

**Title:**

The effect of music therapy on gait and balance in patients suffering from multiple sclerosis

**Abstract:**

This bachelor thesis investigates how music therapy affects the movement and balance of patients with multiple sclerosis (MS). This thesis has a theoretical part and a practical part. The theoretical part is concerned with the phenomena of MS and music therapy. One chapter of the theoretical part details foreign studies investigating the effect of music therapy on patients with MS. The practical part explores the duration of music therapy sessions and includes an example of a model appointment, because as part of the practical part, she personally led the lessons of music therapy with patients for the duration of three months. The practical part also includes comparisons of the results from the entrance and final examination of the respondents. The tests included in this thesis focus on the most frequently occurring symptoms in patients with MS, in particular on balance and walking. For the purpose of this bachelor thesis, the author decided to perform examinations using the apparatus Gaitrite and others. The author also added a test for the soft monitoring of hand and questionnaires, which were aimed not only on motor activity, but also on the mental side of patients' health.

**Key words:** multiple sclerosis music therapy, gait, balance, Gaitrite