Abstract

Title: Effects of water-based aerobic programme on health-related physical

fitness and health-related quality of life level in elderly females

Objectives: The aim of this study was to asses the effect of shallow water aerobic

programme on changes of health-related physical fitness and health-

related quality of life level in elderly females.

Methods: 33 women (mean age 67 ± 5.2 years) were eligible for participation for

the study. Participants were divided into experimental and control group.

The experimental group (n = 17) participated in a 6month shallow water

aerobic programme once a week 60 minutes. The control group did not

participate in the physical program. Body composition, low-back and

hamstring flexibility, hand grip strength, upper body and lower body

strength, aerobic capacity, dynamic postural stability and health-related

quality of life were determined before and after completion.

Results: This study has shown that the training programme caused a significant

increase in aerobic capacity (p = 0.01; r = 0.62) and in general

health perception (p = 0.04; r = 0.36).

Keywords: physical fitness, water exercise programme, ageing, quality of life