

The Capabilities and Advantages of Digital Breast Tomosynthesis in Differential Diagnosis of Non-Palpable Breast Neoplasms

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Abstract

The purpose of this study was to determine the diagnostic capabilities of digital breast tomosynthesis techniques against non-palpable breast formations. The study involved 120 patients aged 35–65 years with non-palpable breast formations. The capabilities and advantages of digital breast tomosynthesis in the early and differential diagnosis of non-palpable breast formations. Was set high sensitivity (98 %), specificity (99 %) and accuracy (98 %) of digital breast tomosynthesis in the diagnosis of cancer and suspected breast cancer. Application of digital breast tomosynthesis greatly facilitates the work of the doctor of beam diagnostics, reduces the number of false-positive results, unwarranted invasive procedures, increases the number of correct diagnoses.

Key words: Digital Breast Tomosynthesis, Digital Mammography, Ultrasound Examination, Non-Palpable Breast Neoplasms, Breast Cancer.

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