عنوان مقاله:

Digital infrared thermal imaging in the detection Of mammary masses

محل انتشار:

سومین کنگره بین المللی چالش های بالینی در مامائی، زنان و نازائی (سال: 1398)

تعداد صفحات اصل مقاله: 1

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خلاصه مقاله:

Background and Aim : The aim of this study was to investigate the use of digital infrared thermal imagingin the detection of mammary masses.Methods : Review of past studies and published articlesResults : The results of studies in this area suggest that DITI may play a role in the diagnosis of fibroadenomas and cysts caused by invasive ductal carcinoma in patients with palpable breast mass. As fibroadenomasare more commonly seen in younger women, the emergence of thermal analysis as a lateralapproach in patients with rigid breast with clinical symptoms seems to be more promising and important.Conclusion : Results from previous studies show that due to the angiogenesis process, inflammation, andincreased nitric oxide levels, which are mainly due to the malignancy of the tumor; the skin surfacetemperature difference between an injury and its mirror image will be higher than the reference threshold.So we can use this difference to diagnose malignant injuries. They also showed that when the 0.5 ° Ctemperature difference is considered as the reference point for thermal symmetry, DITI can detectmammalian mass with a sensitivity of 95.24% and a specificity of 72.73%.

کلمات کلیدی:

Infrared Thermal Imaging, Breast Mass, Women s cancer, breast cyst