

ABSTRACT

- **Title of disertation:** Evaluation of tennis forehand due to surface EMG.

- **Objectives of disertation:** To measure and describe the structure involving specific muscles of two tennis players. The muscles are going to be measured during the tennis forehand and specific exercises.

- **Method:** Surface electromyography combinated with kinematic analysis used synchronized video recording.

- **Results:** The order of muscle involving durig the tennis forehand and the specific exercises is different. The order of muscle involving during the specific exercises with using a tennis ball and a softball is more similar to the muscle involving during the tennis forehand than the order of muscle involving of the specific exercise with using a medicinball. The order of muscle involving during the tennis forehand is different between both of the tennis players, too.

- **Key words:** Tennis, forehand, specific exercises, EMG analysis, kinematic analysis.