

论文

COX-2和PTEN在卵巢肿瘤中表达及临床意义

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摘要:

目的 分析环氧合酶-2(COX-2)和PTEN蛋白在卵巢上皮肿瘤中的表达及其意义。方法 采用免疫组织化学SP法检测48例卵巢癌、15例卵巢交界性肿瘤、16例卵巢良性肿瘤组织中COX-2和PTEN表达情况,同时选取10例正常卵巢组织作为对照。结果 COX-2在卵巢上皮性癌和交界性肿瘤组织中的表达率明显高于卵巢良性肿瘤及正常组织,差异有统计学意义( $P<0.05$ );COX-2在卵巢上皮性癌组织中的表达与淋巴结转移有明显相关性( $P<0.05$ ),而与组织学分级、临床分期、组织学类型无明显相关( $P>0.05$ );PTEN蛋白在卵巢癌组织和卵巢交界性肿瘤中表达明显低于卵巢良性肿瘤和正常卵巢组织,差异有统计学意义( $P<0.05$ );PTEN蛋白表达与卵巢癌与组织学分级、临床分期和淋巴结转移明显相关( $P<0.05$ ),而与组织学类型无明显相关( $P>0.05$ )。结论 COX-2的表达上调和PTEN表达降低或缺失在卵巢癌的发生、发展中可能起重要作用。

关键词: 卵巢癌 COX-2 PTEN 免疫组织化学

Expression levels and clinical significance of COX-2 and PTEN in epithelial ovarian tumors

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Abstract:

Objective To explore expression levels and significance of cyclooxygenase-2(COX-2)and phosphatase and tensin homologue(PTEN)in epithelial ovarian tumors.Methods Surgical specimens in paraffin of 48 cases of ovarian cancer,15 cases of borderline ovarian tumor,16 cases of benign ovarian tumor,and 10 cases of normal ovarian tissue were collected.The expression levels of COX-2 and PTEN were detected with immunohistochemical SP method.Results The expression levels of COX-2 protein in ovarian cancer and borderline ovarian tumor were significantly higher than those in benign ovarian tumor and normal ovarian tissue( $P<0.05$ ).The expression of COX-2 protein was correlated with lymphatic metastasis ( $P<0.05$ ),but not with histological grade,clinical stage,and histologic type of the tumor( $P>0.05$  for all).The expression levels of PTEN protein in ovarian cancer and borderline ovarian tumor were significantly lower than those in benign ovarian tumor and normal ovarian tissue( $P<0.05$ ).There were close correlations between PTEN protein expression and histological grade,clinical stage,and lymphatic metastasis.Conclusion The upregulation of COX-2 expression and downregulation of PTEN expression are related to the progression of ovarian epithelial carcinoma.

Keywords: ovarian cancer COX-2 PTEN immunohistochemistry

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