

论著

脾切除对门脉高压症大鼠CD4、CD8和脾功能的影响

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摘要 目的: 研究肝硬化门脉高压症(PHT)大鼠脾次全切除术后CD4、CD8与脾功能的变化。方法: 皮下注射60%四氯化碳复制大鼠肝硬化模型。共分5组: 正常大鼠组、肝硬化(PHT)组、正常大鼠脾切除组、PHT全脾切除组、PHT脾次全切除组, 每组10只。手术后第4周检测各组血常规、肝功能、tuftsin、CD4、CD8等指标。结果: PHT高压症大鼠脾切除术后tuftsin水平 [(171±21) ng/L vs (433±44) ng/L, P<0.01]、CD4/CD8 (2.01±0.22 vs 1.12±0.12, P<0.01)均显著低于PHT组; PHT大鼠脾次全切除组tuftsin [(434±42) ng/L vs (171±21) ng/L, P<0.01]、CD4/CD8 (1.97±0.18 vs 1.12±0.12, P<0.01)显著高于PHT大鼠脾切除组。肝功能两者无显著差异(P>0.05)。结论: PHT脾次全切除大鼠术后免疫和脾功能比PHT脾全切除大鼠明显改善, 肝功能两者无显著变化。

关键词 [肝硬化](#) [高血压症](#) [门静脉](#) [脾切除术](#) [免疫功能](#)

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Effects of splenectomy on CD4+ , CD8+ and spleen function in cirrhotic rats with portal hypertension

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Abstract

AIM: To investigate the effect of subtotal splenectomy on the expression of CD4+、CD8+ and tuftsin in cirrhotic rats with portal hypertension (PHT).
METHODS: Rats liver cirrhosis was induced by subcutaneous injection of 40% CCl4. Fifty rats were randomly divided into five groups (n=10). Group A: control rats; group B: PHT rats; group C: normal rats with total splenectomy; group D: PHT with total splenectomy and group E: PHT with subtotal splenectomy. The hepatic function, the expression of CD4+, CD8+, the ratio of CD4+ to CD8+ and tuftsin were analyzed at the fourth week after treatment.
RESULTS: The expression of tuftsin, the ratio of CD4+ to CD8+ was significantly decreased in PHT rats with total splenectomy compared with PHT rats [(171±21) ng/L vs (433±44) ng/L, P<0.01; (2.01±0.22 vs 1.12±0.12), P<0.01]. In the group of PHT rats with subtotal splenectomy, the expression of tuftsin, the ratio of CD4+ to CD8+ was higher than those in the PHT rats with total splenectomy [(434±42) ng/L vs (171±21) ng/L, P<0.01; (1.97±0.18 vs 1.12±0.12, P<0.01], however, the hepatic function was not show difference (P>0.05).
CONCLUSION: Spleen and immune function is significantly improved in PHT rats after subtotal splenectomy, but the hepatic function is not changed significantly.

Key words [Liver cirrhosis](#) [Hypertension](#) [portal](#) [Splenectomy](#) [Immune function](#)

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