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Corralations between the expression of C-erB-2, CD34 and ER in breast cancer patients and the signs of conventional ultrasonograghy and ultrasound elastography

Objective: This study aims to investigate the correlations between the expression of human epidermal growth factor receptor 2 (C-erB-2), CD34, and estrogen receptor (ER) in breast cancer (BC) patients, and the signs of conventional ultrasonography and ultrasound elastography.

Patients and Methods: Clinical data of 88 patients who were pathologically diagnosed as breast cancer were retrospectively analyzed. HI VISION Avius color ultrasound device was used to perform ultrasound and related ultrasound parameters were analyzed. Expressions of C-erB-2, CD34, and ER were detected by immunohistochemistry.

Results: There was a correlation between positive expression of C-erB-2 and the blood supply, lymph node metastasis and microcalcication in patients ($p < 0.05$). Patients were di- vided into high expression group and low expression group according to the median expression level of CD34. Expression of CD34 was correlated with the ultrasound sign of lymph node metastasis ($p < 0.05$). Positive expression of ER was correlated with the morphology, margin, and perimeter of the tumor ($p < 0.05$). Expression levels of C-erB-2, CD34, and ER were found to be increased in BC patients. Conclusions: Combination of up-regulated expression of C-erB-2, CD34, and ER and signs of ultrasound can improve the diagnosis of BC.

Biography

Juan Zhang has completed her MD from the age of 25 years from Liaoning Medical University, China. She has been a radiologist for 15years. Now she is special in ultrasound diagnose, working and researching in Dongzhimen Hospital, Beijing University of Chinese Medicine, Beijing, China. He has published 17 papers in reputed journals. Her research area mainly focus on ultrasound diagnose of small organs disease including thyroid cancer and breast cancer. The correlations between the expression of C-erB-2, CD34 and ER in breast cancer patients and the signs of conventional ultrasonograghy and ultrasound elastography is her current research which improve that Combination of up-regulated expression of C-erB-2, CD34, and ER and signs of ultrasound can improve the diagnosis of BC.

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