

BACHELOR THESIS ABSTRACT

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Opponent:

The title of the work: The objective assessment of the effect of the therapy:
Accelerometry

The usage of the accelerometry towards objective the assessment of the therapy's effect
of the upper limb's movement's disorder's

Keywords: accelerometry, benefits accelerometers, limb dominance, FIM test, Jebson -
Taylor test

Abstract:

The work consists of theoretical and practical parts. The accelerometry and types of accelerometers are described in general in the theoretical part. An effectiveness of their measurement, both at home and abroad and the appropriateness of its usage for different patients are evaluated and design and control as well. Theoretical part also deals with the contribution of accelerometers, which are built in mobile devices (e.g. iPhone). There are described other standardized tests, which were used in the practical part. There were used FIM and Jebson-Taylor tests, whose results provide data for a better assessment of patient progress. The goal of the practical part is an objective evaluation of the effect of therapy. An experimental part primarily focuses on the comparison of upper limb dominance of selected patients. Furthermore, there is a comparison of the results of measurements of accelerometers Jebson-Taylor and FIM test.