

BACHELOR THESIS ABSTRACT

Author: Bc. Jan Zeman

Supervisor: Mgr. Lucie Benešová

Title: Total temporomandibular joint replacement physiotherapy

Abstract:

The bachelor thesis is designed as a theoretical-practical and deals with the issue of physiotherapy after total temporomandibular joint replacement. The aim of the bachelor thesis is to develop a proposal for diagnostic and therapeutic concept in physiotherapy for total temporomandibular joint replacement.

The theoretical part is divided into four sections. The first is a brief description of the anatomy, kinesiology and biomechanics of the temporomandibular joint. The second deals with joint disorders, their etiology, classification, clinical manifestations and therapeutic intervention with a special focus on disorders that lead to surgical treatment. The third describes surgical process of total joint reconstruction, mentions the risks and contraindications of surgery, and describes postoperative care. The fourth presents the characteristics and comparison of joint replacements and the main manufacturers.

The practical part presents the application of the diagnostic and therapeutic concepts in clinical practice. The concept includes a kinesiological analysis with emphasis on the cervical spine, complemented by a specific examination of the temporomandibular joint. The physiotherapy intervention generally focused on the treatment of hypomobility of the temporomandibular joint. The concept was tested in a case study of a subject in the subacute phase after unilateral total temporomandibular joint replacement who went through of 5 therapies directed by physician, including opening and closing examinations. The most significant result of the work is successful practical application of the concept, where an improvement in active range of abduction of the mouth from the original 20 mm to 32 mm was achieved. A clear limitation of the study was the small number of subjects.

Key words: temporomandibular joint, total temporomandibular joint replacement, surgical intervention, temporomandibular dysfunction, physiotherapy