

## **BACHELOR THESIS ABSTRACT**

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**Title:** Results evaluation of reverse shoulder arthroplasty during physiotherapeutic intervention

### **Abstract:**

This bachelor thesis deals with the topic of reverse shoulder arthroplasties and functional outcomes of the shoulder joint after the implantation.

The aim of this thesis is to apply described physiotherapeutic approach to a selected group of patients and to evaluate the outcomes of shoulder joint function at given intervals during the postoperative physiotherapeutic intervention. The aim of the thesis is also to analyse current studies about this topic, compare the results and compare the effectiveness of different physiotherapeutic approaches.

The theoretical part summarizes knowledge about the anatomy, kinesiology of the shoulder girdle and biomechanics of the shoulder joint. It also discusses shoulder replacements, especially the reverse implants. Furthermore, principles of physiotherapeutic postoperative intervention are described and physiotherapeutic approaches are outlined.

The practical part of the thesis is processed in the form of a research. It includes 8 patients who underwent implantation of a reverse arthroplasty and subsequent physiotherapeutic intervention. For clinical evaluation of shoulder joint function these parameters were chosen – active and passive range of motion, Constant shoulder score, Shoulder pain and disability index and pain according to numeric rating scale during daily activities. The measurements were carried out at 4-6 weeks, 3 months and 6 months after surgery.

The conclusion of the thesis is that physiotherapy has great importance in postoperative care. The results confirmed aims of the research, that is significant improvement in all measured parameters. An active physiotherapeutic approach has very satisfactory clinical and functional outcomes and should be indicated.

**Keywords:** shoulder joint, reverse arthroplasty, total replacement, physiotherapy, omarthritis