

PTTG和bFGF 在非霍奇金淋巴瘤中的表达

李科³, 钟美佐, 李建璜, 余兴

410008 长沙, 中南大学湘雅医院肿瘤化疗科 (3 现工作单位: 云南省肿瘤医院肿瘤化疗研究中心)

Expression of PTTG and bFGF in Non-Hodgkin's Lymphoma

Li Ke³, Zhong Meizuo, Li Jianhuang, Yu Xing

Department of Oncology Chemotherapy, Xiangya Hospital of Central South University, Changsha 410008, China (3 Present: Center of Cancer Chemotherapy, The Tumor Hospital of Yunnan Province)

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摘要 目的 研究垂体肿瘤转化基因(PTTG)和碱性成纤维细胞生长因子(bFGF)在非霍奇金淋巴瘤中的表达及其意义。方法 应用原位杂交法和免疫组化法分别检测50例NHL患者和20例良性淋巴腺瘤中PTTG mRNA及其蛋白、bFGF蛋白的表达。结果 PTTG mRNA及其蛋白在NHL中的阳性表达率分别为54.0%(27/50)和50.0%(25/50),均高于对照组;bFGF蛋白在NHL中的阳性表达率为50.0%(25/50),高于对照组;PTTG mRNA及其蛋白、bFGF蛋白均与NHL的恶性程度及临床分期呈正相关关系;PTTG mRNA与其蛋白表达,与bFGF蛋白表达均呈等级正相关;与近期疗效呈负相关关系。结论 PTTG或bFGF可能与NHL生物学行为有关,PTTG可能通过直接或间接方式促进bFGF表达,参与NHL的发生、发展。

关键词: 非霍奇金淋巴瘤 垂体肿瘤转化基因 碱性成纤维细胞生长因子 原位杂交 免疫组化

Abstract: Objective To investigate the expression of PTTG and bFGF in non-Hodgkin's lymphoma and their significances. Methods Fifty cases of NHL and twenty cases of benign lymphadenopathy were studied. PTTG expression was measured at mRNA level by in-situ hybridization; PTTG and bFGF expression were measured at protein level by immunohistochemistry. Results Positive expression rate of PTTG mRNA and its protein in NHL was 54.0%(27/50) and 50.0%(25/50), respectively. Positive expression of them in NHL were significantly higher than those in the control group. Positive expression rate of bFGF protein in NHL was 50.0%(25/50). Positive expression of bFGF protein in NHL was significantly higher than those in the control. All expression grade of PTTG mRNA and its protein, expression grade of bFGF protein were positively related to tumor histopathologic grade and clinical stage, respectively. Expression of PTTG mRNA was positively related to the expression grade of PTTG and bFGF protein. There were both negative correlation between expression of PTTG mRNA and NHL recent effects; expression of bFGF protein and NHL recent effects. Conclusion There was overexpression of PTTG and bFGF in NHL. Expression grade of PTTG or bFGF was related to NHL's clinicopathological parameters. PTTG might play an important role in the formation and development of NHL by means of increasing expression of bFGF directly or indirectly.

Key words: Non-Hodgkin's lymphoma Pituitary tumour transforming gene Basic fibroblast growth factor In-situ hybridization Immunohistochemistry

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