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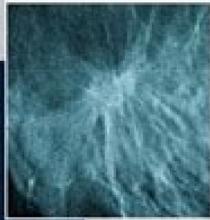
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# Diagnostic Breast Imaging

Mammography, Sonography, Magnetic Resonance Imaging,  
and Interventional Procedures

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3rd edition

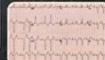


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Palpable lump marker (A-SPOT Light Image, 651) (E) Pain/nonpalpable area of concern marker (Altus Image, 654) (Used with permission from Beeley Medical.) 35. In any CC projection, the nipple should be centered on the image. Parallel grids allow central ray angulation in the direction of the lead strips only. In one direction. After processing, the signal is sent as an image to the liquid crystal display (LCD). The DEL size is determined by individual manufacturers. Eggshell-like and needle-like, sharply outlined, or elongated branching calcifications on mammography are typically benign. (See Fig. The breast loses its supporting structure, which is replaced by fat, producing a smaller breast or a larger, more pendulous breast because of the loss of the epithelial structures and stroma and the gain of fat. Screening mammography utilizes the four-projection series of imaging and is often completed without a presence of the radiologist. Assessed July 2016. Good luck! You are entering what can be a rewarding and meaningful profession. (B) Grids are used to reduce scatter and increase subject contrast. Disadvantages of the PSP or computed mammography (CM) technology includes (A) reduced repeats (B) wide latitude and dynamic range of the system (C) PSP's sensitivity to radiation (D) speed of the imaging system 71. Teaching Atlas of Mammography. The tracer travels to the sentinel node—identifying that node for dissection and eliminating the need for extensive lymph node dissection. breastfeeding 3. Luminance describes the brightness of a light source. After October 1994, the MQSA required all legal providers of mammography services to be accredited by an approved accreditation body and certified by the FDA. Both objective and subjective data are equally important, and the technologist should never disregard anything the patient says, even if it does not align with standard opinions or the patient's symptoms. Major risk factors cannot be changed. The needle is removed leaving at least 5 mm of the wire guide within the lesion. • Mammography is not 100% effective. When comparing the MLO projection to ML, a lateral abnormality will move down from its position on MLO. AT images the axilla and would miss any 6 o'clock 401 lesion. Because of the need to reduce extraneous light (increased visualization of breast tissue), coned collimated images are not taken when imaging with spot compression (Fig. Also, women who have had the chest area radiated because of previous treatment for cancers, such as Hodgkin disease (or non-Hodgkin lymphoma), are at a slightly increased risk for breast cancer, using the pads of the three middle fingers to palpate the entire breast 2. Oral consent is verbal. Any work done with a 0.1mm focal spot size would be for magnification. (D) Generally, glandular tissues predominate in younger women and adipose, or fatty, tissues in older patients. Available at EmittingProducts/MammographyQualityStandardsActandProgram/Guidance/PolicyGuidanceHelpSystem/default.htm#Qua Accessed July 2016. However, chest hair on male patients can make imaging CC difficult. 393 394 Figure 6-24. (D) The term peau d'orange describes breast skin that is thickened and resembles an orange. The radioactive tracer that is introduced into the body is metabolized in the body in a manner similar to the metabolization of sugar. 91. (C) In digital imaging, the term brightness replaces density (optical density). Fortunately, the incidence of breast cancer in this age group is very low, changes in texture or color of the breast 3. Information must be related in a language the patient can understand. Treatment for Hodgkin lymphoma can often require radiation to the chest area, which can result in increased breast cancer risk in later years. 7-38). Why should this image be repeated? Illuminance describes the intensity of light incident on a surface. (C) Although height and weight are needed for some examinations, such data are not considered essential information. Which of the following are methods used in BSE? The tracer accumulates in malignant lesions. I am particularly grateful for the care taken by Becky Hainz-Baxter to ensure that all the permissions were in order. has already signed the authorization for treatment 2. degree of breast compression 2. This avoids leading the patient and inserting your opinions or views. (B) Turbid phosphors have crystals distributed throughout the phosphor level. (C) Focused grids have linear lead strips that are slanted to match the divergence of the x-ray beam. All factors that increase the number of menstrual cycles in a woman's lifetime can increase breast cancer risk. Between the epithelium and the connective tissue is a layer called the basement membrane. The medical history will provide information about the patient's symptoms and any other health problems and risk factors for benign or malignant breast conditions. With digital imaging, most mammography units offer an option for automatic exposure; therefore, assessment of the exposure technique is not needed for routine imaging. It may be visualized unilaterally or bilaterally. Minor factors are linked to cancer-causing factors in the environment or may be related to personal choices, such as breastfeeding. 487 488 Figure 7-31. Listening rather than asking questions will allow the patient time to tell her stories voluntarily. Lossless compression is used in mammography because it is vital that the original data and the decompressed data be identical. However, some studies have suggested that the benefits of tamoxifen outweigh the risks and that the drug can be taken and will be effective for longer periods. The papilloma may produce spontaneous discharge from the nipple or, if located deep within the breast, may appear radiographically as a mass. In the tangential (TAN) projection, any tube angulation will depend on (A) the size of the patient's breast (B) the location of the abnormality (C) the position of the mid-axillary line in relation to the detector (D) whether the abnormality is palpable or nonpalpable 9. The high placement of the detector unnecessarily elevates the shoulder, pulling breast tissue from the compression field. Two Main Criteria in any Breast Examination • Looking for changes • The woman should self-examine for indentations, retracted nipples, dimpling, or prolonged skin conditions, such as eczema. Example of a leading question: "Is the pain in your right breast?" Example of a nonleading question: "Where is the pain?" Also, listening rather than asking questions will allow the patient to tell her stories voluntarily. Paget's disease of the breast is a(n) (A) infiltrating carcinoma generally limited to the breast (B) form of carcinoma associated with changes in the nipple (C) benign breast condition that is relatively common (D) malignant form of breast carcinoma involving lobules 38. In mammography screening, compared with the skin dose, the glandular dose is very low because the dose falls off rapidly as the low photon energy beam penetrates the breast. Brightness can be altered after the exposure. The detector is positioned at the medial aspect of the breast, and compression is applied from the lateral aspect. It is often seen bilaterally but can be unilateral. The theory is that BSE and BSE education do not reduce death rates but will increase unnecessary performance of biopsy and cause anxiety. (B) The DELs (or dexels) are located within the TFT. 3rd ed. 6th ed. The patient's chin would present as a uniform area of low optical density. (Reproduced with permission from Peart O: Mammography and Breast Imaging and EXPRESSLY DISCLAIM ANY WARRANTY, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. The reverse of this is LMO. Each array of metal-oxideseiconductor capacitors (MOS capacitors) represents a pixel. There is sufficient pectoralis muscle, as well as the posterior and anterior portions of the breast, because the pectoralis muscle extends below the posterior nipple line. 6-10.) 78. 1-1). Gynecomastia is the term for (A) a localized abscess (B) increased breast tissue in the male breast (C) decreased breast tissue in the female breast 425 (D) a risk of carcinoma in the male patient 47. They are not truly scars and are often unrelated to prior surgery or trauma. • The patient's breast tissue type (composition) and thickness—denser glandular breast requires more exposure compared with fatty breast. • Mammography screening is generally acknowledged to have a 10% to 15% error rate. 41. (D) Of the choices, the only huge radiolucent breast lesion is a lipoma, which is a common benign tumor composed of fatty tissue. Lobular carcinoma affects 5% to 10% of women with breast cancer. What is the purpose of "probing" questions used when interviewing patients? (C) The "camel's nose" contour refers to the sloping of the anterior breast in the MLO projection, caused by insufficient compression. Radiological Society of North America, Inc. Spatial resolution is measured as line pairs per millimeter (lp/mm). Many have a luminance equalizer and calibration function to enable smooth grayscale display. The glandular dose is (A) received on the skin of the breast (B) the significant background dose recorded by ultrasonography (C) associated with dose to the radiosensitive cells of the breast (D) a record of the dose to the gonads 50. The mammogram. 1. In imaging the breast for the CC projection, what technique is used to minimize skin folds in the lateral aspect of the breast? This distribution increases or decreases with hormonal fluctuations, but generally mirrors the opposite breast (Fig. The technologist cannot change the size of the DEL, which is fixed by the individual manufacturer. (D) Erythema is redness or inflammation of the skin. New York, NY: McGraw-Hill Education; 2018.) 489 490 Figure 7-32. (B) Diethylstilbestrol (DES) was used by pregnant women in the United States during the period 1940 to 1971. Instead of a CCD, some systems use complementary metal-oxide silicon (CMOS) to convert light into an analog signal that is sent to the ADC. • Cancer can be missed because of inadequate compression or missed breast tissue as a result of poor positioning. Which of the following are considered agencies granting accreditation under FDA regulation?

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