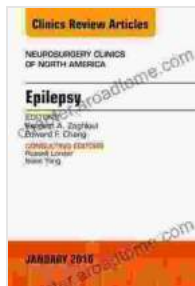


Epilepsy: An Issue of Neurosurgery Clinics of North America



Epilepsy, An Issue of Neurosurgery Clinics of North America (The Clinics: Surgery) by Michelle Benton

★★★★★ 5 out of 5

Language : English
File size : 15074 KB
Text-to-Speech : Enabled
Screen Reader : Supported
Enhanced typesetting : Enabled
Print length : 370 pages



A Comprehensive Guide to Surgical Management

Epilepsy is a neurological disorder that affects millions of people worldwide. It is characterized by recurrent seizures, which are sudden, uncontrolled electrical disturbances in the brain. Seizures can vary in severity, from brief episodes of staring or twitching to prolonged convulsions.

While there is no cure for epilepsy, it can be effectively managed with medication, surgery, or a combination of both. Surgery is often considered when medication alone is not able to control seizures. Epilepsy surgery aims to remove or disconnect the part of the brain where seizures originate.

This issue of Neurosurgery Clinics of North America provides a comprehensive review of the latest advancements in epilepsy surgery. It

includes articles on topics such as:

- Minimally invasive epilepsy surgery techniques
- Tailored treatment plans for different types of epilepsy
- Cutting-edge technologies for epilepsy surgery
- Preoperative evaluation and postoperative care
- Long-term outcomes of epilepsy surgery

This issue is a valuable resource for neurosurgeons, neurologists, and other healthcare professionals who care for patients with epilepsy. It provides up-to-date information on the latest surgical techniques and technologies, and it offers practical guidance on how to manage patients with this complex condition.

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Section 1: Minimally Invasive Epilepsy Surgery Techniques

Minimally invasive epilepsy surgery techniques are designed to minimize the size and invasiveness of the surgical incision. These techniques can be

used to remove or disconnect the part of the brain where seizures originate, while preserving healthy brain tissue.

Some of the minimally invasive epilepsy surgery techniques discussed in this issue include:

- Laser interstitial thermal therapy (LITT)
- Stereotactic radiosurgery (SRS)
- Endoscopic surgery
- Awake craniotomy

These techniques offer several advantages over traditional open surgery, including a smaller incision, less pain, and a shorter recovery time.

Section 2: Tailored Treatment Plans for Different Types of Epilepsy

No two cases of epilepsy are exactly alike. The type of seizure, the location of the seizure focus, and the patient's overall health all need to be considered when developing a treatment plan.

This issue of Neurosurgery Clinics of North America includes articles on tailored treatment plans for different types of epilepsy, including:

- Focal epilepsy
- Generalized epilepsy
- Temporal lobe epilepsy
- Frontal lobe epilepsy
- Pediatric epilepsy

By tailoring the treatment plan to the individual patient, neurosurgeons can improve the chances of successful seizure control.

Section 3: Cutting-Edge Technologies for Epilepsy Surgery

Neurosurgeons are constantly developing new and innovative technologies to improve the outcomes of epilepsy surgery. These technologies include:

- Intraoperative MRI
- Computer-assisted surgery
- Robot-assisted surgery
- Image-guided surgery

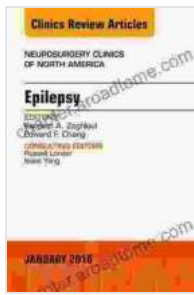
These technologies allow neurosurgeons to visualize the brain in real time, plan surgeries with greater precision, and perform surgeries with greater accuracy.

Section 4: Preoperative Evaluation and Postoperative Care

Preoperative evaluation and postoperative care are essential to the success of epilepsy surgery. Preoperative evaluation helps to identify the seizure focus and to determine the best surgical approach. Postoperative care helps to prevent complications and to ensure a smooth recovery.

This issue of Neurosurgery Clinics of North America includes articles on preoperative evaluation and postoperative care, including:

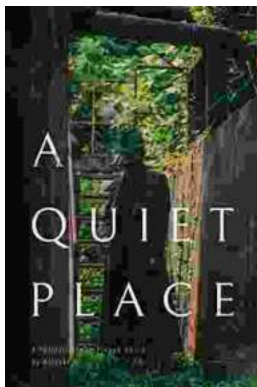
- Seizure monitoring
- Neuroimaging



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