

检测研究

## 膀胱癌多药耐药基因MDR\_1与金属硫蛋白\_3表达的关系

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**摘要** 背景与目的: 探讨膀胱移行细胞癌中多药耐药基因(MDR\_1)与金属硫蛋白\_3(MT\_3)的表达及其相互关系。材料与方法: 采用RT-PCR对11例正常膀胱黏膜和23例膀胱移行细胞癌(BTCC)组织MT\_3和MDR\_1 mRNA表达情况进行分析。结果: 11例正常膀胱黏膜组织中MDR\_1和MT\_3 mRNA表达阳性率分别为9.1%(1/11)和0%(0/11),23例膀胱癌组织中MDR\_1和MT\_3表达阳性率分别为56.5%(13/23)和78.3%(18/23); 膀胱移行细胞癌组织与正常膀胱黏膜中MDR\_1、MT\_3表达阳性率相比, 差异均有统计学意义(P<0.05), 而MDR\_1与MT\_3的表达无明显相关关系(P>0.05)。结论: MDR\_1可能为肿瘤组织分化程度的一个标志, MT\_3的表达与膀胱移行细胞癌的早期诊断相关,可能成为一种新的肿瘤标志物。

**关键词** [膀胱移行细胞癌](#); [金属硫蛋白](#); [多药耐药性](#)

## Relationship Between Expressions of MT\_3 and MDR\_1 in Bladder Cancer

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**Abstract** BACKGROUND & AIM: To investigate the role of MT\_3 in transitional cell carcinomas of bladder and the possible relation with MDR\_1. MATERIALS AND METHODS: Using RT-PCR technique, the expressions of MT\_3 and MDR\_1 mRNA in 11 specimens from normal bladder mucosa and 23 specimens from bladder transitional cell cancer(BTCC) were measured. RESULTS: MT\_3 and MDR\_1\_positive expression rates were found in 0 and 9.1% in normal bladder mucosa ,respectively .But they were 78.3% and 56.5% in 23 BTCC specimens , respectively. The positive rate was significantly higher in BTCC specimens than in normal tissue (P<0.05) .The expressions of MT\_3 and MDR\_1 were not related with the grade ,stage and recurrence after postoperative intravesical chemotherapy. CONCLUSION: MT\_3 mRNA could not be identified in normal bladder mucosa, but highly expressed in bladder neoplasm, MT\_3 might be used as a tumor marker.

**Keywords** [bladder neoplasms](#); [metallothionein](#); [multidrug resistance](#)

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