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Observational Study

Autonomic laterality in caloric vestibular stimulation

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Abstract

BACKGROUND

Caloric stimulation of the vestibular system is associated with autonomic response. The lateralization in the nervous system activities also involves the autonomic nervous system.

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Autonomic laterality in caloric vestibular stimulation



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[Vestibular stimulation: A simple but effective ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4518401>

Vestibular stimulation prevent/delay development of diabetes by increasing insulin secretion through vagal **stimulation**. Neuro-anatomical studies in the rabbit and in the cat have identified descending vestibulo-**autonomic** pathways from the caudal portion of the medial **vestibular** nucleus and the IVN to the dorsal motor nucleus of the vagus nerve, the nucleus of the solitary tract, and some brain ...

[PDF] [POSTURAL ASYMMETRY REDUCTION BY VESTIBULAR ...](#)

https://www.medicaljournals.se/jrm/content_files/download.php?doi=10.1080/1650197730914

Vestibular stimulation was performed using a **cold ear caloric stimulation**. The external ear canal was irrigated with 60 cc of cold (20C) water for 30 seconds. In hemiparetic patients, the **controlesional ear** was irrigated; in control subjects, the **left ear**. During **stimulation**, the patient was blindfolded and was sitting on a chair. His head was tilted approximately 30 forward. Then

[Non-Invasive Neuromodulation Using Time-Varying Caloric ...](#)

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5074346>

Oct 07, 2016 - **Caloric vestibular stimulation** (CVS) to elicit the **vestibulo-ocular reflex** has long been used in clinical settings to aid in the diagnosis of balance disorders and to confirm the absence of **brainstem** function. While a number of studies have hinted at the potential therapeutic applications of CVS, the **limitations** of existing devices have frustrated that potential. Current CVS irrigators use ...

Cited by: 7

Author: Robert D. Black, Lesco L. Rogers, Kriste...

Publish Year: 2016

[Caloric Vestibular Stimulation Helps With Parkinson ...](#)

<https://www.mdmag.com/medical-news/vestibular-stimulation-parkinsons-symptoms> ▼

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Understanding the links between vestibular and limbic ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5320810>

Apr 13, 2016 · **Vestibular stimulation** regulates **autonomic** nervous system to influence emotions. The activity of **autonomic** nervous system (ANS) is considered as a major component of peripheral nervous system, which can influence emotional response.[] Within this, the balancing regulation of sympathetic and parasympathetic systems in influencing several systemic physiology is well known.

Vestibular stimulation: A simple but effective ...

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC4518401>

Vestibular stimulation prevent/delay development of diabetes by **modulating autonomic activity**. The **vestibular system** contributes to **autonomic regulation** that have clinical implications. Patients with peripheral and central **vestibular abnormalities** manifest both symptoms and signs of **autonomic dysfunction** presumably via compromised **vestibulo-autonomic** connections.

Studies of caloric vestibular stimulation: implications ...

<https://onlinelibrary.wiley.com/doi/abs/10.1111/j.1601-5215.2007.00208.x>

Objective: **Caloric vestibular stimulation** (CVS) has traditionally been used as a tool for neurological diagnosis. More recently, however, it has been applied to a range of phenomena within the cognitive neurosciences. Here, we provide an overview of such studies and review our work using CVS to

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