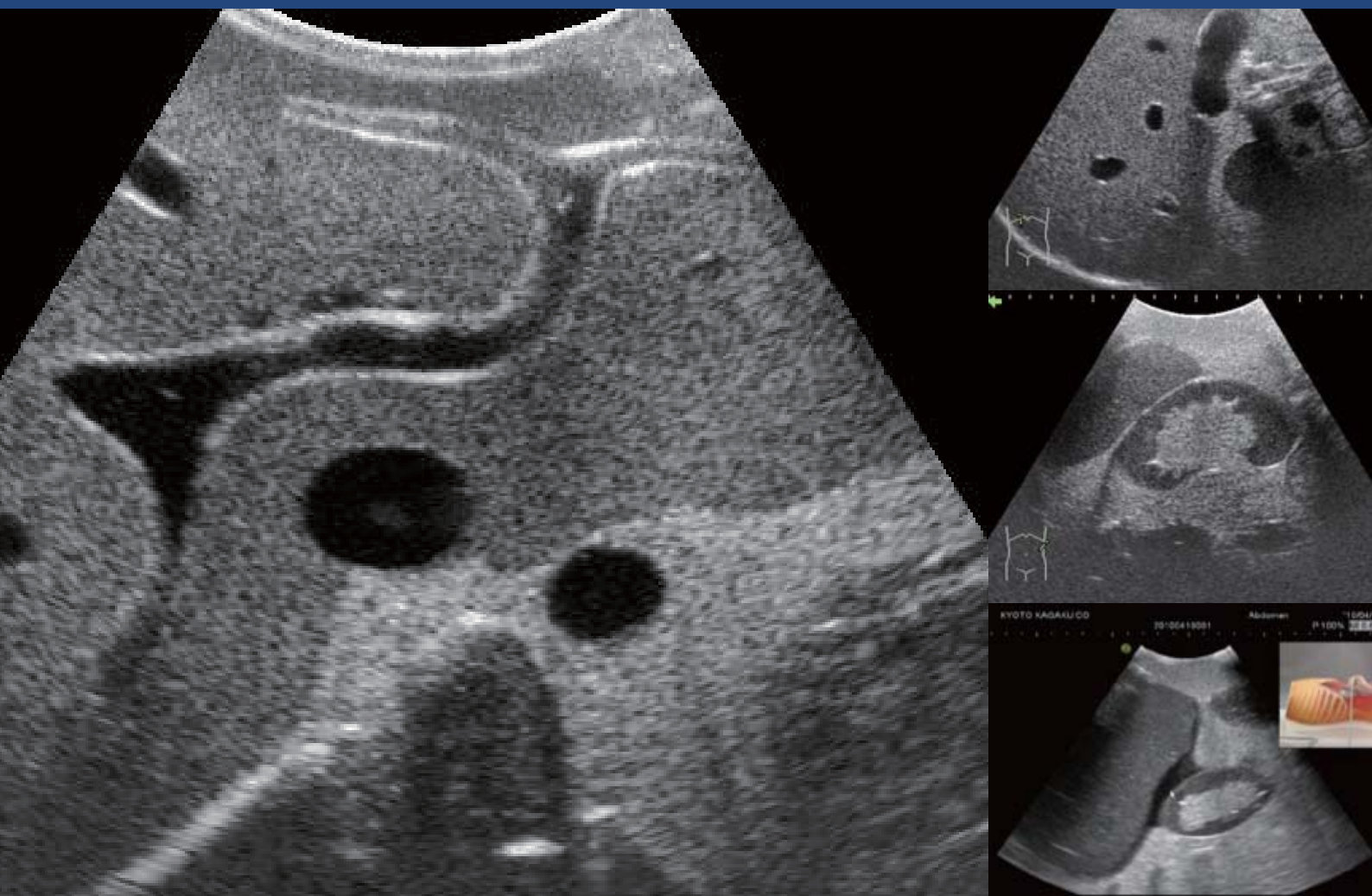


# Phantoms for Hands-on Ultrasound Training in Medicine



Basics about Ultrasounds/Handling of Equipment/Basics of Visualization/Anatomy and Visualization of Sections/ Interventional Sonography/Ob/Gyn/Midwifery/Pediatric/ Application to a Variety of Medical Specialties/MSK/Emergency

## Effective skills training to maximize the uniqueness of ultrasound

Today, application of ultrasound in medicine is expanded in various clinical setting for its merits. Ultrasound imaging is a safer technology with lower cost than others to visualize inside of our body dynamically in real time.



## Acquiring and assessment skills

The quality of outcome depends much on skills of operators. For beginners, ultrasound imaging gives a series of challenges: interpretation of 2D ultrasound images into 3D anatomy, hand-eye coordination, and completing scanning in a limited time frame. Kyoto's phantoms improve performance.



## Practice with clinical equipment

With Kyoto Kagaku phantoms, trainees have more opportunities of repetitive hands-on training with ultrasound devices. The phantoms provide benchmark images.

## Durable, reliable, and expanding phantom applications

When incorporating a new training tool, its long-time value may be one of the aspect to consider. With their stability and long-life, Kyoto Kagaku's examination and QA phantoms have been serving facilities around the world over years. Kyoto Kagaku's, phantoms keep moving toward future. New range of phantoms being added for ultrasound education.

### Abdominal Ultrasound



US-1B

**"ABDFAN"**  
Ultrasound Examination  
Training Phantom with Pathologies

US-1

**"ECHOZY"**  
Ultrasound Examination  
Training Phantom no Pathologies



US-5

**"FAST/ER FAN"**  
FAST/Acute Abdomen Phantom



# Private Body Parts



US-6

**"BREAST FAN"**  
Breast Ultrasound Examination  
Phantom

US-10

**Female Pelvic** Ultrasound  
Phantom

US-11

**Scrotal** Ultrasound Phantom

US-16

Intravesical **Urine Volume**  
Measurement Training Simulator



# Pregnancy and Pediatrics

US-7a

**Fetus** Ultrasound  
Examination Phantom  
"SPACE FAN-ST"



US-14a/US-14b

Ultrasound **Neonatal Head**  
Phantom



US-8

**Pediatric FAST/Acute**  
Abdomen Phantom

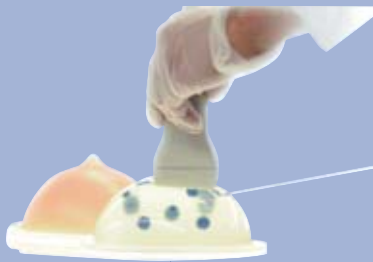


US-13

**Infant Hip** Sonography  
Training Phantom



# Invasive Procedures



US-9

Ultrasound Guided  
**Breast Biopsy** Phantom

Also for ultrasound-guided:

- CVC**
- PICC**
- Lumbar Puncture**
- Thoracentesis**
- Pericardiocentesis**

# Quality Assurance



US-2

Ultrasound **Quality Assurance** Phantom  
(Multi Purpose Phantom N-365)



US-4

**Breast Ultrasound QA** Phantom

# Effective training workshops with various combinations of phantoms

## LinUS: Interdisciplinary Ultrasound Symposium

28-30 April 2017, LernKlinik, Leipzig Germany

Incorporate ultrasound phantoms to teach a variety of subjects in different stages of professional training

The symposium featured a variety of peer-assisted training courses for undergraduate trainees. Each course combines basic ultrasonography techniques with clinical skills training and preclinical anatomical knowledge repetition.

### Courses:

- Abdominal ultrasonography in a clinical context
- Focused trans-thoracic echocardiography
- Ultrasound of the acute pediatric abdomen
- Ultrasound in pregnancy
- Ultrasound-guided pleural puncture
- Ultrasound-guided central venous catheterization
- Sonography of the infant hip



## Neonatal Ultrasound Course

by AIM Group International, Italy

Annual intensive course of neonatal ultrasound for international trainees is held in Italy. From the range of pediatric phantoms the new neonatal head and the pediatric torso are used in the 2018 course.

NEW



## Abdominal Ultrasound Examination

by Osaka City University, Skills Simulation Center

Skills simulation center, Osaka City University, runs basic abdominal ultrasound courses regularly. They use two phantoms in combination to design the courses that include the scenario based session with "FAST/ER FAN".

Download the details on web site



[www.kyotokagaku.com](http://www.kyotokagaku.com)



[rw-kyoto@kyotokagaku.co.jp](mailto:rw-kyoto@kyotokagaku.co.jp)

Kyoto Kagaku

