

Immunohistochemical Study of Hepatitis Associated Bile Duct Damage in Chronic Hepatitis C, Contrasted with Chronic Bile duct Damage of Primary Biliary Cirrhosis

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1996 Fiscal Year Final Research Report Summary

Immunohistochemical Study of Hepatitis Associated Bile Duct Damage in Chronic Hepatitis C, Contrasted with Chronic Bile duct Damage of Primary Biliary Cirrhosis

Research Project

Project/Area Number

07670197

Research Category

Grant-in-Aid for Scientific Research (C)

Allocation Type

Single-year Grants

Section

一般

Research Field

Human pathology

Research Institution

Kanazawa University

Principal Investigator

HOSO Masahiro Kanazawa University School of Medicine, 2nd Department of Pathology, Assistant Professor, 医学部, 講師 (20219182)

Co-Investigator(Kenkyū-buntansha)

SASAKI Motoko Kanazawa University School of Medicine, 2nd Department of Pathology, Assistant P, 医学部, 講師 (70225895)

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Keywords

PBC / chronic hepatitis C / hepatitis associated bile duct damage / aly / aly mouse

Research Abstract

We investigated histologically and immunohistochemically the differences between hepatitis associated bile duct damage in chronic hepatitis C and chronic non-suppurative destructive cholangitis in primary biliary cirrhosis. Histologically, the former was associated with formation of lymphfollicles, in contrast, the latter was associated with eosinophilic infiltration and granulomatous reaction. Immunohistochemically, the expression profile of apomucins (MUC1, MUC2, MUC3 and MUC5/6) and cytokines (IL-1 alpha, IL-1 beta, IL-2, IL-4, IL-5, IL-8, IFN gamma, TNF alpha, TNF beta) showed differences and similarities respectively. The results suggested the different sequence in the two types of bile duct damage.

Recently, we experienced an autosomal recessive mutant mouse named *aly/aly* mouse that lacks systemic lymph nodes and also a variable lymphoid cell infiltration with lymph follicles formation in the portal tract, and variable damages in the intrahepatic biliary epithelial cells including pseudopyloric gland metaplasia and proliferative changes. Some of these lesions were reminiscent of primary biliary cirrhosis. In addition, extrahepatic bile duct and intrahepatic large bile duct contained acidophilic substance in their epithelial cytoplasm. *Aly/aly* mouse may be a good animal model to analyze the metabolism of the biliary substances, and immune-mediated bile duct damages may be produced in this model by immunological modulations. So we go on the investigation.

Research Products (7 results)

All Other

All Publications (7 results)

[Publications] Masahiro Hoso, et. al.: "Granulomatous chnolangitis in chronic hepatitis C : A new diagnostic problem in liver pathology" Pathology International. 46. 301-305 (1996) ▼

[Publications] Motoko Sasaki, et. al: "Frequent expression of MUC1. apomucin on biliary epithelial cells of damaged small bile ducts in primary biliary cirrhosis and chronic viral hepatitis an immunohistochemical study" Hepatology. 23. 1313-1317 (1996) ▼

[Publications] M.Sasaki, Y.Nakanuma, T.Terada, Y.S.Kim: "Biliary epithelial expression of MUC1, MUC2, MUC3 and MUC5/6 apomucins during intrahepatic bile duct development and maturation" Am J Pathol. 147. 574-579 (1995) ▼

[Publications] T.Sanzen, K.Yoshida, M.Sasaki, T.Terada, Y.Nakanuma: "Expression of glycoconjugates during intrahepatic bile duct development in the rat : An immunohistochemical and lectin-histochemical study" Hepatology. 22. 944-951 (1995) ▼

[Publications] Y.Nakanuma, K.Tsuneayama, N.Kono, M.Hoso, J.Van de Water, ME.Gershwin: "Biliary epithelial expression of pyruvate dehydrogenase complex in primary biliary cirrhosis : An Immunohistochemical and immunoelectron microscopic study" Hum Pathol. 26. 92-98 (1995) ▼

[Publications] M.Sasaki, Y.Nakanuma: "Frequent expression of MUC1 apomucin on biliary epithelial cells of damaged small bile ducts in primary biliary cirrhosis and chronic viral hepatitis : An immunohistochemical study" Hepatology. 23 (6). 1313-1317 (1996) ▼

[Publications] M.Hoso, Y.Nakanuma, M.Kawano, K.Oda, K.Tsuneayama, J.V.de Water, M.E.Gershwin: "Granulomatous cholangitis in chronic hepatitis C : A new diagnostic problem in liver pathology" Pathol Int.46(4). 301-305 (1996) ▼

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