

What effect does the use of PIXFORMANCE® have on balance, walking ability and quality of life in the treatment of patients with Parkinson's syndrome?

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Abstract

The present bachelor thesis examines the primary endpoint „Does the use of PIXFORMANCE® and the associated homework have a positive effect on the balance of patients with Parkinson's Syndrome?“ And the secondary endpoint „Has the use of PIXFORMANCE® and the associated homework additional positive effect on the quality of life, walking speed and step length of patients with Parkinson's disease? „. To investigate these endpoints, a prospective interventional observational study with a withdrawal-design, also known as the „ABAB Scheme“, is being conducted. There are a total of four study participants. The study period encompasses 24 weeks with two A-phases and two B-phases, each lasting a period of 6 weeks. In the A-phase, the intervention, the amplitude-oriented training program with PIXFORMANCE® and the adapted homework program, take place. In the B phase, the intervention is stopped and there is a training break for the study participants.

In total, three assessments are applied for the study points balance, quality of life and ability to walk. These are performed before and after each A- and B-phase, so that five measurements arise. Over the entire study period, a significant improvement in the balance can be detected with the Functional Reach Test. Overall, the study participants achieve an increase in walking ability, but no correlation between the effect and the study phases can be seen. The evaluation of the quality of life results is done via the PDQ-39 questionnaire. These provide no clear indication of a positive training effect on the training program with PIXFORMANCE® and the associated homework program.

Would you like to read the entire study?

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