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摘要:

目的探讨乙型肝炎病毒(HBV)感染状态下树突状细胞(DCs)的免疫功能。方法运用荧光定量聚合酶链反应(PCR)法,对12例慢性乙型肝炎血清HBV DNA阳性及10例血清HBV DNA阴性患者外周血来源DCs内的HBV DNA进行检测,并比较不同HBV滴度时DCs分泌白细胞介素(IL)-12的功能,同时收集肝炎病毒标志物阴性,肝功能正常的健康志愿者10例作对照。结果12例血清HBV DNA阳性患者中有7例DCs内可检测到HBV DNA,检出率为58.33%。血清HBV DNA阳性组DCs培养上清IL-12水平明显低于血清HBV DNA阴性组及对照组(均P<0.01);而IL-12的表达水平在DCs HBV DNA阳性组明显低于DCs HBV DNA阴性组及对照组(均P<0.01)。结论慢性乙型肝炎患者外周血DCs亦能受到HBV的感染,感染了HBV的DCs,其IL-12分泌功能明显下降。

关键词: 肝炎,乙型,慢性; 肝炎病毒,乙型; 树突状细胞; 白细胞介素; IL-12

Function of dendritic cell to secrete interleukin-12 in patients with chronic hepatitis BXIANG Ying¹, FAN Xue gong¹, HUANG Zhen yu², LI Ning¹

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Abstract:

[Abstract] Objective To study the immune function of dendritic cell (DCs) in HBV infected patients. Methods HBV DNA in DCs of 12 chronic hepatitis B (CHB) patients with serum positive HBV DNA and 10 CHB patients with serum negative HBV DNA were detected by fluorescent quantitative polymerase chain reaction, the function of secreting interleukin-12(IL-12) by DCs under different titers of HBV was compared, 10 persons with negative HBV markers and normal liver function were as control. Results HBV DNA in DCs was detected in 7 of 12 (58.33%) CHB patients with positive HBV DNA. The levels of IL-12 in DCs supernatants of serum positive HBV DNA group were obviously lower than that of HBV DNA negative and healthy control group (both P<0.01); The expression levels of IL-12 in DCs HBV DNA positive group was obviously lower than that of DCs HBV DNA negative group and healthy control group (both P<0.01). Conclusion The DCs derived from peripheral blood in patients with CHB can be infected by HBV, the secretion function of IL-2 by HBV infected DCs decreased significantly.

Keywords: hepatitis B, chronic; hepatitis B virus, chronic; dendritic cells interleukin; interleukin-12

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