Abstract

Title: Effect of local and complex active recovery on repeated isometric fingers

flexors performance

Objectives: Comparation of the effect of three different types of active recovery on

isometric performance of fingers flexors.

Methods: The study was participated by 6 men (age $32,5\pm 8,9$) and 2 women (age 30 and

42), who underwent three randomly chosen types of active recovery (with

isolated engaging of upper extremities - HK, with isolated engaging of lower

extremities - DK, with engaging of upper extremities lower extremities - HDK)

during three visits with at least 48 hour gap. Their performance was measured

with the help of alternate exercise (8 sec exercise/2 sec break). Exercise was

repeated three times and during the break between exercises was applied one

regeneration method.

Results: The study shows that active recovery type DK is the most advantageous in

comparison with active recovery type HK and HDK when talking about

repeated performance of fingers until exhaustion. Time of the second

performance decreased by \$\14.5\% and the third performance decreased by

\$\frac{15}{7}\%\$ in comparison with the first performance with the apply of

regeneration type DK. Time of the second performance decreased by \$\pm\$10,3 %

and the third performance decreased by \$\pm\$26,2 \% in comparison with the first

performance with the apply of regeneration type HK. Time of the second

performance decreased by \$\pm\$18 \% and the third performance decreased by \$\pm\$24,7

% in comparison with the first performance with the apply of recovery type

HDK.

Conclusion: Recovery with engaging of larger unexercised muscle groups between alternate

exercises with isometric characteristics is more efficient in comparison with

recovery with engaging of exercising upper extremities. It helps to local and

complex recovery.

Keywords: fatigue, recovery, alternate exercise, effect of recovery