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超声弹性成像观察正常成年女性乳腺组织

Ultrasound elastography in observation of breast tissues for normal adult females

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中文摘要:

目的 探讨超声弹性成像在正常成年女性乳腺组织中的应用。方法 收集41名正常成年女性,根据年龄分为青年组(11名)、中青年组(10名)、中年组(10名)和老年组(10名),以弹性成像技术观察乳腺组织,采用乳腺整体5分评分法测量乳腺的皮下脂肪层、腺体层(中央区、内带、中带和外带)和胸壁肌层的弹性成像评分。结果 弹性评分:脂肪组织<腺体层<胸壁肌层。腺体层的弹性评分随年龄增加而增大($P<0.05$),而脂肪层和胸壁肌层的弹性评分不受年龄影响。除青年组外,乳腺中央区的弹性评分低于其他分区($P<0.05$),而内带、中带与外带间的弹性评分差异无统计学意义。结论 采用弹性成像技术可以很好地评判正常成年女性乳腺组织的硬度,半定量评价不同年龄段女性乳腺组织的差异。

英文摘要:

Objective To explore the application value of ultrasound elastography (UE) in observation of breast tissue for normal adult females. **Methods** Totally 41 normal females were enrolled and divided into 4 groups according to age, i.e. youth group ($n=11$), young and middle-aged group ($n=10$), middle-aged group ($n=10$) and older group ($n=10$). UE was performed to observe breast tissues. Then overall breast 5-score method was used to measure subcutaneous fat layer of the breast, mammary gland layer (the central area, the inner zone, the middle zone and the outer zone) and chest wall muscle layer, respectively. **Results** With 5-score semi-quantitative assessment, the sequence of elastic score from low to high was the fat layer, mammary gland layer and chest wall muscle layer. The elastic score of normal adult female's mammary gland layer increased with age ($P<0.05$), while the elastic scores of the fat layer and the chest wall muscle layer were not subject to the influence of age. Except youth group, the elastic score of the central area was lower than that of the other zones ($P<0.05$), while the difference was not significant among the inner zone, middle zone and outer zone. **Conclusion** UE can be used to judge the hardness of different layers of breast tissues in normal adult females, and to semi-quantitatively evaluate breast tissues in different ages.

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