

Abstract

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Title of bachelor thesis: Evaluation of deviations of subjective visual vertical

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The goal of this thesis is to give information on the examination of patients' subject visual verticals (hereinafter the SVV) and the verification of the possibility of using a new method for measuring the SVV created at the Joint Department of Biomedical Engineering Czech Technical University and the 1st Faculty of Medicine of Charles University in Prague

The measurement of the SVV was performed in two manners:

- 1) Using The Bucket Method
- 2) Using the Wii Balance Board with software Stereo Balance

The thesis is divided into two parts: theoretical and practical. In the theoretical part I have focused on the basic terminology and the illnesses that are accompanied by a disorder in the perception of spatial orientation and which are necessary for understanding the proper use of this examination method.

In the practical part I focused on the actual examination and measurement of the SVV in patients. This thesis includes the preparation of two case histories.

Keywords: vertigo, The Bucket Method, Wii Balance Board with software Stereo Balance, subjective visual vertical.