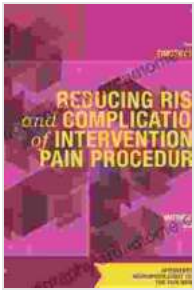
Intrathecal Drug Delivery for Pain and Spasticity: A Comprehensive Guide

Intrathecal drug delivery (IDD) is a method of administering medications directly into the spinal canal. This allows for targeted delivery of medications to the spinal cord and nerve roots, where they can provide relief from pain and spasticity.

IDD is typically used for the treatment of chronic pain and spasticity that is refractory to other treatments. It can be used to deliver a variety of medications, including opioids, local anesthetics, and baclofen.

IDD offers a number of benefits over other methods of pain and spasticity management. These benefits include:



Intrathecal Drug Delivery for Pain and Spasticity E-Book: A Volume in the Interventional and Neuromodulatory Techniques for Pain Management Series (Interventional ... Techniques in Pain Management Book 2)

★★★★★ 5 out of 5

Language	: English
File size	: 4369 KB
Text-to-Speech	: Enabled
Enhanced typesetting	: Enabled
Print length	: 220 pages
Screen Reader	: Supported

- **Targeted delivery:** IDD allows for targeted delivery of medications to the spinal cord and nerve roots, where they can provide relief from pain and spasticity.
- **Reduced side effects:** Because medications are delivered directly to the spinal canal, IDD can reduce the risk of side effects that are associated with oral or intravenous administration.
- **Improved quality of life:** IDD can improve quality of life for people with chronic pain and spasticity. It can reduce pain and spasticity, and improve function and mobility.

IDD is typically considered for people who have chronic pain or spasticity that is refractory to other treatments. Candidates for IDD include people with:

- **Chronic pain:** IDD can be used to treat a variety of chronic pain conditions, including back pain, neck pain, and neuropathic pain.
- **Spasticity:** IDD can be used to treat spasticity in people with multiple sclerosis, cerebral palsy, and spinal cord injuries.

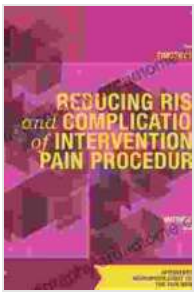
The IDD procedure is typically performed by a neurosurgeon or interventional pain specialist. The procedure involves inserting a catheter into the spinal canal and threading it to the desired location. The catheter is then connected to a pump that delivers the medication.

The IDD pump is typically implanted under the skin in the abdomen or chest. The pump can be programmed to deliver medication at a continuous rate or on an as-needed basis.

IDD is a safe and effective procedure, but it does carry some risks and complications. These risks include:

- **Infection:** The risk of infection is small, but it is a potential complication of any surgery.
- **Bleeding:** Bleeding is another potential complication of IDD surgery.
- **Nerve damage:** Nerve damage is a rare complication of IDD surgery.
- **Hardware failure:** The IDD pump and catheter can fail, which can require surgery to replace them.

IDD is a valuable treatment option for people with chronic pain and spasticity. It can provide targeted delivery of medications to the spinal cord and nerve roots, where they can provide relief from pain and spasticity. IDD can improve quality of life for people with chronic pain and spasticity.



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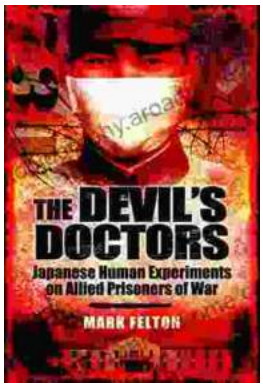

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