

Abstract

One of the functions of the equilibrium system is to detect direction and action of the gravitational vector. The dysfunction of the equilibrium system is expressed by a change in the perception of the vertical axis. The aim of this work is to evaluate the function of the otolithic system by examining the subjective visual vertical (SVV) in patients with benign paroxysmal positional vertigo (BPPV).

The theoretical part of the study deals with the anatomy and physiology of the inner ear, with focus on the etiopathogenesis, clinical presentation, evaluation and treatment of BPPV. Practical part of the study examined 5 patients who were diagnosed with BPPV. All patients had objective examination of the SVV by digital device. The optokinematic rotation of the environment in static and dynamic conditions were monitored. After examination and input data recording, treatment was performed with an Epley repositioning maneuver. Re-evaluation of the SVV values were performed immediately after treatment maneuver.

Measurements after the repositioning maneuver confirmed improvement of the SVV values in all subjects with BPPV.