

## **LEADING EXPERTS IN REGENERATIVE MEDICINE, ANTI-AGING & REVOLUTIONARY CELLULAR THERAPIES**

### **REGENERATIVE MEDICINE:**

Regenerative Medicine techniques harness the body's innate healing mechanisms to accelerate healing and stimulate tissue regeneration. Our techniques use donor or patient-derived bioactive products designed to promote innate healing mechanisms.

At Hudson Medical, we understand the immense potential of Regenerative Medicine and are dedicated to providing you with the most advanced treatment options that target your specific needs. We use minimally-invasive techniques to treat various tissue injuries by stimulating the regeneration of damaged tissue. These regenerative therapies are designed to repair damaged tissues to reduce the need for more invasive procedures. As a research facility for ongoing clinical trials, we are able to offer cutting-edge regenerative medicine treatment options that are performed by our team of highly experienced physicians. We perform a range of regenerative therapeutic interventions and infusions aimed to treat myriad conditions such as musculoskeletal injuries, degenerative spinal conditions, sports related injuries, long-term COVID-19-related symptoms, and age-related conditions.

The regenerative therapies we offer at Hudson Medical are appropriate for individuals who struggle to find symptom relief from traditional treatments. Depending on your needs, we implement an individualized treatment plan focused on stimulating tissue regeneration that is tailored to your specific condition.

We have performed over 2500 regenerative medicine cases since 2010. We offer high concentrate Platelet-Rich Plasma Therapy, Platelet-Rich Fibrin Therapy, and Bone Marrow Stem Cell Concentrate Therapy. Other forms of advanced cellular therapies are available with our overseas partners. Placental Matrix Tissue and Stem Cell Growth Factors (Exosomes) represent exciting new developments and are currently only for research purposes. Hudson Medical is the first practice in the US to publish safety data on the usage of Exosomes in spinal based applications ([Link](#))

We utilize high resolution ultrasound and X-ray fluoroscopy for each procedure to ensure accurate placement. Sedation is available to ensure optimal patient comfort.

### **PLATELET RICH PLASMA THERAPY**

Platelet-rich plasma (PRP) Therapy is a minimally-invasive injection that aims to promote the initiation and progression of the body's natural healing mechanisms to accelerate tissue regeneration. Since the 1980s, PRP Therapy has been used in many areas of medicine and dentistry to promote wound healing. In recent years, PRP Therapy has been shown to be safe and effective in the treatment of musculoskeletal injuries, androgenetic alopecia and erectile dysfunction. PRP is derived from a patient's own blood sample and contains high levels of

platelets and growth factors known to stimulate tissue healing and reduce inflammation. By directly injecting PRP into sites of tissue injury, this procedure can provide targeted and effective symptom relief by reducing pain and promoting healing.

PRP Therapy is a treatment option for individuals with osteoarthritis, tendinopathy, hair loss, erectile dysfunction, and chronic neck and lower back pain due to spinal radiculopathy, spinal spondylosis or sacroiliac joint dysfunction. PRP Therapy is a safe and effective procedure that harnesses innate healing processes to facilitate tissue repair. To learn more about PRP Therapy, please click here [→](#)

Here at Hudson we use a proprietary lab platform and manual extraction techniques from high volumes of blood, achieving concentrations and quality that is far beyond standard medical clinics.

### **BONE MARROW ASPIRATE CONCENTRATE**

Bone Marrow Aspirate Concentrate (BMAC) Therapy uses mesenchymal stem cells (MSCs) from patients' bone marrow to stimulate tissue regeneration for a wide range of clinical applications. MSCs are a self-renewing cell type that can transform into different specialized cell types by interacting with signaling molecules implicated in different physiological processes. BMAC Therapy is a minimally-invasive procedure that involves the harvesting of a small amount of a patient's bone marrow and subsequent injection of BMAC product directly into injury sites. At Hudson Medical, we use BMAC Therapy to treat musculoskeletal conditions such as osteoarthritis, tendinopathy and chronic back pain because the MSCs, growth factors, and cytokines found in BMAC products activate tissue repair mechanisms and provide patients with significant pain and symptom relief. BMAC Therapy is a safe and effective treatment that targets physiological causes of musculoskeletal conditions to promote healing and tissue regeneration. To learn more about BMAC Therapy, please click here [→](#)

### **PLACENTAL MATRIX (RESEARCH AND INFORMATION ONLY)**

Placental Matrix Therapy involves the use of placental tissue as a substitute for damaged or missing connective tissue. This therapy primarily uses an Extracellular Matrix (ECM) derived from the placenta, which is rich in collagens, growth factors, and bioactive molecules. These components form a structural foundation for the body's tissues and support surrounding cells. The placental matrix products contain non-immunogenic, multi-potent stem cells that release cytokines and growth factors. These elements are known to rapidly promote healing and tissue regeneration when injected into damaged or degraded tissue. Placental tissues also have anti-microbial, anti-fibrotic properties, reducing the risk of disease and scarring. This therapy is minimally invasive, involving the injection of placental matrix products directly into the injury site.

**EXOSOME THERAPY**  
**(RESEARCH AND INFORMATION ONLY)**

Exosomes are small vesicles secreted by many cell types that carry diverse cargo to target cells to elicit a cargo-specific response. Exosomes derived from umbilical cord, amniotic fluid or mesenchymal stem cells carry cargo that can alter gene expression of target cells, promoting processes that favor regeneration and healing. As exosomes are able to modify cellular communication and can therefore alter tissue microenvironments, Exosome Therapy has extensive clinical applications for regenerative medicine. The exosome products used in Exosome Therapy are derived from donor stem cells and can be either directly injected into injury sites or administered intravenously depending on the patient's condition. Conditions such as osteoarthritis and intervertebral disc degeneration may benefit from direct Exosome Therapy injection to promote tissue regeneration at damaged tissue, whereas Exosome Therapy intravenous infusions may be better indicated in the treatment plans of aging-related conditions, COVID-19-induced severe acute respiratory distress syndrome, long-term COVID-19 symptoms, and chronic pain conditions. Exosome Therapy stimulates tissue regeneration and cellular rejuvenation by harnessing the intrinsic ability of exosomal cargo to alter cellular communication and gene expression. To learn more about Exosome Therapy, please click here [→](#)