

## **Abstract**

Depressive disorder is one of the neuropsychiatric diseases with the highest prevalence in the Czech population and a serious health problem. This thesis aimed to investigate the therapeutic effect of repetitive transcranial magnetic stimulation (rTMS) on depressive and anxiety symptoms in patients with depressive disorder. The main aim was to compare the therapeutic efficacy of two rTMS protocols: high-frequency rTMS (HF-rTMS) and intermittent theta-burst stimulation (iTBS). The theoretical part describes the issue of depressive disorder not only in a medical context. Furthermore, current treatment options for depressive disorder are explained. The second half is specifically focused on rTMS. In the empirical part, part of the results from a large double-blind randomized trial conducted in the psychiatric ward of the Most Hospital are presented. Both self-assessment questionnaires and administrator-rated questionnaires were used to collect data. The statistical analysis performed showed that both HF-rTMS and iTBS protocols were effective in reducing symptoms of depression and anxiety after ten stimulation sessions. No significant difference in efficacy was found between HF-rTMS and iTBS, suggesting their comparable effectiveness on subjective and objective measures. The findings of this study contribute to the understanding of optimal stimulation modalities to achieve the best effect in the treatment of depressive disorder while reducing adverse effects and increasing comfort for patients and healthcare professionals.

**Key words:** depressive disorder; depression; anxiety; repetitive transcranial magnetic stimulation; rTMS; non-invasive brain stimulation; NIBS