



“With **DBS** at
MIOT International,
I got back something
priceless.
My Independence!”

Mr. Gopal*, 57 years
Former Computer Analyst

*“My father always insisted on taking care
of his personal needs.
Even with early effects of Parkinson’s, he was stubborn
about it, though it would take him twice as long.
It was only when he was completely helpless
that my mother and I could step in. It was agonizing
to watch a man like him break down, every day.”
Mr. Gopal’s son, Karthik*

“With **DBS** at
MIOT International,
I got back to what I do
best.
My work!”

Mr. Anand*, 52 years
Currently employed with the Police Force



*“When I was first diagnosed with Parkinson’s, I did
not understand the extent to which it would affect
me. The medicines helped me continue working -
they ‘managed’ the tremor in my hand and the
‘imbalance’ in my walk, but one morning, I could not
get up or turn around in bed and needed help for
everything. To me, it was the end of the world.”
Mr. Anand*

Reset Signals 

Rewind Life With DBS
(Deep Brain Stimulation)

DBS (Deep Brain Stimulation) at MIOT International - A New Chance at Life

Thousands of caregivers share Karthik's agony as they watch their loved ones, afflicted with movement disorders like Parkinson's, dystonia and essential tremors struggle with the simplest of tasks - buttoning a shirt, holding a glass or just crossing the room. However, with the cutting-edge procedure, DBS (Deep Brain Stimulation) now adopted around the world, over 1,50,000 patients have had a new lease of life.

Let us find out more from the MIOT Specialists who have had amazing results with DBS at MIOT International

What causes movement disorders like Parkinson's, Dystonia & Essential Tremors?

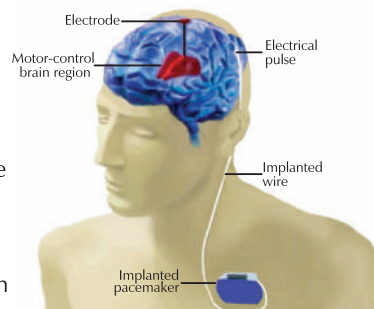
Each body movement requires a series of smooth interactions between the brain, spinal cord, nerves and muscles. Movement disorders set in when the signals which ensure these smooth interactions get distorted by some abnormality in the brain function. The breakdown shows up as symptoms like trembling hands, slow walk, frozen muscles, slurred speech, expressionless faces, loss of balance, etc. These become severe over time, leaving the person completely dependent on the caregiver for his needs.

How does Medication work?

Medications work for a while by reducing symptoms. But they have serious side effects and add to the original problem, over time. Also the body develops resistance to the medication after a point.

Is that where DBS comes in?

Yes. If the patient is a suitable candidate, he can go in for DBS, which is a safe and well established therapy. We implant electrodes in the motor related areas of the brain through a keyhole procedure. They are connected to a pacemaker like device (IPG) placed beneath the skin near the collar bone, which is in turn linked to a remote with the patient. When the remote turns the IPG "ON", it generates electrical impulses which are sent to the affected parts of the brain via the electrodes. This **resets the distorted signals** and restores interaction, reducing symptoms by almost **70-80%**.



How long does it take for symptoms to reduce?

Almost immediately! It's amazing to watch the disabling symptoms earlier disappear or reduce on the operating table, before your eyes. However, the final change is apparent only once the device settings and medication are adjusted and can vary from person to person. In Mr. Gopal's* case, (Computer analyst by profession), he got back to work in a month's time with almost 80% of his movements within control.

What are the advantages of DBS?

It returns control over movements to the patient, restoring his independence, confidence & dignity. DBS is a reversible procedure and the strength of the electrical impulse can be adjusted to the severity of the symptoms. There is no risk of brain tissue damage as in a surgery. Most importantly, it reduces medication and its side effects by over 50%, in most cases.

Reasons for Effective results at MIOT International

We offer a combination that few hospitals in India have today which is essential for DBS.

- Team of experienced experts (neurologists, neurosurgeons, imaging & lab technologists, rehabilitation therapists & counsellors)
- State-of-the-art TRODAT scan which diagnoses Parkinson's accurately at an early stage
- Advanced imaging facilities on campus which help our surgeons map the affected centres and plan the surgery in minute detail
- Dedicated surgical suites, equipped with cutting-edge stereotactic surgical equipment
- Stringent infection-control practices that ensure 99.98% bacteria-free environments which protect patients from infection

Finally we can offer patients a definite chance at a fairly normal life.
As Karthik says, "I never thought I'd see my Appa again, the way I've always seen him. I'm glad we decided on doing DBS at MIOT"



**MIOT Neurogenic
Movement Disorder Clinic**



*Patient's name has been changed to protect his privacy

For appointment** regarding
Parkinson's Disease,
Essential Tremors or Dystonia,
+91 77080 42288
or visit www.miotinternational.com/dbs

**Prior registration mandatory.
Please bring previous medical records, if any.

