



免疫蛋白酶体亚基在干燥综合征唇腺中的表达

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Expression of Proteasome Immunsubunit in Labial Glands of Patients with Primary Sjogren's Syndrome

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摘要

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摘要 目的 观察免疫蛋白酶体亚基低分子量多肽(LMP) 2、LMP7在干燥综合征(pSS)患者唇腺中的表达情况, 探讨其在pSS诊断、鉴别诊断和发病机制中的作用。**方法** 收集40例pSS患者、15例非pSS的结缔组织病患者和9例正常人的下唇腺组织标本, 通过免疫组织化学方法, 观察LMP2和LMP7在3组唇腺组织中的表达情况; 计算腺泡阳性率, 半定量分析LMP2和LMP7在各组唇腺组织中的表达强度。对数据进行平方根反正弦转换后, 采用单因素方差分析比较3组间的LMP2和LMP7的腺泡阳性率差异, 用Spearman进行pSS组的腺泡阳性率与各临床检查结果的相关性分析。**结果** LMP2和LMP7表达在腺泡细胞和导管上皮细胞。LMP2的腺泡阳性率3组间差异无统计学意义($P=0.369$), LMP7的腺泡阳性率3组间差异均有统计学意义($P<0.01$), pSS组高于结缔组织病组, 结缔组织病组高于正常组; 仅pSS组内的LMP7的腺泡阳性率高于LMP2($P<0.01$)。pSS组内LMP2和LMP7腺泡阳性率与临床各检验结果无相关性($P>0.05$)。**结论** pSS患者唇腺中LMP7的表达明显增强, LMP2无明显上调, 提示LMP7和LMP2两亚基的个体基因调节机制不同。

关键词: 干燥综合征 蛋白酶体 涎腺

Abstract: Objective To investigate the expression of proteasome immunsubunit low molecular weight polypeptide (LMP)2 and LMP7 in labial glands of patients with primary Sjogren's syndrome patients, and thus explore their role in the diagnosis, differential diagnosis and pathogenesis of primary Sjogren's syndrome (pSS). Methods Labial specimens were collected from 40 patients with pSS, 15 patients with connective tissue diseases other than pSS, and 9 healthy controls. The expressions of LMP2 and LMP7 in labial specimens were determined using immunohistochemical approaches and analyzed using semi-quantitative methods. The positive rate of acinar was calculated. After the square arcsine transformation of data, the differences of the positive rate in acinar between LMP2 and LMP7 were compared among three groups. Spearman's rank correlation coefficient was used for analyzing the correlation of clinical manifestations with LMP2 and LMP7 expressions. Results The expressions of LMP2 and LMP7 within the acinar and ductal epithelial cells were confirmed. Although the LMP2 expression in labial specimens was not significantly different among three groups ($P=0.369$), the expression of LMP7 was significantly higher in pSS patients compared with patients with connective tissue disease and healthy controls ($P<0.01$). Only in pSS group, LMP7 was found to be with higher positive rate in acinar than LMP2 ($P<0.01$). No significant correlation was found between LMP2/LMP7 and clinical manifestations ($P>0.05$). Conclusion In patients with pSS, the expression of LMP7 (but not LMP2) is up-regulated in labial gland, indicating these two proteins have different genetic regulation mechanisms.

Keywords: primary Sjogren's syndrome proteasome salivary glands

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