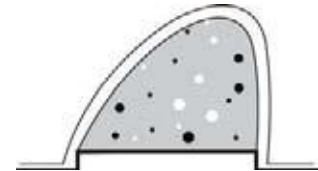


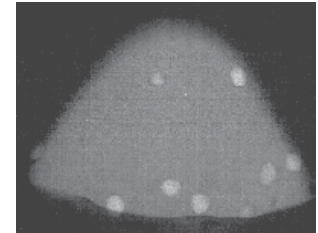
# Triple-Modality Biopsy Training Phantom

Nuclear Associates Model 18-229

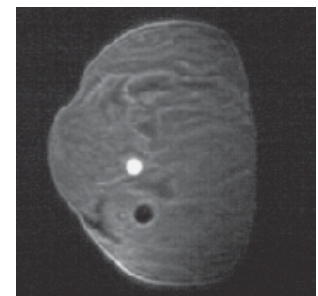
- Tissue-equivalent under x-ray, ultrasound, and MRI
- Compressible
- Ideal for physician and technologist training, and quality control
- Physical density and attenuation characteristics accurately simulate that of an average 50% glandular breast (BR-12 equivalent)
- Flesh-like consistency allows for the palpation of embedded lesions while accurately simulating needle resistance found in human tissue
- Anthropomorphic shape is suitable for compression mammography, ultrasound or MRI examinations
- The American College of Radiology recommends this type of product in their quality assurance program



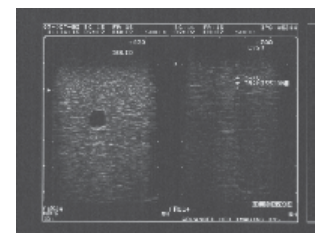
Targets: dense and cystic masses



X-ray mammography



MRI



Ultrasound

## Introduction

Suspect lesions discovered in x-ray mammography must often be evaluated under ultrasound to aid diagnosis and in some cases, use of MRI may be indicated. This phantom is an ideal training device because it can be imaged under three modalities and was designed specifically for needle biopsy.

## Applications

The Triple-Modality Biopsy Training Phantom is a disposable phantom that was designed to closely mimic the properties of the human breast, making it an extremely useful accessory for training technologists and physicians, as well as for verifying the proper operation of a mammographic biopsy system.

## Training

With the increasing use of breast biopsy procedures, it is essential that radiology healthcare providers maintain and increase their needle biopsy skills. This training phantom is a must for every mammography facility.

## Quality control

The breast biopsy procedure depends on several variables for accurate needle placement. Thus, for patient safety, the system must be properly maintained and evaluated. A comprehensive mammography quality control program must provide assurances that all aspects of the mammography equipment are operating at optimum levels. The Triple-Modality Biopsy Training Phantom is the ideal tool for such a program. Additionally, the phantom can and should be used whenever a new system is installed or repaired, to ensure accurate needle placement.

## Research and development

This cost-effective phantom is also an excellent research and development/demonstration tool for manufacturers of mammography equipment.

## Specifications

**Material** Zerdine®<sup>†</sup>

### Targets

**Dense masses** 2 and 8 mm Ø for core biopsy

**Cystic masses** 3 to 10 mm Ø for needle aspiration

**Volume** 500 cc

**Dimensions** 3.94 (w) x 4.72 (d) x 3.54 in (10 x 12 x 9 cm)

**Weight** 1 lb (0.44 kg)

### Available model(s)

**18-229** Triple-Modality Biopsy Training Phantom

<sup>†</sup> US Patent No. 5196343.

For more information, receive our full product catalog, or order online, contact **Radiation Management Services** business of **Fluke Biomedical**: 440.248.9300 or [www.flukebiomedical.com/rms](http://www.flukebiomedical.com/rms).

*Specifications are subject to change without notice.*

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