

2nd World Congress on

RADIOLOGY AND ONCOLOGY

July 16-17, 2018 Dubai, UAE

MRI-guided breast biopsy and breast cancer: Basics and cases

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Breast MRI plays an essential role in early detection, diagnosis and treatment of breast cancer. The development of MR-guided breast biopsy has enhanced the value and acceptance of breast MRI as part of multimodality breast imaging. Technique of Breast MRI includes multiplanar imaging of both breasts before and after intravenous contrast administration. Indication for breast MRI include screening for high-risk women, contralateral breast screening and assessment of disease extent including chest wall invasion in newly diagnosed breast cancer cases, post neoadjuvant chemotherapy, post lumpectomy with positive margin, breast evaluation in axillary adenopathy with unknown primary, better lesion characterizations and evaluation of breast implants. Findings on Breast MRI include focus or foci, non-mass enhancement and masses. These are categorized using the ACR BIRADS based on their features and enhancement patterns. Work up of suspicious MR findings includes focused ultrasound and magnification views and biopsy accordingly. Indications for MR-guided breast biopsy include all BI RADS 4 and 5 suspicious finding with no correlate on ultrasound or magnification views. Using MR-guided vacuum-assisted biopsy we diagnosed small breast cancer less than 1 cm and ductal carcinoma in situ in treated breast cancer patients on surveillance and in screened women. We also diagnosed contralateral breast malignancy at time of staging workup and residual after lumpectomy. MR-guided breast biopsy has enabled the diagnosis of small and early breast cancer in different phases of patient care including screening, staging workup and surveillance of breast cancer patients.

Biography

Laila Abu Tahoun is Consultant Radiologist and the Director of Breast Imaging Unit at King Hussein Cancer Center in Jordan. She obtained the European Board in Breast Imaging. She has graduated from the University Medical School of Debrecen in Hungary with Summa Cum Laude degree and completed Radiology residency at Islamic Hospital in Jordan. She has more than 10 years in Breast Imaging and intervention. She has led the KHCC BIU to the successful accreditation by HCAC. She is operating the mammography mobile vans projects together with the JBCP. She is interested in teaching quality breast imaging and has conducted many workshops and lectures including hands-on training in breast imaging. She is one of the Editors of the Radiographer Manual and reviewer of the National Breast Cancer Screening and Diagnosis Manual. She is the Scientific Committee leader at the Jordan Radiologic Society.

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