

论著

血吸虫病肝纤维化患者转化生长因子β₁mRNA的水平及其临床意义

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摘要

目的: 研究血吸虫病患者 T G F β₁ m R N A 水平及其临床意义。方法: 用 R T P C R 加 d o t b l o t 法测定血吸虫病患者 P B M C 中 T G F β₁ m R N A 水平, 与肝硬变和肝癌患者作比较, 并研究了部分肝脏组织 (肝癌患者 1 6 例, 肝血管瘤患者正常肝组织 5 例) 中 T G F β₁ m R N A 水平与 P B M C 中水平的关系。同时, 测定血清中 H A、L N、C o l I V 和 P C I I I 水平, 作为衡量肝纤维化活动与否的指标。结果: P B M C 内 T G F β₁ m R N A 水平在晚期血吸虫病患者组 (n = 2 1, 1.26 ± 0.14), 肝硬变患者组 (n = 15, 2.05 ± 0.81) 和肝癌患者组 (n = 25, 1.83 ± 1.29) 均显著高于正常对照组 (n = 16, 0.62 ± 0.40) (P < 0.05)。其中晚期血吸虫病患者组又显著低于肝硬变患者组或肝癌患者组 (P < 0.05), 后两组差异无显著性 (P > 0.05)。肝组织与 P B M C 内 T G F β₁ m R N A 水平差别无统计学意义 (P > 0.05)。血清 H A、C o l I V 和 L N 异常组的 T G F β₁ m R N A 水平显著高于正常组 (P < 0.05)。结论: P

关键词 [转化生长因子β1](#) [血吸虫病](#) [PBMC](#)

分类号

CHANGES IN TRANSFORMING GROWTH FACTOR β₁ mRNA AND ITS CLINICAL VALUE IN PATIENTS WITH SCHISTOSOMAL LIVER FIBROSIS

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Abstract

AIM: To explore the changes in TGF β₁ mRNA in patients with schistosomal liver fibrosis. METHODS: Reverse transcription polymerase chain reaction and dot blot analysis were used to determine the level of TGF β₁ mRNA in PBMC. The serum levels of hyaluronic acid, type IV collagen, laminine and procollagen III peptide were also measured simultaneously. RESULTS: The mean level (m ± s) of PBMC TGF β₁ mRNA was significantly higher in late stage schistosomiasis group (LSS) (1.26 ± 0.14), liver cirrhosis group (LC) (2.05 ± 0.81) and hepatocellular carcinoma group (HCC) than that in control group (0.62 ± 0.40) (P < 0.05). PBMC TGF β₁ mRNA level was higher in LC and HCC than that in LSS (P < 0.05). No significant difference was found in TGF β₁ mRNA between PBMC and liver tissue in patients with HCC. All patients with increased fibrogenic activity (i.e., abnormal levels of serum HA, Col IV and LN) had increased levels of TGF β₁ mRNA. CONCLUSION: The level of TGF β₁ mRNA is correlated with the fibrotic activity of liver, the increasement of TGF β₁ mRNA in schistosomiasis patients after praziquantel treatment might induce liver fibrosis.

Key words [Transforming growth factor β₁](#) [schistosomiasis japonica](#) [PBMC](#)

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