

Ultrasound Examination Training Model "ABDFAN"

Japanese Patent No. 3650096

Product No. **US-1B**

Unique high-fidelity ultrasound phantom facilitates effective training in abdominal ultrasound scanning with your own clinical devices. Simulated lesions embedded as targets provide wider educational opportunities.



Production supervision:

Junji Machi, MD, PhD
University of Hawaii at Manoa
and Kuakini Medical Center



Inanimate tool for training of a novice as well as demonstration by an expert.

Any ultrasound device with a convex probe can be used for the phantom.

Detailed hepatobiliary, pancreatic and other abdominal anatomy meeting requirement for excellent training; eight Couinaud's hepatic segments can be localized.

Various simulated lesions including biliary stones and cysts, solid tumors (hypoechoic, hyperechoic and target-appearance) in the liver, pancreas, spleen and kidneys.

Near real-size organs, structures and abnormal lesions.
Durable long-life phantom materials.

Tutorial Manual (DVD)



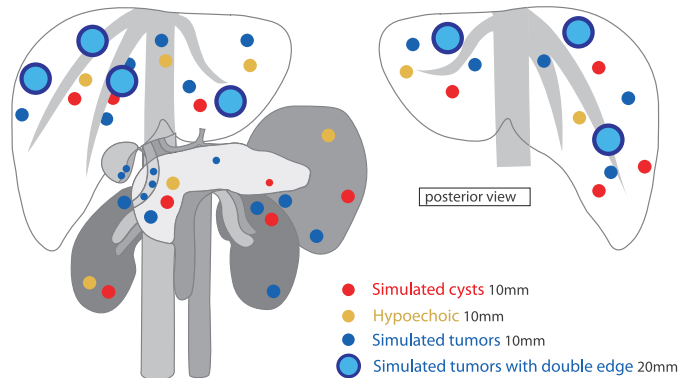
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Four variations of simulated lesions enrich the training application.

Pathology includes:

hepatic lesions (cystic and solid), gallbladder and bile duct stones, pancreatic tumors (one invading the portal vein), splenic lesions, both kidney lesions, and left adrenal tumor.

Simulated lesions in liver, pancreas, kidney, spleen, gallbladder



The phantom includes:

the liver
(segmental anatomy, portal and hepatic venous systems, ligamentum teres and ligamentum venosum),
biliary tract
(gallbladder, cystic duct, intrahepatic and extrahepatic bile ducts),
pancreas
(pancreatic duct),

spleen,
kidneys,
detailed vascular structures
(aorta, vena cava, celiac artery and its branches, portal vein and its branches, superior mesenteric vessels, renal vessels, etc)

Repetitive training with actual clinical devices.

Ready-to-use simplicity provides more training opportunities to larger number of trainees.
 Stable and long-life phantom material brings reproducible outcomes
 The phantom can be scanned from any parts of its body surface.

Midsagittal plane



Right costal interspace section



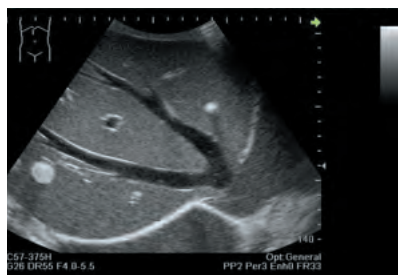
Left costal interspace section



Axial section



Right costal section



Approachable from all surface



Training items

- Instrumentation and probe manipulation
- Basics of abdominal sonography;
- Cross sections and sonographic anatomy
- Sonographic demonstration of each individual organ
- Localization of hepatic Couinaud's segments
- Lesion detection training



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Fully three dimensional approach

Detailed anatomy with approximate-to-human echogenicities.

Organs are based on cadaver mold and then modeled to realize right anatomy under ultrasound scanning.

The phantom posture is designed to make the depth of the organs from the probe close to clinical setting.

Echo-Zou, a disassemblable anatomical model for the relevant organs facilitates three dimensional understanding of sectional images.



hyperechoic, anechoic targets



hypoechoic targets



gallstone



pancreas



double, hypoechoic targets



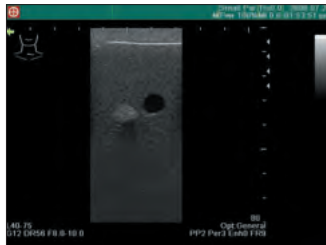
double, hyperechoic targets



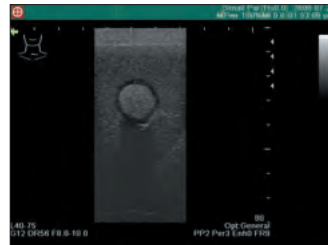
pancreas



pancreas



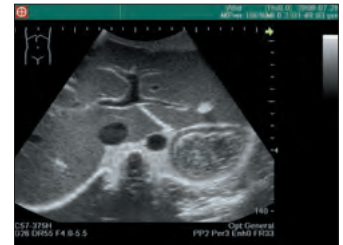
hyperechoic, anechoic targets



double targets



liver, hepatic vein



liver, portal vein

Ultrasound Examination Training Model "ECHOZY"

Product No. **US-1**

Upper abdomen organs with approximate-to-human echogenicities. State-of-art anatomy fulfils medical sonographers' high requirements. Unique long-life phantom materials.



Production supervision:

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Internal Organ Anatomical Model "ECHO-ZOU"

Product No. **M98**

Separates into 20 parts:

1. Hepatic segment S1: caudate lobe
2. Hepatic segment S2: upper left lateral segment
3. Hepatic segment S3: lower left lateral segment
4. Hepatic segment S4: left medial segment
5. Hepatic segment S5: lower right anterior segment
6. Hepatic segment S6: lower right posterior segment
7. Hepatic segment S7: upper right posterior segment
8. Hepatic segment S8: upper right anterior segment
9. Portal vein, Bile duct and Hepatic vein
10. Gallbladder
11. Pancreas
12. Spleen
13. Right kidney
14. Left kidney
15. Abdominal aorta
16. Inferior vena cava
17. Hepatic veins
18. Spinal column
19. Stomach
20. Large intestine, Small intestine



Ultrasound Examination Training Model

* Please quote the eight digit product number when you place orders.

Set includes:

US-1B ABDFAN

41900-030

- 1 Ultrasound phantom "ABDFAN"
 - 1 Set of positioning pillows
 - 1 Tutorial Manual (DVD)
 - 1 Carrying case
- phantom size: approx.18 x 25 x 28H cm, 12 kg
packing size: approx. 30 x 70 x 50H cm, 17 kg

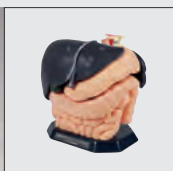


US-1B ABDFAN

Full Set

41900-100

- 1 Ultrasound phantom "ABDFAN"
 - 1 Anatomical model "ECHO-ZOU"
 - 1 Set of positioning pillows
 - 1 Tutorial Manual (DVD)
 - 1 Carrying case
- phantom size: approx.18 x 25 x 28H cm, 12 kg
ECHO-ZOU size: approx. 16 x 23 x 16H cm, 2.9 kg
packing size: approx. 30 x 70 x 50H cm, 20 kg



US-1 ECHOZY

41900-010

- 1 Ultrasound phantom "ECHOZY"
 - 1 Set of positioning pillows
 - 1 Carrying case
- phantom size: approx.18 x 25 x 28H cm, 12 kg
packing size: approx. 30 x 70 x 50H cm, 17 kg

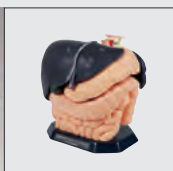


US-1 ECHOZY

Full Set

41900-000

- 1 Ultrasound phantom "ECHOZY"
 - 1 Anatomical model "ECHO-ZOU"
 - 1 Set of positioning pillows
 - 1 Carrying case
- phantom size: approx.18 x 25 x 28H cm, 12 kg
ECHO-ZOU size: approx.16 x 23 x 16H cm, 2.9 kg
packing size: approx. 30 x 70 x 50H cm, 20 kg



Materials:

ultrasound phantom: urethane elastomer