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中国肿瘤临床 2012, Vol. 39 Issue (9): 574-577 DOI: doi:10.3969/j.issn.1000-8179.2012.09.022

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## 干细胞标志物Oct-4 Sox-2表达与结肠癌术后复发转移的关系

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### Relationship of Oct-4 and Sox-2 Expression in Colon Carcinoma with Recurrence and Metastasis

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**摘要** 探讨结肠癌组织中Oct-4、Sox-2表达情况及其对术后复发转移的预测作用。方法: 采用免疫组织化学方法检测手术切除的80例结肠癌术后标本中Oct-4、Sox-2表达情况, 并且对两指标的表达同肿瘤分化程度、分期和术后复发转移关系进行分析。采用RT-PCR检测20例冰冻肿瘤组织及癌旁组织中Sox-2、Oct-4表达情况。结果: 80例患者中35例出现复发转移, Sox-2、Oct-4在转移组中表达率分别为48.57% (17/35)、51.43% (18/35), 在非转移组中表达率分别为17.78% (8/45)、13.33% (6/45), 差异有统计学意义 (P=0.001)。原发病灶分化程度、T分期和N分期同Oct-4和Sox-2表达无显著性差异。均为阳性表达者其转移发生率高, 生存分析显示不同表达状态转移出现时间差异有统计学意义 (P=0.001)。RT-PCR分析显示20例肿瘤组织中Sox-2、Oct-4阳性表达率分别为40% (8/20)、45% (9/20), 明显高于癌旁正常组织5% (1/20)。结论: 肿瘤组织中Sox-2、Oct-4表达同结肠癌术后转移相关, 两者联合检测有助于评估结肠癌术后复发转移的可能。

**关键词:** 结肠癌 Oct-4 Sox-2 转移 复发

**Abstract:** The current work aims to investigate the expression of Sox-2 and Oct-4 in colon carcinoma and its relationship with relapse and metastasis. Methods: The expression of Oct-4 and Sox-2 was detected in 80 cases of colon cancer tissue by immunohistochemical assay. The correlation of the Oct-4 and Sox-2 expression with histological differentiation, T stage, N stage, and metastasis was analyzed. The level of Oct-4 and Sox-2 expression in the cancer and normal paraneoplastic tissues was evaluated using RT-PCR. Results: Metastasis was observed in 35 of all the 80 cases studied. The positive rate of Sox-2 and Oct-4 in the metastasis group was 48.57% (17/35) and 51.43% (18/35), respectively, whereas it was 17.78% (8/45) and 13.33% (6/45) in the non-metastasis group. Significant differences were observed between the two groups (P = 0.001). The expression of Oct-4 and Sox-2 was not associated with differentiation, T stage, or N stage of the tumor. The group with positive expression of Oct-4 and Sox-2 showed high metastatic rate. The survival analysis showed that the time of metastasis was significantly different in the groups with various expressions (P = 0.001). The positive expression rate of Sox-2 and Oct-4 detected by RT-PCR in colonic carcinoma tissues was 40% (8/20) and 45% (9/20) respectively, higher than that in normal tissues. Conclusion: The expression of Sox-2 and Oct-4 in tumor tissue can predict postoperative relapse and metastasis of colon carcinoma.

**Key words:** Colon carcinoma Oct-4 Sox-2 Metastasis Recurrence

收稿日期: 2011-10-15; 出版日期: 2012-05-15

基金资助:

本文课题受河南省卫生厅项目 (编号: 2011020171) 资助

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. 干细胞标志物Oct-4 Sox-2表达与结肠癌术后复发转移的关系[J]. 中国肿瘤临床, 2012, 39(9): 574-577.

. Relationship of Oct-4 and Sox-2 Expression in Colon Carcinoma with Recurrence and Metastasis[J]. Chinese Journal of Clinical Oncology, 2012, 39(9): 574-577.

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[http://118.145.16.228:8081/Jweb\\_zgzhc/CN/doi:10.3969/j.issn.1000-8179.2012.09.022](http://118.145.16.228:8081/Jweb_zgzhc/CN/doi:10.3969/j.issn.1000-8179.2012.09.022) 或 [http://118.145.16.228:8081/Jweb\\_zgzhc/CN/Y2012/V39/I9/574](http://118.145.16.228:8081/Jweb_zgzhc/CN/Y2012/V39/I9/574)

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