Stereotactic Biopsy Phantoms

With the increasing use of stereotactic breast biopsy procedures, it is essential that radiology healthcare providers maintain and increase their needle biopsy skills.

A comprehensive mammography quality control program must provide assurances that all aspects of the mammography equipment are operating at optimum levels. The automated stereotactic breast biopsy procedure depends on several variables for accurate needle placement. Thus, for patient safety, this system must be properly maintained and evaluated.

These phantoms were designed to assist in the training of technologists and physicians in the use of a stereotactic system, and for verifying the proper operation of mammographic stereotactic biopsy systems.

Both phantoms closely mimic properties of the human breast. They are ideal teaching tools and practice mediums for mammographic needle biopsy procedures. They are also excellent quality assurance testing devices for stereotactic systems, and should be used whenever a new system is installed or repaired, to insure accurate needle placement.

The phantoms should be stored in a cool dry place and discarded after all the tumors have been aspirated.

Features:

- Proprietary gel simulates physical density and mass attenuation of BR-12.
- Physical consistency similar to human tissue enables palpation of embedded structures and accurately simulates needle resistance.
- Anthropomorphic shape allows for accurate simulation of breast compression.
- Gel will not dry out after initial needle punctures, thus extending storage life.

As part of their Stereotactic Breast Biopsy Accreditation Program, the ACR requires that a "Localization simulation (gelatin phantom) test be performed."

Model 18-299-1313

Mammo-Cube Stereotactic Core Biopsy Phantom

Specifications

Shape:	Designed to accommodate standard compression paddle windows
Embedded details:	Six dense masses, 5 to 12 mm dia. for core biopsy
Weight:	5 oz
Dimensions:	6.5 x 7 x 4.5 cm

Model 18-228

Stereotactic Needle Biopsy Tissue-Equivalent Phantom

Specifications

Shape:	Anthropomorphic shape allows for accurate simulation of breast compression
Embedded details:	Six solid masses, 5 to 12 mm dia. for core biopsy, six cystic masses, 5 to 12 mm dia. for needle aspiration, two clusters of micro calcifications, 0.3 to 0.35 mm, for stereotactic procedures
Weight:	2 lbs (0.9 kg)
Dimensions:	10 x 5 cm; 1500 cc

865 Easthagan Drive, Nashville, Tennessee 37217 USA
phone 615 391 3076 800 635 2662 fax 615 885 0285 www.cnmcco.com