

## Regenerative Medicine

### WHAT OTHERS ARE SAYING:

"I went sailing the other day... I actually was at the helm of the boat for 2 and 1/2 hours! I feel like I'm a kid again."

Penny T

"We have been given a second chance to make a difference for Dan, and we are so thankful for this opportunity"

LaNae, Daniel's T's wife,

### CHINA CONNECTION GLOBAL HEALTHCARE

CCGH is a leader in Destination HealthCare<sup>SM</sup>, providing premier medical care at affordable rates through a dedicated network of world-class hospitals and physicians in Tianjin and Beijing, China.

To learn more, visit us at:  
[www.chinaconnection.cc](http://www.chinaconnection.cc)

What are stem cells?

Stem cells are the master cells of the human body. What differentiates stem cells from other cells is their ability to self-generate and their ability to differentiate into other cell types.

Stem cells are at the center of a new field of science called regenerative medicine. All stem cells, regardless of their source, have three general properties:

- They are capable of dividing and renewing themselves for long periods
- They are unspecialized
- They can give rise to specialized cell types



Self-regeneration is the ability of stem cells to divide and produce more stem cells. During early development, the cell division is symmetrical i.e. each cell divides to give rise to daughter cells each with the same potential. Later in development, the cells divide asymmetrically with one of the daughter cells produced - a stem cell and the other a more differentiated cell (such as brain cell, blood cell, etc.)

When stem cells are transplanted into the body and arrive (through migration or through direct injection) to the injured part of the brain being targeted for tissue regeneration,

the stem cells come into contact with growth chemicals in the body. These chemicals program the stem cells to grow into the tissue surrounding it.

1. Before the stem cells treatment, a complete examination of the patient's condition will be done by doctors of neurology, this includes a functional check of all the body's organs and an evaluation of the patient's nervous system.

2. Medication is given to adjust the condition of the patient's immune system: according to the patient's clinical condition, an effective medication will be ordered and used to adjust the immune function, provide neural nourishment and clear the internal microenvironment to protect the neurons and help the future growth of injected stem cells. (This step is crucial for effective results and cannot be rushed)

3. Stem Cells Activation and Proliferation Treatment – Patients will receive a daily IV of neurotrophic factors and medications used to stimulate the production of the body's own stem cells.

5. Stem Cell Implantation: Neural Stem Cell injections are delivered via lumbar puncture into the cerebral spinal fluid in four separate injections. Those stem cells will grow into neurons and rebuild new body neural innervations, at the same time the new neurons can provide nourishment to the peripheral nerves and nerve roots, repairing the damaged neural system and improve the muscular atrophy.

4. Rehabilitation: The rehabilitation program is an integral part of stem cell therapy. The treatment includes daily physiotherapy and occupational therapy sessions and complementary Chinese traditional medical treatment.