

“Echo Eddie” Advanced Ultrasound & FAST Simulator

Item no.: 9100

Factsheet



*Experts in medical education
since 1950*



ERLER ZIMMER

Erler-Zimmer GmbH & Co. KG · Hauptstr. 27 · D-77886 Lauf
Tel.: (+49) 7841/67191-0 · info@erler-zimmer.de · www.erler-zimmer.de

FAST Ultrasound Simulator

Focused Assessment with Sonography for Trauma.

The Adult FAST Torso phantom, is for ultrasound imaging, with a primary focus on the FAST (Focused Assessment with Sonography in Trauma) protocol. This highly realistic phantom replicates the intricacies of the adult torso, providing practitioners with a tool for refining their diagnostic skills. Specifically tailored to replicate trauma scenarios, it offers practitioners a lifelike environment to master the FAST protocol by identifying its various pathologies.

The phantom is comprised of 3D-printed plastic bones. It also includes organs made from ultrasound-compatible tissue-mimicking material. Pathologies included in this phantom make it a great tool for FAST training.

Anatomy:

3D Printed Plastic Bones:

- Complete Spine
- Complete Ribcage
- Shoulders and Clavicles
- Pelvis Structure
- Partial Femur Bones

Thoracic Organs:

- Trachea
- Heart with Four Chambers
- Lungs

Abdominal Organs:

- Diaphragm
- Liver
- Gallbladder
- Stomach

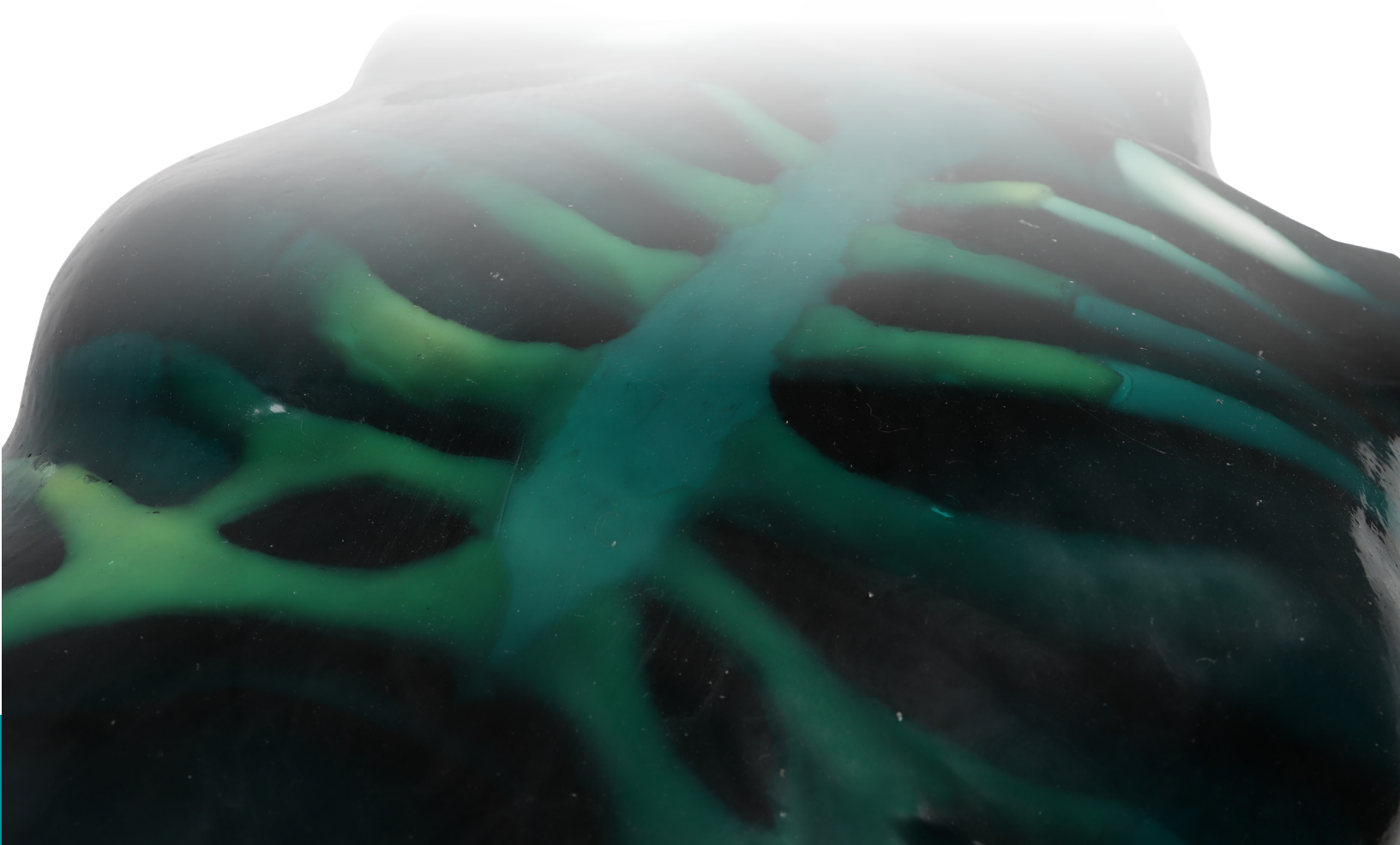
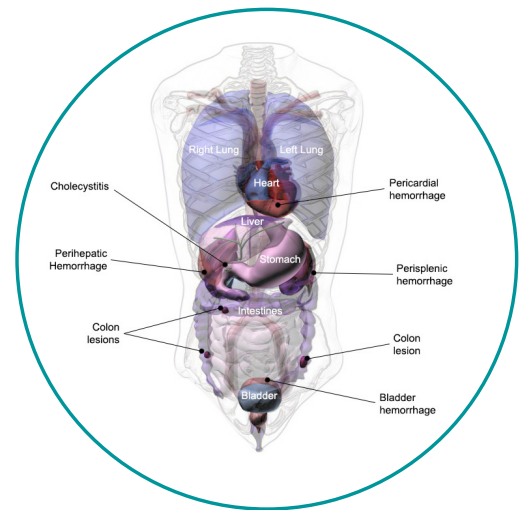
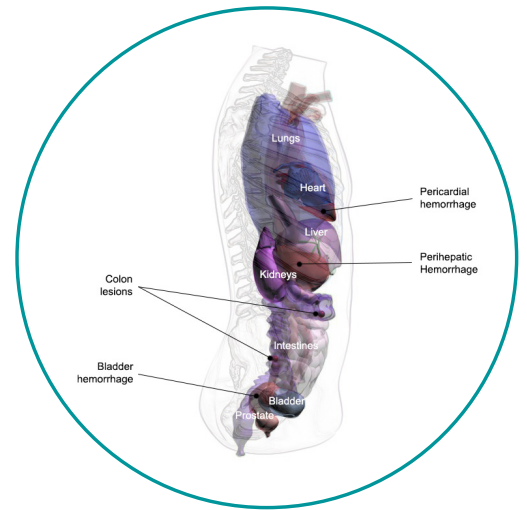
- Kidneys
- Spleen
- Pancreas
- Large and Small Intestines
- Bladder
- Prostate

Pathologies:

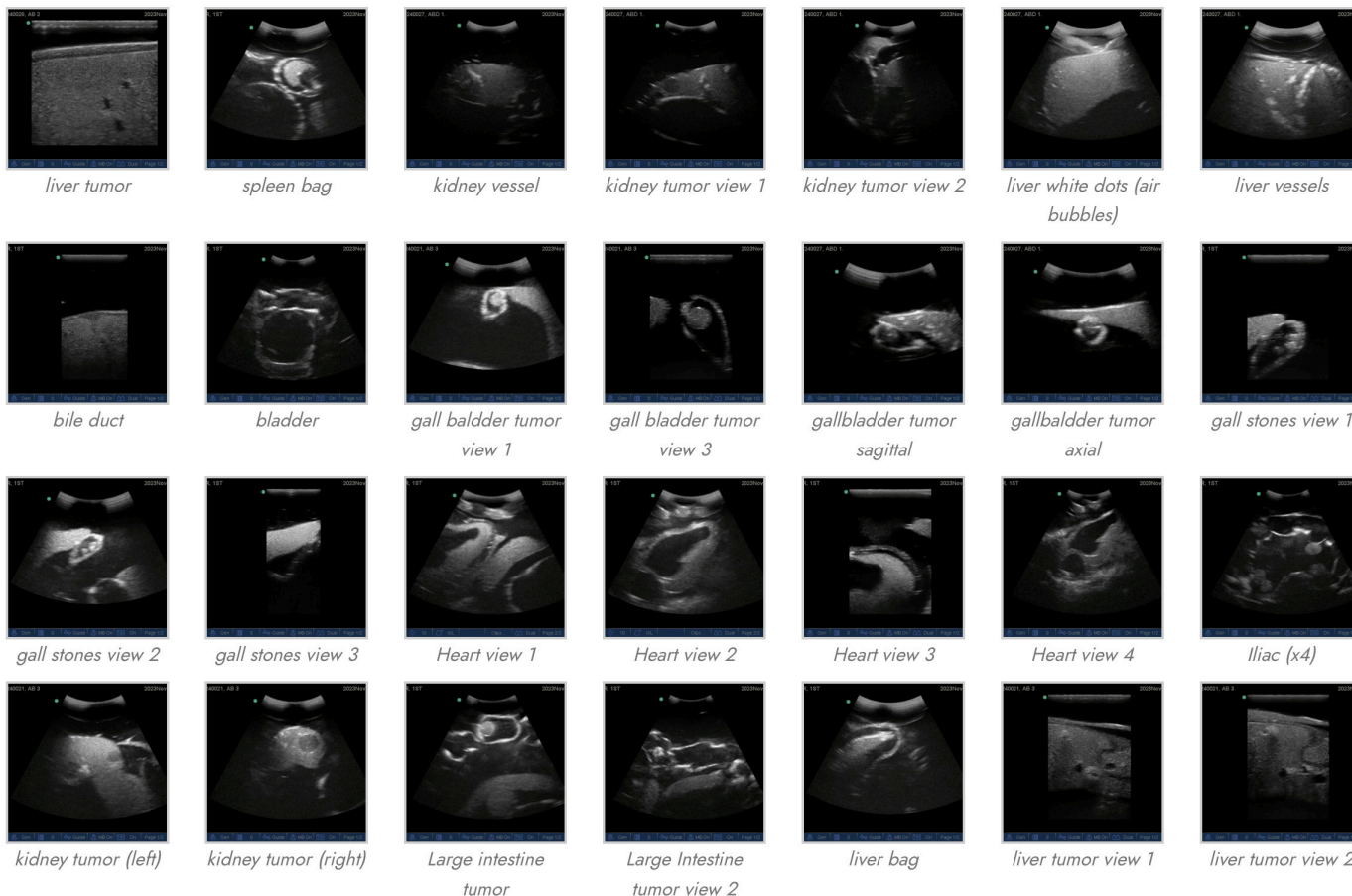
Internal Hemorrhages:

- Perihepatic
- Perisplenic
- Pericardial
- Around the Bladder

- Cholecystitis
- Aortic Aneurysm
- Lesions in the Colon



Ultrasound Scans:



Technical Properties:

Type of Tissue	Sound Velocity [m/s]	Density [g/cm ³]	Attenuation Measured at 2.25 MHz [dB/cm]	Hardness [Shore 00]	T2 [ms]	Speckles
Organs with Speckles (liver, kidneys, etc.)	1400 ± 10	0.99	1.0 ± 0.2	20	70	VARIABLE
Organs without Speckles (stomach, intestines, etc.)	1400 ± 10	0.99	1.0 ± 0.2	20	70	NO
Body Tissue	1400 ± 10	1.00	1.2 ± 0.2	30	65	NO/LOW
Tumor Feature	1400 ± 10	1.01	1.2 ± 0.2	30	65	YES

Included In Order:

- Adult Torso for FAST Training
- User Manual/Assembly Instructions
- 2-Year Warranty & Unlimited Customer Service

Materials Used:

- Soft tissue and organs: Composition of urethane base soft resin
- Synthetic bones: 3D printed plastic

Size & Weight:

Phantom:

- Size: 80 x 60 x 40 cm, Weight: 40 KG.