

Clinical and pathological study on the hyperbaric oxygenation treatment of chronic hepatitis

Wei Zhao, Wei Liu

Wei Zhao, Department of Medicine, Nanjing Second Hospital, Nanjing 210003, Jiangsu Province, China

Wei Liu, Department of Pathology, Nanjing Second Hospital, Nanjing 210003, Jiangsu Province, China

Author contributions: All authors contributed equally to the work.

Supported by The Youth Natural Scientific Foundation of Nanjing, No. 982184.

Correspondence to: Dr. Wei Zhao, Department of Medicine, Nanjing Second Hospital, Zhongfu Road 1.1, Nanjing 210003, Jiangsu Province, China
Telephone: +86-25-3437440
Fax: +86-25-3439755

Received: July 11, 1999
Revised: October 10, 1999
Accepted: February 18, 2000
Published online: September 15, 2000

Abstract

AIM: To study the effect and alteration of hepatic blood flow as well as ultrastructure of hepatic tissue in chronic cholestatic hepatitis after hyperbaric oxygenation (HBO).

METHODS: Using the hepatic rheometer and Doppler B-mode

ultrasound equipment, the contractive wave of hepatic blood flow and blood flow of portal vein were tested; the biochemistry, immunohistochemistry and ultrastructure of hepatic tissue were determined and served as the evaluating indexes.

RESULTS: After the HBO treatment, the contractive wave of hepatic blood-flow in 76% patients and blood of right portal vein in 70% patients were increased, the improvement of serum ALT and BILI was 88.9% and 93.3% respectively. In addition, the swelling mitochondria, cholestasis of hepatic cells and capillaries reduced obviously; Kupffer's cells decreased. There was significant difference ($t = 2.85, P < 0.05$) before and after HBO treatment.

CONCLUSION: It is suggested that the HBO could increase the blood flow of portal vein and arteries, improve the hepatic function, cholestasis and inflammation.

Key words: Hyperbaric oxygenation; Hepatitis liver; Ultrastructure

© The Author(s) 2000. Published by Baishideng Publishing Group Inc. All rights reserved.

Zhao W, Liu W. Clinical and pathological study on the hyperbaric oxygenation treatment of chronic hepatitis. *World J Gastroenterol* 2000; 6(Suppl3): 132
Available from: URL: <http://www.wjgnet.com/1007-9327/full/v6/iSuppl3/132.htm> DOI: <http://dx.doi.org/10.3748/wjg.v6.iSuppl3.132>

E- Editor: Zhang FF



Published by **Baishideng Publishing Group Inc**

8226 Regency Drive, Pleasanton, CA 94588, USA

Telephone: +1-925-223-8242

Fax: +1-925-223-8243

E-mail: bpgoffice@wjgnet.com

Help Desk: <http://www.wjgnet.com/esps/helpdesk.aspx>

<http://www.wjgnet.com>

