

## **Regenerative Medicine in Simple Terms: An Elucidation.**

**Hazem Barmada, MD, FRCSEd, FRCS (CTH)**

Recently, we created a blog to make patients aware of the exciting breakthroughs in stem cell research and applications for healing. At Gulf Coast Stem Cell & Regenerative Medicine Center, we are continually looking for new and innovative ways to enhance patients' quality of life through a wide variety of treatment options. Many of these treatments fall under the broad umbrella of "Regenerative Medicine," but what exactly is regenerative medicine and why is it different from what is considered "conventional medicine?"

Regenerative Medicine is a method of healing one's damaged tissues or organs. While the medical profession, most people are familiar with, has a proven system in place for diagnosing and treating injuries, diseases, and disorders; this Regenerative system is based upon the body's innate ability to repair itself, and/or replacement of anything structure too damaged to execute the repair by itself. It is easy enough to conceptualize an instance when a cast aids in the healing of a broken bone, or a failing organ is transplanted from a healthy donor, but when these systems encounter complications or fail over time doctors must explore additional options.

Regenerative Medicine is the process of utilizing stem cells and growth factors from the patient's own healthy cells to create a living, functional cell-system to repair tissues and organs, restoring functionality. The procedures and tools of regenerative medicine work equally well on acute damage like by trauma, degenerative conditions by natural or excessive breakdown from wear and tear, or congenital afflictions making the number of applications incalculable. By using a patient's own fat-derived stem cells, which can replicate to any cell and regenerate any tissue required, we harness a valuable resource that can repair knee cartilage, heart muscle, nerve damage, liver damage, and pretty much any other regenerative application medical providers throw at it. Rather than deal with an injury or disease from without, regenerative medicine enhances internal resources to coax the body to heal itself from within "naturally" and without synthetic chemicals or hardware. Regenerative Medicine can even allow people with chronic diseases and degenerative conditions, caused by advanced age, to halt or even "turn the clock back" on their bodies by rejuvenating and restoring tissues that have been damaged over the years.

Of course, this is just the tip of the iceberg when it comes to the wide variety of applications available to patients in the field of regenerative medicine. The chances are that you, or someone you know, could directly benefit from these treatments, and the good news is that we at Gulf Coast Stem Cell & Regenerative Medicine Center are here in your local area ready to help! Please feel free to contact us so that we can discuss your conditions and needs, as well as suitability for treatment. Let Gulf Coast Stem Cell & Regenerative Medicine Center show you what “Excellence with a Human Touch” means!

For more information on our stem cell therapies, our protocols, regenerative medicine, or a list of the conditions we currently are addressing, please visit our website at [www.gulfcoaststemcell.com](http://www.gulfcoaststemcell.com), or call (866) 865-4823.



1153 Ocean Springs Rd.  
Ocean Springs, MS. 39564  
(228)875-2840 - (866)885-4823  
<http://www.gulfcoaststemcell.com/>