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Role of imaging in follow up of previously diagnosed and treated breast masses

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Conservative breast therapy (CBT) means lumpectomy or segmental mastectomy followed by radiotherapy. Both surgery and radiotherapy produce a wide spectrum of breast changes that appear on different imaging modalities. Certain radiologic features of these benign breast changes may simulate radiologic patterns of tumor recurrence that occurs at a rate of 2.5% per year between 2 and 6 years after treatment. Sometimes the differentiation between these two entities is a challenging diagnostic dilemma; thus, the interpreting radiologist must be familiar with the expected chronologic appearances of the conservatively treated breast. Consequently, radiologists should be able to decide whether to recommend follow up or request for pathological correlation. Basic imaging modalities are: Mammography, Ultrasonography and MRI. MRI is now recognized as a reliable powerful tool for follow up of treated cases of breast carcinoma. Functional MRI perfusion is effective in monitoring the response to chemotherapy. Recent research studies address diffusion MRI as a promising tool that may provide an earlier biomarker for tumor response than changes in tumor size.

Biography

Eman Oweida has completed her PhD at the age of 33 years from Mansura University; Egypt. She continued working in Mansoura Faculty of Medicine as a lecturer; provided lectures and training courses for 5th year students, Manchester program and post graduate students. She also conducted research studies in collaboration with research teamwork in Mansoura University Hospital departments. Published 6 research articles in international Radiology Journals and recognized as a distinguished reviewer by Elsevier publishing for reviewing more than thirty articles for Egyptian journal of Radiology and Nuclear medicine (EJRNM). Recently joined Nmc Royal Hospital in Abu Dhabi as Specialist Radiologist.

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