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**Name of Journal:** *World Journal of Clinical Cases*

**Manuscript NO:** 59511

**Manuscript Type:** CASE REPORT

**Botulinum toxin injection for Cockayne syndrome with muscle spasticity over bilateral lower limbs: A case report**

Hsu LC *et al.* Botox injection for Cockayne syndrome

Lin-Chieh Hsu, Po-Ying Chiang, Wei-Pin Lin, Yao-Hong Guo, Pei-Chun Hsieh, Ta-Shen

Kuan, Wei-Chih Lien, Yu-Ching Lin

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1. Introduction. **Botulinum** neurotoxin (BoNT) **injections** are a well-established and effective form of management for focal **muscle over**-activity, including limb **spasticity** (Esquenazi et al., 2010, 2013 bib\_Esquenazi\_et\_al\_2010 bib\_Esquenazi\_et\_al\_2010 bib\_Esquenazi\_et\_al\_2013). However, the efficacy and optimal timing of BoNT **injections** for patients who require surgery is unclear.

**Author:** Sepehr Saeidiborojeni, Patricia Bran...

**Publish Year:** 2020

## Successful use of botulinum toxin a in intractable, severe ...

<https://www.indianpain.org/text.asp?2017/31/3/201/223675>

**Injections of botulinum toxin A** have been shown to be useful in the treatment of etiologically diverse types of **muscle** spasms. Ultrasonography (USG) has been used as a guide for confirming **muscle** fasciculations and also is an effective tool for confirming precise needle positioning and correct drug placement.

## Botox (onabotulinumtoxinA) dose, indications, adverse ...

<https://www.pdr.net/drug-summary/Botox-onabotulinumtoxinA-52> ▼

The degree and pattern of **muscle spasticity** at the time of re-**injection** may require alterations in the dose and the muscles to be injected.[29334] OnabotulinumtoxinA has demonstrated significant reductions in **lower** extremity **muscle** tone but inconsistent results with functional outcomes, suggesting that functional gains are highly patient-specific.

### PEOPLE ALSO ASK

Does botulinum toxin reduce spasticity?



How to treat strabismus with botulinum toxin?



What are the side effects of botulinum injections?



Botulinum toxin injection for Cockayne syndrome with muscle spas



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Dec 01, 2020 · 1. Introduction. **Botulinum** neurotoxin (BoNT) **injections** are a well-established and effective form of management for focal **muscle over**-activity, including limb **spasticity** (Esquenazi et al., 2010, 2013 bib\_Esquenazi\_et\_al\_2010 bib\_Esquenazi\_et\_al\_2010 bib\_Esquenazi\_et\_al\_2013).However, the efficacy and optimal timing of BoNT **injections** for patients who require surgery is unclear.

**Author:** Sepehr Saeidiborojeni, Patricia Branco ... **Publish Year:** 2020

### Selective Posterior Rhizotomy for Painful Spasticity in ...

<https://academic.oup.com/neurosurgery/article-abstract/54/5/1268/2727284> ▾

May 01, 2004 · In addition, **botulinum toxin injections** could have been attempted in the two reported patients. According to the authors, however, **botulinum toxin injections** were not approved in Japan for treatment of **spasticity** at that time. If **botulinum toxin** is effective in the long term, it may become the treatment of choice for focalized **spasticity**.


**Cited by:** 15 **Author:** Toru Fukuhara, Ichiro Kamata  
**Publish Year:** 2004

#### PEOPLE ALSO ASK

- Does botulinum toxin reduce spasticity? ▾
- How to treat strabismus with botulinum toxin? ▾
- What are the side effects of botulinum injections? ▾
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Author: Sepehr Saeidiborojeni, Patricia Bran... Publish Year: 2020

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- Is botulinum toxin covered by Medicare? ▼
- What is the CPT code for Botox injection for migraine? ▼
- What is the CPT code for botulism? ▼

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Author: Valeria Pingue, Marta Gentili, Anna ... Publish Year: 2020

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