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Updates in tinnitus -can biomodulation be a safe and easy way for relief?

Abstract: Tinnitus is a common auditory symptom that affects approximately 10-15% of the population. It is characterized by the perception of sound without an external source. The pathophysiology of tinnitus is complex and involves both peripheral and central auditory pathways. Recent research has focused on the role of neural plasticity and the potential for biomodulation as a treatment approach. Biomodulation, which involves the use of electrical or magnetic fields to modulate neural activity, has shown promising results in animal models and small-scale human studies. This review discusses the current state of knowledge regarding biomodulation for tinnitus relief, including the underlying mechanisms, safety, and efficacy. It also highlights the need for further research to optimize treatment protocols and identify the most effective biomodulation techniques for clinical use.

Biography

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