

## Diagnostics of Posttraumatic Breast Changes Using Digital Mammography and Digital Breast Tomosynthesis

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### Abstract

The aim of the study was to determine the diagnostic capabilities of digital mammography and tomosynthesis in the diagnosis of post-traumatic breast changes. The study included 80 patients in the age category from 40 to 83 years with various injuries of the breast in history. The study revealed the main advantages of the combined mode using the tomosynthesis technique over digital mammography. The use of the combined mode (2D + 3D) contributes to conducting additional examination (including interventional radiology methods), since the modified part of the breast is visualized in volume, which allows you to correctly diagnose and determine the optimal patient management tactics. The introduction of the tomosynthesis technique into the patient's examination algorithm with a history of breast trauma facilitates differential diagnosis of the changes identified by the results of digital mammography.

**Key words:** Digital Mammography, Digital Breast Tomosynthesis, Trauma, Breast.

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