



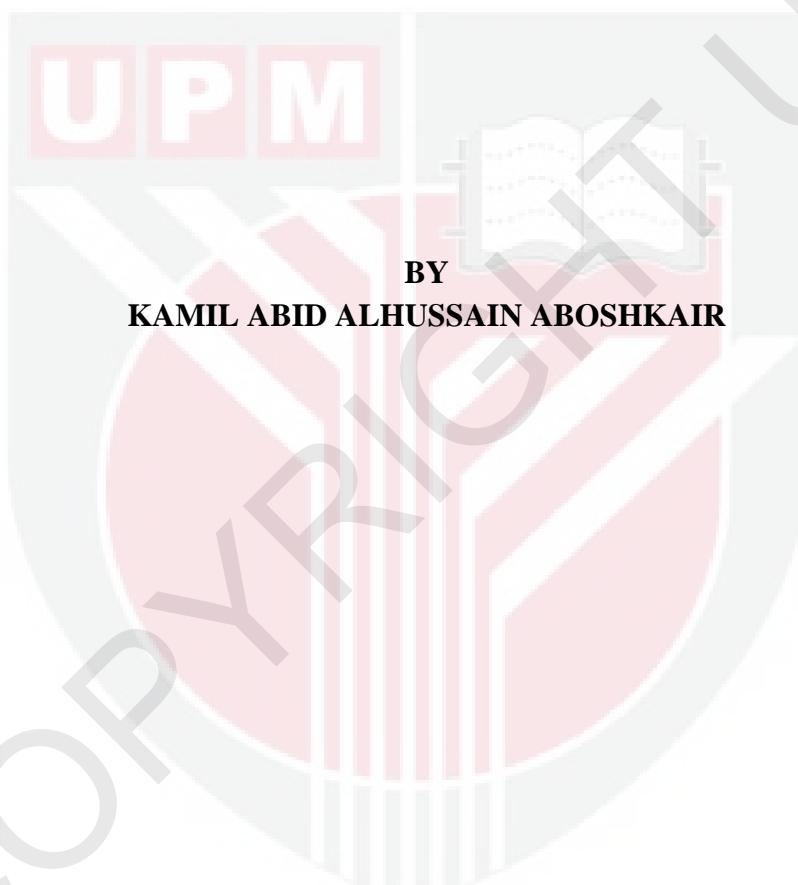
UNIVERSITI PUTRA MALAYSIA

***EFFECT OF THE IMPLEMENTATION LEVELS OF THE PHYSICAL
EDUCATION PROGRAM ON HEALTH-RELATED PHYSICAL FITNESS
OF CHILDREN IN SELANGOR, MALAYSIA***

KAMIL ABID ALHUSSAIN ABOSHKAIR

FPP 2012 79

**EFFECT OF THE IMPLEMENTATION LEVELS OF THE PHYSICAL
EDUCATION PROGRAM ON HEALTH-RELATED PHYSICAL FITNESS OF
CHILDREN IN SELANGOR, MALAYSIA**



**Thesis Submitted to the School of Graduate Studies, University Putra Malaysia, in
fulfillment of the Requirements for the Degree of Doctor of Philosophy**

September 2012

This dissertation is dedicated to my parents, my wife Bushra, and my children for their continuous support, encouragement, and unconditional love.



Abstract of thesis presented to the Senate of University Putra Malaysia in fulfillment of
the requirement for the degree of Doctor of Philosophy

**EFFECT OF THE IMPLEMENTATION LEVELS OF THE PHYSICAL
EDUCATION PROGRAM ON HEALTH-RELATED PHYSICAL FITNESS OF
CHILDREN IN SELANGOR, MALAYSIA**

By

KAMIL ABID ALHUSSAIN ABOSHKAIR

September 2012

Chair: Saidon Bin Amri, PhD

Faculty: Faculty of Educational Studies

The purpose of this study is to assess the implementation level of the physical education program in secondary schools in Selangor, and to determine the effect of the implementation level on the students' health-related physical fitness. The checklist total score was used by 56 experienced physical education teachers from 38 selected schools to evaluate the implementation level. A pilot study test was conducted to identify any ambiguities, and ensure the suitability of the checklist questionnaire. Accordingly, the implementation level was categorized into three classes: high, moderate, and low. Based on this categorization, three different implementation levels of schools were selected randomly as samples of the study.

The effect of the implementation level was determined by comparing the pre-and post-health-related physical fitness performance (push-up, sit-and-reach, 7-stage sit-up, and 20m shuttle run) of the students. In all, 918 children (459 boys and 459 girls) participated in the present study. Three different age groups were assigned for 13-, 14-, and 16-year old students from each of these three different implementation levels schools. Each group consisted of 102 students (51 boys and 51 girls). Anthropometric measurements and other covariates [height, weight, body mass index (BMI), maturity status, family income, time spent within and outside school hours, and race] were measured or constructed to control the differences among the students in the statistical analysis.

The results obtained from the first part of the study suggested that overall program content and policy had been implemented moderately, as planned by the Ministry of Education. The biggest problems faced by physical education teachers in running the physical education program were related to this area of the program: the inadequacy in the number of qualified physical education teaching staff, involvement of students in the physical education program, quality of the students, and apathy of the students. The results also indicated that the overall adequacy of the facilities offered by the schools to the physical education program was merely adequate.

Significant effects of the implementation levels on the health-related physical fitness performance of boys and girls from all age groups were observed. However, the health-related physical fitness tests affected were not consistent across all age groups. Among

the boys, the school with high implementation level reported an enhanced performance in push-ups by the 13-year-old students and sit-and-reach and sit-ups by the 14-year-old students, whereas, the performances of the 16-year-old students were enhanced in all physical fitness activities, except for the 20m shuttle run. Among the girls, the school with high implementation level enhanced the performance of sit-and-reach only in the 13-year-old students; sit-and-reach, sit-ups and 20 m shuttle runs in the 14-year-olds; and push-up in the 16-year-old students. The effect of high implementation level on the students varied. The boys in the 16-year-old group demonstrated a better performance in all health-related physical fitness activities than the two younger age groups, except in the 20m shuttle run, whereas the girls from the 14-year-old group showed better performance in sit-and-reach, sit-ups, and 20m shuttle run than did the girls in the 13-year-old group.

To conclude, different implementation levels have affected students' health-related physical fitness. Students' health fitness increases if schools implemented high quality physical education program. Based on that, multiple plans needed to ensure high quality physical education program in schools.

**ABSTRAK TESIS INI DIBENTANGKAN KEPADA SENAT UNIVERSITI
PUTRA MALAYSIA UNTUK MEMENUHI KEPERLUAN UNTUK IJAZAH
DOKTOR FALSAFAH**

**KESAN TAHAP PELAKSANAAN PROGRAM PENDIDIKAN JASMANI
TERHADAP KECERGASAN FIZIKAL BERASASKAN KESIHATAN
KANAK-KANAK BAHAGIAN TENGAH SEMENANJUNG MALAYSIA**

Oleh

KAMIL ABID ALHUSSAIN ABOSHKAIR

September 2012

Pengerusi: Saidon Bin Amri, PhD

Fakulti: Fakulti Pengajian Pendidikan

Tujuan kajian ini adalah untuk menilai tahap pelaksanaan program Pendidikan Jasmani di sekolah menengah di Selangor, dan untuk menentukan kesan tahap pelaksanaan terhadap kecergasan fizikal berasaskan kesihatan murid. Senarai semak jumlah skor telah digunakan oleh 56 orang guru Pendidikan Jasmani yang berpengalaman daripada 38 sekolah terpilih untuk menilai tahap pelaksanaan tersebut. Kajian rintis telah dijalankan untuk mengenal pasti sebarang kekaburuan dan memastikan kesesuaian soal selidik senarai semak. Tahap pelaksanaan dikategorikan kepada tiga tahap; tinggi, sederhana dan rendah. Berdasarkan kategori ini, tiga sekolah dengan tahap pelaksanaan yang berbeza dipilih secara rawak sebagai sampel kajian.

Kesan tahap pelaksanaan ditentukan dengan membandingkan antara pra dan pasca bagi prestasi kecergasan fizikal berasaskan kesihatan (tekan tubi, duduk dan jangkau,

bangkit tubi 7 tahap dan lari ulang-alik 20m) murid-murid. Sebanyak 918 murid (459 lelaki dan 459 perempuan) terlibat dalam kajian ini. Tiga kumpulan umur murid yang berbeza 13, 14 dan 16 tahun telah ditentukan daripada setiap sekolah dengan tiga tahap pelaksanaan yang berbeza. Setiap kumpulan terdiri daripada 102 murid (51 lelaki dan 51 perempuan). Pengukuran antropometri dan kovariat yang lain (ketinggian, berat badan, indeks jisim badan (BMI), status kematangan, pendapatan keluarga, masa digunakan di dalam dan di luar waktu persekolahan dan ras) telah diukur atau dikonstruk untuk mengawal perbezaan antara pelajar dalam analisis statistik.

Dapatan kajian yang diperoleh daripada bahagian pertama kajian ini mencadangkan keseluruhan kandungan dan polisi program telah dilaksanakan secara sederhana sebagaimana yang dirancang oleh Kementerian Pelajaran. Masalah terbesar yang dihadapi oleh guru Pendidikan Jasmani dalam melaksanakan program Pendidikan Jasmani adalah berkaitan dengan bidang ini bagi program tersebut: kekurangan bilangan tenaga pengajar Pendidikan Jasmani yang berkelayakan, penglibatan murid dalam program Pendidikan Jasmani , kualiti murid dan apati murid. Hasil kajian juga nenunjukkan kebercukupan keseluruhan kemudahan yang ditawarkan oleh sekolah untuk program Pendidikan Jasmani adalah mencukupi.

Tahap pelaksanaan didapati memberi kesan yang signifikan ke atas kecergasan fizikal berasaskan kesihatan bagi lelaki dan perempuan bagi semua kumpulan umur. Walau bagaimanapun, komponen kecergasan fizikal berasaskan kesihatan yang mendapat kesan adalah tidak konsisten antara kumpulan umur. Dalam kalangan lelaki, sekolah

dengan tahap pelaksanaan tinggi dilapor meningkatkan prestasi bagi tekan tubi murid 13 tahun; duduk dan jangkau dan bangkit tubi bagi murid 14 tahun manakala prestasi murid 16 tahun adalah bagi keseluruhan kecergasan fizikal berasaskan kesihatan kecuali lari ulang-alik 20m. Dalam kalangan perempuan, sekolah dengan tahap pelaksanaan tinggi meningkatkan prestasi bagi duduk dan jangkau murid 13 tahun; duduk dan jangkau, bangkit tubi dan lari ulang –alik 20m murid 14 tahun, dan tekan tubi bagi murid 16 tahun. Kesan tahap pelaksanaan tinggi terhadap murid adalah berbeza. Lelaki kumpulan umur 16 tahun menunjukkan prestasi yang lebih baik daripada dua kumpulan umur yang lebih muda bagi semua komponen kecergasan fizikal berasaskan kesihatan kecuali lari ulang-alik 20m, manakala perempuan kumpulan umur 14 tahun menunjukkan prestasi yang lebih baik daripada perempuan kumpulan umur 13 tahun bagi duduk dan jangkau, bangkit tubi, dan lari ulang- alik 20m.

Kesimpulannya, tahap pelaksanaan yang berbeza memberikan kesan terhadap kecergasan fizikal berasaskan kesihatan murid. Kecergasan kesihatan murid meningkat sekiranya sekolah melaksanakan program Pendidikan Jasmani yang berkualiti tinggi. Dengan itu, pelbagai rancangan diperlukan bagi memastikan program Pendidikan Jasmani di sekolah berkualiti tinggi.

ACKNOWLEDGEMENTS

In the name of Allah, the Most Beneficent, Most Gracious, Most Merciful. First, I am deeply indebted to my supervisor, Dr. Saidon Bin Amri Head of the Department of Sports Sciences, University Putra Malaysia, for offering suggestions for improvement, guidance, invaluable comments, constructive criticisms and full encouragement throughout this PhD research project that provided the basis for the presentation of this thesis. I would like to extend my heartfelt thanks and gratitude to my Co-supervisor Dr. Kok Lian Yee and Assoc. Prof. Dr. Bahaman Bin Abu Samah from their valuable guidance, advice and suggestions towards the completion of this project. I am indebted to University of Baghdad, which provided the funding for my research during the period of study. Sincere appreciation to the principals, and the physical education teachers of the schools participated in this study.

My deepest gratitude goes to my family, for their unflagging love and support throughout my life; this dissertation is simply impossible without them. I am indebted to my wife, Bushra, for her care, love and assistance. Finally yet importantly, I offer my regards and blessings to all of those who supported me in any respect during the completion of the project specially my fellow friends Aris, Burhanuddin, Mohammed, and Nirwana. Their support helped this project to become reality.

Approved Sheet 1

I certify that a Thesis Examination Committee has met on (insert the date of viva voce) to conduct the final examination of (Kamil Abid Alhussain Aboshkair) on his thesis entitled “Effect of Implementation levels of a Physical Education Program on Health-related Physical Fitness of Malaysian Children” in accordance with the Universities and University Colleges Act 1971 and the Constitution of the Universiti Putra Malaysia [P.U.(A) 106] 15 March 1998. The Committee recommended that the student be awarded the (interest the name of relevant degree).

Members of the Thesis Examination Committee were as follows:

Name of Chairperson, PhD

Title (e.g Professor/ Associate Professor/ Ir)

Name of Faculty

University Putra Malaysia

(Chairman)

Name of Examinar 1, PhD

Title (e.g Professor/ Associate Professor/ Ir)

Name of Faculty

University Putra Malaysia

(Internal Examiner)

Name of Examinar 2, PhD

Title (e.g Professor/ Associate Professor/ Ir)

Name of Faculty

University Putra Malaysia

(Internal Examiner)

Name of External Examinar, PhD

Title (e.g Professor/ Associate Professor/ Ir)

Name of Department and / or Faculty

Name of Organisation (University / Institute)

country

(External Examiner)

BUJANG KIM HUAT, PhD
Professor and Deputy Dean
School of Graduate Studies
University Putra Malaysia

Date:

This thesis was submitted to the senate of University Putra Malaysia and has been accepted as fulfillment of the requirement for the degree of Doctor of Philosophy. The members of the Supervisory Committee were as follows:

Saidon Bin Amri, PhD

Senior Lecturer

Faculty of Educational Studies
University Putra Malaysia

(Chairman)

Kok Lian Yee, PhD

Senior Lecturer

Faculty of Educational Studies
University Putra Malaysia

(Member)

Bahaman Bin Abu Samah, PhD

Associate Professor

Faculty of Educational Studies
University Putra Malaysia

(Member)

BUJANG KIM HUAT, PhD

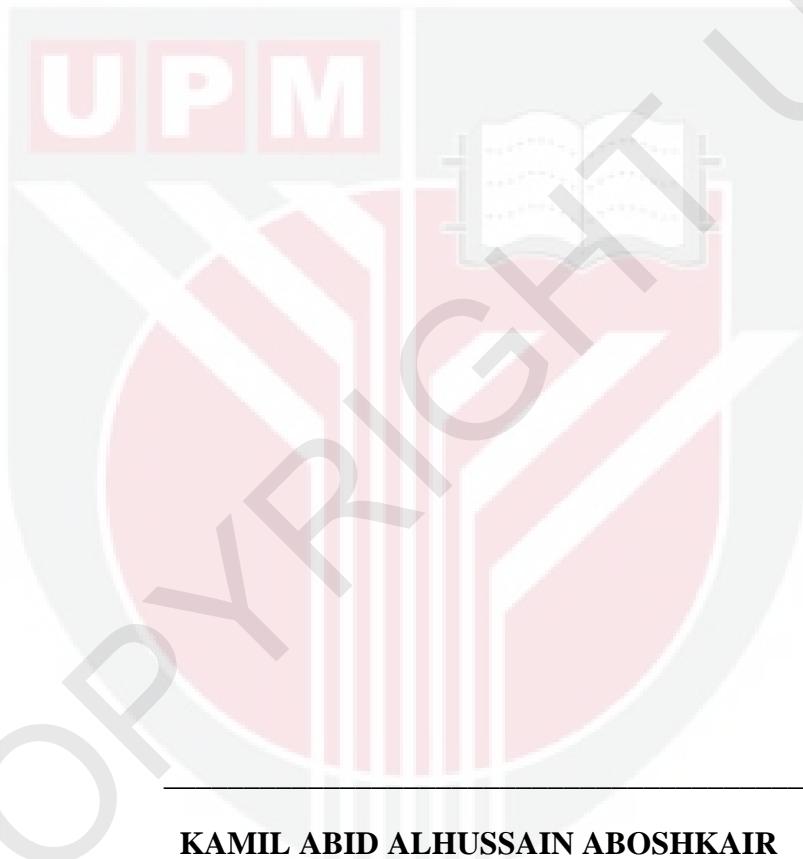
Professor and Dean

School of Graduate Studies
University Putra Malaysia

Date:

DECLARATION

I declare that the thesis is my original work except for quotations and citation, which have been duly acknowledged. I also declare that it has not been previously, and is not concurrently, submitted for any other degree at University Putra Malaysia or at any other institution.



KAMIL ABID ALHUSSAIN ABOSHKAIR

Date:

Declaration Form for Thesis Written in Bahasa Melayu

PERAKUAN

Saya memperakui bahawa tesis ini adalah hasil kerja saya yang asli melainkan petikan dan sedutan yang tiap-tiap satunya telah dijelaskan sumbernya. Saya juga memperakui bahawa tesis ini tidak pernah dimajukan sebelum ini, dan tidak dimajukan serentak dengan ini, untuk ijazah lain sama ada di Universiti Putra Malaysia atau di institusi lain.



KAMIL ABID ALHUSSAIN ABOSHKAIR

Tarikh:



TABLE OF CONTENT

	Page
ABSTRACT	i
ABSRAK	v
ACKNOWLEDGEMENT	ix
APPROVAL	x
DECLARATION	xii
LIST OF TABLES	xiv
LIST OF FIGURES	xvi
 CHAPTER	
1	1
1.1 INTRODUCTION	1
1.2 Statement of the Problem	7
1.3 Research Objectives	9
1.4 Research Questions	10
1.5 Significant of the Study	11
1.6 Limitation	12
1.7 Delimitation	14
1.8 Operational Definition	15
1.8.1 The physical education program	15
1.8.2 Implementation of the physical education program	16
1.8.3 Health-related physical fitness	16
2 LITRITURE REVIEW	18
2.1 Introduction	18
2.2 The Role of Physical Education and Physical Activity	19
2.3 Health and Physical Fitness	21
2.4 Factors Influencing the Health-related Physical Fitness of Students	26
2.4.1 Growth and Maturation	27
2.4.2 Nutritional Status	30
2.4.3 Social Economic Status	36
2.4.4 The Physical Education Teacher	39
2.4.5 Time Spent in Physical Activity	43
2.5 Historical Background of the Malaysian Education System	49
2.6 Physical Education Status in Malaysian Schools	51
2.7 Physical Education Curriculum in Malaysian Schools	53
2.8 Characteristics of the Physical Education Program	54
2.9 Goals of the Physical Education Program	55
2.10 Financial Support of the Physical Education Program	55
2.11 Preparation of the Physical Education Teachers in Malaysia	56
2.12 Implementation Levels of the Physical Education Program in	60

	Secondary Schools in Malaysia	
2.13	Factors Involved in Implementing the Physical Education Program	62
	2.13.1 Physical Education and Academic Achievement	62
	2.13.2 Effectiveness of the Physical Education Teacher	64
	2.13.3 Time Allocated for the Physical Education Subject	66
	2.13.4 Limitation of School Facilities	69
2.14	Summary	70
3	METHODOLOGY	81
3.1	Introduction	81
3.2	Research Design	81
3.3	Definition of Variables	84
3.4	Population and sampling	85
3.5	Age	88
3.6	Instrumentation	89
3.7	Checklist of Jemaah Nazir Sekolah	90
3.8	Measurement and Reliability of the Checklist Questions	91
	3.8.1 Pre-pilot study	91
	3.8.2 Pilot Study of the Checklist Questions	92
3.9	Testing Reliability of the Checklist Questions	92
3.10	Health-related Physical Fitness	94
3.11	Measurement Reliability of the Health-related Physical Fitness Tests	97
3.12	Covariate Factors Influencing Student's Physical Fitness	98
	3.12.1 Time Spent in Physical Activities in and out of School Hours Time	99
	3.12.2 Socioeconomic Status	100
	3.12.3 Maturity Status	101
	3.12.4 Growth Status	102
	3.12.5 Nutritional Status	103
3.13	Research procedures	105
3.14	Data Collection	106
3.15	Data analysis	109
	Question 1	110
	Question 2	111
	Question 3	111
	Question 4	112
	Question 5	112
4	DATA ANALYSIS	114
4.1	Introduction	114
4.2	Implementation Levels of the Physical Education Program in Selangor Schools	115
	Question 1	115

4.3	Effect of the Implementation Levels of the Physical Education Program	119
4.3.1	Descriptive Statistics	119
4.3.2	Health-related Physical Fitness Status Based on Different Implementation Levels Question 2	125
4.3.3	Differences in Health-related Physical Fitness among Different Implementation Levels Question 3	127
4.3.4	Effect of Different Implementation Levels on Students' Health-related Physical Fitness Question 4	135
4.3.5	Effect of other Factors that may Influence Health-related Physical Fitness of Students Question 5	141
5	DISCUSSION	147
5.1	Implementation Levels of the Physical Education Program	147
5.2	Classification of Physical Education Program Implementation Levels	153
5.3	Effect of Physical Education Program Implementation Level on Health-related Physical Fitness of Students	155
5.3.1	Characteristics of the Schoolchildren	155
5.3.2	Health-related Physical Fitness Performance of Students among Different Implementation Levels	160
5.3.3	Implementation Level Effects of Physical Education Program on Health-related Physical Fitness	164
6	SUMMARY, CONCLUSION, AND RECOMMENDATIONS	171
6.1	Summary	171
6.2	Conclusion	177
6.3	Recommendations	179
6.3.1	Improvement of Implementation Levels for Physical Education Program	179
6.3.2	Recommendations for Further Research	181
REFERENCES		183
APPENDICES		198
BIODATA OF STUDENT		246