

## Stereoscopic Mammography. An Alternative Method for the Breast Cancer Early Diagnosis

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### Abstract

The aim of the study was to determine the diagnostic capabilities of stereoscopic mammography against non-palpable breast lesions. The study involved 120 patients with different pathologies of the mammary glands in the age group from 30 to 80 years. The study identified the main benefits of a stereoscopic mammography to standard digital mammography in the diagnosis of breast lesion. It is found that the stereoscopic mammography has high sensitivity (86 %), high specificity (84 %) and high prediction accuracy (85 %), for setting conclusion «BC» and «suspicion of breast cancer» (sensitivity 86 %, specificity of 84 % and accuracy 85 %). Using stereoscopic mammography, with high probability, can significantly reduce the incidence of additional surveys, as the breast lesion is visualized immediately to the extent that allows the correct diagnosis and determine the optimum tactics of the patient reference.

**Key words:** Stereoscopic Mammography (3DM), Digital Mammography, Breast Ultrasound, Breast Cancer, Suspicion of Breast Cancer, Non-Palpable Breast Lesion.

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