



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

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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

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