

论著

糖皮质激素或雄激素治疗自身免疫性卵巢早衰小鼠

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摘要

目的: 利用自身免疫性卵巢早衰 (premature ovary failure, POF) 小鼠模型, 为临床采用糖皮质激素和雄激素治疗自身免疫性POF提供理论依据。方法: 利用小鼠Pzp3诱发小鼠卵巢发生自身免疫反应, 制作成自身免疫性卵巢早衰动物模型。选择60只模型小鼠, 随机均分为3组: 治疗组分别给以糖皮质激素、雄激素治疗, 对照组给以注射三蒸水。以性周期的改变、血清抗透明带抗体浓度、病理学检查及免疫组织化学法检测卵巢组织中CD45阳性细胞的浸润程度作为疗效观察指标, 判断分析其治疗效果。结果: 性周期正常者两治疗组与对照组均存在显著差异 ($P < 0.01$)。两治疗组小鼠血清抗透明带抗体平均浓度均明显低于对照组 ($P < 0.01$); 糖皮质激素组明显高于雄激素组 ($P < 0.01$)。两治疗组小鼠组织学检查生长卵泡比例均明显高于对照组 ($P < 0.01$)。两治疗组小鼠CD45阳性细胞浸润的比例均明显低于对照组 ($P < 0.01$)。结论: 糖皮质激素和雄激素均能显著改善自身免疫性卵巢早衰小鼠的病情, 二者的治疗效果相似。

关键词 [卵巢早衰](#); [自身免疫病](#); [治疗](#); [糖皮质激素](#); [雄激素](#)

分类号

Glucocorticoid or androgen for autoimmune premature ovary failure in mice

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Abstract

Objective Using mouse autoimmune premature ovary failure (POF) model to seek theoretical evidence for a possible clinical therapy of autoimmune POF with glucocorticoid (GC) or androgen. **Methods** After autoimmune POF was induced in 60 mice by Pzp3, the mice were randomly assigned into 3 groups ($n=20$): Two groups were treated with GC or androgen and the control group was treated with distilled water. We observed the changes in the sexual cycles of the mice, the serum level of AzpAb, infiltration of cells positively expressing CD45 in the ovary, and pathological alterations of the ovary. **Results** The sexual cycle of each therapy group was significantly different from that of the control group. The mean serum level of AzpAb of each therapy group was significantly lower than that of the control group, and the mean serum level of AzpAb in the GC group was significantly higher than that of the androgen group. The percentage of growing follicles in the ovary of each therapy group was significantly higher than that of the control group. Ovaries infiltrated by cells positively expressing CD45 of each therapy group were significantly fewer than those of the control group. **Conclusion** GC or androgen in mice with autoimmune POF could obviously ameliorate the pathogenetic conditions of the disorder, and both treatments have similar therapeutic efficacy.

Key words [premature ovary failure](#) [autoimmune diseases therapy](#) [glucocorticoid](#) [androgen](#)

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