

## **Studies from Karolinska University Hospital Have Provided New Information about Hyperbaric Oxygen (Hyperbaric Oxygen Therapy as Adjuvant Treatment for Hardware-Related Infections in Neuromodulation)**

*Health & Medicine Week*. (Apr. 20, 2018): p2076.

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### Full Text:

2018 APR 20 (NewsRx) -- By a News Reporter-Staff News Editor at Health & Medicine Week -- New research on Hyperbaric Oxygen is the subject of a report. According to news reporting out of Stockholm, Sweden, by NewsRx editors, research stated, "In neuromodulation therapies, hardware-related infections are a major challenge often leading to hardware removal. To investigate the role of adjuvant hyperbaric oxygen therapy (HBOT) in hardware-related infections."

Our news journalists obtained a quote from the research from Karolinska University Hospital, "Fourteen hardware-related infection events in 12 consecutive patients between 2002 and 2015 were treated with antibiotics and adjuvant HBOT at the Karolinska University Hospital (Stockholm, Sweden). Two time-independent infection events related to hardware replacements occurred in 2 patients. Infection resolution and the need for hardware removal were assessed. Twelve out of 14 events of hardware-related infection were successfully treated without hardware removal (86%). The 2 patients treated twice with HBOT on 2 time-independent occasions could retain their hardware in both cases. Hardware was removed following HBOT failure in 2 infection events, with long-term infection control achieved in all patients. Further, an intrathecal pump malfunction caused by HBOT at 2.8 bars was observed, leading to a change in the manufacturer's guidelines. This study indicates a potential benefit of adjuvant HBOT in the treatment of hardware-related infections in neuromodulation, diminishing the need for hardware removal and treatment interruption."

According to the news editors, the research concluded: "Prospective studies are warranted to establish the role of adjuvant HBOT in the treatment of hardware-related infections in neuromodulation."

For more information on this research see: Hyperbaric Oxygen Therapy as Adjuvant Treatment for Hardware-Related Infections in Neuromodulation. *Stereotactic and Functional Neurosurgery*, 2018;():. (Karger - [www.karger.com/](http://www.karger.com/); *Stereotactic and Functional Neurosurgery* - [content.karger.com/ProdukteDB/produkte.asp?Aktion=JournalHome&ProduktNr=224132](http://content.karger.com/ProdukteDB/produkte.asp?Aktion=JournalHome&ProduktNr=224132))

Our news journalists report that additional information may be obtained by contacting J. Bartek, Dept. of Neurosurgery, Karolinska University Hospital, Stockholm, Sweden. Additional authors for this research include S. Skyrman, M. Nekludov, T. Mathiesen, F. Lind and G. Schechtmann.

Keywords for this news article include: Sweden, Europe, Therapy, Stockholm, Chalcogens, Hyperbaric Oxygen, Health and Medicine.

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The citation for this news report is: NewsRx. Studies from Karolinska University Hospital Have Provided New Information about Hyperbaric Oxygen (Hyperbaric Oxygen Therapy as Adjuvant Treatment for Hardware-Related Infections in Neuromodulation). *Health & Medicine Week*. April 20, 2018; p 2076.

### **Source Citation** (MLA 8<sup>th</sup> Edition)

"Studies from Karolinska University Hospital Have Provided New Information about Hyperbaric Oxygen (Hyperbaric Oxygen Therapy as Adjuvant Treatment for Hardware-

Related Infections in Neuromodulation)." *Health & Medicine Week*, 20 Apr. 2018, p. 2076. *Health Reference Center Academic*, <http://link.galegroup.com/apps/doc/A534724842/HRCA?u=txshracd2570&sid=HRCA&xid=5c775616>. Accessed 6 Oct. 2018.

**Gale Document Number:** GALE|A534724842