

Magnetic Resonance Spectroscopy in the Evaluation of Malignant Breast Lesions (Literature Review)

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Abstract

In the literature review, the diagnostic technique called proton magnetic resonance spectroscopy (¹H-MRS) is considered to be gaining popularity. It allows non-invasive in vivo assessment of tissue metabolism and demonstrates effective application in improving the specificity of MR diagnosis of breast lesions and control of tumor response to neoadjuvant chemotherapy. Variations in the concentration of choline-based cellular metabolites detected by ¹H-MRS have shown a relationship with malignant tissue transformation in in vivo and in vitro studies. ¹H-MRS exists as a complement to the current MR study of the breast.

Key words: Magnetic Resonance Imaging, Proton Magnetic Resonance Spectroscopy, Breast Cancer.

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