

# Stem Cell Therapy for Liver Failure, Cirrhosis and Hepatitis



**STEM CELL™**  
INTERNATIONAL

**R3 Stem Cell International R3Stem.com +1 (888) 988-0515**  
*Changing Lives Every Day!*

# Overview of the Liver Failure Process

The liver is a lot more important than most people realize. It's the heaviest organ in the body and makes clotting factors, metabolizes fats, proteins and carbohydrates, stores glycogen, produces bile and detoxifies the blood. Any number of medical conditions may lead to liver failure such as:

- Hepatitis Infection
- Immune System issue such as cholangitis
- Genetic condition (e.g. Wilson's Dz, Hemochromatosis)
- Liver Cancer
- Chronic Alcohol Abuse
- Certain Prescription Medicines

When one's liver function is significantly impaired, the disease

progresses from inflammation to fibrosis, then cirrhosis and end stage failure. Traditional treatments for liver failure include various supportive medications, lifestyle changes, and a liver transplant as a last resort.

## **Stem Cell Therapy for Liver Failure, Cirrhosis and Hepatitis**

Stem cell therapy for liver disorders has been looked at extensively over the past decade. Not only has the stem cell transplants been shown to be incredibly safe, but also extremely effective for improving patient's quality of life and liver function.

A literature review in 2019 clearly indicated





that stem cells play a key role in hepato-protection process by some mechanisms involving anti-inflammatory, auto-immune-suppression, angiogenesis and anti-apoptosis.

A 2012 study out of Beijing looked at 43 liver failure patients who received umbilical cord mesenchymal stem cells three times over three months. The treated patients showed increased serum albumin, cholinesterase and prothrombin activity along with increased platelet counts. Standard liver labs improved tremendously along with survival rates.

A 2015 review study looked at over a dozen clinical trials using stem

cells for liver failure. No significant complications occurred in any of the studies, and significant improvements were seen in 11 out of the 12 studies. Most of the studies used an intravenous infusion for the stem cell administration.

At R3 Stem Cell International, all types of liver failure are treated with umbilical cord stem cell therapy. Typical treatment includes anywhere from 50 million to 200 million stem cells, depending on the patient's disease severity and weight. The results have been stellar for all types of liver failure, and extremely safe for patients as well!

#### **References**

Current Medical Chemistry 2019  
Stem Cells Translational Medicine 2012  
World Journal of Gastroenterology 2015



# Frequently Asked Questions



## **Q What Kind of Stem Cells are used and how many?**

R3 does NOT use embryonic stem cells (ESCs) or induced pluripotent stem cells (iPSCs) for treatments, as they are not ready for clinical use due to potential risks. R3 International uses biologics that contain mesenchymal and hematopoietic stem cells. Not only are they safe for patients, they are also effective for many conditions.

## **Umbilical Cord Stem Cells –**

Umbilical cord (UC) tissue is an amazing source of active, potent mesenchymal stem cells along with many other regenerative elements. R3 International offers UC treatments from 5 million stem cells up to a BILLION stem cells! They come from donor tissue after a scheduled c-section with no harm to baby or mother, and



are processed at accredited labs that are cGMP compliant and ISO certified.

**Exosomes** – These are small extracellular vesicles that are by products of umbilical cord stem cells. Active in cell to cell communication, they facilitate repair and regeneration. R3 incorporates exosomes frequently into patient treatments.

**Autologous Adipose** – Some R3 International Centers offer stem cell therapy using a patient's own adipose (fat) tissue. Adipose tissue contains plentiful stem cells, exosomes, growth factors, secretomes and other regenerative elements. This is typically performed in conjunction with umbilical cord stem cell treatment.

### **Q Are there risks involved?**

Stem cell and exosome procedures at R3 International are very safe. To date, no patients have experienced a significant adverse event such as disease transmission, deep infection, or rejection reaction. The vast majority of side effects have been mild and temporary.

However, any regenerative procedure with donor material entails risks which may include infection, rejection, allergic reaction, nausea, dizziness, fever, bleeding and others.

### **Q What are the outcomes?**

After nine years and 16,000 stem cell procedures worldwide, R3 consistently achieves an 85% overall success rate. This includes patients with very difficult conditions.

Patients need to understand that stem cell therapy is not a cure for a condition, rather, typically very effective at modifying and/or mitigating disease. It may need to be repeated as well, as patients are different in their response



# Safe, Effective Treatment with R3 Stem Cell International

R3 Stem Cell International takes great pride in helping patients with safe, effective regenerative therapies that are nonsurgical and drug-free. Treatment protocols are customized to each patient's specific needs, with an unparalleled combination of excellent outcomes, safety and cost effectiveness.

Most stem cell clinics do not understand that high cell counts are critical to patient success. If they do, then the treatment pricing ends up being 2-3 times higher than R3 because of the biologic cost. They simply do not have the volume to produce quality biologics with high cell counts at affordable pricing. R3 has spent the last decade growing its patient base worldwide to develop the buying power so that the best biologics are offered with considerable savings. Our mission has always been to offer the most

effective stem cell and exosome therapies without having finances get in the way.

By offering high cell counts at extremely competitive pricing, R3 provides patients with the absolute best chance of improvements, while doing its best to make the treatments affordable. R3 leverages its global volume to make its first rate stem cell treatments the most cost effective anywhere in the world, while maintaining quality assurance second to none!

We use best practice protocols developed from our own clinical experience as well as the peer reviewed literature to stay on the cutting edge of regenerative therapies. Rest assured that when you receive treatment with R3 Stem Cell International, you and your loved ones will be in the best hands!



# Partial List of Conditions Treated at R3 Stem Cell International



- Alzheimer's Disease
- Amyotrophic Lateral Sclerosis (ALS)
- Ankylosing Spondylitis
- Anti Aging
- Arthritis & Joint Pain
- Autism
- Back Pain
- Cerebral Palsy
- Chronic Kidney Disease
- Cirrhosis
- COPD
- Crohn's Disease
- Degenerative Disc Disease
- Diabetes
- Erectile Dysfunction
- Failed Back Surgery
- Fibromyalgia
- Heart Failure
- Hepatitis
- Inflammatory Bowel Disease
- Kidney Failure
- Liver Failure
- Lung Disease
- Lupus
- Lyme Disease
- Neuropathy
- Multiple Sclerosis
- Muscular Dystrophy
- Osteoarthritis
- Parkinson's Disease
- Post Concussion Syndrome
- Post Covid
- Psoriasis
- Pulmonary Fibrosis
- Rheumatoid Arthritis
- Scleroderma
- Spinal Cord Injury
- Spinal Muscular Atrophy
- Stroke
- Traumatic Brain Injury
- Ulcerative Colitis

# Getting Started



Starting the process for treatment at R3 Stem Cell International is easy. You can visit **R3Stem.com** to see the various locations available and complete your consultation request, or also call us at

**+1 (888) 988-0515**

Each prospective patient undergoes a virtual consultation with one of our highly experienced stem cell doctors. Very convenient!

***Find out today if you or a loved one is a candidate for life changing stem cell therapy.***



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