

Application of ultrasound elastography in differential diagnosis of breast tumors using Siemens S2000

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Abstract: In the context of the increasing incidence of breast cancer, accurate diagnosis and differentiation between benign and malignant breast tumors is an urgent need. This study aims to develop a system based on ultrasound elastography to improve the accuracy of differential diagnosis of breast tumor types. The research method involves using experimental data from the Siemens S2000 machine to analyze and build a model. The expected result is to provide doctors with an important support tool, enhancing diagnostic capabilities and reducing errors during testing.

Keywords: Siemens S2000, ultrasound elastography, differential diagnosis, breast tumor, breast cancer