Ultrasound Biopsy Phantom

Model 429

User’s Guide
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Product Overview

The Gammex 429 Ultrasound Biopsy Phantom is a tool for the radiologist or resident to use to practice ultrasound-guided biopsy procedures before performing them on patients.

The phantom provides similar resistance to the needle as soft tissue. Because the phantom also has ultrasonic characteristics similar to soft tissue it can be scanned with normal scanner control settings. The phantom contains fluid-filled lesions for fine needle aspirations and solid masses for core biopsies.

Product Description

The Ultrasound Biopsy Phantom is filled with water-based tissue mimicking material that contains randomly spaced simulated lesions. For fine needle aspiration, there are 3 water-filled lesions that range from 10-15 mm in size. For core biopsies, there are 4 hyperechoic and 4 hypoechoic solid masses which vary in size from 7-10 mm. The hyperechoic lesions contain a green fill and the hypoechoic lesions contain a semitranslucent fill. This provides the user with a visual check to differentiate between the mass tissue and the surrounding tissue and determine the success of the biopsy.

▲ Caution: Store at 40°- 100° F (5°- 38° C).
Side View

Target Layout

H$_2$O – 10-15mm Water-filled
7H – 7mm High density
7L – 7mm Low density
10H – 10mm High density
10L – 10mm Low density
Using the Phantom

1. Place the phantom on a clean, level surface.
2. Apply coupling gel and scan the phantom using clinical scanner control settings.
3. Locate a lesion and perform the biopsy procedure as you would on a patient.
4. Aspirate or core the lesion and remove its contents.
5. Clean gel off of phantom after use.
6. Discard the phantom when all lesions have been biopsied.

**Note:** The phantom is intended to be used in a single practice session.
References


Addendum

• Due to the nature (disposable) and use (training) of this phantom, GAMMEX’s standard warranty is limited to 60 days from the date of shipment.

• Do not subject the phantom to temperatures above 100°F or below 40°F.
Product Warranty

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The Products are covered by the warranty set forth in the following paragraphs. The warranty is extended only to the original purchaser of the Products directly from the Seller (or an authorized dealer of Seller) as new merchandise. For a period of twelve (12) months from the date of original delivery to Buyer, the Products manufactured by the Seller are warranted to be free from functional defects in materials and workmanship, provided they are operated under conditions of normal use, and that repairs and replacements are made in accordance herewith. Products manufactured by third parties are warranted only under the warranty provided by such third party manufacturer for such products. Seller does not warrant bulbs. The foregoing warranties shall not apply to Seller’s Products or Products manufactured by third parties that have been disassembled, altered or repaired (other than proper replacement of bulbs) other than by Seller or if the Product has been subject to abuse, misuse, negligence or accident.

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Your warranty may be registered at http://www.gammex.com/warranty.asp
Sales and Service

GAMMEX is committed to satisfying our customer’s needs. If you have any questions, comments, or suggestions regarding our products and service, please call or fax us.

Sales Department hours are Monday through Friday, 7:30 am to 5:00 pm Central Time.

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