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Effects of combined rTMS and visual feedback on the rehabilitation of supernume



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### (PDF) Supernumerary phantom limbs in spinal cord injury

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**Supernumerary phantom limbs in spinal cord injury.** SCI rehabilitation centre. After a ski accident, a 71-year-old man suffered an incomplete SCI (level C3; AIS C, central cord syndrome), with a C3/C4 dislocation fracture. From the first week after injury, he experienced a phantom duplication of both upper limbs that lasted for 7 months.

### Current and future options for the management of phantom ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3308715>

Mar 07, 2012 · Several studies have shown that a single session of rTMS can transiently **relieve pain** in some patients with **chronic neuropathic pain**,<sup>50–54</sup> and a multiple application on several consecutive days can lead to prolongation of the **effects**.<sup>55,56</sup> However, results from **rTMS treatment** specifically in patients with PLP are anecdotal, based on case-reports but not sham-controlled trials, and therefore not conclusive.<sup>55–57</sup> Although the application of **rTMS** ...

**Cited by:** 68

**Author:** Helena Knotkova, Ricardo A Cruciani, V...

**Publish Year:** 2012

### Illusion of arm movement evoked by tendon vibration in ...

<https://content.iospress.com/articles/restorative-neurology-and-neuroscience/rnn160660> ▾

Following **spinal cord injury** (SCI), **motor and sensory connections** between the brain and parts of the body below-the-lesion level are partially or totally impaired. Objective: The present investigation is a descriptive study aimed to investigate whether people living with SCI may experience movement illusions comparable to a control group.

**Cited by:** 6

**Author:** Gabriele Fusco, Emmanuele Tidoni, Nico...

**Publish Year:** 2016

### Neurorehabilitation in upper limb amputation ...

<https://jneuroengrehab.biomedcentral.com/articles/10.1186/s12984-017-0256-8> ▾

May 22, 2017 · Participants will even report a sense of ownership with the **rubber hand** , and can develop identity with a **supernumerary** hand without a loss of ownership of their own hand . Evidence of identity with artificial hands, even those that **reshape** the human body (e.g., **supernumerary hands**), is critical to consider as it suggests that ownership is not essentially tied to the actual presence of **ascending sensory feedback** ...

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52%

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

**Manuscript NO:** 49919

**Manuscript Type:** CASE REPORT

**Effects of combined rTMS and visual feedback on the rehabilitation of  
supernumerary phantom limbs in a patient with spinal cord injury: A case  
report**

Yin-Shan Lu, Pei Tong, Tie-Cheng Guo, Xin-Hua Ding, Song Zhang, Xiu-Juan  
Zhang

**Abstract**

**BACKGROUND**

Supernumerary phantom limb (SPL) caused by spinal cord injury (SCI) has

### Match Overview

1	<b>Crossref</b> 33 words Ja Young Choi, Hyo In Kim, Kil Chan Lee, Zee-A Han. "Atypical Supernumerary Phantom Limb and Phantom Limb P...	2%
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Effects of combined rTMS and visual feedback on the rehabilitation of supernumerary

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### The effect of virtual visual feedback on supernumerary ...

[https://www.researchgate.net/publication/272186492\\_The\\_effect\\_of\\_virtual\\_visual...](https://www.researchgate.net/publication/272186492_The_effect_of_virtual_visual...)

We characterized the effect of virtual **visual feedback** (VVF) on **supernumerary phantom limb pain** (SPLP) in a patient with high cervical cord injury. The subject was a 22-year-old m

### (PDF) Supernumerary phantom limbs in spinal cord injury

[https://www.researchgate.net/publication/47794935\\_Supernumerary\\_phantom\\_limbs\\_in...](https://www.researchgate.net/publication/47794935_Supernumerary_phantom_limbs_in...)

**Supernumerary phantom limbs in spinal cord injury.** SCI rehabilitation centre. After a ski accident, a 71-year-old man suffered an incomplete SCI (level C3; AIS C, central cord syndrome), with a C3/C4 dislocation fracture. From the first week after injury, he experienced a phantom duplication of both upper limbs that lasted for 7 months.

### Current and future options for the management of phantom ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3308715>

Mar 07, 2012 · Others. There is a case report for baclofen in PLP that reports benefit, a positive controlled trial in PHN, a positive controlled trial for **diazepam**, and an open label trial for alprazolam for the management of PPN. There are case series that report benefit with **corticosteroids** like **prednisone** **dexamethasone** for PPN.

Cited by: 66

Author: Helena Knotkova, Ricardo A Cruciani, Vol...

Publish Year: 2012

### Illusion of arm movement evoked by tendon vibration in ...

<https://content.iospress.com/articles/restorative-neurology-and-neuroscience/rmn160660> ▾

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Cited by: 7

Author: Gabriele Fusco, Emmanuele Tidoni, Nicol...

Publish Year: 2016

### Transcranial magnetic stimulation in subjects with phantom ...

<https://www.sciencedirect.com/science/article/pii/S0361923018310281>

The visual feedback was found to play a crucial role, since it improved **motor performance** occurred after observation of a simple action, but not after **repetitive motor training** of the **nontarget hand** without MVF. cTBS over the M1, but not over the control site in the **occipital cortex**, disrupted the beneficial effects of MVF.