

## EB病毒LMP1与E-cadherin、ICAM-1在鼻咽癌组织中的表达及其相关性

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### Relationship of EB Virus Latent Membrane Protein 1 and E-cadherin, ICAM-1 in Nasopharyngeal Carcinoma

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**摘要** 目的研究EB病毒潜伏膜蛋白1(LMP1)对鼻咽癌细胞黏附分子E-cadherin和ICAM-1表达的影响,探讨LMP1在鼻咽癌转移中的作用及其相关的机制。方法应用免疫组织化学(SP法)分别检测LMP1、E-cadherin和ICAM-1蛋白在31例鼻咽粘膜慢性炎、32例鼻咽癌和24例鼻咽癌颈部淋巴结转移灶中的表达。结果LMP1和ICAM-1蛋白在鼻咽癌和鼻咽癌淋巴结转移灶中的阳性表达率显著高于在鼻咽粘膜慢性炎组织中的阳性表达率,E-cadherin蛋白在鼻咽癌和鼻咽癌淋巴结转移灶中的阳性表达率则显著低于在鼻咽粘膜慢性炎组织中的阳性表达率。Spearman相关分析显示,在鼻咽癌组织和鼻咽癌淋巴结转移灶中,LMP1与E-cadherin的表达呈负相关,而与ICAM-1的表达呈正相关。结论在鼻咽癌和鼻咽癌颈部淋巴结转移灶中LMP1可能通过抑制E-cadherin的表达和促进ICAM-1的表达进而影响肿瘤细胞的黏附性,促进鼻咽癌的侵袭和转移。

**关键词:** 鼻咽癌 LMP1 E-cadherin ICAM-1 细胞黏附 肿瘤转移

**Abstract:** Objective To investigate the effect of Epstein Barr virus(EBV) latent membrane protein 1 (LMP1) on expression of E cadherin and ICAM 1 in nasopharyngeal carcinoma (NPC) and their relative role and metastasis mechanism in NPC.Methods The expression of LMP1,E cadherin and ICAM 1 protein in thirty one cases of chronic nasopharyngitis,thirty two cases of NPC and twenty four cases of lymph nodes with NPC metastases was detected by SP immunohistochemistry.Results The expressions rates of LMP1 and ICAM 1 in NPC and lymph nodes with NPC metastases were obviously higher than those in chronic nasopharyngitis,while those of E cadherin in NPC and lymph nodes with NPC metastases were obviously lower than in chronic nasopharyngitis.Spearman correlation analysis showed a significant negative correlation between the expression of LMP1 and E cadherin in both NPC and lymph nodes with NPC metastases and a significant positive correlation between the expression of LMP1 and ICAM 1.Conclusion It is suggested that in NPC and lymph nodes with NPC metastases,LMP1 may affect the cell adhesion and accelerate the invasion and metastasis of NPC by inhibiting the expression of E cadherin and increasing the expression of ICAM

**Key words:** Nasopharyngeal carcinoma LMP1 E-cadherin ICAM-1 Cell adhesion Tumor metastasis

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