



give your child a

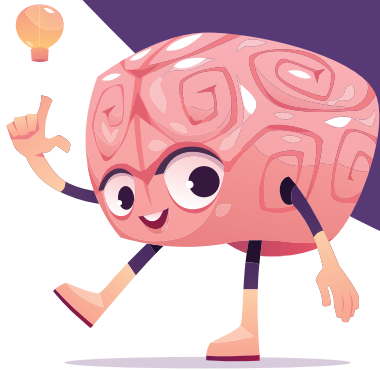
Childhood

MIOT believes Epilepsy can be cured

POWER OVER

EPILEPSY





Parents whose children have epilepsy know the drill. Just say no to anything physical or any experience that might trigger an attack. But shouldn't it be the exact opposite? Parents should say "Yes, you can" to their children for everything that makes their childhood normal - sports, swimming, outdoors, cinema.

Don't hold them back. Set them free from epilepsy.

But before we get there, let's understand the condition

Epilepsy is a chronic disorder of the brain in which there is a greater chance of getting seizures/fits repeatedly. We call a patient to be having epilepsy if he or she develops more than 2 seizures/fits occurring at least 24 hours apart and without any obvious provocation.

It can affect people of any age group. A child can be epileptic from birth due to congenital malformations of the brain, decreased blood circulation or oxygen supply to the brain at the time of birth or at any age due to trauma to the head, genetic causes, infections of the brain, tumours of the brain and metabolic abnormalities of the brain.

The right diagnosis leads to right treatment

Every patient's condition is unique. A proper **detailed history** from the family of a patient with seizure gives the most reliable information in clinically arriving at a diagnosis. **Video of the seizure episode** taken also helps the doctor to find out the type of seizure.

Our team uses a whole array of state-of-the-art technology to get a correct understanding of every patient's condition and to arrive at a diagnosis.

Sleep or awake EEG to detect the abnormal electrical discharges and from which part of the brain it is arising. Depending on the frequency and severity of seizures, Video EEG (VEEG) is needed.

3 Tesla MRI scan is done on thin slices of certain parts of brain to show up any lesion causing the epilepsy.

FDG-PET / SPECT scan is also used to locate the exact area in the brain from where the abnormal electrical discharges arise.

Subdural grid/Stereotactic EEG placement is a process where there is surgical implantation of thin wires into the brain to identify the location from where seizures arise. It's a unique technique used by the MIOT team which requires skill and high level of proficiency.

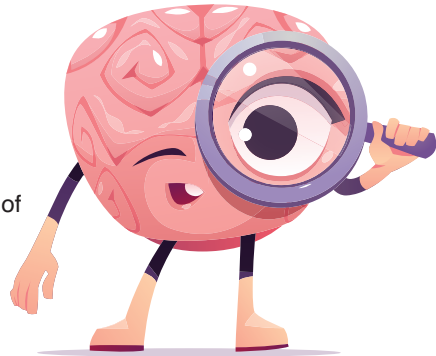
Yes, Epilepsy can be cured

You heard it right. MIOT has the Expertise and Infrastructure to manage and even cure epilepsy. Dedicated team of Epilepsy Disorder specialist, Epilepsy Surgeons, Neuro-radiologists, Nuclear Medicine experts, Neuro-technician, Neuro-intensivist, Neuro-physiotherapist, Neuro developmental language specialist and Neuro- psychologist help find the right treatment for your child as per his or her condition and help manage it over time. So your child can be a child again.



THE MIOT EXPERTISE:

Every case is discussed in the **Neuro Board** comprising of team of specialists and a comprehensive treatment plan is charted out for each patient.



Medical Management:

The right medicines in the right dosages managed over time can make 70% of the patients seizure-free. For more severe cases called Refractory Epilepsy dosages are strengthened.

Vagal Nerve Stimulation (VNS):

The Vagus nerve arises from the brain and travels through the neck to provide electrical regulation to the various organs in the body. By providing a small pacemaker implanted into the chest, external stimulation is given to this nerve in the neck which reduces the abnormal electrical activity of the brain. In children and young adults, where the focus of seizures cannot be determined and the seizures are too debilitating, then VNS can be a good option.

Surgery:

Surgery can come into play if medicines do not have the desired effect in certain cases. Surgery can help in both identifying the focus of seizures as well as to control the abnormal area.

1. Lesionectomy - This involves removal of the culprit zone responsible for seizures
2. Disconnection surgery - The abnormal zone is disconnected from the surrounding normal brain so that the seizure activity does not spread. The outcomes of epilepsy surgery vary depending on the type of surgery performed. The expected outcome is seizure control with medication. If you remain seizure-free for at least one year, your doctor may consider discontinuing your anti-seizure medication and eventually taking you off of the drugs entirely.



Comprehensive Rehab care:

Neurorehabilitation plays a crucial role in management of patients with Epilepsy. Epilepsy is known to impact not only the physical health of the individual, but also on the psychological, cognitive, behavioural and socio-economic domains. MIOT Rehab Centre is manned by a team of Clinicians, Neuro-Physiotherapist, Neuro- Psychologist, Speech & Swallow therapist, Occupational therapist and Nutritionist to provide a holistic rehab to patients with Epilepsy.



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The MIOT Advantage:

Experienced and dedicated team of Epilepsy Disorder specialist, Epilepsy Surgeons, Neuro-radiologists, Nuclear Medicine experts, Neuro-technician, Neuro-intensivist, Neuro-physiotherapist, Neuro developmental language specialist and Neuro- psychologist with more than 30yrs of experience .

One of its kind Neuro board comprising of a multidisciplinary team of specialist to discuss every case and chart out a comprehensive and tailor made treatment plan.

State-of-the-art Infrastructure: 3T MRI, advanced EEG lab, PET CT - All under 1 roof.

Modular operating theatres with laminar airflow system that reduces the chances of infection to less than 0.02%.

MIOT Rehab Centre - 1st of its kind in South India to cater to not only the physical well-being of a patient but also mental well being.

About MIOT International

- A 1000-bed multispecialty hospital
- Healthcare destination for patients from 130 countries
- 63 specialities
- Experienced and renowned 250 full-time doctors
- Sophisticated technology and instrumentation
- Best imaging sciences department in India
- State-of-the-art laboratory (ranked 8th internationally)
- 21 world-class operation theatres with laminar air-flow



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