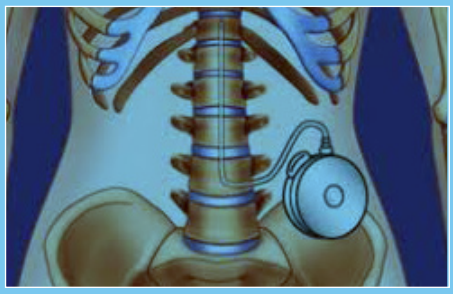
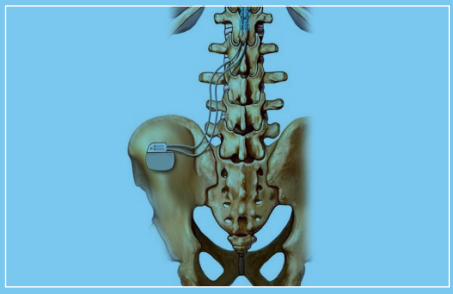
Neuromodulation









Neuromodulation
Committee

مؤسسة حمد الطبية
Hamad Medical Corporation
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Neuromodulation

- Neuromodulation changes nerve activity using electrical signals or chemicals
- It helps improve or control how your nerves work
- These surgeries can help treat long-term illnesses and can make life better for many people

Types of Neuromodulation Surgeries:

- Deep Brain Stimulation (DBS)
- Spinal Cord Stimulation
- Sacral Nerve Stimulation
- Intrathecal Baclofen Pump

What are these surgeries used for?

- Deep Brain Stimulation: Used for parkinson's disease, dystonia, tremors, obsessive compulsive disease, and epilepsy
- Spinal Cord Stimulation: Helps with back, leg, and neck pain that doesn't improve after surgery. Also helps with pain in diabetic neuropathy, vascular pain, and cancer pain
- Sacral Stimulation: Helps treat incontinence (trouble holding urine or stool) and pelvic pain
- Intrathecal Baclofen Pump: Helps treat spasticity (tight muscles) and severe pain

Common Benefits:

- Adjustable: you can change the settings by a remote
- Reversible: you can turn it off or it can be removed without causing damage
- Testable: you can test the device before having full surgery.
- Rechargeable: batteries last longer because they can be recharged

How the Surgery is Done:

- The device is placed under your skin, and everything stays inside the body

Contact Information

For more information, please contact the **Neuromodulation Clinic** at Qatar Rehabilitation Institute on Wednesdays from 7 am to 3 pm at **(40260171)**.

Patient and Family Education

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