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摘要:

目的: 分析口腔鳞状细胞癌组织中血管细胞黏附分子 1 mRNA (vascular cell adhesion molecule 1 mRNA, VCAM-1 mRNA) 的表达与肿瘤相关巨噬细胞 (tumor associated macrophages, TAMs) 计数的关系, 探讨 VCAM-1 mRNA 在口腔鳞癌巨噬细胞浸润、聚集中的作用及意义。【HT5W】方法: 【HT5"SS】收集 1999~2005 年贵阳医学院附属医院口腔颌面外科手术切除的 48 例口腔鳞癌和 10 例正常口腔黏膜标本, 应用分子原位杂交和免疫组化二步法分别检测口腔鳞癌组织中 VCAM 【STBX】1 【STBZ】 mRNA 的表达和 TAMs 的浸润情况, 光镜下进行 VCAM-1 mRNA 表达的分级和 TAMs 计数, 分析 VCAM-1 mRNA 表达和 TAMs 计数与临床病理指标的相关性。【HT5W】结果: 【HT5"SS】口腔鳞癌中 VCAM-1 mRNA 的表达率 (70.83%) 和 TAMs 计数 ( $81.04 \pm 12.00$ ) 显著高于正常口腔黏膜组织 ( $0, 39.80 \pm 7.84$ ;  $P$  均  $< 0.01$ ); 口腔鳞癌中 VCAM 【STBX】1 【STBZ】 mRNA 的表达与巨噬细胞计数呈正相关 ( $P < 0.05$ ), 并与口腔鳞癌的浸润和淋巴结转移相关 ( $P < 0.05$ )。结论: TAMs 在口腔鳞癌中的浸润、聚集可能受到 VCAM 【STBX】1 的调节, 并参与肿瘤的浸润和淋巴结转移。

关键词: [口腔鳞状细胞癌](#) [血管细胞黏附分子 1](#) [肿瘤相关巨噬细胞](#) [肿瘤浸润](#) [淋巴结转移](#)

Expression of vascular cell adhesion molecule 1 mRNA in human oral squamous cell carcinoma and its significance in tumor associated macrophages infiltration/recruitment [Download Fulltext](#)

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Abstract:

Abstract Objective: To investigate the relationship between expression of vascular cell adhesion molecule 1 mRNA (VCAM-1 mRNA) in oral squamous cell carcinoma (OSCC) and tumor associated macrophages (TAMs) count, so as to discuss the role of VCAM-1 mRNA in tumor associated macrophage infiltration/recruitment. Methods: Forty eight samples of OSCC and 10 samples of normal mucous membrane were collected in the Department of Oral and Maxillofacial Surgery, the Affiliated Hospital of Guiyang Medical College from 1999 to 2005. In situ hybridization and immunohistochemistry PV 9000 method were used to examine the expression of VCAM 【STBX】1 【STBZ】 mRNA and TAMs infiltration in OSCC. Expression of VCAM 【STBX】1 【STBZ】 mRNA and TAMs count were examined under light microscope. The correlation of VCAM 【STBX】1 【STBZ】 mRNA expression and TAMs count with clinical pathological parameters were analyzed. 【WTHZ】 Results: 【WTBZ】 The positive rate of VCAM 【STBX】1 【STBZ】 mRNA (70.83%) and TAMs counts ( $81.04 \pm 12.00$ ) in OSCC tissues were significantly higher than those in the normal oral mucosa ( $0, 39.80 \pm 7.84$ ;  $P < 0.01$ ). The expression of VCAM 【STBX】1 【STBZ】 mRNA was positively correlated with TAMs count ( $P < 0.05$ ); it was also related to the infiltration and lymphatic metastasis of OSCC ( $P < 0.05$ ). 【WTHZ】 Conclusion: 【WTBZ】 Infiltration and enrichment of TAMs might be mediated by VCAM 【STBX】1 【STBZ】, and may participate in the tumor infiltration and lymphatic metastasis.

Keywords: [oral squamous cell carcinoma](#) [vascular cell adhesion molecule 1](#) [tumor associated macrophages](#) [tumor infiltration](#) [lymphaden metastasis](#)

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