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CD44⁺/CD24^{-/low}在乳腺癌中的表达及其与含蒽环类药物化疗方案敏感度的关系

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Relationship of CD44⁺/CD24^{-/low} with Responsiveness of Breast Cancer to Anthracycline-based Chemotherapy

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摘要

目的

研究乳腺癌中CD44⁺/CD24^{-/low}的表达及其与含蒽环类药物化疗方案敏感度的关系。方法91例乳腺癌接受含蒽环类药物的术前新辅助化疗,2~4个疗程后进行效果评价;采用双染免疫组织化学方法检测化疗前后CD44⁺/CD24^{-/low}的表达,t检验分析化疗前后CD44⁺/CD24^{-/low}细胞比例的变化, χ^2 检验分析乳腺癌CD44⁺/CD24^{-/low}表型与乳腺癌临床病理参数及化疗疗效的关系。结果乳腺癌中CD44⁺/CD24^{-/low}阳性表达率为39.6%(36/91),在接受含蒽环类药物的新辅助化疗后乳腺癌中CD44⁺/CD24^{-/low}细胞比例较化疗前明显增加(P=0.028)。CD44⁺/CD24^{-/low}阳性组ER阳性率明显低于CD44⁺/CD24^{-/low}阴性组(25.0% Vs.47.3%,P=0.033)。三阴性乳腺癌中CD44⁺/CD24^{-/low}阳性率明显高于非三阴性乳腺癌(61.9% Vs.32.9%,P=0.017)。CD44⁺/CD24^{-/low}表型与年龄、肿瘤大小、临床分期、病理类型、组织学分级等乳腺癌临床病理参数无明显关系(P>0.05)。CD44⁺/CD24^{-/low}阳性组的总有效率高于CD44⁺/CD24^{-/low}阴性组(38.9% Vs.18.2%,P=0.028)。结论CD44⁺/CD24^{-/low}阳性组的病理完全缓解率明显高于CD44⁺/CD24^{-/low}阴性组(38.9% Vs.18.2%,P=0.028)。结论CD44⁺/CD24^{-/low}细胞仅存在于部分乳腺癌,CD44⁺/CD24^{-/low}表型与配(Vs.18.2%,Vs.18.2%

关键词: Breast cancer CD44+/CD24-/low phenotype Triple negative Chemosensitivity

Abstract:

Objective

To evaluate the expression of CD44⁺/CD24^{-/low} and the relationship between CD44⁺/CD24^{-/low} and the response to anthracyclines-based chemotherapy in patients with breast cancer.MethodsA total of 91 patients with breast cancer were treated with anthracycline-based neoadjuvant chemotherapy, and the clinical response to the chemotherapy was obtained after 2 to 4 cycles.Double-staining immunohistochemistry was used to detect the expression of CD44⁺/CD24^{-/low} in paraffin-embedded tissues of pre-chemotherapy and post-chemotherapy.Data was analyzed via t test and Chi-square test.ResultsThe expression rate of CD44⁺/CD24^{-/low} phenotype was 39.6%(36/91).The proportions of CD44⁺/CD24^{-/low}cells were significantly increased after anthracyclines-based chemotherapy (*P*=0.028).The positive rate of ER in CD44⁺/CD24^{-/low} positive group was lower than that in CD44⁺/CD24^{-/low} negative group(25.0% *vs.*47.3%,*P*=0.033).And the expression rate of CD44⁺/CD24^{-/low} phenotype in triple negative breast cancer was higher than that in non-triple negative breast cancer(61.9% *vs.* 32.9%,*P*=0.017).There was no significant correlation between CD44⁺/CD24^{-/low} phenotype and the other clinicopathological parameters, such as age, tumor size, TNM classification, pathological

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type,histological grade and so on(P>0.05).The overall response of CD44+/CD24-/lowpositive group was higher but had no difference compared with CD44+/CD24-/low negative group (75% vs.69.1%,P=0.542),and the rate of pathological complete remission (pCR) in CD44+/CD24-/lowpositive group was higher than that in CD44+/CD24-/lownegative group (38.9% vs.18.2%,P=0.028).ConclusionCD44+/CD24-/low cells are demonstrated in certain breast cancer,CD44+/CD24-/low phenotype is associated with triple negative breast cancer and the responsiveness of breast cancer to anthracycline-based chemotherapy.CD44+/CD24-/low phenotype may be used as one of the indicators to evaluate the clinical chemotherapeutic response of the patients with breast cancer.

Key words: 乳腺癌 CD44⁺/CD24^{-/low}表型 三阴性 化疗敏感度

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