

ABSTRACT

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Title of diplom thesis: Quality of Life, Adherence and Satisfaction of Patients with Acquired Brain Injury in Distance Occupational Therapy and Tele-occupational therapy.

Abstract of diplom thesis:

The thesis (DP) deals with the issue of patients after acquired brain injury in distance occupational therapy and tele-ergotherapy. The main aim of the DP is to evaluate the quality of life, adherence and satisfaction of patients after acquired brain injury during distance occupational therapy and tele-ergotherapy. The thesis is divided into two parts, theoretical and practical. The first, theoretical part is based on the studied Czech and foreign literature. It deals with a short description of the individual types of acquired brain damage, rehabilitation in patients after acquired brain damage and the possibility of using telerehabilitation (TR) and distance therapy in occupational therapy in these patients. The development of the practical part is carried out in cooperation with the Rehabilitační Ústav Kladruby (RÚ Kladruby), where the Virtual Ambulance Distance Therapy (VA- DT) project has been running since January 2019, offering distance therapy and telerehabilitation. The research sample consists of 7 patients after a stroke in the subacute stage who completed their hospitalization in the cranioprogram at RÚ Kladruby and were subsequently enrolled in occupational therapy DT. Patients are included in the distance therapy for one month, where the recommended exercise time is 5×30 min/week. They use the Rehamza therapeutic system and the Leap motion sensor, both borrowed from RÚ Kladruby. Before entering the DT (T1) and after exiting (T2), patients are given specific tests to assess hand function, muscle strength, muscle tone, coordination and dexterity. A test to assess self-sufficiency is also performed to complement the clinical status. Quality of life will be evaluated by Short-Form questionnaire (SF-36), adherence by means of therapeutic diary, monitoring call, data records of patients' exercise progress from Rehamza system. Patient satisfaction will be evaluated by the developed satisfaction questionnaire.

Keywords: Telehealth, Occupational Therapy, Telerehabilitation, Adherence, Satisfaction, Quality of life, Stroke