

论著

葡萄胎绒毛组织VEGF及bFGF表达与血管缺失

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摘要 目的: 探讨血管内皮生长因子(VEGF)及碱性成纤维细胞生长因子(bFGF)与葡萄胎血管缺失的关系。方法: 采用免疫组化S-P法检测正常早孕绒毛及葡萄胎绒毛中CD34、VEGF与bFGF的表达强度并观察葡萄胎绒毛间质血管形态学特征。结果: (1) 完全性葡萄胎绒毛间质仍可见为数不少的血管。(2) 完全性葡萄胎组微血管密度(MVD)明显低于部分性葡萄胎组($P<0.01$), 部分性葡萄胎组MVD明显低于正常早孕组($P<0.01$)。(3) 绒毛间质, 完全性葡萄胎组VEGF、bFGF表达明显低于部分性葡萄胎组(均 $P<0.01$), 部分性葡萄胎组VEGF、bFGF表达明显低于正常早孕组(均 $P<0.01$)。结论: 葡萄胎绒毛间质VEGF及bFGF低表达与血管缺失有关。葡萄胎血管发育障碍, 导致胚胎死亡。

关键词 [葡萄胎](#); [微血管密度](#); [内皮生长因子](#); [成纤维细胞生长因子2](#)

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Expression of VEGF and bFGF in avascularization of hydatidiform mole

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Abstract

AIM: To explore the expression of vascular endothelial growth factors (VEGF) and basic fibroblast growth factors (bFGF) in avascularization of hydatidiform mole. METHODS: The morphologic character of villous stroma blood vessel of hydatidiform mole and the expression of VEGF and bFGF in the placental villi obtained from 14 cases of normal early gestation, 27 cases of partial hydatidiform mole and 11 cases of complete hydatidiform mole were detected by immunohistochemistry test (SP method). RESULTS: 1. Considerable vessels were detected by CD34 in the villous stroma of complete hydatidiform moles. 2. Microvessel density (MVD) in complete hydatidiform mole group was evidently lower than that in partial hydatidiform mole group ($P<0.01$). MVD in partial hydatidiform mole group was evidently lower than that in normal early gestation group ($P<0.01$). 3. In villous stroma, the content of VEGF and bFGF in complete hydatidiform mole group were evidently lower than that in partial hydatidiform mole group ($P<0.01$ and $P<0.01$, respectively). The contents of VEGF and bFGF in partial hydatidiform mole group were evidently lower than that in normal early gestation group ($P<0.01$ and $P<0.01$, respectively). CONCLUSION: The lower expression of VEGF and bFGF in villous stroma may have relation with avascularization in hydatidiform mole. The disturbance of blood development of hydatidiform mole may cause fetal death.

Key words [Hydatidiform mole](#) [Microvessel density](#) [Endothelial growth factors](#) [Fibroblast growth factor 2](#)

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