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KEY WORD: DIFFERENT INTENSITY EXERCISES/ CORONARY HEART DISEASE PRIMARY RISK

FACTORS / THE ELDERLY

APICHART TRAISANG: EFFECTS OF DIFFERENT INTENSITY EXERCISES UPON THE

ELDERLY'S CORONARY HEART DISEASE PRIMARY RISK FACTORS. THESIS

ADVISOR: ASST. PROF. LAWAN SUKKRI, Ph.D., THESIS CO - ADVISOR: ASSOC.

PROF. CHAREONTASN CHINTANASERI, M.D., Dr. med., AND ASST. PROF.

NOPARAT THANACHAIKUN, M.D., Dr. med. 363 pp. ISBN 974-636-508-8.

The purposes of this research were to study the effects of different intensity exercises upon the elderly 's coronary heart disease primary risk factors. The subjects were sixty elderly persons, 60 - 70 years of age with borderline isolated systolic hypertension and hyperlipidemia. They were randomly assigned into four groups, fifteen person's in each group, three experimental groups and one control group. Each experimental group exercised up to the assigned intensity of work for 24 weeks. The coronary heart disease primary risk factors, maximum oxygen consumption, resting heart rate, body mass, percent of body fat and electrocadiogram were recorded. The obtained data were analyzed in terms of means, standard deviations, One - Way Analysis of Variance and One - Way Analysis of Variance repeated measures. The Tukey method was also used in the multiple comparison to determine the significant differences between means.

The results revealed that:

1. The exercises at different intensities decreased coronary heart disease risk apparisals and changed coronary heart disease primary risk factors as in the following:

The experimental group I exercising with an intensity of 50 - 55 percent of maximum heart rate reserve decreased resting systolic blood pressure and the total cholesterol / high density lipoprotein ratio but the high density lipoprotein increased.

The experimental group II exercising with an intensity of 60 - 65 percent of maximum heart rate reserve decreased the total cholesterol / high density lipoprotein ratio but the high density lipoprotein increased.

The experimental group III exercising with an intensity of 70 - 75 percent of maximum heart rate reserve decreased the total cholesterol, low density lipoprotein and total cholesterol / high density lipoprotein ratio but the high density lipoprotein increased.

2. The experimental group II, and III exercising with intensities of 60 - 65 and 70 - 75 percent of maximum heart rate reserve increased the maximum oxygen consumption.

The resting diastolic blood pressure, triglyceride, resting heart rate, body mass, percent of body fat and electrocardiogram of all groups were not significantly different at the .01 level.

ภาควิชา	พลศึกษา	ลายมือชื่อนิสิต	
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