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Manuscript Type: CASE REPORT

Long-term effect of intrathecal baclofen treatment on bone health and body composition after spinal cord injury: A case matched report

Ifon DE *et al.* Intrathecal baclofen and bone health in SCI

Ifon E Dora, Mina P Ghatas, John C Davis, Refka E Khalil, Robert A Adler, Ashraf S Gorgey

Abstract

BACKGROUND

Match Overview

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Intrathecal Baclofen Pump for Spasticity

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3382401>

May 01, 2005 · **Intrathecal baclofen** (Lioresal) is considered medically necessary for the treatment of intractable spasticity caused by **spinal cord** disease, **spinal cord injury**, or multiple sclerosis. **Baclofen** is considered medically necessary for persons who require spasticity to sustain upright posture, balance in locomotion, or increased function.

Intrathecal Baclofen Therapy for the Control of Spasticity ...

<https://www.sciencedirect.com/science/article/pii/B9780128053539000723>

Intrathecal baclofen therapy (IBT) is a potent method to manage spastic hypertonia and related features of the upper motor neuron syndrome. IBT infusion exerts its therapeutic **effect** by delivering **baclofen** directly into the cerebrospinal fluid with rapid distribution to gamma aminobutyric acid (B)-rich neurons in lamina II of the **spinal cord**.

Author: Michael Saulino **Publish Year:** 2018

Adults with cerebral palsy: a workshop to define the ...

<https://onlinelibrary.wiley.com/doi/10.1111/j.1469-8749.2009.03462.x>

Intrathecal baclofen. **Intrathecal baclofen** (ITB) reduces both dystonic and spastic tonal abnormalities and is often preferred to oral **baclofen** or other antispasmodics because its direct delivery to the **spinal cord** diminishes the sedating side effects observed with oral medication.

Cited by: 107 **Author:** Laura L Tosi, Nancy Maher, D Winslow ...

Publish Year: 2009

Baclofen dosage after traumatic spinal cord injury: A ...

https://www.researchgate.net/publication/269933002_Baclofen_dosage_after_traumatic...

No significant increase in dosage is seen in the **long term**. Conclusions: In multiple sclerosis and **spinal cord injury** patients, **intrathecal baclofen** therapy has a complication rate of 1% per month.



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[A Review of Spasticity Treatments: Pharmacological and ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/pmid/25750484>

a. **Baclofen** . **Baclofen** is considered the first-line **treatment** for spasticity, especially in adult SCIs. 5 It works pre- and postsynaptically as a gamma aminobutylic acid (GABA) B agonist at the **spinal** level 14 and binds to its receptors, leading to membrane hyperpolarization. This restricts calcium influx, which subsequently (1) restricts endogenous excitatory neurotransmitters from being ...

Cited by: 72**Author:** Eric Y. Chang, Nilasha Ghosh, Daniel Yan...**Publish Year:** 2013

[Intrathecal Baclofen for Reducing Spasticity - Spinal Cord ...](#)

<https://scireproject.com/.../intrathecal-baclofen-reducin> ▼

There is level 4 evidence (from one **case** series; Meythaler et al. 2003) that adding cyproheptadine to **baclofen** and benzodiazepines may be useful for the **treatment of intrathecal baclofen** withdrawal. Bolus or **long-term intrathecal baclofen** decreases spasticity and may improve functional outcomes with low complication rates and is a cost ...

[Influence of Baclofen on Laryngeal and Spinal Motor Drive ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4936775>

Baclofen, a centrally acting GABA-Breceptor agonist, has been traditionally used as a **treatment** for muscle spasticity in patients with **spinal cord** injuries or degenerative disorders such as multiple sclerosis. 22–27 More recently, **baclofen** has been used to treat cerebral palsy spasticity. 27–32 Belvisi et al. (1989) showed that GABA has an ...

Cited by: 3**Author:** Daniel Castillo, Teresa Pitts**Publish Year:** 2013

[Adults with cerebral palsy: a workshop to define the ...](#)

<https://onlinelibrary.wiley.com/doi/10.1111/j.1469-8749.2009.03462.x>

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