

SynDaver™ Labs

SynDaver Synthetic Human

Z-SSH-F-0015

The SynDaver Synthetic Human is the most elaborate and sophisticated full-body surgical simulator ever devised. An exquisite 3D jigsaw puzzle; every muscle, bone, vascular component and organ is removable and replaceable. This is the apex of hands-on surgical simulation.

The SSH has been used in a wide variety of procedures including laparoscopic surgery with insufflation, coronary stent placement with fluoroscopy, chest tube placement, cricothyroidotomy, central line placement with ultrasound, septal defect repair, bowel resection, ECMO, tracheotomy infusion port placement, appendectomy, carotid endarterectomy, embolectomy, craniotomy, angioplasty, femoral cutdown with closure device and many more.

SynDaver synthetic tissues have been validated over the last decade to simulate the mechanical and physico-chemical properties of live tissue. With this technology, our products have created an entirely new field known as *live tissue replacement*. The SSH is capable of standing in for a human cadaver in medical procedure training but unlike a cadaver, the SSH can last forever.

Customization

A variety of pathologies and injuries are available based on patient images, CAD drawings or simple descriptions. Client may also select gender and ethnicity.



Features

The model pumps heated synthetic blood (pulsed flow away from the heart and drainage toward the heart) and can be used to simulate procedures with ventilation, insufflation and intubation. Anatomical attributes include:

- Skin with fat and fascia planes
- Every bone, muscle, tendon and ligament
- Fully articulating joints
- Functioning respiratory system
- Complete digestive and urinary tracts
- Visceral and reproductive organs
- Circulatory system with:
 - Heart
 - Coronary Arteries
 - Aorta
 - Vena Cava
 - Primary Arterial Vasculature
 - Venous Vasculature

Muscles, bones, organs and vasculature are all removable and replaceable to allow onsite servicing and upgrades.

Included Services

Onsite installation and training, one full year of anatomy and tissue upgrades and a three-year warranty. Annual service contracts covering every aspect of the body are also available.

Imaging Equipment

Compatible with all known imaging techniques including MRI, CT, fluoroscopy, and ultrasound.

Surgical Equipment

System is compatible with all known surgical devices including lasers, RF ablation, plasma knives, sonic blades and cryocatheters as well as bipolar, monopolar and harmonic devices.

System Components

Full body with storage and display container, stainless-steel table, deluxe battery-powered heart pump and all required plumbing. The model may be skinless or covered with either the standard SynDaver synthetic human skin (pure wet chemistry) or our new organosilicate-synthetic human hybrid skin (polymer outer - wet inner).



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