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## TTF-1及CK在肺小细胞癌中的表达及预后意义

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### Expression and Prognostic Value of TTF-1 and CK in Small Cell Lung Carcinoma

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**摘要** 研究甲状腺转录因子-1 (thyroid transcription factor-1, TTF-1) 和广谱角蛋白 (pan-cytokeratin, CK) 在肺小细胞癌 (small cell lung carcinoma, SCLC) 中的表达, 初步探讨其作为SCLC预后判断分子标志物的可能性。方法: 收集天津医科大学附属肿瘤医院2006年1月至2008年12月间, 经手术切除、病理证实的SCLC 65例, 采集病例相关临床病理资料。免疫组化EnVision二步法分别检测TTF-1及CK在SCLC中的表达, 并对结果进行分析。结果: TTF-1和CK在SCLC中阳性表达率分别为61.5% (40/65) 和69.2% (45/65)。Kaplan-Meier分析显示, TTF-1表达阳性者预后优于表达阴性者 (Log-rank,  $P=0.012$ )。CK不同表达两组间生存差异无统计学意义。多因素分析显示, TTF-1表达、淋巴结转移、pTNM分期为影响SCLC患者术后生存的预后因素。结论: TTF-1与SCLC预后密切相关, 可能成为SCLC临床预后良好的标志物。CK在判断SCLC预后中的地位尚需进一步探讨。

**关键词:** 肺小细胞癌 甲状腺转录因子-1 广谱角蛋白

**Abstract:** The aims of the current study are to investigate the expression of thyroid transcription factor-1 ( TTF-1 ) and pan-cytokeratin ( CK ) in small cell lung carcinoma ( SCLC ), and to explore the possibility of TTF-1 and CK as prognostic markers of SCLC. Methods: The clinicopathologic data of 65 SCLC patients who underwent total resection in Tianjin Medical University Cancer Hospital between January 2006 and December 2008 were reviewed. The expression of TTF-1 and CK in SCLC tissue specimens were detected using immunohistochemical EnVision indirect method. The relationship between the expression of TTF-1 and CK and the clinico-pathological data was analyzed. Results: The positive rates of TTF-1 and CK in SCLC tissues were 61.5% ( 40/65 ) and 69.2% ( 45/65 ), respectively. Kaplan-Meier analysis showed that the expression of TTF-1 was significantly correlated with the overall survival of patients with SCLC ( log-rank test,  $P = 0.012$  ). Cox multivariate analysis exhibited that TTF-1 expression, nodal metastasis, and tumor node metastasis stage were prognostic factors. Conclusion: The expression of TTF-1 may be positively correlated with the prognosis of SCLC patients. Further studies are needed to evaluate the prognostic value of CK in SCLC.

**Key words:** Small cell lung carcinoma Thyroid transcription factor-1 Pan-cytokeratin

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