

论著

子宫内膜癌hCG异位自分泌的意义及对COX-2的调节作用

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收稿日期 2006-10-10 修回日期 2006-12-5 网络版发布日期 2008-8-11 接受日期 2006-12-5

摘要 目的: 探讨hCG对JEC子宫内膜癌细胞中COX-2表达的调节, 以期进一步阐明恶性肿瘤hCG异位自分泌的意义。方法: 放射免疫定量检测JEC子宫内膜癌细胞株β-hCG的自分泌; MTT实验检测hCG对JEC细胞活性的影响和hCG增加选择性COX-2抑制剂NS398对JEC细胞的抑制作用; Western blotting分析hCG对JEC细胞COX-2蛋白表达的影响。结果: JEC子宫内膜癌细胞株存在β-hCG的自分泌; hCG可增加JEC细胞的活性, 上调COX-2蛋白的表达, 增加选择性COX-2抑制剂NS398对JEC细胞的抑制作用。结论: JEC细胞hCG的异位自分泌, 有促进自身生长的作用, 也是返祖、去分化的一种表现, 上调COX-2蛋白的表达可能是其作用机制之一。

关键词 [人绒毛膜促性腺激素](#) [环氧合酶-2](#) [环氧合酶抑制剂](#) [子宫肿瘤](#) [JEC cells](#)

分类号 [R363](#)

Ectopic hCG in endometrial carcinoma and its effect on COX-2 expression

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Abstract

AIM: To investigate the effect of human chorionic gonadotropin(hCG) on cyclooxygenase-2(COX-2) expression in endometrial carcinoma so as to study the function of ectopic hCG.
METHODS: The ectopic β-hCG in JEC endometrial carcinoma cell lines was quantified by radioimmunoassay. By MTT assay, the effect of hCG on the cell viability of JEC cell lines and the inhibition of selective COX-2 inhibitor NS398 on JEC cell lines were examined. The effect of hCG on COX-2 expression was detected by Western blotting.
RESULTS: The ectopic β-hCG release from cultured JEC cell lines were observed. HCG promoted the cell viability, upregulated the expression of COX-2 protein and increased the inhibition of selective COX-2 inhibitor NS398 in JEC cell lines.
CONCLUSION: The ectopic hCG in JEC endometrial carcinoma cell lines increases cell proliferation, which may be mediated by upregulating the expression of COX-2 protein.

Key words [Human chorionic gonadotropin](#) [Cyclooxygenase-2](#) [Cyclooxygenase inhibitors](#) [Uterine neoplasms](#) [JEC cells](#)

DOI: 1000-4718

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