Parkinson's Disease and Novement Disorders



Using this GUIDE

Find information on Parkinson's disease and Movement disorders. Explore the most renowned Korean doctors. Examine your treatment options. Remember, Medical Curator fully supports your medical tour in Korea. Medical Curator's special report, May edition covers up-to-date news and medical information on Korean top doctors in the field of Parkinson's disease and Movement disorders.



If you have Parkinson's disease or another movement disorder, Korean best doctors specialized in neurology & neurosurgery can help. Doctors in Korea are world leading specialists bringing together an interdisciplinary team of authoritative neurologists, neurosurgeons, psychiatrists, neuropsychologists, researchers, imaging specialists, technicians and other specialists who have enriched experience in the latest medical and surgical treatments for patients with neurological disorders.



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Parkinson's Disease, the lack of dopamine

PARKINSON'S DISEASE IS A PROGRESSIVE NEURODEGENERATIVE DISEASE IN THE CENTRAL NERVOUS SYSTEM.

IT PROGRESSES SLOWLY AS SMALL GROUPS OF DOPAMINERGIC NEURONS IN THE MIDBRAIN DIE.

THE GRADUAL DEATH OF DOPAMINERGIC NEURONS CAUSES LOSS OF A CRITICAL CHEMICAL CALLED DOPAMINE, A NEUROTRANSMITTER WHICH IS RESPONSIBLE FOR DELIVERING SIGNALS TO PARTS OF THE BRAIN THAT COORDINATE MUSCLE MOVEMENT.

THE MOST TYPICAL SYMPTOMS ARE MOVEMENT-RELATED; THESE INCLUDE SHAKING, RIGIDITY, SLOWNESS OF MOVEMENT AND DIFFICULTY WITH WALKING AND GAIT.

LATER, THINKING AND BEHAVIORAL PROBLEMS WITH DEMENTIA MAY BE SHOWN.

Parkinson's disease O/X Quiz

- 1. Parkinson's disease begin suddenly. (O/X)
- 2. Parkinson's disease often begin on one side of the body. (O/X)
- 3. The main medication for PD is dopamine. (O/X)
- 4. Exercise can help people with Parkinson's improve their emotional well-being. (O/X)
- 5. The average age of onset of PD is 50 years. (O/X)



Answers : X/O/X/O/X

http://www.medicalcurator.com/b/Health/medicalcuratorsblog/parkinsons-disease-in-korea

Movement Disorders

Any type of movement beyond the normal range can be defined as a movement disorders. Visualize if parts of your body kept shaking when you didn't want them to. If you have a movement disorder, you experience certain kinds of abnormal movement such as a muscular spasm, dysmyotonia, chorea, and cerebellar ataxia.

Other movement disorders

Restless legs syndrome(RLS) is a neurological disorder characterized by throbbing, pulling, creeping, or other unpleasant sensations in the legs and an uncontrollable, and sometimes overwhelming, urge to move them.

Huntington's disease is an inherited, progressive disease that causes certain nerve cells in the brain to die. HD's obvious symptoms are various kinds of chorea (involuntary twitches, clumsiness, jerking, twisting or dance-like movements) and other involuntary movements.

Tourette syndrome is a neurological disorder showing symptoms such as repetitive, stereotyped, involuntary movements and vocalizations called tics. The first symptoms of TS are almost always noticed in childhood.

Parkinson's disease O/X Quiz

- 1. A condition that causes people to feel tingling, crawling or creeping is called Nervous legs syndrome. (O/X)
- 2. Huntington's disease is an acquired, progressive disease. (O/X)
- 3. The first symptoms of Tourette syndrome occur in early adulthood. (O/X)
- 4. Chorea is an abnormal involuntary movement, which is characterized by 'dance-like' movements. (O/X)
- 5. A lack of voluntary coordination of muscle movement is called Ataxia. (O/X)

Answers : X/X/X/O/O

http://www.medicalcurator.com/b/Health/medicalcuratorsblog/about-movement-disorders

How are movement disorders treated?

Deep Brain Stimulation (DBS)

Deep brain stimulation requires precisely locating a specific target area in the brain using stereotactic (3-dimensional) imaging techniques with x-ray, computed tomography (CT), or magnetic resonance imaging (MRI).

After drilling a small hole in the skull, special hardware allows accurate image-guided placement of an electrode in the targeted part of the brain. Testing during the surgery may be done to ensure that the electrode will stimulate only neurons (nerve cells) that reduce symptoms. Each neurological disease has specific target neurons.

For example, for Parkinson disease, these are neurons in the subthalamic nucleus or globus pallidus (regions of the brain); for essential tremor or epilepsy, neurons in the thalamus (another region in the brain).

Because the most effective intensity and frequency of electric stimulation vary among diseases and patients, electrode placement is followed by testing to choose proper stimulation settings. Although it is unclear how DBS works, the most likely explanation is that it rewires brain circuits and leads to a better balance between inhibitory and excitatory pathways in the brain.

FOR MORE INFORMATION

http://jama.jamanetwork.com/by a National Library of Medicine User on 04/20/2014

Botulinum Neurotoxin Injections

BoNT is a drug made by bacteria that causes some forms of food poisoning. Neurologists inject small and safe doses of BoNT into the muscle to block nerve signals that cause muscle spasms. BoNT was introduced 28 years ago. When used appropriately, its risks are low and adverse side effects are rare. The most common side effect is mild muscle weakness. Other side effects include pain at the injection site, weakness, dry mouth, and flu-like symptoms. All side effects generally go away quickly.

FOR MORE INFORMATION

https://www.aan.com/Guidelines/Home/GetGuidelineContent/283
 by a AAN Summary of Evidence-based Guideline for PATIENTS and THEIR FAMILIES.

http://www.medicalcurator.com/b/Health/medicalcuratorsblog/treatment-parkinsons-disease-movement-disorders



Best doctors in Korea



Cho, Jin Whan, MD, PhD



Neurology Dept. Samsung Medical Center

Specialty Interests: Parkinson's disease, Parkinson's syndrome, leiodystonia, tremors, chorea, knetic apraxia, cerebellar atrophy, gait, torticollis, facial hemiatrophy, botulinum toxin injection, other movement disorders

Chang, Jin-Woo, MD, PhD



Neurosurgery Dept. Severance Hospital

Specialty Interests: ExAblate Neuro: Focused Ultrasound Transcranial Neurosurgery, Gamma knife radiosurgery for hyperhidrosis, Stereotactic Functional Neurosurgery, Pain, Epilepsy Surgery, Psychosurgery, Functional Brain Disease

Son, Young-Ho, MD, PhD



Neurology Dept. Severance Hospital

Specialty Interests: movement disorders, dementia, cognitive impairment, geriatric neurology, Parkinson's disease

Jeon, Beom-Seok, MD, PhD



Neurology Dept. Seoul National University Hospital

Specialty Interests: Parkinson's disease, hand tremor, botulinum toxin injection, nictitating spasm, hemifacial spasm, torticollis, dementia, movement disorders

Note : Please, bring your medical records, examination results, prescriptions for medications for a doctor's appointment

Paek, Sun-Ha, MD, PhD



Neurology Dept. Seoul National University Hospital

Specialty Interests: Stereotactic and functional neurosurgery, brain tumor, movement disorders, Parkinson's disease, Gamma knife neurosurgery

http://www.medicalcurator.com/b/Health/medicalcuratorsblog/best-doctors-in-korea-1



Open Lectures for PATIENTS and THEIR FAM

May-June, 2014 Open Lecture Schedules in Korea

Hospital	Date	Time	Venue
The Catholic Univ. Of Korea, Yeouido St. Mary's Hospital	Wed, May 14	14:00 ~	Main Bldg. 4th floor auditorium
The Catholic Univ. Of Korea, Uljeongbu St. Mary's Hospital	Wed, May 14	14:00 ~ 16:00	2nd floor clinical lecture room
NHIS Ilsan Hospital	Wed, May 14	14:00 ~ 16:00	1st basement level auditorium
Yongin Severance Hospital	Thu, May 15	14:00 ~ 16:00	Main bldg. 3rd floor auditorium
Keimyung University dongsan Medical Center	Thu, May 15	14:30 ~ 15:50	3rd floor Mappet hall
Gangnam Severance Hospital	Sat, May 17	10:00	Main bldg3rd floor auditorium
Hallym University Medical Center	Mon, May 19	14:00 ~ 15:30	Refer to the hospital
Shihwa General Hospital	Tue May 20	14:00 ~ 16:00	Main bldg. 1st basement level AV room
VHS Medical Center	Thu, May 20	10:00 ~ 11:00	2nd basement level auditorium
Pohang Semyung Gidok Hospital	Thu, May 20	13:30	Main bldg. 10th floor EsselNamu hall
Gyeongsang National University Hospital	Wed May 21	14:00 ~ 16:00	GNUH Cancer center auditorium
Korea University Ansan Hospital	Thu May 22	14:00 ~ 16:00	Main bldg. 2nd floor auditorium
Bundang Jesaeng Hospital	Thu May 22	15:00 ~17:00	Auditorium
Wonju Severance Christian Hospital	Thu, May 22	14:00 ~ 15:30	Luke hall
International St. Mary's Hospital	Thu May 22	14:00 ~ 17:00	Main bldg. 3rd floor Seminar room 5
Chonbuk National University Hospital	Thu May 22	13:00 ~ 15:00	Main bldg. basement level Moak hall
Yeungnam University Medical Center	Tue May 27	15:45 ~ 16:40	Main bldg. 1st floor I-san auditorium
Pohang Sunlin Medical Center	Wed May 28	10:30 ~ 12:00	1st floor Ddogamsa hall
Chung-Ang University Hospital	Thu May 29	14:00 ~ 16:00	Main hall 4th floor Dong-gyu hall
Kyungpook National University Medical Center	Fri May 30	14:00 ~ 15:00	1st basement level auditorium
Myongji Hospital	Fri May 9	14:00 ~ 16:00	New bldg. 7th floor lecture room 1
Seran General Hospital	Tue June 10	14:00 ~ 15:30	Gold palace 1st basement level auditorium (behind the Seran Hospital)
Seoul Bukbu Hospital	Fri June 13	14:00 ~ 15:30	Jungnang-gu dementia support center 3rd floor auditorium
Daegu Fatima Hospital	Mon June 16	14:00 ~	Main bldg. 4th floor auditorium
Seobu Hospital	Wed June 18	14:00 ~ 16:00	The office of Doma 1-dong 2nd floor auditorium
GangNeung Asan Hospital	Thu June 19	13:00 ~ 14:30	2nd basement level lecture room 1

http://www.medicalcurator.com/b/Health/medicalcuratorsblog/open-lectures-in-korea

Professor Chang, Jin-woo of Severance Hospital has exceeded 1000 cases of "electrical nerve stimulation surgery."

Severance Hospital of Yonsei University has stated that Professor Chang, Jin-woo has exceeded 1000 cases of "electrical nerve stimulation surgery."

Electrical nerve stimulation surgery is a method that inserts electrical stimulation equipment inside the body and treats diseases that does not respond to medication, such as Parkinson's disease, hand tremor, or other abnormal motion diseases.

Some typical surgeries are deep brain stimulation surgery, spinal cord stimulation surgery, and vagal nerve stimulation surgery. And recently a method using MRgFU emerged. Deep brain stimulation surgery is a method that Professor Chang and his team at Severance Hospital has brought to Korea for the first time in 2000 and the method inserts electrical stimulation equipment in neural circuit and cuts off abnormal circuits due to nervous system disease.

Professor Chang says "high technology and ample experience is absolutely necessary in order to place the electrical stimulator in the right place among all ultrafine nerves and treat severe nervous system disease. Severance Hospital has been acknowledged for its excellence after more than 1000 cases of surgeries, including insertion of electrical stimulator and replacement of stimulator after the battery ran out."

He also added that "80~90% of the patients who were treated for their Parkinson's disease and hand tremor have been able to return to their normal lives and the patients have been satisfied with the result."

Source :http://www.fnnews.com/

http://www.medicalcurator.com/b/health/medicalcuratornews/electrical-nerve-stimulation

New road has been paved for Parkinson's disease: stem cell, deep brain simulation surgery for Parkinson's disease

After studying that mesenchyme stem cell helps treating multiple system atrophy, one of the symptoms of Parkinson's disease, Korean medical team has also paved a new road to conduct deep brain stimulation surgery, which is used to treat abnormal motion diseases such as Parkinson's disease, while the patient is asleep. Parkinson's disease is caused by the continuous destruction of nerve cell which is placed in a specific area of brain called substantia nigra and secretes dopamine, neurotransmitter necessary for muscle movement at all four limbs; the disease thus prohibits one from carrying out everyday activities by oneself.

Successful insertion of mesenchyme stem cell medicine – Neurology professor Lee, Pil-hyu, Sohn, Young-ho, and their team of Severance Hospital at Yonsei University has announced on the 21st that they have successfully revived dead nerve functions by extracting and separating mesenchyme stem cell from the marrow of a patient who was suffering from multiple system atrophy, and inserting the stem cell into the patient's vein. The result has been published in " Annals of Neurology," the most prestigious international academic journal in the field of neurology.

Multiple system atrophy is a system of Parkinson's disease, and shows abnormal symptoms in autonomic nervous system such as indigestion and swallowing dysfunction, and abnormal symptoms in cerebellum such as problems with walking and pronunciation. The symptoms usually occur among those around the 50's. Contrast to Parkinson's disease, which progresses rather slowly, multiple system atrophy progresses quickly, and in many cases is unresponsive to dopamine hormone injection or deep brain stimulation. Therefore, the survival period after the disease occurs is only 8 to 10 years.

Professor Lee and his team has proven the effect of stem cell treatment by comparing a treatment group of 11 multiple system atrophy patients who were injected with stem cell from their own marrow, and a control group of 16 patients who were injected with regular medicine.

http://www.medicalcurator.com/b/health/medicalcuratorsnews/new-road-for-parkinsons-disease



The group who was treated with stem cell was first injected with 4×107 stem cells in the artery and was additionally injected in the vein for three times.

As a result, the treatment group shows noticeable decrease in their abnormal motion diseases, such as speech impairment or paralysis, after one year. Study of brain imaging also showed significant difference in the degree of cerebellar atrophy loss between the treatment group and control group. The difference was similar when the two groups were examined for their cognitive function, such as naming, drawing shapes, and remembering.

Professor Lee said,

Mesenchyme stem cell helps treating multiple system atrophy, caused by Parkinson's disease. The effect of stem cell will be further studied for other incurable cerebral diseases, such as Alzheimer's disease.

Deep Brain Stimulation During Sleep Developed – Movement Disorder Center at Seoul National University Hospital brought meaningful result of a study. From October, 2010 to June, 2011, Cheon, Bum-seok of Neurology department and Baek, Sun-ha of Neurosurgery department and their teams have monitored 8 Parkinson's disease patients who were treated with deep brain stimulation, one side of the brain while conscious, and the other side while asleep.

The result showed that there was no big difference between when they were treated while conscious and while they were asleep after being sedated. This meant that the fact that the patient is conscious does not influence much on the improvement of abnormal motion diseases. The result thus broke the widely held belief that the intensity of stimulation has to be adjusted as the surgeon talks to the patient through the procedure.

http://www.medicalcurator.com/b/health/medicalcuratorsnews/new-road-for-parkinsons-disease



Deep brain stimulation surgery is a treatment method that inserts electrode in hypothalamus of brain, which has been abnormally activated, and stimulates electrically, in order to reduce abnormal motion symptoms such as hand/feet tremor. Until now, the surgery included a conscious patient with his or her head fixed for 6 hours, and test electrode inserted to a place predicted to be hypothalamus, and inconvenience to find the place with most electronic signal and the best effect while talking to the patient.

Professor Cheon says,

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Parkinson's disease does not respond to dopamine hormonal medicine after 10 years, and in order to carry out everyday activities, the patients need to go through deep brain stimulation. The stimulation while asleep is a new treatment method and it can greatly reduce anxiety and pain experienced by the patients.

http://news.kukinews.com/article

http://www.medicalcurator.com/b/health/medicalcuratorsnews/new-road-for-parkinsons-disease

We've come to Korea to learn advanced medical technology!"

- Movement Disorder Center at Seoul National University Hospital hosts "Asia Neuroscience Expert Forum."

- 10 doctors from India, Thailand, and Hong Kong have visited Seoul National University Hospital to learn Deep Brain Stimulation.

10 doctors from Asian countries have visited Seoul in order to learn Deep Brain Stimulation; one of Korea's advanced medical technologies.

Movement Disorder Center at Seoul National University Hospital (Professor Cheon, Bum-seok of Neurology department, Professor Baek, Sun-ha of Neurosurgery department) hosted Asia Neuroscience Expert Forum on September 6th (Fri.) at the auditorium of Biomedical Research Institute.

Deep Brain Stimulation is a surgery that reduces abnormal motion symptoms, such as hand/feet tremor, by inserting an electrode into hypothalamus of the brain and stimulating it electrically to a Parkinson's disease patient.

The surgery is carried out when the existing medication does not control symptoms anymore. Many patients have been treated with Deep Brain Stimulation since the January of 2005, when medical insurance started covering the surgery in Korea.

The therapeutic outcome has been acknowledged internationally as well and many doctors of foreign countries wish to learn about its method in Korea. 1 doctor from Hong Kong, 2 from India, and 7 from Thailand have attended the forum and experienced the excellent medical technology of Korea.

http://www.medicalcurator.com/b/health/medicalcuratorsnews/advanced-medical-technology-korea



At the forum, the following has been covered:

▲ Introduction of Movement Disorder Center (MDC) at Seoul National University Hospital by Professor Cheon, Bum-seok of Neurology department

- Introduction Deep Brain Stimulation surgery by Professor Cheon
- A Patient Assessment and Selection for DBS Surgery by Professor Cheon
- ▲ Pre&Post Operative Medication Adjustment for DBS Surgery, by Professor Kim, Han-jun of Neurology department

▲ The DBS Surgery Video Viewing, by Professor Cheon of Neurology department and Professor Baek, Sun-ha of Neurosurgery department

▲ The Neurostimulator Adjustment after DBS Surgery, by Full-time Doctor Uhm, Kwan-hee of Neurology department.

Professor Cheon said,

It was a meaningful event that Movement Disorder Center could look back on our clinical achievements in the 8 years since the center opened, and also pass down those achievements to the doctors from other countries.

Professor Baek said

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With the experience gained from this forum, Movement Disorder Center will play a leading role as an educator on Deep Brain Stimulation in Asia-Pacific region.



Source :http://www.snuh.org/

http://www.medicalcurator.com/b/health/medicalcuratorsnews/advanced-medical-technology-korea

About Medical Curator

 \checkmark Customized consultation for free \checkmark Fast scheduling an appointment

Translation service in 5 languages

MEDICAL CURATOR WORKS FOR INTERNATIONAL PATIENTS WHO WOULD LIKE TO KNOW ABOUT KOREAN MEDICINE AND VISIT KOREA.

We provide you with the most credible Korean health information as well as non-medical services. Since its establishment in 2011, Medical Curator (Previously Korea Medical Hub) has guided more than thousands of international patients. Medical Curator offers our valuable overseas patients comprehensive non-medical services from customized online consultation to post-op cares.

1. Medical Curator Process



Step. 1 Online Consultation: By telephone, e-mail about medical procedures, accommodation, and transportation

Step. 3 Departure in Korea: Moving to your accommodation



Step.2 Appointment: Making an appointment and paying a deposit



Step.4 Medical Service: In-depth consultation with professional staffs and doctor, pre-operation examination,

surgery and post-op care.



Step. 5 Returning Home & Follow-Up: Keeping in touch for a post-op assessment and

2. Online Consultation Hours

- Mon~Fri 9:30AM 6:30PM Sat~Sun Off
- Foreign Language Services: English, Chinese, Japanese, Russian, and Arabic

3. Contact Us

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- Email : info@medicalcurator.com
- Requirements: Overseas customer's inquiry form, photos, and any medical record

Reference

http://feelbeautiful.com/breast/implants-san-diego-ca/ http://sg.entertainment.yahoo.com/news/the-pioneer-of-water-drop-breast-implant-start-100938987.html http://www.nhs.uk/Conditions/Breast-implants/Pages/Considerations.aspx http://www.fda.gov/MedicalDevices/ProductsandMedicalProcedures/ImplantsandProsthetics/BreastImplants/ucm259296.htm http://www.smartbeautyguide.com/procedures/breast/breast-augmentation http://www.fda.gov/downloads/MedicalDevices/ProductsandMedicalProcedures/ImplantsandProsthetics/BreastImplants/UCM259897.pdf http://www.breastaugmentationadvisor.com/TheProcedure/TheProcedurePreoperativeChecklist.asp http://www.princetonsurgery.com/images/PScheckList.pdf http://www.swancenteratlanta.com/breast-augmentation/choices/

http://www.fda.gov/newsevents/newsroom/pressannouncements/ucm260235.htm

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