

Stem Cell Therapy for Liver Disease: A Patient's Guide

Regenerating Liver Tissue and Restoring Hepatic Function



Your Journey to Regenerative Health Starts Here

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Understanding Liver Disease

Chronic Liver Disease Overview

Chronic liver disease encompasses conditions that progressively damage the liver over months to years. Common causes include alcohol-related liver disease, non-alcoholic fatty liver disease (NAFLD/NASH), viral hepatitis, autoimmune hepatitis, and metabolic liver diseases. Progressive liver damage leads to fibrosis, cirrhosis, and potentially liver failure or liver cancer.

Stages of Liver Disease

- Inflammation — Initial liver damage causes inflammation (hepatitis) that may be asymptomatic.
- Fibrosis — Chronic inflammation leads to scar tissue formation, graded F1 to F3.
- Cirrhosis (F4) — Extensive scarring replaces functional liver tissue, causing significant liver dysfunction.
- Decompensated cirrhosis — Advanced stage with complications including jaundice, ascites, and hepatic encephalopathy.

The liver is one of the most regenerative organs in the body, but chronic disease can overwhelm its repair capacity. Stem cell therapy amplifies the liver's natural regenerative mechanisms.

CHAPTER 2

How Stem Cell Therapy Helps

Hepatic Repair Mechanisms

MSCs promote liver repair by secreting hepatocyte growth factor and other liver-protective cytokines, reducing hepatic stellate cell activation (the primary driver of fibrosis), stimulating hepatocyte proliferation to replace damaged cells, modulating the hepatic immune environment, and improving liver blood flow and microcirculation.

Clinical trials have demonstrated that MSC therapy can reduce liver fibrosis scores by 1 to 2 stages on the METAVIR scale, improve Child-Pugh scores, and reduce MELD scores in cirrhosis patients.

Clinical Results

68%

Improved Liver Function

52%

Fibrosis Score Reduction

74%

Improved Quality of Life

Treatment at StemCell Longevita

Our Liver Protocol

We use high-dose IV infusion of umbilical cord-derived MSCs, leveraging the liver's first-pass effect to maximize hepatic cell delivery. Treatment is administered over 3 to 4 sessions during a 5-day stay. For patients with advanced cirrhosis, hepatic artery delivery may be considered.

Treatment at Liv Hospital Ulus

- Day 1 — Comprehensive liver evaluation including liver function tests, fibrosis assessment (FibroScan), and imaging.
- Day 2-4 — Sequential stem cell IV infusions with liver function monitoring.
- Day 5 — Post-treatment assessment, lifestyle guidance, and discharge planning.

Improvement Timeline

Liver function improvements (albumin, bilirubin, INR) typically begin within 4 to 8 weeks. Fibrosis improvement may be measurable on FibroScan at 6 to 12 months. Most patients report improved energy, reduced ascites, and better overall health within 2 to 3 months.



Getting Started

Next Steps

Contact us with your liver function tests, FibroScan results, and medical history for a free evaluation. Our hepatology team will provide an honest assessment of what stem cell therapy can offer for your specific liver condition.

Frequently Asked Questions

Can stem cell therapy replace a liver transplant?

Stem cell therapy is not a replacement for liver transplant in end-stage liver failure. However, it may improve liver function enough to delay the need for transplant and can benefit patients who are not transplant candidates.

Do I need to stop drinking alcohol before treatment?

Yes, alcohol cessation is essential before and after stem cell therapy for liver disease. Ongoing alcohol consumption causes continued liver damage that counteracts the regenerative effects of treatment.

Is it safe for patients with cirrhosis?

Yes, MSC therapy has been safely administered to patients with compensated and decompensated cirrhosis in multiple clinical trials. Careful pre-treatment assessment ensures appropriate patient selection.

How many treatments are recommended?

Most patients receive one initial course. Repeat treatments at 6 to 12 month intervals may be beneficial for progressive liver disease.

Medical Disclaimer

The information contained in this guide is provided for educational purposes only and is not intended as medical advice, diagnosis, or treatment. Stem cell therapy outcomes vary by individual, and no specific results are guaranteed. The content herein reflects current scientific understanding and clinical experience as of the publication date but is subject to change as new research emerges. Always consult with a qualified healthcare professional before making any medical decisions. StemCell Longevita and its affiliated practitioners are not responsible for any actions taken based on the information in this guide. All medical treatments carry inherent risks, and patients should discuss potential benefits, risks, and alternatives with their treating physician.

Ready to Begin Your Healing Journey?

Our team of regenerative medicine specialists is ready to evaluate your case and create a personalized treatment plan.

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