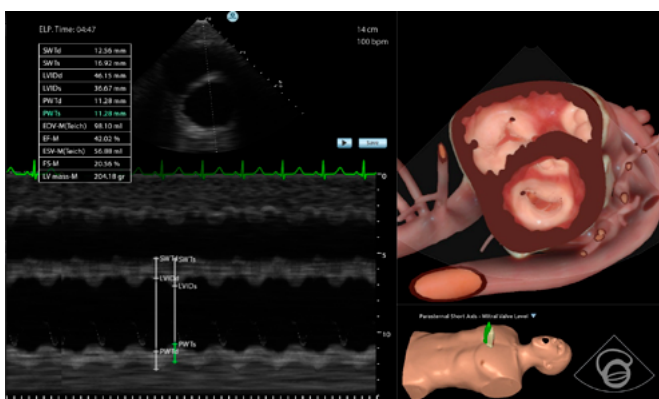# 3D SYSTEMS®

U/S Mentor™

Ultrasound Examination

The Simbionix U/S Mentor training simulator combines 3D Virtual cases and Clinical Focused Scenarios featuring reconstructed ultrasound scans. Learners benefit from the didactic strength and superior assessment, as well as absolute realism.

SIMULATOR FEATURES AND BENEFITS

- Training materials include external visualizations, anatomic labels, tutorials, immediate performance feedback and more.

- Skill tasks and step-by-step procedural tasks provide a self-learning opportunity and save valuable faculty time.

- True-to-life anatomies, physiology and pathologies.

- Realistic probe switch for immediate alternated approach: TTE/TEE, TAS/TVS.

- Training to the full extent of the actual procedure.

- Customizable diagnostic difficulty level based on trainee's experience.

- Image controls and diagnostic tools freely available in all patient cases.

- Power, color and spectral Doppler modes.

- Procedure-restricted mode for unaided performance and testing.

- Documentation and clinical findings report enhance diagnostic sensibilities.

In-depth training in the use of advanced diagnostic tools including Doppler modes, M-Mode, and numerous measurements and auto calculations.

The U/S 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.

U/S Mentor VR - Coming Soon

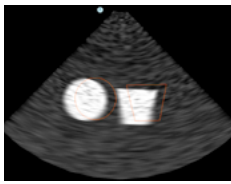## MentorLearn Simulator Curricula Management System

3D SYSTEMS' MULTIDISCIPLINARY SIMULATORS EFFORTLESSLY INTEGRATE INTO YOUR PROGRAM CURRICULUM

- Customizable curriculum incorporating training and didactics.

- Easy and efficient administration of simulator users.

- Online learning courses and video-based content.

- Proficiency based hands-on training.

- Performance reports with learning curve graphs.

- Recorded videos of the simulation sessions for debriefing.
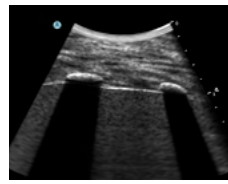
U/S Mentor Modules

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

SONOGRAPHY BASIC SKILLS

Develops psychomotor skills and basic sonography capabilities. Focuses on hand-eye coordination and ultrasound image control (knobology).

BEDSIDE ECHOCARDIOGRAPHY

Practice point of care standard views acquisition, abnormalities diagnosis, hemodynamic assessment, documentation and clinical findings reporting.

ADVANCED ECHO

Comprehensive cardiac evaluation of adult and pediatric cases. Includes advanced diagnostic tools and measurements for complete, in-depth, assessment.

BASIC GYN

Covers standard views acquisition, measurements, documentation and clinical findings diagnosis of normal, pathological and emergency cases.

OBSTETRICS 1st TRIMESTER

TAS / TVS scanning for structured assessment to confirm and evaluate: viability, GA, multiple fetuses pregnancy, chromosomal anomaly and fetal gross anatomy.

FETAL NEUROSONOGRAPHY
Focused Clinical Scenarios
Practice advanced diagnosis based on real ultrasound imaging of normal and abnormal fetal brain or spinal scans at various gestational ages.
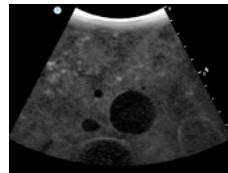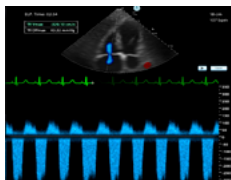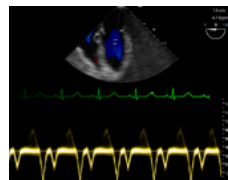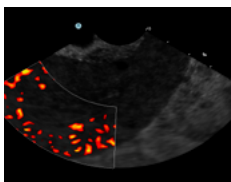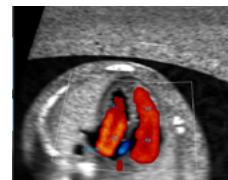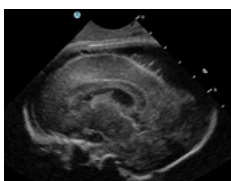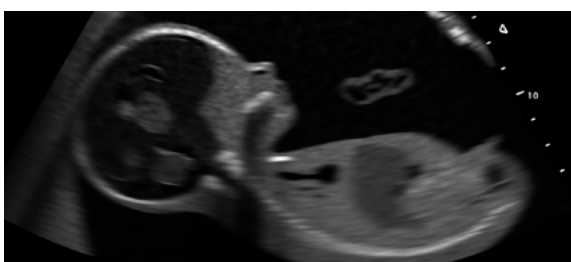
eFAST and RUSH

Adult and pediatric trauma scenarios with findings such as free fluid in the abdomen or thorax, pericardial effusion, pleural effusion and pneumothorax.

ABDOMINAL

Assessment of adult and pediatric virtual patients with pathologies such as AAA, liver mass, renal / gallbladder abnormalities and more.

TEE

Realistic training environment for TEE probe maneuvering to demonstrate standard views, evaluate anatomy and physiology, and diagnose diverse findings.

OBSTETRICS 2nd TRIMESTER

Structured assessment of varying fetuses with normal and abnormal findings including measurements, and documentation.

FETAL ECHO

Learn and practice accurate prenatal diagnosis of normal or abnormal findings. Virtual patient cases feature diverse fetus positions and varied CHD conditions.
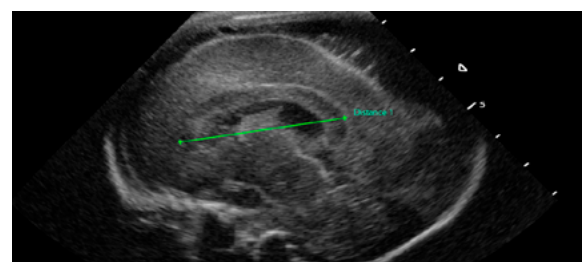
LUNG ULTRASOUND

Practice lung and pleural scanning with diverse lung artifacts and scanning protocols. Pneumonia, Pneumothorax, and Pulmonary edema pathologies.
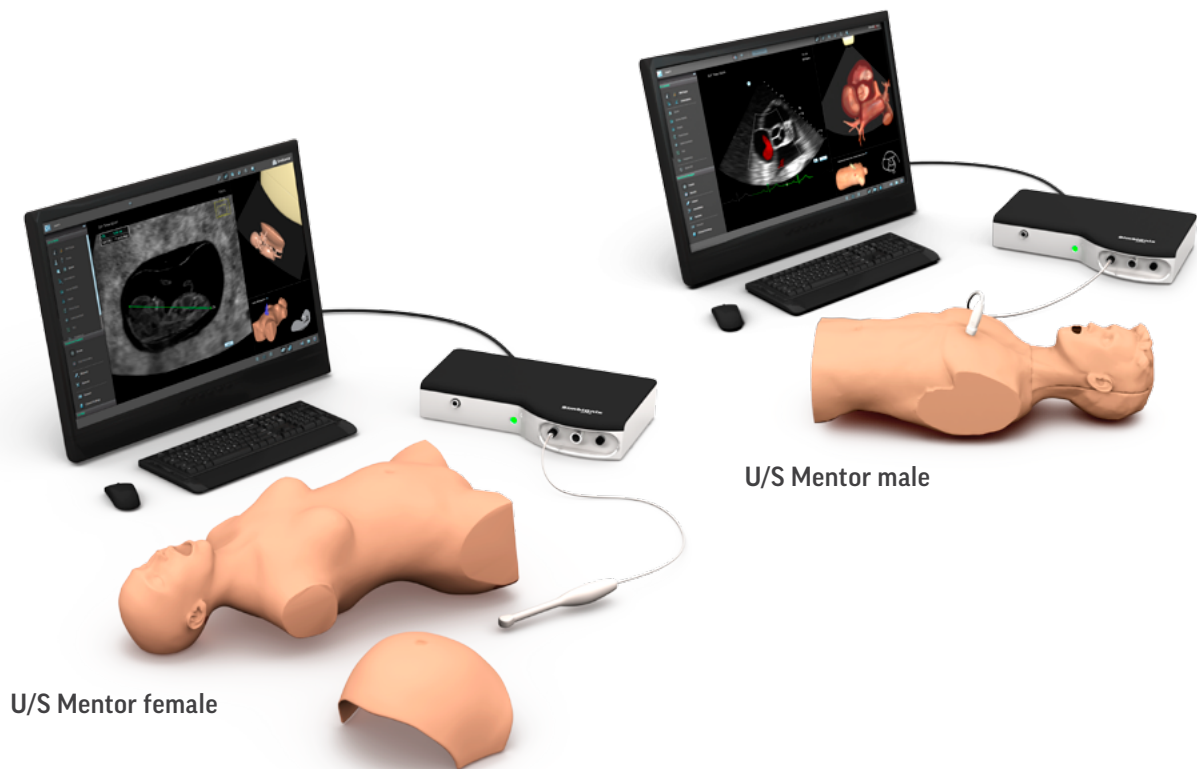
VR simulation offers self-directed learning followed by meaningful performance assessment.

Focused Clinical Scenarios feature real ultrasound scans for enhanced diagnostic training.

Request a demo or more information at **healthcare@3dsystems.com**

Simulation Platform

- Portable platform for quick and easy setup.

- An elegant modular platform supports both desktop and standalone configurations.

- True-to-life, palpable mannequins can be alternated for continuous training.

- Optional cart configuration with adjustable elements for a more ergonomic working position.

U/S Mentor male

U/S Mentor female

"Working with the U/S 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 U/S 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 U/S 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

Healthcare Solutions

3D Systems is a pioneer for healthcare solutions that improve outcomes which benefit both patients and surgeons. Our global team works with customers to help navigate technologies and provide support for surgical planning, training, device design, personalized medical technologies and 3D printing. We are dedicated to helping medical professionals train for, plan and practice complex medical procedures.