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Title of bachelors thesis:

The influence of rhythmic auditory stimulation on gait-pattern of patients with brain damage

Abstract:

The Bachelor's thesis is focused on influences of musical therapy method RAS (Rhythmic Auditory Stimulation) upon the quality of patient's walking with the brain injury. The thesis summarizes and compares theoretical knowledges of music therapy in patients with pathological gait-pattern due to brain damage.

Theoretical part of the Bachelor's thesis is intended to focus on the brain injury both caused by a trauma and an infarct. In the following part are described the physiologic and pathological mechanisms of walking. The final chapter of the theoretical part introduces the exact principles of musical therapy, it's variants and technics that can be used in the treatment of patients. In this chapter I have also referred on the studies that correlate the topic.

The practical part contains two casuistries of the patients with the brain injury, where is described kinesiology and the therapeutic exercises in the way of the program. In order to esteem the progress of aplicated therapy I used the special "walking tests".

Key words: brain damage, music therapy, pathological gait-pattern, Rhythmic Auditory Stimulation, RAS