THE RELATIVE EFFECTIVENESS OF STEADY STATE CARDIO AND HIGH INTENSITY INTERVAL TRAINING ON CARDIORESPIRATORY FITNESS AMONG STUDENTS AT SCHOOL OF HEALTH POLYTECHNICS, SURAKARTA

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ABSTRACT

Background: Cardiorespiratory fitness is essential to prevent the risk of cardiovascular disease. This study aimed to determine the relative effectiveness of Steady State Cardio (SSC) and High-Intensity Interval Training (HIIT) on cardiorespiratory fitness in the early adult age group.

Subjects and Method: This was a randomized control trial conducted at the School of Health Polytechnics, Surakarta, from October to November, 2019. A total sample of 45 students was divided into 2 groups: (1) SSC group and (2) HIIT group. The dependent variable was cardiorespiratory fitness. The independent variables were SSC and HIIT. The measuring instrument was a multi-stage fitness involving a 20 meter long run. The results were converted into VO2max level. The data were analyzed by Mann Whitney.

Results: After the intervention, the VO2max level was higher in the HIIT group (Mean= 24.28; SD= 5.42) than the SSC group (Mean= 21.66; SD= 6.99), but it was statistically non-significant (p= 0.503).

Conclusion: Steady State Cardio and High Intensity Interval Training have comparable effect on cardiorespiratory fitness.

Keywords: high intensity interval training, steady state cardio, cardiorespiratory fitness, VO2max

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