

1. What is Parkinson's disease?

Parkinson's is a neurodegenerative disorder caused by the loss of dopamine-producing brain cells, leading to motor symptoms like tremors, rigidity, and bradykinesia.

2. What is Neuromodulation?

Neuromodulation refers to advanced techniques like DBS and RFA that target specific brain areas responsible for Parkinson's symptoms, improving motor function.

3. How long do the benefits of Neuromodulation last?

Neuromodulation treatments provide long-lasting relief, reducing the need for frequent medication.

4. What is the difference between DBS and RFA?

DBS involves implanting a device in the brain that continuously sends electrical signals, while RFA ablates brain tissue without implanting a device, making it less costly and less complex.

5. Is the treatment painful?

Both DBS and RFA are minimally invasive, key-hole procedures performed while the patient is awake and comfortable. They are painless and bloodless procedures.

6. Is Neuromodulation treatment covered by insurance?

Yes, Neuromodulation treatments like RFA and DBS are covered by few medical insurance companies.

Understanding
Parkinson's Diseases &
Its Treatment From
Dr. Sagar Betai



Scan to listen from
our Happy patients

DR. SAGAR BETAI

MD (Medicine), DM (Neurology)
Consultant Neurologist
Director - Neuroscience Department
Head, Division Of Neuromodulation



“Dear friends,

I feel happy and proud to tell you that the department of Neurosciences at SGVP Holistic Hospital has revolutionized the care for Brain disorders. We are well-equipped to deliver futuristic high-tech care for all complex neurological disorders, which is way ahead of its time, but with a 'Human touch'. Most importantly, we remain fully committed to bring back the Smile on your and your family's faces! Thank you for trusting us!”

Led By

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Regaining Control With

Advanced PARKINSON'S Treatment

Empowering lives through
precision of Neuromodulation.



sgvp Holistic Hospital

Understanding Parkinson's Disease

Incidence: Parkinson's disease affects approximately 7-10 million people worldwide, with an estimated 1 million cases in India. It's more common in individuals over 60 years but can affect younger adults too.

Causes: Parkinson's is a neurodegenerative disorder caused by the loss of dopamine-producing brain cells. Factors such as Genetics, Environmental toxins, and Aging contribute to the condition, although the exact cause remains unknown.

Symptoms

- **Motor Symptoms:**
- **Tremors:** Shaking hands, arms, or legs, usually starting on one side of the body.
- **Bradykinesia:** Slowness of movement, affecting daily activities like walking or buttoning clothes.
- **Rigidity:** Muscle stiffness causing discomfort and reduced range of motion.
- **Postural Instability:** Impaired balance, leading to falls.

Non-Motor Symptoms:

- Depression and anxiety
- Sleep disturbances
- Cognitive changes and memory problems
- Speech and swallowing difficulties



Treatment of early-stage of Parkinson's Disease:

Medications : Levodopa and dopamine agonists are commonly prescribed to manage symptoms. However, over time, their effectiveness diminishes and side effects increase.

Physiotherapy and Rehabilitation : Physical therapy helps improve mobility, balance, and flexibility. Speech and occupational therapy are also vital to maintaining quality of life.

Treatment of advanced-stage of Parkinson's Disease

What is advanced stage?

After approx 5-10 years of onset of Parkinson's disease, intensity of symptoms increase gradually in spite of best medicinal treatment, hampering quality of life. In other words, the disease is advance when:

- Benefits of medicines reduce (every dose is effective only 2-4 hours followed by sudden off state, requiring increasing number of tablets every day)
- Side effects of medicines increase (extra unwanted movements of trunk and limbs, drowsiness, hallucinations etc.) due to increased need of tablets.

Neuromodulation Techniques: The new ray of hope!

• **Deep Brain Stimulation (DBS):** A cutting-edge, key-hole procedure safely targeting specific brain areas responsible for symptoms with implantation of a hair-thin electrode connected to a battery which delivers continuous electrical signals to the brain, improving function in advanced cases of Parkinson's. It is like a pacemaker of the brain. Performed while the patient is awake, it offers a long-lasting improvement in movements for advanced cases.

• **Radio Frequency Ablation (RFA):** It is also a cutting-edge, key-hole, awake procedure like DBS 'but without implantation of any device'. Hence, it is much cheaper, and there is no need for frequent regular visits for programming of device like after DBS implantation.

However, selection of patients for above advanced treatments depends on individual patient's profile, needs, expectations and financial affordability.

Why Consider advanced treatment options for your loved one suffering from Parkinson's?

1. It improves quality of life by improving patient's movements, hence making them independent for daily tasks. It gives them back their dignity and self-esteem they deserve.
2. It relieves the family from all the worry and stress that has been weighing on them.

Why Consider SGVP Holistic Hospital for Your Parkinson's Treatment?

1. **Pioneers in Neuromodulation :** SGVP Holistic Hospital is at the forefront of performing advanced Neuromodulation techniques like Radio Frequency Ablation (RFA) and Deep Brain Stimulation (DBS) in Gujarat, offering long-lasting relief for Parkinson's patients.
2. **State-of-the-Art Technology :** We are the first hospital in Gujarat equipped with **German-engineered AI-based Neuro-Navigation System 'Brain Lab'** and a **Stereotactic Frame** for precision treatments. This ensures accurate targeting and improved outcomes.
3. **Highly Skilled Medical Team :** Our team, including Dr. Sagar Betai and Dr. Pulkit Purohit, have been trained in Japan and Toronto. They bring a wealth of experience and sub-millimetric precision, ensuring safe and effective treatments.
4. **Comprehensive Care Approach :** We offer a holistic approach combining medical treatment, rehabilitation, and psychological support, helping patients regain independence and integrate back into their daily lives.



Life After Treatment

Outcomes of Neuromodulation Treatment :

- Significant improvement in motor symptoms, allowing patients to regain independence.
- Long-lasting benefits, reducing the need for medications and hospital visits.
- Enhanced quality of life : Patients can perform daily activities with ease, rejoin social circles, and return to work.

Social Concerns : Parkinson's can make patients increasingly dependent on family members for daily activities, leading to emotional, physical, and financial strain. The loss of independence can result in social isolation, depression, and frustration. Timely treatment with advanced Neuromodulation can restore dignity and independence, significantly improving both the patient's and the family's well-being.