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Wu Medical Center

Every Life, Every Family, Every Hope

www.wumedicalcenter.com

Wu Stem Cells Medical Center

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The Wu Medical Center (WMC) was named after Dr. Like Wu, MD, PhD in Neurology, co-founder, Chief Neurologist and Managing Director of WMC whose holding company is Beijing Runde Healthcare Inc.

From 2005 to 2008, Dr. Wu served as the Head Neurologist of the Department of Neurology at Beijing Tiantan Puhua Hospital (BTPH). He was the founder of BTPH's stem cell research and treatment programs.

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Using the unique stem cell technologies since 2005, Dr. Wu and his medical team have successfully treated over one thousand patients from all over the world suffering from various neurological diseases including Parkinson's, Strokes, Batten's Disease, ALS, MS, MSA, PSP, Cerebral Palsy, Traumatic Brain and Spinal Cord Injuries, etc., with an excellent track record. Many of these cases were reported by well-known international news agencies such as The Washington Post, CNN, Reuters, BBC, etc.

WMC provides the safest and most effective individualized treatment program with our highly experienced medical team, advanced technology and world-class medical care.

With our treatment program, a significant improvement can be expected within 4 weeks.

Background of Stem Cell R&D

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The stem cell biology and stem cell bioengineering programs were voted first place for the “World Top Ten Scientific Achievements Award” given out by the American “Science” magazine in two consecutive years, 1999 and 2000. Since then, the stem cell field has been a hot research topic of modern medicine and biology. The total global market size is predicted to be as high as US$400 billionby the year 2020.

Background of Stem Cell Therapy

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Currently, several developed nations have made large investments in the establishment of centers that closely combine the basic stem cell research with its clinical applications.

A new era has arrived where stem cell technology will now move from the laboratory to the hospital.

The Founding and Background of WMC

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- There are more than a thousand neurological diseases and the majority of them remain incurable with the current therapies.
- It is very difficult for adult neural cells to regenerate after an injury.
- The incidence of strokes remains high, around 200/10 million, of which 60% of patients who suffer a stroke have permanent neurological damage.

The Founding and Background of WMC

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Within the elderly population, there is an alarming increase in the number of cases of neurological diseases. The incidence of Parkinson’s disease has increased at least 20 times in the past 20 years, accounting for 2% of the entire elderly population.

Alzheimer's also known as dementia praesenilis, currently affects 4.61% of adults over 65. In modern day society, the incidence of brain and spinal cor d injuries has also increased significantly.

The Founding and Background of WMC

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After nearly 20 years of extensive research, scientists have made a breakthrough from having to previously collect stem cells from the tissue of a fetus's brain for transplantation, to the current sophisticated technologies in in-vitro stem cells differentiation, expansion and purification, which have now been established. The set up of stem cell banks provides a safeguard for stem cell transplantation. The US FDA approved the Phase III clinical trials using stem cell transplantation to treat Batten's and Parkinson's disease.

The Founding and Background of WMC

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In 2000, together with PKU and PKUMS Genetech Investment Co., Ltd., Beijing Union Health Co., Ltd. (BUH, the holding company of WMC) founded China's firs t stem cell R&D company, Sinocells Biotechnologies Co., Ltd. Sinocells Biotechnologies Co., Ltd. has been supported by various national foundation programs, such as "863", "973", "211" and "985."

On the basis of extensive experience in stem cell research and clinical application during the last ten years, BUH founded WMC in November, 2008 that represents a new hope for patients suffering from difficult-to-treat neurological diseases.

Our Unique Stem Cell Therapy

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1. Factors influencing the stem cell therapy effect:

- The unchanged pathological internal environment.
- The lack of precise positioning of the stem cells activated or implanted.
- The largely impassable scar tissues that are hard for the neural stem cell cones to pass through.
- The technical difficulties in targeting differentiation of the stem cells inside the body and in the cross-TM trophoblast transformation of the stem cells.
- The nonfunctioning of the surviving stem cells.

Any of these factors may contribute to the poor, or non-effectiveness of the stem cell therapy.

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2. Our innovative approaches:

To overcome the above-mentioned difficulties, Dr. Wu proposed the innovative approaches that combines the activation of autologous neural stem cells with exogenous stem cell transplantation.

- The approaches to activating autologous stem cells:

  1) the activation the immobilized neural stem cells inside the body.
  2) the rejuvenation of the central nervous system. This is of the utmost importance because this process is required for the reconstruction of the neural network.

- The approaches to making the exogenous stem cells function:

  1) having the implanted stem cells activate the autologous stem cells and cause them to form neural networks with the implanted stem cells.
  2) making the autologous stem cells functional through chemical and physical signal regulation and thus inducing the implanted stem cells to differentiate into the functional cells.

Our Unique Stem Cell Therapy

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3. What our innovative approaches have achieved:

1) the improved internal environment of the patient.

2) the accurate positioning of the cell receptors and gene targeting.

3) the softening of the scar tissues to allow the neural stem cell cones to pass through and to induce the directional stem cell differentiation inside the body, or to make the stem cells cross the embryonic layer for transformation. Through chemical and physical regulations, the surviving stem cells are able to take up their proper functions.

Our Unique Stem CellTherapy

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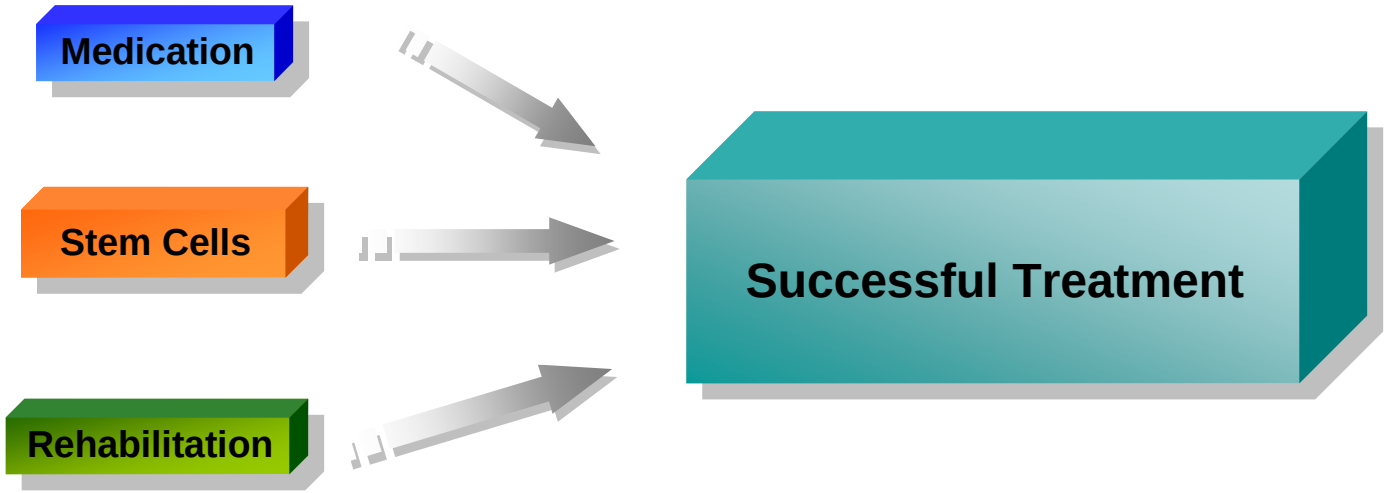
The control of the implanted stem cells is of the utmost importance for a successful stem cell treatment.

Our treatment plan is based on years of clinical research and experience allowing the safest and most effective outcome. **Patients can expect to gain significant improvement within 4 weeks of our treatment.**

Conventional 4 Week Treatment Plan:

- Four stem cell injections with one week apart.
- Daily IV and medication to adjust and control the body environment and nourish the stem cells.
- Daily rehabilitational therapy consisting of physio- and occupational therapy as well as traditional Chinese medicine (massage and accupuncture).

Our Unique Stem Cell Therapy



Using these innovative techniques, Dr. Wu and his team have treated more than 1,700 patients since 2005, with the total effective rate of over 95% and the significant effective rate of over 75%, without any safety issues. This has paved the way for the application of stem cell technologies to bring about a new reality of treatment not currently provided by conventional or modern medicine. The main goals of our treatment is to improve the quality of our patients' lives by alleviating the symptoms and restoring the previously lost functioning, as well as prolonging the patients' lives who are suffering from untreatable illnesses.

Statistical Report of Clinical Cases Treated by Wu Team (2005-2011)

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Statistical report of clinical cases treated by the Wu team from 2005 to Sept., 2011

Diseases & Disorders	Country	* Improvement %	** Significant Improvement %
Total Cases Treated **2,253**	China: 38% Overseas: 62%	93% (2,085)	76% (1,706)
Stroke **583**	China: 60% Overseas: 40%	96% (560)	84% (490)
Parkinson's Disease **398**	China: 11% Overseas: 89%	97% (386)	94% (374)
Cerebral Palsy **215**	China: 25% Overseas: 75%	92% (198)	86% (185)
Brain Injury **196**	China: 56% Overseas: 44%	95% (186)	75% (147)
ALS **120**	China: 12% Overseas: 88%	83% (100)	52% (62)
Spinal Cord Injury **114**	China: 50% Overseas: 50%	86% (98)	39% (44)
Encephalitis/Myelitis Sequela **98**	China: 51% Overseas: 49%	91% (89)	55% (54)
MS **79**	China: 38% Overseas: 62%	93% (73)	52% (41)
MSA **71**	China: 14% Overseas: 86%	90% (64)	62% (44)

Statistical Report of Clinical Cases Treated by Wu Team (2005-2011)

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Statistical report of clinical cases treated by the Wu team from 2005 to Sept., 2011

Friedreich's Ataxia **65**	China: 32% Overseas: 68%	88% (57)	67% (44)
SMA **35**	China: 40% Overseas: 60%	82% (29)	61% (21)
Batten's Disease **31**	China: 14% Overseas: 86%	76% (24)	45% (14)
RP/Optic Nerve Diseases **28**	China: 10% Overseas: 90%	90%（25）	60%（17）
Muscular Dystrophy/ Polymyositis **26**	China: 20% Overseas: 80%	90%（23）	80%（21）
Autism **26**	China: 46% Overseas: 54%	92%（24）	71%（18）
Huntington's Disease **18**	China: 17% Overseas: 83%	86%（15）	61%（11）
Renal Insufficiency **24**	China: 35% Overseas: 65%	80% (19)	75% (18)
Diabetes **16**	China: 40% Overseas: 60%	96%（15）	90%（14）

***** Function restored by 20%-30%; ****** Function restored by ≥30%
Total rate of improvement: 93%; Total rate of significant improvement: 76%

Western News Agency's Report on WMC

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The Washington Post

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With U.S. stem cell treatments limited, patients try other countries

By Ariana Eunjung Cha
Sunday, June 6, 2010

Disillusioned by U.S. doctors who could not help their daughter with cerebral palsy, Kara Anderson's parents did something they could not have imagined a few years ago: They took her to China.

THIS STORY
» On the frontiers of stem cell treatment
- Treating Kara with stem cells
- China tweet tracker

Specialists in the Chicago area, where the family lives, said that Kara's brain injury was permanent and that the 9-year-old would probably end up in a wheelchair because of severe twisting in her

GALLERY

Treating Kara with stem cells

Experimental stem cell treatments offered in China are luring American patients such as 9-year-old Kara Anderson, whose parents took her around the world to help treat her cerebral palsy.

» LAUNCH PHOTO GALLERY

China News Agency's Report on WMC

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Chinese make progress in using stem cells for difficult to treat neurological diseases

Adjust font size:

"I thought I would have to wait for 2 years to eat Peking duck, the other day I had Peking duck for dinner!" When we heard this spoken so clearly from Georgiana Li, you would never imagine what she was previously like two months ago.

Georgiana is a 65-year-old female suffering from multiple systems atrophy (MSA), a deadly disease that has no definite cure with traditional medicine. When she came to us for the treatment in February of 2009, she had lost movement in her right arm and her legs very early on, the

Our Collaborative Partner & Stem Cell Technology

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National Industrial Base of Stem Cell Technology (NIBSCT)

The NIBSCT is China's largest stem cell research and manufacturing company and is located in Tianjin Huayuan Hi-Tech Park. It is dedicated to cord blood banking and the clinical application of stem cells, R&D, the manufacturing and distribution of monoclonal antibodies and gene chips.

Stem cell manufacturing is one of the key projects supported by the National Development and Reform Commission, as well as the key Hi-Tech Industrial Project by the Tianjin government in 2005.

To comply with the NICPBP's (National Institute for the Control of Pharmaceutical & Biological Products, SFDA) standards for clinically used stem cells, the stem cells used for transplantation, made in NIBSCT are all processed and produced in the SFDA certified GMP facilities and inspected through their Quality- Certificate- Approval system. This ensures the highest product quality and safety.

Technicians at NIBSCT separate stem cells from umbilical cord

QC Report of Stem Cell Product

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National Industrial Base of Stem Cell Technology

Mesenchymal Stem Cell (MSC) Manufacture Department

Quality Control Report

Batch number: G-09095 Date of Manufacture: 2009.04.14

Inspection Item	Standard code	Inspection Result
Physical Examination		Pass
External Appearance	Should to suspension evenly, precipitates not obviously, does not have the foreign matter	Pass
Volume	Should be 20±2ml/per bag	Pass
Cell Number	1.0—2.0×10^7 cells/per bag	Pass
Cell Livability	Should be ≥ 90%	Pass
Cellular Morphology	Under microscope, the single cell should be spindle-shaped, the overall shape should be whirlpool	Pass
Cell Phenotype	CD29, CD44, CD73, CD90 and CD105 should be positive, the positive rate should not be lower than 95%, CD31, CD34, CD45, HLA-DR should be negative, the positive rate should be ≤ 5%	Pass
Biological Potency	Umbilical cord MSC promotes the proliferation of single umbilical cord cell	Pass
Sterility	Should be negative	Pass
Mycoplasma	Should be negative	Pass
Endotoxin	Should be ≤ 2EU/ml	Pass
FBS Residual Quantity	Should be ≤ 50ng/bag	Pass
Specific Extraneous Virus	EB, CMV,HIV, HBV and HCV should be negative	Pass

Inspector: Ying Guo QC Director: Yongjun Liu Date：2009.04.13

Our Medical Team Led by:

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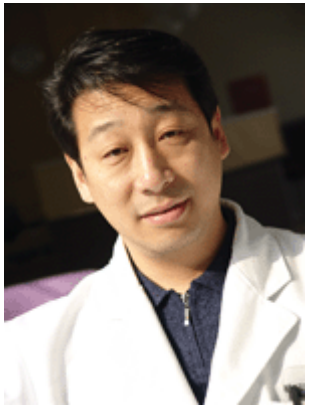
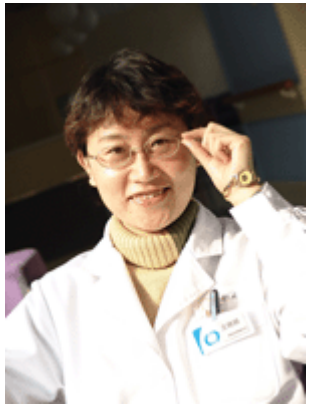


Like Wu, MD. PhD. **Managing Director**

Dr. Wu is one of the pre-eminent experts in the use of stem cell technology for treating various neurological diseases in China today. Our medical center was named after him. Dr. Wu's many years of education and research experience in this field has earned him a large amount of respect from his colleagues and his expertise is reflected in the awards and recognition he has received. His accomplishments include over 30 published research articles he has written along with contributions to several other medical publications. Dr. Wu brings his passion and knowledge for treating neurological diseases with stem cell technology to our center, and along with an equally dedicated medical and support team, works hard every day to improve the quality of lives of the patients who come through our doors.



Xiaojuan Wang, MD. PhD. **Deputy Managing Director**

Dr. Wang's various research projects include collaboration with one of the top medical universities in the world, Johns Hopkins University. Dr. Wang has published more than 40 research articles about diabetes, cardiac and cerebral vascular diseases as well as the treatment of patients in crisis situations. She is also a member of the Chinese Medical Association, China Physicians Association, and the Distinguished Researcher of the China Science Management Committee. As the chief neurologist at WMC, just like Dr. Wu, Dr. Wang brings an impressive amount of knowledge and expertise to our medical center which only enhances the quality of medical care our patients can expect to receive here.

Our Nursing Team

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Our Rehabilitation Team

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Hospital Environment

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Our Facilities

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In-Patient Department

Our Facilities

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Hospital Ward Specially Designed for Neurological Patients

Operation Room and ICU

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Rehabilitation Center Specially Designed for Neurological Patients

Coffee Room

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Our Mission and Vision

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Our Mission:

To make a world of difference in the lives of patients and their families by integrating new medical technologies, care, education and research, in order to provide the highest quality of services to our diverse community.

Our Vision:

WMC will be one of the best stem cells medical centers in the world, known for advancing research and providing definitive diagnoses and treatments for our diverse community of patients with complex neurological diseases.