UNIVERSITI TEKNOLOGI MARA

THE RELATIONSHIP BETWEEN FAT MASS, CARDIOVASCULAR FITNESS AND PHYSICAL SELF-DESCRIPTION AMONG MALE CHILDREN

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Dissertation submitted in partial fulfilment of the requirements for the degree of Master of Sport Science

Faculty of Sports Science and Recreation

June 2014
AUTHOR’S DECLARATION

I declare that the work in this dissertation was carried out in accordance with the regulations of Universiti Teknologi MARA. It is original and is the result of my work, unless otherwise indicated or acknowledge as references work. This dissertation has not been submitted to any other academic institution or non-academic institution for any degree of qualification.

I, hereby, acknowledge that I have been supplied with the Academic Rules and Regulations for Postgraduate, Universiti Teknologi MARA, regulating the conduct of my study.

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ABSTRACT

The ongoing epidemic of obesity in children has highlighted the importance of body fatness for health and its consequences for childhood physical self-description. The purpose of this study was to determine the correlation between fat mass, cardiovascular fitness and physical self-description among male children aged 10-12 years old. One hundred and fifty six school children were involved. The participants were 16% underweight, 46% normal weight, 13% overweight and 24% obese. Fat mass (FM) was measured by taking triceps and subscapular skinfold thickness, cardiovascular fitness (CVF) was measured using six-minute walk test (6MWT) and physical self-description was measured using Physical Self-Description Questionnaire (PSDQ). Average distance walked differ from each BMI group (underweight 643±77 m; normal weight 616±81 m; overweight 622±101 m and obese children 597±73 m). This study found that FM does not have any relationship with cardiovascular fitness. Overall physical self-description does not significantly related with fat mass but had significant relationship with cardiovascular fitness. This shows that Malaysian urban children were more concern about their cardiovascular fitness and less attention were paid towards their physical self-description.
ACKNOWLEDGEMENT

Alhamdulillah, praise to Allah for all the strength He has given me in completing my dissertation. Thank you to my supervisor, Encik Norasrudin bin Sulaiman, for his supervision and guidance along the process of completing my dissertation. I would like to express my appreciation to all school’s administration team and the school children of Sekolah Kebangsaan Sri Subang, Subang Jaya, Sekolah Kebangsaan USJ 2, Subang Jaya dan Sekolah Kebangsaan Seksyen 13, Shah Alam who were involved directly and indirectly for this study. Gratitude goes to other lecturers who had guided me along the way until the last stage. Not to forget, my fellow postgraduate students. A special thank you to my parents, Adnan bin Hj Ariffin and Raya binti Hj Harun and my siblings for all the love, patience and strength they have given me from my undergraduate years up to this stage. Thank you so much for having faith and always being there for me. I could not have done it without you. For those who had indirectly contributed for my dissertation, my thank you goes to them.
Table of Contents

<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>AUTHORS'S DECLARATION</td>
<td>ii</td>
</tr>
<tr>
<td>ABSTRACT</td>
<td>iii</td>
</tr>
<tr>
<td>ACKNOWLEDGEMENT</td>
<td>iv</td>
</tr>
<tr>
<td>TABLE OF CONTENTS</td>
<td>v</td>
</tr>
<tr>
<td>LIST OF TABLES</td>
<td>ix</td>
</tr>
</tbody>
</table>

CHAPTER ONE: INTRODUCTION

1.1 Background of Study 1
1.2 Problem Statement 2
1.3 Purpose of Study 3
1.4 Objective of Study 3
1.5 Hypotheses of Study 3
1.6 Significance of Study 4
1.7 Limitations 4
1.8 Delimitations 5
1.9 Operational Terms 5
1.9.1 Fat mass 5
1.9.2 Obesity 5
1.9.3 Cardiovascular Fitness 5
1.9.4 Physical Self-Description 5
1.9.5 Self-Esteem 5