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Effects of **infrasound** with low sound pressure level on the content of **IGF-1** in brain of rats with **focal cerebral** ischemia-refusion **injury** / 中华物理医学与康复杂志

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ABSTRACT
Objective To study the effects and mechanisms of **infrasound** with low sound pressure level on **focal cerebral** ischemia-refusion **injury**. Methods **Focal cerebral** ischemia was produced by 2 hours of occlusion of the middle **cerebral** artery in rats. lnfrasound generated by **infrasound** 8TM device was used as treatment factor. Thirty-two Sprague-Dawley rats were divided into three groups: sham group (n=8), model group (n=8) and in-frasound group (n=16) , and the **infrasound** group was subdivided into 20- and 120-min **infrasound** groups, with 8 rats in each group. Neurological symptoms was assessed at 2 h, 1 d, 3 d and 7 d, respectively. These rats were sacrificed after 7 days of **infrasound** treatment and their brains were harvested. The number of **IGF-1** posive cells of ischemia cortex was counted by using immunohistochemical technique. Results Compared with model group, neurological symptoms of rats in 120-min **infrasound** group was significantly improved (P<0.05); the number of **IGF-1** positive cells of ischemia cortex in 120-min **infrasound** group increased significantly as compared with that in model group (P<0.01). Conclusion **Infrasound** with low sound pressure level (120 min/d, 7 d) could exert neuroprotective effect in **focal cerebral** ischemia **injury** by increasing expression of **IGF-1** in brain.

Palavras-chave
Infrasound; **Focal cerebral** ischemia; **Ischemia-reperfusion**; **IGF-1**

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