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Radial scare- the comparison of ultrasound breast imaging with histopathology

Jana Slobodnikova and Lešková Mária
Alexander Dubček University of Trenčín, Slovakia

Aim: Compare the benefits of ultrasound, mammography, MR mammography and biopsy - for breast imaging in the diagnosis of a radial scar with histopathology.

Material & Method: The retrospective study of the histologic findings of 54 patients with radial scare or complex sclerosing lesion. Retrospective study from January 2003 to December 2015 was done. In all patients we performed clinical examination, mammography, ultrasound, magnet resonance and core cut biopsy. We compare results of ultrasound results with breast imaging and definitive histopathology.

Result: In all the 54 patients we compared clinical examinations, sonography and mammography of a MR imaging with histopathology. In all 39 patients in US imaging we described changes in architectonics structural distortion tissue, mass and in centrum, 10 lesions were found for scar. Only 5 lesions were in US atypically. With combine US, MG and biopsy was correctly diagnosed in 44 cases. The 10 cases were diagnosed after surgical treatment of a histopathology.

Conclusion: Typical radial scar is a benign breast lesion, which increased clinical significance. Radial scar is frequently associated with atypia and/or the breast malignancy. We cannot currently reliably exclude malignancy in radial scar by breast imaging, excision biopsy (core cut biopsy, vacuum assistant biopsy) is recommended. US is very important image modality for correct diagnosis of radial scare.

Biography

Jana Slobodnikova has done her MD from Prague Charles University. She has completed CSc/PhD from Institutus of experimental Oncology Slovak Scientific Academy. She also worked as an Ass. Prof. Trnaviensis University. She has published more than 90 scientific papers, from then 25 papers in reputed journals and has been serving as an Editorial Board Member of reputed. She has published 3 monographs. She is President of the section of breast imaging of Slovak Radiologic Society and Vice President of the Slovak Society of Ultrasound in Medicine

jana.slobodnikova@tuni.sk

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