US-1B

Ultrasound Examination Training Phantom "ABDFAN"

Japanese Patent No. 3650096

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

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

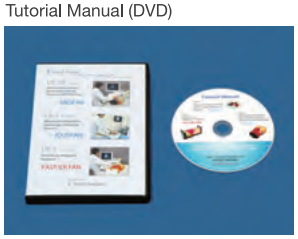
Detailed hepatobiliary, pancreatic and other abdominal anatomy meeting requirements for excellent training; eight Couinaud's hepatic segments can be localized.

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.

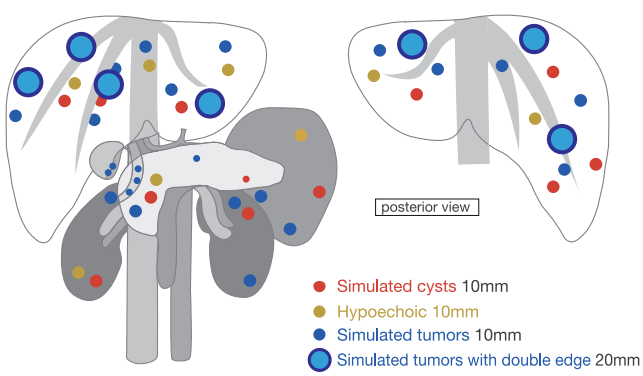
Tutorial Manual (DVD)



Four variations of simulated lesions enrich the training application.

Pathologies:
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



Anatomies:

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)

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Fully three dimensional approach

Midsagittal Plane

Right Costal Interspace Section

Left Costal Interspace Section

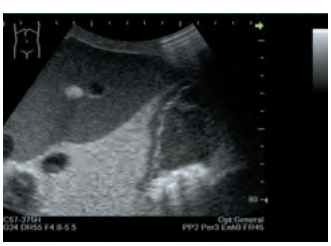
Axial Section

Right Costal Section

Approachable from All Surface

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

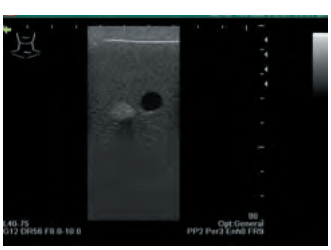
Pancreas

Double, Hypoechoic Targets

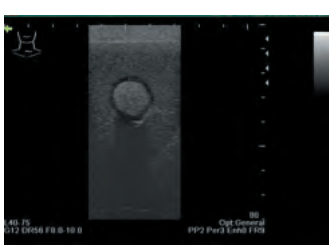
Double, Hyperechoic Targets

Pancreas

Pancreas



Hyperechoic, Anechoic Targets



Double Targets

Liver, Hepatic Vein

Liver, Portal Vein