

Abstract

In my bachelor thesis I deal with the topic of magnetotherapy and distance electrotherapy in relation to the process of bone healing. The overview of theoretical knowledge provides basic information about bone tissue, its structure, fractures, differences between pediatric and adult fractures, its therapy and the healing process of bone tissue with fracture. I also write about both given therapies. The physical principle on which the therapies work, its effects, mechanism of these effects, parameters and indication groups of the therapies are described. The work also presents the results of some foreign research on the topic.

In the practical part I deal with the confirmation of the true effect of both given physical therapies. The work involved 3 pediatric patients who received one of the therapies, as well as 10 patients from the control group who did not receive any therapy. X-rays taken immediately after the accident are compared with X-rays taken 4 and 6 weeks after the fracture. The healing phase is evaluated from X-rays according to Hammer's classification.