

Ultrasound Image Uniformity Phantom

Essential Component of Routine QC Programs

- Cost-effective solution to fulfill Routine QC Program requirements
- Easy, conformal coupling of all probe shapes (provided by a flat surface on the top and a curved surface on the bottom)
- Simple, compact design for easy transport and storage
- Durable materials for extended phantom life



Ensure Ultrasound Quality Through Routine QC

A continuous QC program identifies problems early to assure that equipment is functioning properly. Research indicates the transducer is the most frequent failure point in ultrasound systems, often damaged by stress, drops, and kinked cables.¹ For this reason, accreditation programs require an annual image uniformity and artifact survey, and recommend semiannual testing².

The Ultrasound Image Uniformity Phantom, aids appropriately trained personnel in identifying the presence of lateral and/or axial streaks, i.e. artifacts, on any ultrasound transducer. Presence of artifacts is an indication of transducer damage and triggers corrective action.

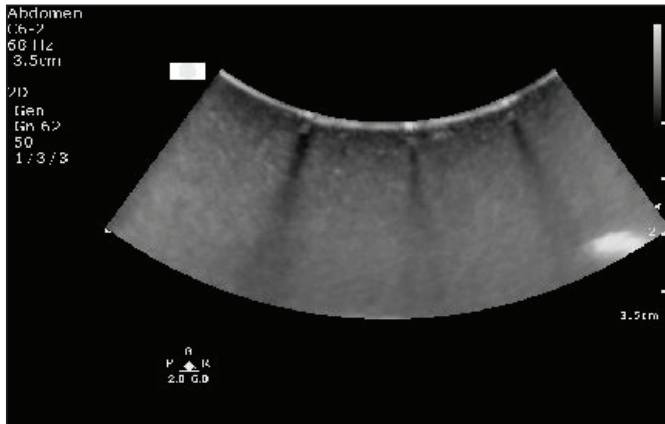
Tissue Equivalent Technology

The phantom consists of a uniform block of Z-Skin™ elastomer with two flexible scan surfaces ensuring good coupling with the scan surface no matter the probe shape. For optimal results, the flat top surface enables testing linear probes, while the bottom concave surface enables testing curved probes.

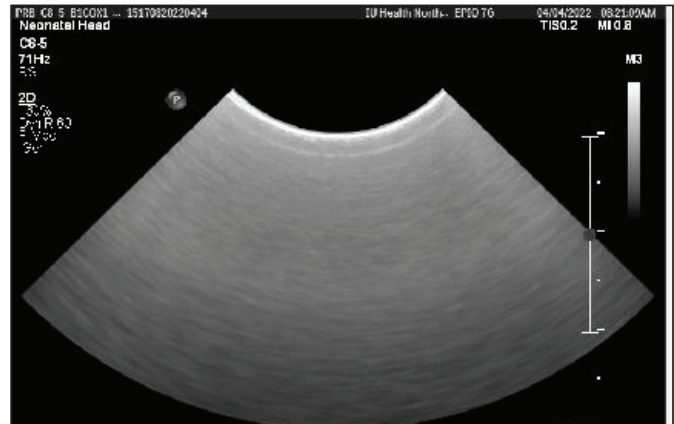
¹ Hangiandreou NJ, Stekel SF, Tradup DJ, Gorny KR, King DM. Four-year experience with a clinical ultrasound quality control program. *Ultrasound Med Biol.* 2011;37(8):1350-7.

² American College of Radiology. (2013, October 28). *Ultrasound Accreditation Program Requirements.* Retrieved from <http://www.acr.org/~media/ACR/Documents/Accreditation/US/Requirements.pdf>

Phantom in Use



Ultrasound image when dead elements are present



Ultrasound image showing expected element coverage

Specifications

Dimensions (cm)	Ø 11.2 cm x 7.5 cm
Phantom Weight	2.2 lbs. (1 kg)
Materials	Z-Skin™ elastomer
Speed of Sound	1450 +/- 15 m/s
Attenuation	0.8 +/- 0.1 dB/cm/MHz
Backscatter coefficient	0.001 1/str*cm at 3 Mhz

Items Included

QTY	Component Description
1	Ultrasound Image Uniformity Phantom with storage case
1	User Guide