

HydroAid[®] USG

ULTRASOUND HYDROGEL PAD

Sterile hydrogel standoff pad
Sterile Ultraschall Vorlaufstrecke
滅菌済みハイドロジェルパッド



In the process of ultrasound diagnoses, HydroAid®USG can be applied for areas in which you have difficulty seeing, shallow or sensitive areas, and extremely uneven areas for liquid gel. You can also examine open wounds with HydroAid®USG, where it is even partially impossible to apply liquid gel.

HydroAid®USG Usage Examples

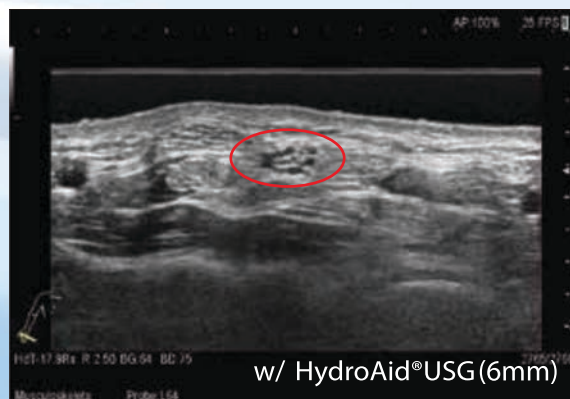
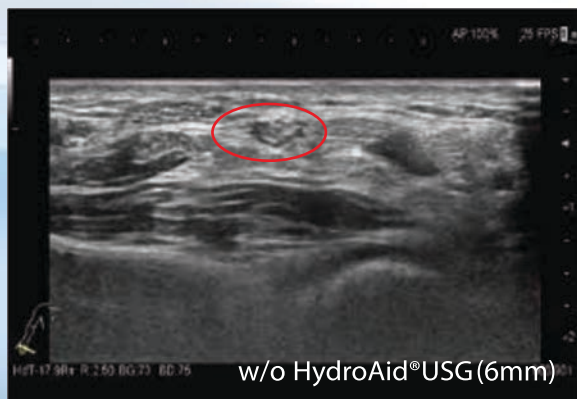
Pictures provided by Social Medical Corporation TENJINKAI Koga Hospital 21 in Japan

1. Examination of Thyroid Gland Mass lesion (Long axis)



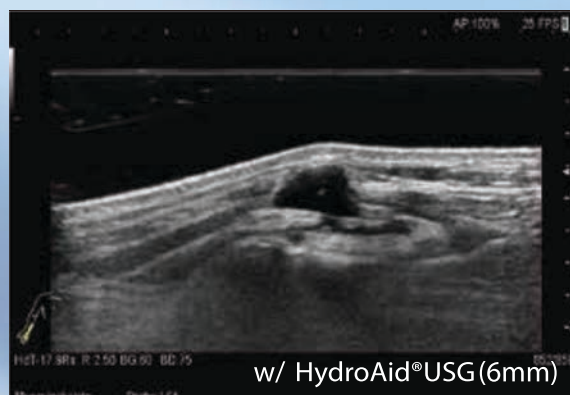
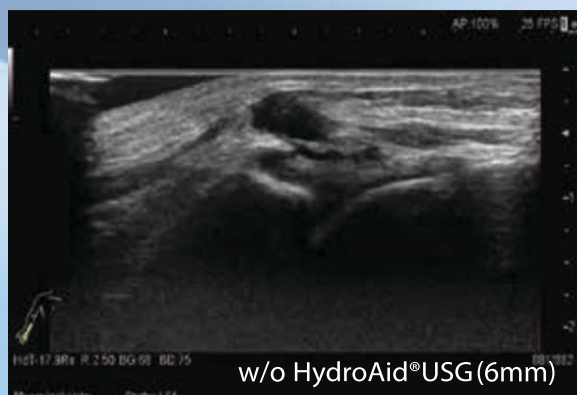
Due to the increased imaging quality, the borders between subcutaneous tissues and the lesion can be clearly examined.

2. Median Nerve in the wrist (Short axis)



It became fairly easy to subcutaneously examine as shallow as 1.0 cm, and images of nerve fiber bundles can be distinctly created.

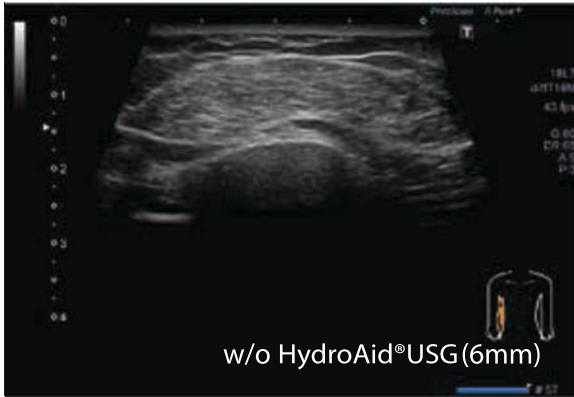
3. Ganglion (Short axis)



Images at the borders with tissues are extremely distinct, and the number of artifacts generated inside a tumor mass should be reduced because HydroAid®USG helps you with a clear picture.

4. Lipoma of the right upper limb (Long axis)

4a.

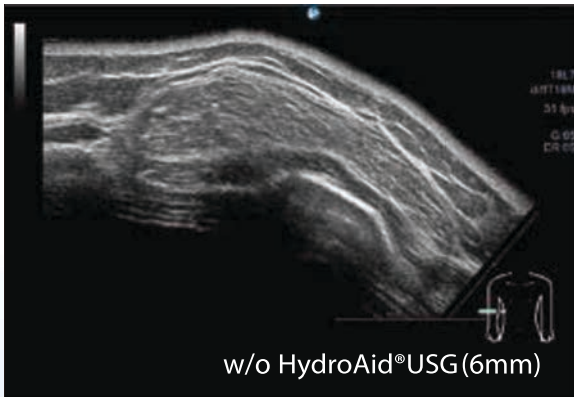


4b.



By maintaining a constant distance (unlike liquid gel), you can distinctly create stable images of an inside cutaneous layer, fat layer, and lipoma.

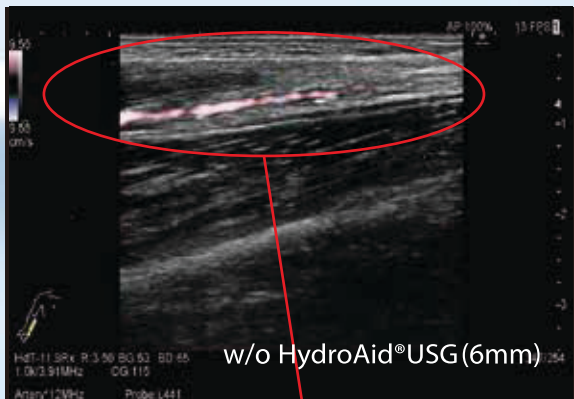
4c.



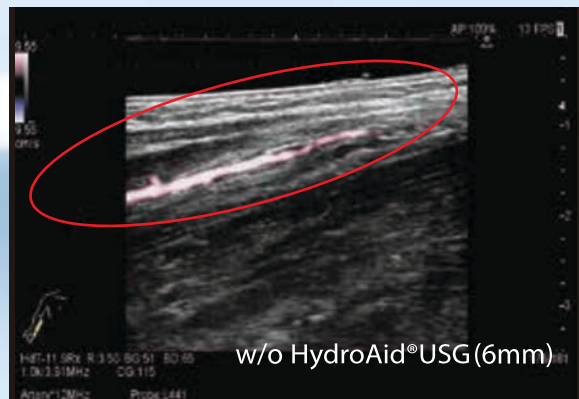
You can make effective use of a function called "panoramic view". Due to easy and smooth probe operations, scanning can be executed in a stress-free environment. Consequently, you can benefit from a wider and clearer range of view.

5. Radial Artery with the presence of Arterial Sclerosis (Long axis)

5a.



5b.

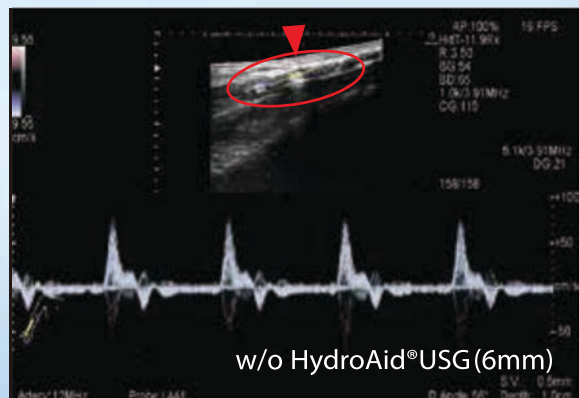


By ensuring the proper vision and its angle, you can examine clear blood flow.

5c. Pulse Doppler



5d. Pulse Doppler



It is much easier to examine blood circulation, because HydroAid®USG facilitates to adjust the angles of the blood vessels.

Features of HydroAid®USG

Hydrated Gel Pad with the Cross-Linked Structure of Polymer Conjugate

- ◆ This is a hydrated gel pad with the cross-linked structure of three high molecules (polyvinylpyrrolidone, polyethyleneglycol and agar), and it consists about 90% of water in weight. It allows a similar level of acoustic impedance to the human tissues!

Acoustic impedance refers to a value of easy transmittance for pulsed energy.

Artifacts do not easily happen

- ◆ You can obtain a sharp and precise image with very few artifacts by placing HydroAid®USG between a probe (of a diagnostic imaging unit) and the measuring object.

One of the reasons of artifacts is considered airspace between a probe and the human tissues, causing ultrasonic diffused reflection at the boundary faces. HydroAid®USG decreases this type of diffused reflection.

High Elasticity & Great Flexibility

- ◆ You can apply HydroAid®USG even to bumpy surfaces as it is extremely flexible and elastic, and also make a close touch anywhere in the body. Measurable areas should widely cover from scrotum to eye orbit, in which it is considered technically or physically too difficult to make solid contact with probes.
- ◆ It is also possible to cut HydroAid®USG with scissors or a scalpel to conform to a right shape of applied area considered technically or physically too difficult to make solid contact with probes.



Ensuring a uniform (equal) distance

- ◆ Even in a case of measuring directly beneath the probe tip, you can ensure an equal distance by applying HydroAid®USG as a spacer (multi-layered application possible). In the result, you can create a clear image of thyroid, liver, and inside joints, as well as superficial lesions.

Sterilization Packaging

- ◆ HydroAid®USG is plasma sterilized. As it does not remain on the human body after a measurement (unlike liquid gel) and transducers do not directly touch the skin, you can conduct a clean and hygienic examination. Also, you can reduce risk for infections.

Storage

- ◆ Keep away from heat, moisture and direct sunlight. Keep in storage at room temperature between 4 - 25 degrees Celsius. Do not freeze.

Biological Safety Assessment

Item	HydroAid®USG
Latex-Free	X
Non-Allergic	X
Non-Inflammatory & Non-Irritating	X
Non-Toxic	X

Available sizes

	Size	Quantity per Box
HydroAid®USG	6 x 10cm x 3mm	10 pcs
HydroAid®USG	Ø5cm x 6mm	5 pcs
HydroAid®USG	Ø8cm x 6mm	5 pcs
HydroAid®USG	Ø12cm x 6mm	5 pcs
HydroAid®USG	Ø12cm x 10mm	3 pcs