

Abstract

Title: A case study of physiotherapeutic treatment of a patient after acute respiratory failure due to pneumonia combined with pulmonary oedema.

Objectives: The aim of this bachelor thesis is to introduce the problematics of respiratory diseases including anatomical context, the possibilities of treatment and rehabilitation based on EBM. The practical part concerns case report of the patient diagnosed with acute respiratory failure due to pneumonia combined with pulmonary oedema.

Methods: The bachelor thesis is divided into two parts – theoretical and practical. The theoretical part consists of anatomy, physiology, and pathophysiology of the respiratory system, introduction to the problem of acute respiratory failure, pneumonia and pulmonary oedema, as well as the most commonly used physiotherapeutic methods used to treat patients with this condition. The practical part is a case study of a patient after acute respiratory failure due to pneumonia combined with pulmonary oedema. The elaboration of the case study was made during continuous professional practice in Institute for Clinical and Experimental Medicine in Prague, in the period from 10 January 2022 to 4 February 2022 under the expert guidance of Mgr. Daniela Sárazová and Bc. Robert Charvát. The bachelor thesis includes kinesiological analysis, short and long-term objectives of therapy, description of therapeutic units and evaluation of the effect of therapy.

Results: In the beginning of the treatment, the patient was in altered state of consciousness connected to breathing assistance. His condition soon began to improve during the therapies. The most significant results were achieved in terms of mobility, self-efficacy and physical ability of the patient. The increase in muscle strength and the modification of the breathing stereotype was also a great progress.

Keywords: pneumonia, pulmonary oedema, respiratory physiotherapy, physiotherapy, evidence based medicine, acute respiratory failure