

ABSTRACT

- **Title of dissertation:** Evaluation of volleyball service due to surface EMG.
- **Objectives of dissertation:** To measure and describe the structure involving specific muscles of the player. The muscles are going to be measured during the volleyball service – service with jump, service without jumping and specific exercises.
- **Method:** Surface EMG analysis and simple kinematic analysis.
- **Results:** The order of muscle activation is the use of the land and use of jump spikeserve different. In repeated experiments of each type of use, however, does not change the order of muscle involvement. Specific exercise is by its nature more spikeserve use of the jump.
- **Key words:** Volleyball, service, pulley, EMG analysis, kinematic analysis.