



Phantom Materials for Linear Elastography

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Producing the phantom materials for modeling the mechanical properties of soft tissue is the purpose of this study. This tissue is combined of two different types of tissue, tumor and back ground tissue. Finally gelatin materials used to construct phantom and weight ratio of the dry gelatin and deionized water for 21 k Pa and 102 k Pa young's modulus are obtained. This phantom is used in ultrasound elastography with external excitation less than 5%.