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超声和超声光散射成像系统鉴别诊断良恶性乳腺肿瘤: Meta分析

Ultrasound and optical tomography image ultrasonography in differential diagnosis of benign and malignant breast tumors: Meta-analysis

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作者

单位

E-mail

[张沥](#)

[兰州大学第一医院放射科, 甘肃 兰州 730000](#)

[曹锋](#)

[长安医院胸外科, 陕西 西安 710000](#)

[雷军强](#)

[兰州大学第一医院放射科, 甘肃 兰州 730000](#)

leijq1990@163.com

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中文摘要:

目的 评价超声和超声光散射成像(OPTIMUS)对良恶性乳腺肿瘤的鉴别诊断价值。方法 计算机检索PubMed、考兰克图书馆、Web of science、EMBASE、中文科技期刊数据库、中国医学文献数据库、中国期刊全文数据库、万方数字化期刊全文数据库中有关OPTIMUS鉴别良恶性乳腺肿瘤的诊断性研究,检索时间由建库至2012年10月;手工检索纳入研究的参考文献。使用诊断试验质量评价工具(QUADAS)条目进行质量评价,Meta-Disc 1.4软件进行Meta分析。结果 纳入17个研究共1830例患者,其中9个研究报道了超声的诊断价值。以病理结果为金标准,超声检查合并敏感度、特异度、综合受试者ROC(SROC)曲线下面积为分别为0.89(95%CI 0.85~0.91)、0.66(95%CI 0.61~0.70)、0.8622;OPTIMUS合并敏感度、特异度、SROC曲线下面积分别为0.91(95%CI 0.89~0.93)、0.77(95%CI 0.74~0.79)、0.9346。结论 OPTIMUS鉴别诊断乳腺肿瘤良恶性具有较高的临床应用价值;常规超声不能确诊时,可联合应用OPTIMUS进行诊断。

英文摘要:

Objective To explore the value of ultrasound and optical tomography image ultrasonography (OPTIMUS) in differential diagnosis of benign and malignant breast tumors. **Methods** A comprehensive literature search was conducted in PubMed, Cochrane Library, Web of science, EMBASE, VIP, CBMdisc, CNKI and Wanfang Data to retrieve the diagnostic studies about OPTIMUS in differential diagnosis of benign and malignant breast tumors. The range of retrieval time was from the start time of database building to Oct, 2012. Then the references of included literatures were manually retrieved. Using quality assessment of diagnosis accuracy studies (QUADAS) items, quality evaluation was processed for these literatures, and Meta-analysis was done with Meta-Disc software (version 1.4). **Results** A total of 17 articles involving 1830 cases were included. Meta-analysis showed that the pooled sensitivity, specificity, area under curve of summary ROC of ultrasound and OPTIMUS was (95%CI 0.85—0.91), 0.66 (95%CI 0.61—0.70), 0.8622 and 0.91 (95%CI 0.89—0.93), 0.77 (95%CI 0.74—0.79), 0.9346, respectively, taking the results of pathology as gold standards. **Conclusion** OPTIMUS is of high value in differential diagnosis of benign and malignant breast tumors. Ultrasound combined with OPTIMUS is preferred for some uncertain cases.

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