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Summary

POSSIBLE REGENERATIVE EFFECT OF PURIFIED PLATELET DERIVED GROWTH FACTORS ON AN EXPERIMENTALLY INDUCED MODEL OF LIVER CIRRHOSIS

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UEG Week Copenhagen 2023 | Poster

Hepatobiliary

October 15, 2023

A mouse study evaluated purified platelet-derived growth factors as a potential regenerative therapy for experimentally induced liver cirrhosis.

KEY POINTS

- Twenty-eight mice were divided into four groups including normal controls, purified platelet-derived growth factors alone, thioacetamide-induced cirrhosis, and combined treatment for eight weeks
- In mice receiving both thioacetamide and purified platelet-derived growth factors, cirrhotic livers regenerated back into normal-appearing parenchyma compared to the pathological control group
- Treatment with purified platelet-derived growth factors significantly decreased ALT, AST, and total bilirubin levels (P<0.001) and significantly down-regulated hepatic Alpha-SMA expression (P<0.001)
- The authors conclude that purified platelet-derived growth factors prepared by a patented method may represent a new therapeutic approach for liver cirrhosis based on these experimental findings

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