

论著

解整合素-金属蛋白酶12在子痫前期患者胎盘组织中的表达及意义

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摘要

目的: 探讨子痫前期患者胎盘组织中解整合素-金属蛋白酶12(a disintegrin and metalloproteinase 12, ADAM12)蛋白和mRNA表达水平变化及其意义。方法 采用免疫组织化学方法检测31例子痫前期患者(子痫前期组包括子痫前期重度16例、子痫前期轻度15例)和20例正常足月孕妇(对照组)胎盘组织中ADAM12的蛋白表达水平。采用杂交组化方法检测各组孕妇胎盘组织中ADAM12-S和ADAM12-L的mRNA表达水平。结果: 子痫前期组孕妇胎盘组织中ADAM12蛋白表达水平为 0.56 ± 0.14 , 对照组的为 0.39 ± 0.14 , 两者相比, 差异有统计学意义($P < 0.05$); 子痫前期重度组与轻度组比较, 差异没有统计学意义($P > 0.05$)。子痫前期组孕妇胎盘组织中ADAM12-S mRNA水平为 0.52 ± 0.09 , 对照组为 0.40 ± 0.15 , 两者相比, 差异有统计学意义($P < 0.01$); 子痫前期重度组与轻度组比较, 差异有统计学意义($P < 0.05$); 子痫前期组孕妇胎盘组织中ADAM12-L mRNA水平为 0.51 ± 0.09 , 对照组为 0.42 ± 0.18 , 两者相比, 差异有统计学意义($P < 0.05$); 子痫前期重度组与轻度组比较, 差异没有统计学意义($P > 0.05$)。结论: ADAM12蛋白和mRNA水平在胎盘组织中的表达增高可能在子痫前期的发病过程中起重要作用。

关键词 [子痫前期; 解整合素-金属蛋白酶12; 免疫组化; 杂交组化](#)

分类号

Expression and significance of a disintegrin and metalloproteinase 12 in placenta of preeclampsia

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Abstract

Objective To study the mRNA and protein expressions of the ADAM12 in placenta of preeclampsia patients and their roles on pathogenesis of preeclampsia. Methods Immunohistochemistry and in-situ hybridization were used to investigate the expression of ADAM protein, ADAM12-S mRNA, and ADAM12-L mRNA in placenta of 31 women with preeclampsia (including 15 cases of mild preeclampsia, 16 cases of severe preeclampsia) and 20 cases normal full term pregnant women, respectively. Results The protein expressions of ADAM12 were significantly increased in placenta of preeclampsia patients ($P < 0.05$); but there was no significant difference between severe and mild preeclampsia groups ($P > 0.05$). The expression of ADAM12-L mRNA were significantly increased in placenta of preeclampsia patients ($P < 0.05$); and there was also no significant difference between severe and mild preeclampsia groups ($P > 0.05$). The expressions of ADAM12-S mRNA were significantly increased in placenta of preeclampsia patients ($P < 0.01$); and there were significantly difference between severe and mild preeclampsia groups ($P < 0.05$). Conclusion The high expression of ADAM12 plays a crucial role in the pathogenesis of preeclampsia, and ADAM12-S directly connects with the level of preeclampsia.

Key words [preeclampsia; a distingtgrin and metalloproteinase 12; immunohistochemistry; in-situ hybridization](#)

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▶ 本文作者相关文章
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