

论著

## MMP-7和MMP-9对葡萄胎恶变的预测价值研究

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**摘要** 背景与目的: 探讨基质金属蛋白酶-7(MMP-7)及基质金属蛋白酶-9(MMP-9)在预测葡萄胎恶变中的作用。材料与方法: 采用免疫组织化学PV-6000法测定49例葡萄胎(其中8例恶变, 列为葡萄胎恶变组)和18例正常绒毛组织中的MMP-7和 MMP-9蛋白表达量。采用化学发光法测定了49例葡萄胎患者的308次血人绒毛膜促性腺激素(HCG)。结果: MMP-7、MMP-9蛋白表达量在葡萄胎恶变组中的表达分别高于正常绒毛组和葡萄胎未恶变组( $P<0.05$ ), 在正常绒毛组和葡萄胎未恶变组的表达差异无统计学意义( $P>0.05$ )。3例血HCG持续阳性和5例血HCG降而复升的患者恶变为侵蚀性葡萄胎。结论: MMP-7和MMP-9可能与滋养细胞的侵袭过程及程度有关, 检测葡萄胎患者组织中MMP-7和MMP-9的蛋白表达, 可以预测其恶变, 并为临床预防性化疗提供依据。

**关键词** [基质金属蛋白酶-7](#); [基质金属蛋白酶-9](#); [葡萄胎](#)

## Predictive Values of MMP-7 and MMP-9 in Malignant Transformation of Hydatidiform Mole

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**Abstract BACKGROUND & AIM:** To explore the predictive values of MMP-7 and MMP-9 in malignant transformation of hydatidiform mole. **MATERIALS AND METHODS:** The protein expressions of MMP-7 and MMP-9 were evaluated by immunohistochemistry in 18 normal villi, 49 hydatidiform moles, in which 8 were malignantly transformed moles. The chemiluminescent immunoassay was used to measure the level of HCG in 49 hydatidiform moles. **RESULTS:** The protein expressions of MMP-7 and MMP-9 were significantly higher in malignantly transformed moles than that in normal villi and nonmalignantly transformed moles ( $P<0.05$ ). There was no statistical difference between normal villi and nonmalignant transformed mole ( $P>0.05$ ). 8 hydatidiform mole cases which 3 cases persist positive and 5 cases up and down malignant into invasive mole. **CONCLUSION:** MMP-7 and MMP-9 may be involved in the invasion of the cytotrophoblast cells. Examining the expressions of MMP-7 and MMP-9 could be useful indexes for prediction of gestational trophoblastic disease and offer basis for clinical therapy.

**Keywords** [matrix metalloproteinase-7](#); [matrix metalloproteinase-9](#); [hydatidiform mole](#)

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