

论文

MMP-2及MMP-7在食管癌及癌旁组织中的表达

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摘要:

目的 探讨MMP-7和MMP-2在食管癌中的表达及其相互关联。方法 采用RT-PCR方法检测MMP-7和MMP-2在60例食管癌组织及其相应癌旁组织中的表达。结果 MMP-7和MMP-2在癌组织中阳性率分别为90.0% (54/60)和91.7% (55/60), 在其对应癌旁组织中的阳性率为48.3% (29/60)和65.0% (39/60)。通过RT-PCR半定量分析癌组织及其相应的癌旁组织中MMP-7和MMP-2的表达量, 差异有统计学意义 (P<0.05)。MMP-7的表达与肿瘤浸润深度及淋巴结转移有关 (P<0.05)。MMP-2与MMP-7表达呈正相关。结论 MMP-7和MMP-2的表达可能与食管癌的早期进展和程度有关。

关键词: 食管鳞癌; 基质金属蛋白酶7; 基质金属蛋白酶2

Expressions of MMP-7 and MMP-2 in esophageal cancer patients

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Abstract:

Objective To explore expressions of and pathological relationship between matrix metalloproteinase-7 (MMP-7) and matrix metalloproteinase- 2(MMP-2) in cancer tissues and its adjacent normal tissues of esophageal cancer patients. Methods Using RT-PCR, we detected the expressions of MMP-7 and MMP-2 in 60 cases of esophageal carcinoma tissues and adjacent normal tissues. Results The positivity rates of MMP-7 and MMP-2 expressions were 90.0%(54/60) and 91.7%(55/60) in esophageal carcinoma tissues, and 48.3%(29/60) and 65.0% (39/60) in adjacent normal tissues. Semi-quantitative RT-PCR showed a difference in expressions of MMP-7 and MMP-2 between carcinoma tissues and adjacent normal tissues (P<0.01), and there was a relationship between expression of MMP-7 and both tumor invasion and lymph node metastasis (P<0.05). There was a positive correlation between expressions of MMP-2 and MMP-7 in tumor tissues. Conclusions MMP-7 and MMP-2 may function in early stage esophageal squamous cell carcinoma (ESCC) . The joint action of the genes for MMP-7 and MMP-2 can promote carcinogenesis and development of esophageal carcinoma.

Keywords: Esophageal squamous cell carcinoma; Matrix metalloproteinase-7; Matrix metalloproteinase-2

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