

肿瘤防治

Egr-1和PTEN蛋白的表达在食管上皮增生和癌变过程中的意义

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摘要 背景与目的: 研究食管粘膜上皮癌变过程早期生长反应基因(Early growth response gene-1, Egr-1 gene) 和与张力蛋白及辅助蛋白同源、第10号染色体丢失的磷酸酶基因 (phosphatase and tensin homology deleted on chromosome ten,PTEN)蛋白的表达, 并探讨其与食管癌发生的关系。材料与方法: 应用免疫组化EnVision二步法, 对86例食管癌切除新鲜标本的上切缘正常粘膜、癌旁粘膜上皮和原位癌进行Egr-1和PTEN蛋白表达的检测。结果: Egr-1和PTEN在正常、增生和恶变的食管粘膜上皮细胞均有表达, 两者在食管癌变过程显示不同的分布模式, 即Egr-1蛋白表达逐渐升高, 而PTEN蛋白表达则逐渐下降。结论: Egr-1和PTEN蛋白表达的改变与食管粘膜上皮的恶性转化密切相关, Egr-1表达上调和PTEN表达缺失可能是一个有用的生物学标志和食管癌病人早期诊断的指标。

关键词 [早期生长反应基因](#); [与张力蛋白第10号染色体同源缺失的磷酸酶基因](#); [食管上皮](#); [癌变过程](#)

Significance of Egr-1 and PTEN Protein Expression in Esophageal Epitheliosis and Carcinogenesis

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Abstract **BACKGROUND & AIM:** To investigate the expression of early growth response gene-1 (Egr-1 gene) and PTEN in esophageal epitheliosis and carcinogenesis, and the relation with the development of esophageal carcinoma. **MATERIAL AND METHODS:** Egr-1 and PTEN protein expression in 86 fresh tissue specimens, including esophageal mucosa above the upper surgical margin, carcinoma in situ and mucosa adjacent to tumor, were studied using immunohistochemical EnVision two step method. **RESULTS:** Egr-1 and PTEN protein were expressed in normal, proliferating and transformed malignant cells of esophageal epithelium. The expression of PTEN protein showed a different distribution pattern to that of Egr-1. The Egr-1 protein expression rose gradually and PTEN protein expression decreased gradually. **CONCLUSION:** Egr-1 and PTEN protein expression changes were closely related to the malignant transformation of esophageal epithelium. Egr-1 expression up-regulation and loss of PTEN expressions may be favorable markers and an early diagnostic indicator in patients with esophageal carcinoma.

Keywords [Egr-1](#) [PTEN](#) [esophageal epithelium](#) [carcinogenesis](#)

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