

E-钙黏蛋白、β-链蛋白、MMP-16在食管癌组织中表达及其临床意义



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Title: Expression of E-cadherin, β-catenin and MMP-16 in esophageal carcinoma and its clinical significance

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摘要: 目的: 探讨E-cadherin、β-catenin、MMP-16在食管癌组织中的表达情况及其临床意义。方法: 收集74例食管癌患者的手术标本, 采用免疫组化法检测E-cadherin、β-catenin、MMP-16的表达, 记录患者临床病理参数并随访。结果: E-cadherin、β-catenin均主要表达于细胞膜, 在癌旁组织中的阳性率显著高于食管癌组织。MMP-16主要表达于细胞膜, 在食管癌组织中大量表达, 阳性率显著高于癌旁组织。E-cadherin、β-catenin、MMP-16的表达与否与肿瘤分化程度、浸润程度、淋巴结转移、TNM分期相关 (P<0.05)。E-cadherin与β-catenin表达呈正相关关系, 与MMP-16呈负相关关系。β-catenin与MMP-16表达呈负相关关系。全组患者随访3~48个月, 中位随访时间27个月。E-cadherin (+) 组、E-cadherin (-) 组的3年生存率分别为47.5% (28/59)、13.3% (2/15); β-catenin (+) 组与β-catenin (-) 组3年生存率分别为49.1% (28/57)、11.8% (2/17); MMP-16 (+) 组与MMP-16 (-) 组3年生存率分别为18.2% (10/55)、36.8% (7/19)。Log-rank检验发现, MMP-16 (-) 组、E-cadherin (+) 组、β-catenin (+) 组的预后均明显好于相应的对照组, 差异均具有统计学意义 (P<0.05)。结论: E-cadherin、β-catenin、MMP-16在食管癌患者中有一定的异常表达, 且对患者的临床病理参数有一定的影响。

Abstract: Objective: To investigate the expression and clinical significance of E-cadherin, β-catenin and MMP-16 in esophageal carcinoma. Methods: The surgical specimens of 74 patients with esophageal carcinoma were collected, and the expression of E-cadherin, β-catenin and MMP-16 was detected. Results: The positive rates of E-cadherin and β-catenin in adjacent tissues were significantly higher than those in esophageal carcinoma tissues. MMP-16 was mainly expressed in the cell membrane, and the positive rate was significantly higher than those in the adjacent tissues. The expression of E-cadherin, β-catenin and MMP-16 was correlated with tumor differentiation, infiltration, lymph node metastasis and TNM stage (P<0.05). E-cadherin was positively correlated with the expression of β-catenin and negatively correlated with MMP-16. There was a negative correlation between the expression of MMP-16 and β-catenin. The 3 year survival rates of E-cadherin (+) group and E-cadherin (-) group were 47.5% (28/59) and 13.3% (2/15), and 49.1% (28/57) and 11.8% (2/17) in the group of β (+) and β-catenin (-), and 18.2% (10/55) and 36.8% (7/19) in the MMP-16 (+) group and MMP-16 (-) group, respectively. The results of Log-rank test showed that the prognosis of MMP-16 (-) group, E-cadherin (+) group and β-catenin (+) group was better than those of the corresponding control group, and the difference was statistically significant (P<0.05). Conclusion: The abnormal expression of E-cadherin, β-catenin and MMP-16 have effects on the clinicopathological parameters and prognosis of patients.

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