UNIVERSITI TEKNOLOGI MARA

RELATIONSHIP BETWEEN PHYSICAL ACTIVITY, DEMOGRAPHIC VARIABLES AND ACADEMIC ACHIEVEMENT AMONG MALE SECONDARY SCHOOL STUDENTS

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Abstract

The purpose of this study was to investigate relationships between physical activity, body mass index (BMI), socioeconomic status and academic achievement. The data were collected from the full population of form four student of Klang High School in District Of Klang Selangor, Malaysia in 2011.(n=274)Specifically physical activity, BMI and socioeconomic status were compared to mathematics scores on the form four students of Klang High School students. Physical Education teachers annually receive training in anthropometry and data entry measurement prior to data collection. For the purpose of this study, school record data that include matemahtical scores from System Analysis for Examination in Malaysia and BMI information for students were used. This study examined the physical activity level measured by International Physical Activity Questionnaire (IPAQ) short form and the data for socioeconomic status was gathered from Student Information System (SMM) of Klang High School. Multiple regression and multiple correlations was used to analyzed the data. Physical activity had a negative relationship with academic achievement. The multiple regression and multiple correlation for physical activity, indicate that physical activity levels (0.075) was not significant predictor of academic achievement (p < 0.001). BMI and socioeconomic status had a positive relationship with academic achievement. The multiple regression and multiple correlation for academic achievement, indicate, the scores are positively correlated with both 'body mass index, 0.006 (p < 0.01) and socioeconomic status, 0.002(p < 0.01). The study suggests that the relationship between physical activity and academic achievement is weak.

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CHAPTER 1

INTRODUCTION

1.0 Background of the study

Interest in the relationship between health behaviours and academic achievement has recently intensified in the face of an epidemic of childhood and adolescent obesity and converging school reforms in Malaysia and other nations. Epidemiologic research by researcher has demonstrated that poor diet and lack of adequate physical activity place children at risk for being overweight and obese and thus influence future health status. Additional research has also shown that children and adolescents whose participation in physical activity is high tend to perform better on various measures of cognitive performance and academic achievement. Chomitz et al. (2009), discovered that the association between physical fitness and academic performance has receive understandable attention in response to the growing prevelence of children who are overweight and out of shape, as well as demands placed on schools to produce students who meet academic standards. School administrators nowadays, focusing on academic achievement rather than physical activity achievement. Despite a number of nationwide health initiatives to reduce childhood obesity by promoting healthy lifestyle behaviors, the decreasing of physical activities in schools sends a message to stakeholders that students' physical activity has little impact to their academic performance. The reducing of physical activity may indirectly occur, due in part to which Malaysian Education Act, which mandated that schools evaluate the academic performance of all students not the