support your Simbionix simulator. MentorLearn's many capabilities include remote simulator administration, online learning, anywhere results monitoring, proficiency based hands-on training, as well as simulation video capture that is ideal for debriefing.

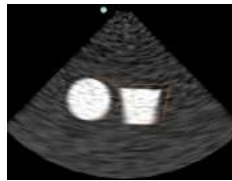
Request a demo or more information at [healthcare@3dsystems.com](mailto:healthcare@3dsystems.com)

# Ultrasound Mentor Modules

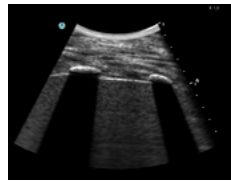
Modules and clinical cases are continuously developed in collaboration with medical experts to serve the growing demand for ultrasound training in various clinical specialties.



## Male



SONOGRAPHY BASIC SKILLS



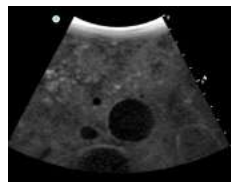
eFAST AND RUSH



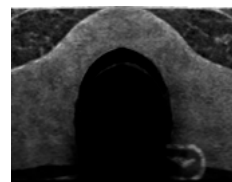
eFAST AND RUSH VR



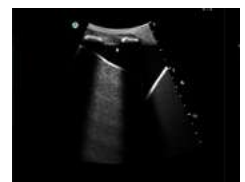
BEDSIDE ECHOCARDIOGRAPHY



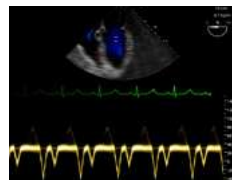
ABDOMINAL



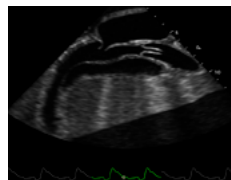
NECK



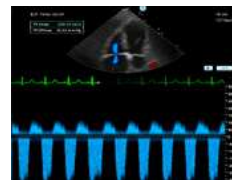
LUNG



TEE



TEE EMERGENCY



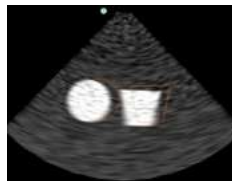
ADVANCED ECHO



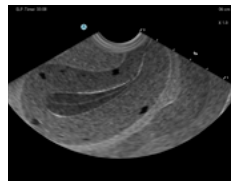
COVID-19



## Female



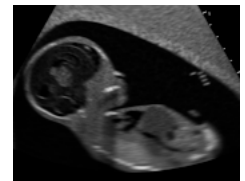
SONOGRAPHY BASIC SKILLS



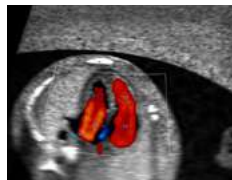
BASIC GYN



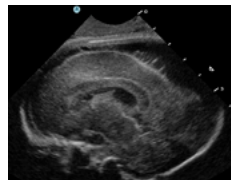
OBSTETRICS 1<sup>ST</sup> TRIMESTER



OBSTETRICS 2<sup>ND</sup> TRIMESTER



FETAL ECHO



FETAL NEUROSONOGRAPHY



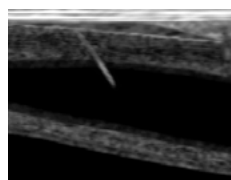
OBSTETRICS 2<sup>ND</sup> TRIMESTER VR



## Interventional Ultrasound



THORACENTESIS



CENTRAL LINE



PERICARDIOCENTESIS



# Modular, Cross-Specialty Simulation Platforms

## Male and Female Mannequins

- Desktop and cart-based configurations offer portable and ergonomic solutions
- True-to-life palpable mannequins
- Easy mannequin exchange for continuous training
- Seamless probe exchange for alternate approach

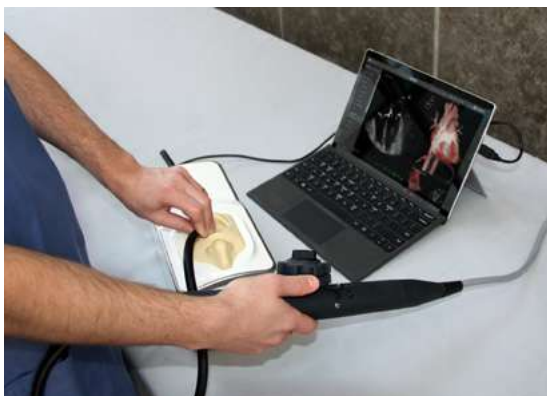


## Interventional Ultrasound

A variety of ultrasound-guided intervention modules using actual needle/syringe are available, each with a dedicated anatomy cartridge that can be exchanged, offering realistic and trackable practice.

Note: The interventional ultrasound modules are also available on Simbionix PERC Mentor Suite simulator.

## TEE Express



Portable, cost-effective solution for TEE training

## VR Add-On



For a highly immersive training experience, available for Trauma/Emergency and OB 2nd Trimester Modules



"Working with the Ultrasound Mentor helps shorten our students' learning curve, both in terms of their scanning capabilities and improved clinical reasoning. Learning new scanning protocols in a scaled, self-directed manner is also quite useful, especially when considering the patient discomfort, intimate nature of endovaginal sonography and limited faculty spare time."

**Sanja Kupesic Plavsic, MD, PhD**

Associate Academic Dean for Faculty Development  
Professor of Obstetrics and Gynecology  
Director of Center for Advanced Teaching and  
Assessment in Clinical Simulation (ATACS)  
Paul L. Foster School of Medicine Texas Tech University



"We have used the Ultrasound Mentor extensively, and I recommend it very strongly to train fellows in cardiology and cardiac anesthesiology to improve their TEE skills and practice performing comprehensive TEE procedures. The training modules allow for incremental levels of comfort and expertise in being able to acquire the optimal images for accurate diagnosis. This simulator can also be used during CME courses under the guidance of an expert, to assess skill levels and suggest interventions to improve the quality and timeliness of performing comprehensive examinations."

**Jyothy Puthumana, MD, FACC**

Associate Professor of Medicine (Cardiology)  
Feinberg School of Medicine, Northwestern University



"I am very pleased with the Simbionix Ultrasound Mentor and find it integral in my teaching. I purchased the cardiac package to overcome a major gap that students have from knowing little to nothing about adult echocardiography to learning and understanding the anatomy of the heart. My high expectations for its implementation were exceeded as my students independently take extra time to use the simulator."

**Scott Cutler BS, RDCS, RVT, RDMS**

Director of Echocardiography (NCT)  
Spokane Community College

**surgicalscience | Simbionix Simulators**

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