

论文

雌二醇和anordiol对大鼠子宫水通道(AQP-CHIP)基因表达的调控作用

李学军;于和鸣;SSKoide

北京医科大学药理学系, 北京100083; *国家计划生育委员会科学技术研究所,北京100081

摘要:

本研究观察了雌二醇和Anordiol(一种有激动剂活性的抗雌激素药物)对未成年雌性大鼠子宫水通道(AQP-CHIP)基因表达的调控作用。我们根据两种大鼠AQP-CHIP水通道cDNA保守序列设计合成了一对寡核苷酸引物,用于扩增从大鼠子宫总RNA反转录而成的cDNA片段。给未成年大鼠用单剂量的雌二醇(40μg·kg⁻¹)9h后,AQP-CHIPmRNA的表达量显著增加。雌二醇和Anordiol的最低有效量分别为40μg·kg⁻¹和50μg·kg⁻¹,但Anordiol的刺激作用比雌二醇强。本文结果提示,AQP-CHIP水通道基因的表达可能与雌二醇和Anordiol介导的子宫水的浸渗作用以及子宫腔内液体的产生有关。

关键词: 水通道基因 水蛋白 雌二醇 Anordiol 水浸渗作用 子宫

REGULATION OF WATER CHANNEL GENE (AQP-CHIP) EXPRESSION BY ESTRADIOL AND ANORDIOL IN RAT UTERUS

XJ Li; HM Yu and SS Koide

Abstract:

In the present studies, we observed the regulation of water channel gene (AQP-CHIP) expression by estradiol (E₂) and anordiol, an antiestrogen with agonist activity, in immature female rat uterus. Antisense and sense oligonucleotide primers corresponding to the consensus sequences of two rats AQP-CHIP water channels were synthesized and used to amplify a cDNA fragment that was reverse transcribed from rat uterine total RNA preparation. E₂ administered as a single dose of 40 μg·kg⁻¹ to immature female rats induced a significant increase in AQP-CHIP mRNA expression 9 h after treatment. The lowest effective doses of E₂ and anordiol were 40 and 50 μg·kg⁻¹, respectively. The stimulatory effect of anordiol was more pronounced than that of E₂. The present results suggest that AQP-CHIP water channel gene expression may be involved in E₂- and anordiol-mediated water imbibition and luminal fluid production in the uterus.

Keywords: Aquaporin Estrodiol AQP-CHIP Anordiol Water imbibition Uterus Water channel gene

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