ABSTRACT:

Title:

The comparative kineziologic analysis of forward stroke on wheelchair and crawling.

Objectives of the Thesis:

The aim of the thesis is to compare muscle activity of selected muscles in shoulder girdle during forward stroke on wheelchair and crawling.

Method:

Surface electromyography combinated with kinematography analysis used synchronized video recording.

Results and Conclusions:

As the research shows, there is a difference in muscle activity (timing) between forward stroke on wheelchair and during crawling. It was proved that the activity of forward stroke on wheelchair does not have natural locomotive character.

Keywords:

Forward stroke on wheelchair, crawling, shoulder girdle, surface electromyography, kinematics analysis.