Mammography Research Set

DESIGNED TO ENCOMPASS THE FULL RANGE OF SIZE, GLANDULARITY AND THICKNESS ENCOUNTERED IN CLINICAL MAMMOGRAPHY

The CIRS Mammography Research Set includes tissue equivalent phantoms 4, 5 and 6 cm thick. Each phantom contains identical embedded details (see Figure 1). The glandular content of each phantom is 50%, 30%, and 20% respectively. Also included are phototimer compensation plates enabling a range of thickness from 0.5 cm to 7 cm with a glandular content of 30%, 50% and 70%.

One compensation plate contains embedded details for evaluation of image quality. A hand held microscope and heavy duty foam lined carry case are included.

CIRS resin material mimics the photon attenuation coefficients of a range of breast tissues. Average elemental composition of the human breast being mimicked is based in the individual elemental composition of adipose and glandular tissue reported by Hammerstein.

Attenuation coefficients are calculated by using the "mixture rule" and the Photon Mass Attenuation and Energy Absorption Coefficient Table of J.H. Hubbell.

Features

• Enable evaluation of image quality under varying degrees of thickness and glandularity
• Provides accurate reliable test for radiation dose
• Ensures consistent production of diagnostically useful images

References:

1 Hammerstein R., Miller D., White D., et al; Absorbed Dose in Mammography; Radiology; 130:485-491.
Computerized Imaging Reference Systems, Inc. has been certified by UL DQS Inc. to (ISO) 13485:2003. Certificate Registration No.10000905-MP23.

DIMENSIONS: 50.8 cm x 45.7 cm x 20.3 cm
(20” x 18” x 8”)

PHANTOM WEIGHT: 11 kg (24.15 lb)

MATERIALS: Epoxy Resin

Specifications subject to change without notice.

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