

Name of Journal: *World Journal of Anesthesiology*

EspS Manuscript NO: 20975

Manuscript Type: Review

Transcranial magnetic stimulation as a new tool to control pain perception

Emanuela Onesti, Maria Cristina Gori, Vittorio Frasca, Maurizio Inghilleri

Abstract

Treatment for chronic pain is frequently unsuccessful or characterized by side-effects. The high-frequency repetitive transcranial magnetic stimulation (HF-rTMS) has been suggested in the management of refractory chronic pain. Various studies have shown that HF-rTMS sessions of long-duration applied at primary motor cortex induce pain relief

Match Overview



1

CrossCheck 52 words

Lefaucheur, Jean-Pascal, Nathalie André-Obadia, Andrea Antal, Samar S. Ayache, Chris Baeken, David H. Benninger, Ro

1%

Transcranial magnetic stimulation (TMS) of the sensorimotor cortex ...

www.ncbi.nlm.nih.gov/pubmed/12738431

To solve this problem we used transcranial magnetic stimulation (TMS) as an 'interference approach'. tool to test the consequence on pain perception of ... judged that the stimulus was painful on more trials than control when dTMS was....

Noninvasive Transcranial Brain Stimulation and Pain

www.ncbi.nlm.nih.gov/pmc/articles/PMC2697608/

Transcranial magnetic stimulation (TMS) and transcranial direct current stimulation (tDCS) ... however, there is clear evidence that these tools can reduce pain and modify ... For example, one problem a clinician or new researcher faces is that most stimulation of a particular brain region to modulate perception of pain, it is....

[PDF] Effects of transcranial theta-burst stimulation on acute pain perception

www.researchgate.net/profile/Andrea_Antal/publication/45660364_Effects_of_transc

subjective pain perception after cTBS could be objectified by alterations of LEPs that reflect pain related ... to reduce chronic pain. ... magnetic stimuli, a new era was introduced with re- ... tool for research and therapeutic applications in terms.

Transcranial magnetic stimulation - Wikipedia, the free encyclopedia

en.wikipedia.org/wiki/Transcranial_magnetic_stimulation

Other adverse effects of TMS include discomfort or pain, transient induction ... The Royal Australia and New Zealand College of Psychiatrists has endorsed to stimulate deeper layers of the motor cortex, such as that which controls leg motion. ... the occipital cortex, 'phosphenes'. (flashes of light) might be perceived by the....

Transcranial magnetic stimulation and the human brain : Article ...

www.nature.com/articles/35018000

It is now widely used as a research tool to study aspects of human brain physiology including motor ... In the visual system, TMS has been used to study perception. ... Different aspects of motor control have also been studied using TMS. Single-pulse TMS is easy to employ because it is noninvasive, non-painful and safe.

Daily repetitive transcranial magnetic stimulation of primary motor ...

www.sciencedirect.com/science/article/pii/S0304395913001115

... repetitive transcranial magnetic stimulation (rTMS) on pain relief in patients with ... The medical

[网页](#)[新闻](#)[图片](#)[视频](#)[更多 ▾](#)[搜索工具](#)

找到约 297,000 条结果 (用时 0.65 秒)

Google 学术: Transcranial magnetic stimulation as a new tool to control pain perception

Transcranial DC stimulation (tDCS): a tool for double- ... - Gandiga - 被引用次数: 631

Transcranial magnetic stimulation and the human brain - Hallett - 被引用次数: 994

... transcranial direct current stimulation on perception ... - Boggio - 被引用次数: 124

Transcranial magnetic stimulation (TMS) of the sensorimotor ...

www.ncbi.nlm.nih.gov/pubmed/12738431 ▾ 翻译此页

作者: M Kanda - 2003 - 被引用次数: 76 - 相关文章

To solve this problem we used transcranial magnetic stimulation (TMS) as an 'interference approach' tool to test the consequence on pain perception of ... judged that the stimulus was painful on more trials than control when dTMS was ...

Noninvasive Transcranial Brain Stimulation and Pain

www.ncbi.nlm.nih.gov > ... > PubMed Central (PMC) ▾ 翻译此页

作者: AC Rosen - 2009 - 被引用次数: 39 - 相关文章

Transcranial magnetic stimulation (TMS) and transcranial direct current stimulation (tDCS) ... however, there is clear evidence that these tools can reduce pain and modify ... For example, one problem a clinician or new researcher faces is that most stimulation of a particular brain region to modulate perception of pain, it is ...

Transcranial magnetic stimulation and the human brain ...

www.nature.com > Journal home > Archive > Progress ▾ 翻译此页

作者: M Hallett - 2000 - 被引用次数: 991 - 相关文章

It is now widely used as a research tool to study aspects of human brain physiology including ... In the visual system, TMS has been used to study perception ... Different

[网页](#) [新闻](#) [图片](#) [视频](#) [更多 ▾](#) [搜索工具](#)

找到约 300,000 条结果 (用时 0.62 秒)

Google 学术 : Transcranial magnetic stimulation as a new tool to control pain perception

Transcranial DC stimulation (tDCS): a tool for double- ... - Gandiga - 被引用次数 : 633

Transcranial magnetic stimulation and the human brain - Hallett - 被引用次数 : 994

... transcranial direct current stimulation on perception ... - Boggio - 被引用次数 : 124

Transcranial magnetic stimulation (TMS) of the sensorimotor ...

www.ncbi.nlm.nih.gov/pubmed/12738431 ▾ 翻译此页

作者 : M Kanda - 2003 - 被引用次数 : 76 - 相关文章

To solve this problem we used transcranial magnetic stimulation (TMS) as an 'interference approach' tool to test the consequence on pain perception of ... judged that the stimulus was painful on more trials than control when dTMS was ...

Noninvasive Transcranial Brain Stimulation and Pain

www.ncbi.nlm.nih.gov > ... > PubMed Central (PMC) ▾ 翻译此页

作者 : AC Rosen - 2009 - 被引用次数 : 39 - 相关文章

Transcranial magnetic stimulation (TMS) and transcranial direct current stimulation (tDCS) ... however, there is clear evidence that these tools can reduce pain and modify ... For example, one problem a clinician or new researcher faces is that most stimulation of a particular brain region to modulate perception of pain, it is ...

Transcranial magnetic stimulation and the human brain ...

www.nature.com > Journal home > Archive > Progress ▾ 翻译此页

作者 : M Hallett - 2000 - 被引用次数 : 994 - 相关文章

It is now widely used as a research tool to study aspects of human brain physiology including ... In the visual system, TMS has been used to study perception. ... Different