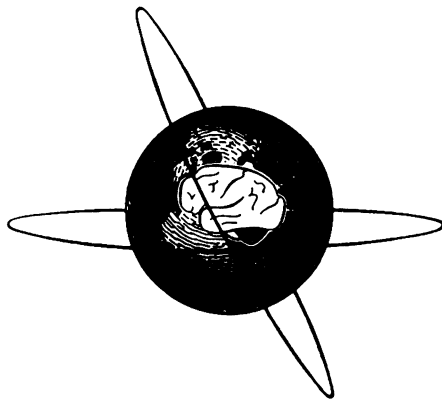


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74. H/M ratio in spasticity before and after therapy with vibration impulses. – K.-H. Krause, R. v. Kummer and U. Morche (Neurolog. Univ.-Klinik, Heidelberg)

After first attempts at therapy of severe spasticity with mechanical vibration impulses to the back had shown good clinical results, the effect of this therapy was measured by the H/M ratio. Six patients with severe spasticity from multiple sclerosis were investigated before and immediately after treatment with the Schwingextensor. All the patients showed a reduction of the H/M ratio after treatment ($\bar{x} \pm \text{S.D.}$ from 0.275 ± 0.200 before to 0.134 ± 0.121 after therapy, particularly from 0.40 to 0.33, from 0.65 to 0.35, from 0.056 to 0.027, from 0.125 to 0.118, from 0.160 to 0.086 and from 0.26 to 0.19) with significance in the Wilcoxon test ($P < 0.05$).

The results confirmed the subjective and clinical impression of improvement of spasticity with this therapy. The cause of this effect, lasting up to 24 h, could be a presynaptic inhibition of tendon jerks by vibration stimuli. Evaluation of these first results in larger groups seems to be of high interest.