

小鼠慢性病毒性肝炎诱发肝脂肪变性模型的构建 ([点击查看pdf全文](#))

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Title: Establishment of a murinemodel of hepatic steatosis induced by chronic viral hepatitis

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摘要: 目的用小鼠肝炎病毒MHV-A59感染C57BL/6小鼠, 建立慢性病毒性肝炎诱发肝脂肪变性的动物模型。方法C57BL/6小鼠随机分为对照组、高脂组、病毒组和高脂病毒组。实验第13周末取血清检测MHV抗体、脂质和转氨酶; 小鼠肝脏冰冻切片进行油红O染色, 石蜡切片进行HE染色, 观察各组肝组织改变状况。结果病毒组与高脂病毒组血清MHV抗体强阳性; 与对照组相比, 3个处理组的AST、ALT明显增高, TC和LDL-C均有不同程度增高; 病毒组与高脂病毒组的肝组织表现出慢性病毒性肝炎的病理特征, 肝细胞内脂质蓄积增多。结论通过感染MHV-A59病毒, 成功建立了慢性病毒性肝炎诱发肝脂肪变性的动物模型, 为进一步研究慢性病毒性肝炎诱发肝脂肪变性的机制提供了基础。

Abstract: ObjectiveTo establish a animal model of hepatic steatosis induced by chronic viral hepatitis in C57BL/6mice. MethodsC57BL/6 mice were randomly assigned to control group, high-fat diet group, mouse hepatitis virus strain A59 (MHV-A59) virus infection group, and high-fat diet plus virus infection group. At13weeks of the experiment, serum samples were collected to detect MHV antibodies and transaminase and lipid levels. The hepatic pathologies of the mice were examined with Oil red O staining of the frozen sections the and HE staining of paraffin-embedded sections.ResultsThe mice in the two virus infection groups showed strong positivity of MHV antibodies in the serum. Compared with the control group, the mice in high-fat diet group and the two virus infection groups had significantly increased AST and ALT levels with also elevated TC and LDL-C levels. The two virus infection groups both exhibited obvious pathologies in the liver characteristic of chronic viral hepatitis with increased lipid accumulation in the hepatocytes.ConclusionWe have successfully established a mouse model of hepatic steatosis induced by chronic viral hepatitis, which provides the basis for further study of the disease

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mechanism.

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