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**Manuscript NO:** 57294

**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

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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...](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/PMC25750484>

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 cyprohetptadine 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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