

UNIVERSITI PUTRA MALAYSIA

SOCIO-CULTURAL DETERMINANTS OF FOOD CHOICE AMONG IRANIAN STUDENTS AT UNIVERSITI PUTRA MALAYSIA

ASHRAF NAMAKYAN

FPSK(m) 2010 25



SOCIO-CULTURAL DETERMINANTS OF FOOD CHOICE AMONG IRANIAN STUDENTS AT UNIVERSITI PUTRA MALAYSIA



By

ASHRAF NAMAKYAN

Thesis Submitted to the School of Graduate Studies, Universiti Putra Malaysia, in Fulfillment of the Requirements for the Degree of Master

February 2010

DEDICATION



Abstract of thesis presented to the senate of Universiti Putra Malaysia in fulfillment of the requirement for the degree of Master

SOCIO-CULTURAL DETERMINANTS OF FOOD CHOICE AMONG IRANIAN

STUDENTS AT UNIVERSITI PUTRA MALAYSIA



ASHRAF NAMAKYAN

February 2010

Chairman: Rosita Jamaluddin, PhD

Faculty: Medicine and Health Sciences

There are more than 5000 Iranian students in Malaysia and this number is increasing according to local authorities. Iranian students in Malaysia face the problem of food choice as Malaysian and Iranian food cultures are totally different. Due to the cultural differences, they are not so keen to adopt local food pattern and local food ingredients. The high price of Iranian foods in Malaysia discourages the practice of Iranian food when dining out. The unavailability of some Iranian food ingredients also restricts the students' option for preparing Iranian foods. Thus, the socio-cultural factors are important determinants of the students' food choice which can cause a tendency to unhealthy food habits and consumption of low nutrient dense foods like fast foods and snacks. The objectives of this study are to explore major food problems among Iranian students at Universiti Putra Malaysia, and to compare the food intake and food pattern of the students before and while staying in Malaysia. To determine socio-demographic and cultural factors affecting the food choice of the students in Malaysia is another main objective of the study. The research design includes an explorative study through focus groups followed by a self-administered questionnaire assessing socio-demographic factors, food frequency questionnaire and acculturation. Iranian students, who had stayed in Malaysia for more than three months, were recruited through convenient sampling. A total of 308 subjects participated in the study, of which 164 were male (53.2%) and 144 (46.8%) were female. Results showed a significant increase in skipping main meals, consumption of fast foods and snacks and a significant decrease in the consumption of vegetable, dairy products and seafood among Iranian students in Malaysia in comparison to while living in Iran (P<0.05). These changes also showed some correlation to socio-economical situation of Iranian students in Malaysia. Positive attitude towards Malaysian foods and consumption of Malaysian foods were affected by acculturation and length of stay in Malaysia. On the other hand, consumption of Malaysian foods, acculturation and length of stay in Malaysia had negative relationship with the consumption of fast foods. Furthermore, acculturation, length of stay in Malaysia and the positive attitude towards Malaysian foods are significant predictive factors in the food choice of the students. The study suggests that subjects need to get accustomed to local food ingredients and actively receive information about local food resources to be able to gain a healthier diet.

Abstrak tesis yang dikemukakan kepada Senat Universiti Putra Malaysia sebagai memenuhi keperluan untuk ijazah Master of Science

PENENTU SOSIO-BUDAYA DALAM PEMILIHAN MAKANAN DALAM KALANGAN

PELAJAR IRAN DI UNIVERSITI PUTRA MALAYSIA



ASHRAF NAMAKYAN

FEBRAURY 2010

Pengerusi : Rosita Jamaluddin, PhD

Fakulti : Perubatan dan Sains Kesihatan

Terdapat lebih daripada 5000 pelajar Iran di Malaysia dan mengikut pihak berkuasa tempatan, bilangan ini sedang bertambah. Para pelajar Iran di Malaysia menghadapi masalah pilihan makanan kerana budaya pemakanan di Malaysia berlainan sekali dengan budaya pemakanan di Iran. Disebabkan perbezaan kebudayaan ini, mereka tidak begitu berminat untuk menerima corak pemakanan tempatan dan mereka tidak biasa menggunakan ramuan-ramuan makanan tempatan. Harga tinggi makanan Iran tidak manggalakkan pengamalan santapan ala Iran apabila menjamu selera di luar rumah. Ramuan-ramuan makanan Iran yang sukar diperolehi juga mengehad pilihan para pelajar semasa menyediakan makanan Iran. Oleh yang demikian, faktor-faktor sosio-budaya adalah penentu penting dalam pemilihan makanan para pelajar yang boleh menyebabkan kecenderungan pada tabiat pemakanan yang tidak sihat serta pengambilan makanan yang rendah kepadatan nutrientnya, seperti makanan segera dan makanan ringan. Objektif kajian ini adalah untuk meneroka masalah makanan yang utama dalam kalangan pelajar Iran di Universiti Putra Malaysia, serta membanding pengambilan makanan dan corak pemakanan antara para pelajar sebelum dan semasa tinggal di Malaysia. Satu lagi objektif utama kajian ini adalah untuk menentukan faktor sosio-demografi dan kebudayaan yang mempengaruhi pemilihan makanan para pelajar tersebut di Malaysia. Rekabentuk penyelidikan ini termasuk kajian eksploratif melalui kumpulan tumpuan diikuti oleh soal-selidik kendiri yang meliputi faktor-faktor sosial-demografik, soal-selidik frekuensi makanan dan soalan akulturasi. Kajian ini dilaksanakan dalam kalangan pelajar Iran di Universiti Putra Malaysia. Keputusan menunjukkan bahawa kenaikan pengambilan makanan segera dan makanan ringan yang signifikan, serta pengurangan signifikan dalam pengambilan sayur-sayuran, hasil tenusu dan makanan laut, adalah kelakuan yang tidak sihat dalam kalangan pelajar Iran di Malaysia berbanding dengan mereka yang tinggal di Iran (P<0.05). Perubahan ini juga menunjukkan sedikit sebanyak korelasi dengan keadaan sosio-ekonomi para pelajar Iran dalam Malaysia. Akulturasi, tempoh tinggal di Malaysia serta sikap mereka terhadap makanan Malaysia adalah faktor ramalan yang signifikan dalam kecenderungan pemakanan para pelajar tersebut. Kajian ini mencadangkan bahawa subjek perlu membiasakan diri dengan ramuan makanan tempatan serta menerima maklumat tentang sumber makanan tempatan secara aktif untuk memperoleh gaya pemakanan yang lebih sihat.

ACKNOWLEDGEMENTS

I would like to express my appreciation to UPM for its generous financial supports that let me focus on my study without worries about livelihood. Without this great support, I would have not been able to finish the study. I always will be grateful to UPM for what it has done

I would like to express my heartily gratitude to my supervisor, Dr Rosita Jamaluddin, for her patient guidance, wise advices and the time she put on my project. The main idea of the project came from Associate Professor Dr. Lattifah A. Lattif, my co-supervisor, and I owe her a lot for the sympathetic support, inspiration and technical comments, I very appreciate her.

I would like to express my gratitude towards the staff of the main library of UPM for their kind collaboration in providing the suitable place for the focus group sessions. Appropriately, I would like to thank to all my fellow Iranian students in UPM for their time, effort and welcoming attitude in participating in the focus groups and helping me in the field work. Occasional discussions with my fellow course-mates were very valuable in clarifying my mind and polishing the ideas.

At last but not least, I would like to convey my greatest and deepest thanks and appreciation to my family for their love, care and understanding throughout the period of conducting my research project. I certify that a Thesis Examination Committee has met on February 4th 2010 to conduct the final examination of Ashraf Namakyan on her Master thesis entitled "Socio-cultural Determinants of food Choice among Iranian Students at Universiti Putra Malaysia" in accordance with Universiti pertanian Malaysia Act 1980 and Universiti Pertanian Malaysias and Universiti Putra Malaysia [P.U.(A) 106] Regulations 1981. The Committee recommends that the student be awarded the relevant degree of Master of Sciences.

Members of the Thesis Examination Committee were as follows:

Rozita Rosli, PhD

Associate professor Faculty of Medicine and Health Sciences Universiti Putra Malaysia (Chairperson)

Zaitun Yassin, PhD

Associate Professor Faculty of Medicine and Health sciences Universiti Putra Malaysia (Internal Examiner)

Muhammad Shahrim Ab. Karim, PhD

Lecturer Faculty of Food Science and Technology Universiti Putra Malaysia (Internal Examiner)

Suriah Abd. Rahman , PhD

Professor Faculty of Food Science and Technology Universiti Kebangsaan Malaysia (External Examiner)

Bujang Bin Kim Huat, PhD

Professor and Deputy Dean School of Graduate Studies Universiti Putra Malaysia

Date: 12 April 2010

This thesis was submitted to the Senate of Universiti Putra Malaysia and has been accepted as fulfilment of the requirements for the degree of Master of Sciences. The members of the Supervisory Committee were as follows:

Dr. Rosita Jamaluddin

Faculty of Medicine and Health Sciences Universiti Putra Malaysia (Chairperson)

Dr. Lattif A. Lattif

Associate Professor Dr. Lattif A. Lattif Faculty of Medicine and Health Sciences Universiti Putra Malaysia (Member)

HASANAH MOHD. GHAZALI, PhD

Professor and Dean School of Graduate Studies Universiti Putra Malaysia

Date: 13 May 2010

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 Universiti Putra Malaysia or at any other institution.



TABLE OF CONTENTS

		page
ABSTRAC		iii
ABSTRAK	LEDGEMENTS	v vii
APPROVA		viii
DECLARA LIST OF T		x xviii
LIST OF FI		XVIII XX
CHAPTER		
1 IN7	TRODUCTION	
1.1	Food and culture	3
1.2	Problem statement	6
1.3	Significance of the Study	8
1.4	Objectives of the Study	9
	1.4.1 General Objectives	9
	1.4.2 Specific Objectives	9
1.5	Null hypothesis	10
1.6	Conceptual framework of the study	11
	1.6.1 Food choice	13
	1.6.2 Demographic factors and food choice	13
	1.6.2.1 Income	13
	1.6.2.2 Age	14
	1.6.2.3 Gender	15
	1.6.2.4 Marital status	15
	1.6.2.5 Type of residence	15

	1.6.2.6 Religion	16
1.6.3 A	Acculturation	16
1.6.4 A	Attitude towards local foods	17
1.6.5 I	Length of stay	17

2 LITERATURE REVIEW

2.1	Introduction	18
2.2	Definition of the concepts	19
	2.21 Flavours of food	19
	2.2.2 Healthy foods	20
	2.2.3 Unhealthy foods and unhealthy pattern	21
2.3	Acculturation and nutrition	22
2.4	Attitude towards food and nutrition	28
2.5	Duration of stay and nutrition	28
2.6	Iranian food pattern	29
2.7	Malaysian food pattern	31
2.8	Changing in dietary pattern among immigrants	33
	2.8.1 General changes	33
	2.8.2 Changes in fast food and snack intake	37
2.9	The health risks that immigrants faced due to changing nutrition	39

3 METHODOLOGY

3.1 Introduction

43

3	.2 Study location	43
3	.3 Study design	44
3	.4 Study duration	44
3	.5 Sampling	44
	3.5.1 Inclusion criteria	44
	3.5.2 Exclusion criteria	44
	3.5.3 Sampling methods	45
	3.5.4 Sampling size	45
3.	6 Instruments and data collection	47
	3.6.1 Focus groups discussion	47
	3.6.1.1 Guidance questions of the focus group discussion	48
	3.6.2 Self- administrated questionnaire	49
	a) Socio-demographic characteristics	50
	b) Acculturation, attitude and food culture	50
	i) Acculturation	50
	ii) Attitude towards Malaysian and Iranian foods	51
	iii) Food choice	51
	iv) Skipping main meals	52
	c) Food frequency questionnaire	52
3.7	7 Pilot test study	53
	3.7.1 Reliability	54
3.8	Normality	55
3.9	Data analysis	56
	3.9.1 Food pattern of Iranian student in Iran and Malaysia	56
	3.9.2 Changes in dietary intake and skipping meals	57

3.9.3 Food culture	57
3.9.4 Factors that affect food selection	57

4 RESULT AND DISCUSSION

4	RES	SULT AN	D DISCUSSION	
	4.1	Socio-	demographic profile of the Iranian students in UPM	59
	4.2	The re	sults of focus group discussion	61
		4.2.1	Difficulties in food choices	62
		4.2. <mark>2</mark>	Malaysian foods	63
		4.2.3	Attitude towards Malaysian foods	63
		4.2.4	Residential arrangement and foods preparation	63
		4.2.5	Local fruits and vegetables	64
		4.2.6	Unfamiliar spices	64
		4.2.7	Skipping meals	65
		4.2.8	Fast foods	65
		4.2 .9	Seafood	66
		4.2. 10	Non-halal foods	66
	4.3	Food in	take pattern in Iran and Malaysia	66
	4.4	Chang	es in food intake and dietary Pattern	71
		4.4.1	Changes in frequency of food consumption while staying in Malaysia in comparison in Iran	71
			4.4.1.1 Changes in dairy products consumption	72
			4.4.1.2 Changes in vegetable consumption	76
			4.3.1.3 Changes in fruit consumption	77
			4.3.1.4 Changes in snack and fast foods consumption	77
			4.3.1.5 Changes in seafood consumption	78

4.3.	1.6 Changes in beverages consumption	79
4.3.	1.7 Changes in bread and cereals consumption	81
4.3.	1.8 Changes in meat and poultry products consumption	81
4.3.	1.9 Changes in consumption of Iranian foods	81
4.4.2 Char	nges in skipping main meals after staying in Malaysia	82
	ards Iranian and Malaysian foods and their ocio-cultural factors	83
4.5.1 Attitud	le towards Malaysian foods	83
4.5.2 Attitud	le towards Iranian foods	84
	ation between Socio-cultural factors and attitude towards sian food	85
4.5.3.1	Acculturation	86
4.5.3.2	Association between acculturation and Attitude towards Malaysian foods	88
4.5.3.3	Association between length of stay in Malaysia and Attitude towards Malaysian foods	90
4.6 Food choice of	f Iranian students and its socio-cultural association	91
4.6.1 Restau	rant preference	91
4.6.2 Inclina	tion towards Malaysian cuisines	93
4.6.3 Use of	seasoning in food among Iranian students	94
4.6.4 Malays	ian dishes food choice	96
4.6.5 Correla	ation between Food choice and socio-cultural factors	97
4.6.5	1 Relationship between socio cultural factors and consumption of Malaysian foods	97

4.6.5.2 Relationship between socio-cultural factors and	
consumption of fast foods	100
4.6.5.3 Relationship between socio-cultural factors	101
and consumption of dairy products	
4.6.5.4 Relationship between socio-cultural factors	103
and skipping main meals	
4.6.5.5 Relationship between attitude towards Malaysian foods and Malaysian food choice	s 103
4.7 Predictive factors in Iranian students' food choice	104
4.7.1 Predictors of choice of Malaysian food dishes	104
4.7.2 Predictors of choice of fast food restaurant	101
4.7.2 Tredictors of choice of fast food restaurant	107
5 CONCLUSION	
5.1 Summary and conclusion	114
5.2 Limitation of the study	118
5.3 Recommendations for future research	119
REFERENCES/BIBLIOGRAPHY	120
APPENDICES	132
A. Approval letter from the Ethic Committee	133
B. Respondent's information sheet	134
C. Consent form	136
D. Questionnaire	137
E. Persian questionnaire	148
F. Reliability of Pilot test and Main sample	159
G. Normality of the Main sample	160
BIODATA OF THE AUTHOR	161