

Micro calcification in breast lesions

Detection & diagnosis

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The early diagnosis of breast cancer (women major cancer) is a big challenge facing the radiologist, especially the presence of micro calcification disregards the others findings.

We all know that the early sign of breast cancer in situ (DCIS) is the presence of micro calcification, without a real mass, taking into consideration that 2/3 of micro calcification may be benign.

The detecting and examination of the micro calcification lead the radiologist to face a real dilemma which need a good knowledge of breast cancer and its behavior, and when he can make a further investigations such as US, MRI, and core biopsy.

The visual acuity of methods in medical imaging to detect micro calcification in breast is high in mammography 200 micron and can reach 50 micron in digital mammography ,and for US is 1.5- 2 mm and MRI is 1.5-2.5 mm ,it's make mammography the choice exam for detecting micro calcification .

The French classification "LE GALE" is adopted to differentiate the calcifications according to its radiological appearance grading from benign to malignant.

The recently new world classification is BI-RADS; classify the micro calcification according to shape, appearance, quantity and cluster to 5 grades from benign to malignant.

The good knowledge of dealing with micro calcification of the breast enables us to early detection of breast cancer and avoids a patient major surgery and heavy treatment.