

Middle Eastern Immigrants' Satisfaction With Malaysian Healthcare

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Abstract

There has been an increasing number of Middle Eastern immigrants arriving in Malaysia over the last decade due to political and economic instability in their countries. Given their somewhat ambiguous living conditions and residence status here (e.g. legal, illegal, refugee, etc.), it is imperative to understand their situation in-depth. One of the most important aspects that impact the living conditions of these immigrants is health; accordingly, in this research, we attempted to discover the extent and factors of Middle Eastern immigrants' satisfaction with the Malaysian healthcare system and its facilities. In this cross-sectional study, we used a questionnaire to collect data from 219 respondents both online and in-person. Various statistical methods were employed to analyze the data, including descriptive analysis, Pearson's correlation, and multiple regression. The findings indicate a slight dissatisfaction among Middle Eastern immigrants with respect to the Malaysian healthcare system, due to the cost of health services and communication barriers. The results also highlight that marital status, monthly income, awareness of services, Malay language proficiency, and culture are



factors that impact immigrants' perception of the quality of healthcare services. Therefore, this study provides valuable insights into this important group of immigrants in terms of their experience in public and private healthcare facilities that shape their opinions and satisfaction with the Malaysian healthcare system.

Keywords: immigrants, healthcare management, healthcare, minority

1. Introduction

Migration is nothing new in societies; it is as old as humanity. The continued rapid rise in migration worldwide in recent years has led to an increase in the number of international immigrants from 173 million in 2000 to 258 million in 2017, of which over 80 million live in Asia (United Nations, 2018). This is due to many reasons, the most important of which is immigrants' quest to move away from conflict and seek new opportunities in education or work in countries with more political and economic stability (Dontsov & Zotova, 2013).

Today, Malaysia represents a good example of a stable country. It is thus one of the most attractive countries for immigrants, exemplified by the high number of international immigrants (i.e. 3.4 million), who make up 10.7% of the population (United Nations, 2019). In the past few years, some changes in the nationality of immigrants are observable in Malaysia. Specifically, there is a growing proportion of arrivals from the Middle East, especially Arab countries, mainly as a result of political and economic unrest in the region. Although many Middle Eastern immigrants hold residence statuses as students or foreign workers, unfortunately, many of them have not been able to obtain formal residence status from the Malaysian government, ultimately becoming refugees or illegal residents. As of October 2020, there were more than 178,000 asylum seekers and refugees registered with UNHCR in Malaysia, including 3,660 Yemenis, 3,250 Syrians, 3,230 Somalis, 1,220 Iraqis, and 750 Palestinians (United Nations High Commissioner for Refugees, 2020).

Healthcare is undoubtedly one of the most important aspects of living abroad for foreigners; as such, their understanding of the local healthcare system and the use of health facilities in the host country is crucial. Immigrants who flee their country due to political unrest or conflict are likely to suffer poorer health and less satisfaction compared to their new host community. This is often a result of bad experiences when leaving their home country (Gagnon, Merry & Robinson, 2001) or limited access to healthcare in their home country (Grove & Zwi, 2006). In addition, immigrants often lack the basic information and mobility skills required to keep up with the healthcare system in the new country, which are obstacles made worse by language difficulties, low levels of education, and different health and cultural beliefs (Small et al., 2014; Kreps & Sparks, 2008).

From an economic point of view, immigrants are potential clients for public and private health facilities (e.g. hospitals, health insurance companies, and pharmacies); thus, the satisfaction of these clients is clearly important. Therefore, understanding the critical factors and challenges that affect the maximum benefit of both parties is an urgent necessity to elicit the satisfaction required to achieve the best possible profit.



The transition of an individual into a new environment is not easy because of the different social and cultural landscape, which brings with it obstacles such as language and traditions. Such obstacles may affect the immigrant's accessibility to and satisfaction with healthcare services in the new country. It is thus essential to have an in-depth understanding of the extent of Middle Eastern immigrants' satisfaction with Malaysian healthcare services, both public and private, as well as the key reasons influencing their opinions, to create a reference that can be useful for healthcare business managers. This would give them the opportunity to take quick and effective measures to achieve their healthcare organization's main aim of providing patient satisfaction by taking account of this client group's special traits (e.g. cultural differences, language barrier, lack of information, mobility issues).

In addition, in the healthcare sector, the interaction with patients is always at a high level. Consequently, the degree of satisfaction has important indications and implications for clients' future decisions. For example, one study showed that patient satisfaction affects consumer behavior in terms of positive comments, preference for specific medical centers, increased number of visits, and willingness to pay for a service even at a higher cost (Zeithaml & Bitner, 2000).

On the other hand, it is not only the private sector of the healthcare industry that should be concerned about understanding these immigrants. Malaysian governmental organizations in the health sector are also in the same boat in terms of the need to pay attention to immigrants' health situation and their satisfaction. This is because it was found that the threat posed by some immigrant groups may reduce the general health level of the country (Carballo & Nerukar, 2001) due to their deteriorating health status. A lack of awareness about the healthcare system, insufficient language proficiency, and trouble communicating with healthcare providers can all result in differing uses of and satisfaction with the Malaysian healthcare system among immigrants (Moullan & Jusot, 2014).

Clarifying the extent of understanding and satisfaction of this group of immigrants further enables us to grasp the reality of their health level, which is particularly important because it influences the Malaysian healthcare system as a whole. Indeed, the satisfaction of users is often seen as a key indicator of the quality of healthcare services in any country (Lian, 2005). As such, the poor health level of these immigrants threatens to cause a decline in the overall health level of the country (Carballo & Nerukar, 2001). However, no previous study in Malaysia has addressed this group of immigrants and their satisfaction with health services. Empirically examining the most important reasons for these immigrants' satisfaction will enable decision-makers to design and implement appropriate measures and policies that help immigrants gain a healthier, better quality life.

Indeed, research shows a divergence in the views of participants according to their nationality and host country. One study found that adolescent immigrants in Europe suffer from many difficulties, including higher suicide attempt rates compared to their peers (McMahon et al., 2017). In central Asia, shocking information emerged about the health status of immigrants, where immigrants to Kazakhstan reported that their health is poor, they do not see a doctor



when needed, and immigrant women are at higher risk for poor health and lack of access to medical services (Ismayilova et al., 2014). In contrast, another study confirmed that British immigrants are generally satisfied with public healthcare in France, with more than 80% of respondents stating that their relationship with their doctor is excellent or very good (Pelletier-Fleury & Le Vaillant, 2013). One research in Sweden confirmed the need for further studies on immigrants, especially older people, as immigrants suffer more health problems in general. Overall, available studies may have different interpretations due to cultural differences, time of residence, social and economic statuses, and the extent of adaptation to the new society (Albin, Albertsson, Ekberg & Hjelm, 2005). Therefore, it is necessary to take account of past studies from different countries to conduct this study in a realistic manner. Since there has been no previous study on this group of patients in Malaysia, our study has tried to bridge this gap in the literature by exploring satisfaction with Malaysian healthcare services among Middle Eastern illegal and legal immigrants born outside Malaysia.

2. Method

This study was a cross-sectional study that employed the survey method to collect quantitative data from Middle Eastern immigrants in both English and Arabic.

2.1 Sampling

The target respondents of this study were immigrants from the Middle East who had come to Malaysia on a temporary or long-term basis and were aged 18 years or above at the time of the study. It should be noted that a proportion of them had become refugees or illegal residents due to the difficult humanitarian and economic conditions in their countries of origin. This research not only addressed immigrant patients and their past experiences, but also explored the extent to which immigrants understand and are satisfied with the healthcare system in terms of accessibility and affordability in future situations. This is important because it allows the analysis of potential clients' data that effectively affects both the public and private health sectors. The inclusion criteria for participants in the study were as follows:

- 1) Persons of either gender (male or female).
- 2) Persons over the age of 18.
- 3) Persons born in the Arab world or Middle East¹.
- 4) Persons born to two foreign-born parents and have moved to Malaysia.

¹ The **Arab** states are as follows: Algeria - Bahrain - Comoros - Djibouti - Egypt - Iraq - Jordan - Kuwait - Lebanon - Libya Mauritania - Morocco - Oman - Palestine - Qatar - Saudi Arabia - Somalia - Sudan - Syria - Tunisia - United Arab Emirates - Yemen. The countries of the Middle East include some Arab countries in addition to: Iran, Turkey, and Cyprus



Since there are no official statistics for the number of Middle Eastern immigrants to Malaysia, the minimum sample size taken was 200, which is an acceptable size for an unknown population at a 95% confidence level and a precision of $\pm 7\%$ (Glenn, 1992). The participants were informed about the aims of the study and that their participation would be completely voluntary. Also, they were informed that no personal data will be revealed and the results of the study will be used for publication.

2.2 Data Collection

The questionnaire was distributed to the target sample via two methods. The first method was to publish an online questionnaire created using the "Zoho Survey" website on different social media sites. The majority of the data was collected with this method, as it facilitated access to the target respondents at the least possible cost and in the shortest possible time, although it may have produced some undesirable results that were neglected later. The second method involved handing over the questionnaire in person through a wide range of acquaintances, colleagues, and their families and friends. In return for the great effort expended under this approach, it easily provided a clearer and more realistic understanding of the participants' emotions and responses.

The questionnaire was published in two languages, English and Arabic, since the majority of the target population use Arabic as their mother tongue. That made the instrument more capable of getting accurate answers by eliminating the difficulties of understanding a foreign language.

2.3 Statistical Analysis

To analyze the survey's results, descriptive statistics were used to summarize and clarify the most important information from the 32-item questionnaire. The measurement of frequency, expressed as percentages, is one way to achieve descriptive analysis. Next, the associations between the dependent variable and independent variables were analyzed using correlation analysis (r) to indicate the strength, direction, and significance of the linear relationships between two variables (Malhotra, 2010). An r value approaching +1 is referred to as a strong positive relationship while a value approaching -1 indicates a strong negative relationship. Specifically, in this study, Pearson's correlation analysis was used.

To further assess the linear relationships between the dependent variable and the multiple independent ones, multiple regression analysis was used. The coefficient of determination value (R²) is reported between 0 and 1, where a higher value indicates the stronger influence of the independent variables on the dependent one. In addition, reliability analysis was performed using Cronbach's alpha. All analyses were conducted with IBM's Statistical Package for the Social Sciences (SPSS) version 24.0 for Windows.

2.4 Pilot Study

We conducted a pilot study prior to actual data collection to ensure the clarity and comprehensibility of the questionnaire for the respondents as well as to measure the items'



internal consistency, expressed as reliability, using Cronbach's alpha. The Cronbach's alpha value is between 0 and 1, such that a higher number indicates a higher reliability (Boudreau, Gefen & Straub, 2001). The recommended value for reliability is above 0.7. As reported in Table 1, 30 participants were selected for the pilot study, wherein five answered the questionnaire in English and 25 answered it in Arabic. Half of them answered a paper questionnaire in-person while the other half answered the online version. Those who completed the questionnaire in-person were asked to add their comments on the wordings and questions to help improve the content. The results of the pilot study confirmed that all participants found the questionnaire to be simple and understandable.

Table 1. Participants in Pilot Study

Method of Data collection	No. of Participants in Pilot Study (30)
In person (English Version)	3
In person (Arabic Version)	12
Internet (English Version)	2
Internet (Arabic Version)	13

However, some technical problems emerged with the electronic questionnaire, causing a small number of participants to be unable to complete the survey on their mobile devices. This category was advised to use their computers to avoid this problem. On the other hand, as listed in the Table 2 below, the results of the reliability test indicated a satisfactory Cronbach's alpha value exceeding 0.85 for the 10-item scale of satisfaction with healthcare services.

Table 2. Reliability Results of Pilot Study

Scale	No. of Items	Cronbach's Alpha
Satisfaction Level with Healthcare Services	10	0.856

3. Results

The final number of respondents reached 233, but the number was reduced to 219 as 14 questionnares had to be excluded due to missing data. Most of the questionnaires were completed online (144) while some were collected in person (89). Table 3 summarizes the data collection figures and methods.



Table 3. Distribution of Participants

Method of Data Collection	No. of Participants in Study
	N=233 (N=219)
In person (English Version)	8 (8)
In person (Arabic Version)	81 (80)
Internet (English Version)	20 (15)
Internet (Arabic Version)	124 (116)

3.1 Reliability Analysis

The value of Cronbach's alpha is considered acceptable above 0.70 and very good above 0.80 (Pallant, 2011). The value of 0.80 was slightly exceeded (see Table 4) based on our reliability analysis of the final data. This indicates high internal consistency of the measurement scale for satisfaction with healthcare services.

Table 4. Reliability results

Reliability	y Statistics
Cronbach's Alpha	N of Items
.802	10

3.2 Descriptive Analysis

3.2.1 Socioeconomic Background

The participants' nationalities were within the scope of the study (i.e., from Middle Eastern countries). In particular, they were from 20 countries, with a majority from the Syrian Arab Republic (23%), followed by Yemen (12.8%) and Egypt (10.5%). Table 5 shows the complete information on the respondents' nationalities.



Table 5. Respondents' Country of Origin

		Frequency	Percent	Valid Percent	Cumulative Percent
		2	.9	.9	.9
	Algeria	5	2.3	2.3	3.2
	Bahrain	1	.5	.5	3.7
	Egypt	23	10.5	10.5	14.2
	Iran	4	1.8	1.8	16.0
	Iraq	14	6.4	6.4	22.4
	Jordan	8	3.7	3.7	26.0
Valid	Kuwait	1	.5	.5	26.5
	Lebanon	1	.5	.5	26.9
	Libya	14	6.4	6.4	33.3
	Morocco	5	2.3	2.3	35.6
	Oman	8	3.7	3.7	39.3
	Palestine	14	6.4	6.4	45.7
	Qatar	2	.9	.9	46.6
	Saudi Arabia	12	5.5	5.5	52.1
	Somalia	2	.9	.9	53.0
Valid	Sudan	14	6.4	6.4	59.4
	Syria	57	26.0	26.0	85.4
	Tunisia	2	.9	.9	86.3
	Turkey	2	.9	.9	87.2
	Yemen	28	12.8	12.8	100.0
	Total	219	100.0	100.0	



In terms of gender, the number of males (57.1%) was slightly higher than the number of females (42.9%) who participated in the study (see Table 6).

Table 6. Respondents' Gender

		Frequency	Percent	Valid Percent	Cumulative Percent
	Male	125	57.1	57.1	57.1
Valid	Female	94	42.9	42.9	100.0
	Total	219	100.0	100.0	

Next, the age group that was most responsive to the questionnaire was those from 25 to 34 years old (46.1%), followed by the younger age group of 18 to 24 years old (32.7%) (see Table 7).

Table 7. Respondents' Age

		Frequency	Percent	Valid Percent	Cumulative Percent
	18 to 24	71	32.4	32.7	32.7
	25 to 34	101	46.1	46.5	79.3
Wal: J	35 to 44	37	16.9	17.1	96.3
Valid	45 to 54	5	2.3	2.3	98.6
	55 to 59	3	1.4	1.4	100.0
	Total	217	99.1	100.0	
Missing		2	.9		
	Total	219	100.0		

The Islamic religion was a highly common characteristic among the majority of respondents, as close to 95% reported being Muslim. This is expected because the main religion of the respondents' country of origin is Islam (see Table 8).



Table 8. Respondents' Religion

		Frequency	Percent	Valid Percent	Cumulative Percent
	Muslim	207	94.5	95.4	95.4
	Christian	3	1.4	1.4	96.8
Valid	non-religious	6	2.7	2.8	99.5
	Other	1	.5	.5	100.0
	Total	217	99.1	100.0	
Missing		2	.9		
	Total	219	100.0		

Table 9 shows that the marital status of most respondents was unmarried (59.2%) whereas 39% were married.

Table 9. Respondents' Marital Status

		Frequency	Percent	Valid Percent	Cumulative Percent
	Single, Never Married	129	58.9	59.2	59.2
	Married	85	38.8	39.0	98.2
Valid	Divorced	3	1.4	1.4	99.5
	Widower/Widow	1	.5	.5	100.0
	Total	218	99.5	100.0	
Missing		1	.5		
	Total	219	100.0		

The number of family members in the respondents ranged from small to medium, with most reporting less than four family members (46.8%) and about 37% reporting a family of four to six (see Table 10).



Table 10. Respondents' Family Size

		Frequency	Percent	Valid Percent	Cumulative Percent
	Less than 4	96	43.8	46.8	46.8
X 7-1: J	4-6	76	34.7	37.1	83.9
Valid	More than 6	33	15.1	16.1	100.0
	Total	205	93.6	100.0	
Missing		14	6.4		
Total		219	100.0		

The immigrants who participated in this study also showed a high level of education, as a large majority (78.4%) had completed their university studies (see Table 11).

Table 11. Respondents' Highest Education Level

		Frequency	Percent	Valid Percent	Cumulative Percent
	University	171	78.1	78.4	78.4
	High School	38	17.4	17.4	95.9
Valid	Less than High School	9	4.1	4.1	100.0
	Total	218	99.5	100.0	
Missing		1	.5		
Total		219	100.0		

Slightly more than half (52.5%) the participants were still students, indicating that even those who had finished their studies in their home country came to Malaysia for further studies. About 12% were unemployed, which may have impacted our study (see Table 12).



Table 12. Respondents' Employment Status

		Frequency	Percent	Valid Percent	Cumulative Percent
	Student	115	52.5	52.5	52.5
	Employee	57	26.0	26.0	78.5
Valid	Self-Employed	21	9.6	9.6	88.1
	Unemployed	26	11.9	11.9	100.0
	Total	219	100.0	100.0	

Despite their high rate of academic attainment, their employment status appears to have affected the monthly income of this group of immigrants, since most of them were students. An important and interesting indicator of the respondent immigrants was than more than 85% of them earned less than RM5,000 per month (see Table 13), which is less than the average Malaysian monthly income of RM5,228 for 2016 (The Star, 2017). This can be explained by the fact that most participants were either students or unemployed.

Table 13. Respondents' Monthly Income

		Frequency	Percent	Valid Percent	Cumulative Percent
	RM 2000 and below	93	42.5	45.1	45.1
	RM 2001-3000	45	20.5	21.8	67.0
V ol: d	RM 3001-4000	24	11.0	11.7	78.6
Valid	RM 4001-5000	16	7.3	7.8	86.4
	RM 5001 and above	28	12.8	13.6	100.0
	Total	206	94.1	100.0	
Missing		13	5.9		
Total		219	100.0		

3.2.2 Awareness of Services

Respondents' awareness of healthcare services is an important variable that may impact their satisfaction with healthcare in the host country; thus, it enhances the understanding of these immigrants. First, Table 14 shows that the largest proportion of immigrants (70.8%) sought medical services only when sick, with only about 14% going periodically to check their health.



Table 14. Respondents' Seeking of Healthcare Services

		Frequency	Percent	Valid Percent	Cumulative Percent
	No Visits	33	15.1	15.1	15.1
	Only When Sick	155	70.8	70.8	85.8
Valid	For Sickness & Wellness Care	31	14.2	14.2	100.0
	Total	219	100.0	100.0	

More shocking is the fact that more than half the respondents were not fully aware of where they can go when they need medical services (54%) (see Table 15).

Table 15. Respondents' Awareness of Where to Go for Medical Services

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	I Know Exactly Where to Go	100	45.7	45.9	45.9
	Not Sure	118	53.9	54.1	100.0
	Total	218	99.5	100.0	
Missing		1	.5		
Total		219	100.0		

Another important statistic emerged regarding respondents' awareness of the procedures and costs of admission in Malaysian hospitals, both public and private (see Table 16). Their answers indicated a generally weak level of knowledge about these important details, as the majority of respondents (close to 70%) said they are 'not sure'. This obvious lack of awareness may have a significant impact on the satisfaction of these immigrants with Malaysian healthcare services.



Table 16. Respondents' Awareness of Procedures and Costs of Hospital Admission

		Frequency	Percent	Valid Percent	Cumulative Percent
	Yes, I know	68	31.1	31.2	31.2
Valid	Not sure	150	68.5	68.8	100.0
	Total	218	99.5	100.0	
Missing		1	.5		
Total		219	100.0		

Finally, Table 17 depicts respondents' awareness of health insurance, which is now an important component of healthcare in many countries around the world. The extent to which immigrants understand their health insurance, as well as how to use and benefit from it, is crucial, especially because they have paid a substantial amount for it. The results, however, were negative in this regard, with a majority of participants (44.7%) claiming not to understand how to use their health insurance and only a third saying the opposite.

Table 17. Respondents' Awareness of Health Insurance and How to Use It

		Frequency	Percent	Valid Percent	Cumulative Percent
	Yes	65	29.7	29.7	29.7
Valid	No	98	44.7	44.7	74.4
Valid	I don't have health insurance	56	25.6	25.6	100.0
	Total	219	100.0	100.0	

3.2.3 Proficiency in English and Malay Languages

Language is one of the most vital factors affecting migrants to a country with a different spoken language. Not surprisingly, the vast majority of respondents (about 95%) considered Arabic to be their mother tongue (see Table 18).



Table 18. Respondents' Native Language

		Frequency	Percent	Valid Percent	Cumulative Percent
	Arabic	206	94.1	94.9	94.9
	Turkish	2	.9	.9	95.9
Valid	Persian	5	2.3	2.3	98.2
	Other	4	1.8	1.8	100.0
	Total	217	99.1	100.0	
Missing		2	.9		
Total		219	100.0		

On a positive note, almost all the participants (92.7%) reported good or very good proficiency in English, which is widely spoken in Malaysia, especially in the capital city of Kuala Lumpur (see Table 19).

Table 19. Respondents' English Language Proficiency

		Frequency	Percent	Valid Percent	Cumulative Percent
	Very Well	121	55.3	55.5	55.5
	Well	81	37.0	37.2	92.7
Valid	Not Well	10	4.6	4.6	97.2
	Not At All	6	2.7	2.8	100.0
	Total	218	99.5	100.0	
Missing		1	.5		
Total		219	100.0		

On the contrary, the respondents' proficiency in the Malay language, the official language of Malaysia, was not as good as in English. Most of them (56.2%) stated they do not know the language at all, while only seven (3%) respondents claimed to be very fluent in Malay (see Table 20).



Table 20. Respondents' Malay Language Proficiency

		Frequency	Percent	Valid Percent	Cumulative Percent
	Very Well	7	3.2	3.2	3.2
	Well	28	12.8	12.8	16.0
Valid	Not Well	61	27.9	27.9	43.8
	Not At All	123	56.2	56.2	100.0
	Total	219	100.0	100.0	

Notably, many of the respondents (65%) mentioned facing issues with language and translation when they went to health centers (see Table 21).

Table 21. Respondents' Issues with Language and Translation in Health Facilities

		Frequency	Percent	Valid Percent	Cumulative Percent
	Yes, I have	49	22.4	22.4	22.4
Val: d	Yes, sometimes	94	42.9	42.9	65.3
Valid	No, everything is ok	76	34.7	34.7	100.0
	Total	219	100.0	100.0	

3.2.4 Legal Status

The legal status of immigrants is critical to their access to and satisfaction with the healthcare provided to them in the host country. Indeed, illegal immigrants may lack access to their most basic human rights. Although there are quite a number of refugees and illegals in Malaysia, most of the participants in this study were legal residents in the country (88%). The remaining respondents comprised one of three types, i.e., illegal, illegal refugee, or illegal asylum seeker (see Table 22).



Table 22. Respondents' Legal Status

		Frequency	Percent	Valid Percent	Cumulative Percent
	Legal	193	88.1	88.9	88.9
	illegal	4	1.8	1.8	90.8
Valid	illegal & Refugee	13	5.9	6.0	96.8
	illegal & Asylum seeker	7	3.2	3.2	100.0
	Total	217	99.1	100.0	
Missing		2	.9		
Total		219	100.0		

Next, immigrants are sensitive to the need for similar treatment as ordinary citizens with regards to healthcare access. This is clearly a significant reflection of their satisfaction with these services. Table 23 shows that 64.4% of the respondents feel that their status in Malaysia either directly or indirectly impacts their access to healthcare services.

Table 23. Respondents' Perception of Residence Status's Effect on Access to Health Services

		Frequency	Percent	Valid Percent	Cumulative Percent
	Yes	88	40.2	40.7	40.7
Valid	Yes, sometimes	51	23.3	23.6	64.4
vanu	No	77	35.2	35.6	100.0
	Total	216	98.6	100.0	
Missing		3	1.4		
Total		219	100.0		



3.2.5 Duration of Residence in Malaysia

Naturally, the longer one lives in any country, the better one's understanding and ability to adapt to the culture, the new environment, and the regulations and laws of that country. Most of the immigrants in our study appeared to be new arrivals, as the results showed that about 85% had lived in Malaysia for one to five years while only 4.6% had exceeded 10 years of residence (see Table 24). This confirms that Malaysia has recently become a desirable destination because of the many facilities offered to Middle Eastern immigrants with regard to visa procedures.

Table 24. Respondents' Duration of Residence

		Frequency	Percent	Valid Percent	Cumulative Percent
	< 1 Year	39	17.8	17.8	17.8
	1 - 5	146	66.7	66.7	84.5
Valid	6 - 10	24	11.0	11.0	95.4
	10 and above	10	4.6	4.6	100.0
	Total	219	100.0	100.0	

3.2.6 Culture

Immigrants' culture often conflicts with that of their host country, which may affect their satisfaction with certain services provided in that country. From a medical point of view, many people use traditional medicine instead of commercial medicines, raising the issue of the potential unavailability of their countries' traditional medicines in the host country. The diversity of medical traditions in Malaysia, such as traditional Chinese acupuncture, Indian ayurvedic medicine, and Malay herbal medicine, seems to have alleviated cultural barriers with Middle Eastern countries, especially since most of these countries share common beliefs with the Malaysian people in terms of Islamic culture. Although 62% of respondents indicated their frequent use of traditional medicine (see Table 25), this does not cause any cultural contradictions with the healthcare they receive in Malaysia, as most immigrants reported no conflict between their original culture and the culture they encountered in Malaysia in relation to healthcare (see Table 26).



Table 25. Respondents' Usage of Traditional Medicine

		Frequency	Percent	Valid Percent	Cumulative Percent
Valid	Yes, always	38	17.4	17.4	17.4
	Yes, sometimes	97	44.3	44.5	61.9
	No, at all	83	37.9	38.1	100.0
	Total	218	99.5	100.0	
Missing		1	.5		
Total		219	100.0		

Table 26. Respondents' Perception of Cultural Conflict with Malaysian Healthcare

		Frequency	Percent	Valid Percent	Cumulative Percent
	Yes, most of time	20	9.1	9.1	9.1
V -1: 4	Yes, sometimes	64	29.2	29.2	38.4
Valid	No	135	61.6	61.6	100.0
	Total	219	100.0	100.0	

3.2.7 Satisfaction of Immigrants with Healthcare System

A five-point Likert scale (1 = Strongly disagree to 5 = Strongly agree) was used to assess the degree of satisfaction of Middle Eastern immigrants with the Malaysian healthcare system. Table 27 offers a more comprehensive idea of the participants' views. The overall mean value of 2.87 showed a moderate satisfaction level, with a slight tendency towards dissatisfaction (SD = 1.157). Of the 10 statements, only three indicated respondents' satisfaction, with mean values above the average. They were about doctors and staff helping patients and answering their questions (M = 3.26, SD = 1.235), doctors spending plenty of time with patients (M = 3.03, SD = 1.13), and friendly treatment from the doctors, which was the highest (M = 3.45, SD = 1.156).

On the other hand, the remaining seven statements received negative ratings. The most notable of these were participants' trust in the competence of doctors (M = 2.58, SD = 1.107), the accessibility of government healthcare services (M = 2.63, SD = 1.115), and the general



satisfaction of respondents with the Malaysian healthcare system (M = 2.75, SD = 1.173). Above all, the most obvious value was the participants' dissatisfaction with healthcare costs (M = 2.21, SD = 1.235).

Table 27. Respondents' Level of Satisfaction with the Malaysian Healthcare System

	Valid	Missing	Mean	Std. Deviation
1. I always get help and answers to all my questions from staff and doctors when I go to any health center.	213	6	3.26	1.235
2. I fully trust the competence of doctors and the quality of medical services provided in Malaysia.	215	4	2.58	1.107
3. I have no problem with healthcare costs.	215	4	2.21	1.235
4. It easy to access public healthcare services whenever I need.	215	4	2.63	1.115
5. It easy to access private healthcare services whenever I need.	214	5	2.99	1.204
6. I think doctors' offices have everything needed to provide complete medical care.	215	4	2.88	1.100
7. The office hours during which I can get medical care are convenient for me.	213	6	2.96	1.117
8. The doctors treat me in a very friendly and courteous manner.	216	3	3.45	1.156
9. Doctors usually spend plenty of time with me.	214	5	3.03	1.130
10. Overall, I am satisfied with the healthcare system in Malaysia.	216	3	2.75	1.173
			2.87	1.1575



3.3 Correlation Analysis

Pearson's correlation analysis was employed to verify the relationships between the different variables. The linear relationships between the independent variables (gender, age, marital status, highest education level, employment status, monthly income, awareness of services, English and Malay language proficiency, legal status, duration of residence, and culture) and the dependent variable (level of satisfaction with healthcare system) were tested. For the dependent variable, we had to choose one of the statements from the scale that gave the best representation of our dependent variable. The item selected was "satisfaction with costs of healthcare" because of its extreme value and its ability to be an important predictor of satisfaction. The outcome of the correlation analysis is shown in Table 28.

Table 28. Results of Correlation Analysis

	Satisfaction of Immigrants with the Healthcare system (SIwHS)		
	Coefficient (r)	Sig. (2-tailed)	
Gender	.056	.415	
Age	129	.061	
Marital Status	157*	.022	
Highest Education Level	.072	.293	
Employment Status	088	.196	
Income	.047	.510	
Awareness of Services	230**	.001	
English Use and Proficiency	.044	.524	
Malay Use and Proficiency	160*	.019	
Legal Status	080	.247	
Duration of Residence	.024	.724	
Culture	151*	.027	

^{*} Correlation is significant at the 0.05 level (2-tailed)

Based on the results, immigrants' satisfaction with the healthcare system has a highly weak negative correlation with their marital status (r = -0.157; p < 0.05), Malay use and proficiency (r = -0.160; p < 0.05) and culture (r = -0.151; p < 0.05). It also has a weak negative correlation with immigrants' awareness of services (r = -0.230; p < 0.01). In addition, there are some interrelationships among the socioeconomic variables. For example, age and marital status have a moderate positive correlation with each other (r = 0.522; p < 0.01), while age also correlates weakly with highest education level (r = -0.291; p < 0.01)

^{**} Correlation is significant at the 0.01 level (2-tailed)



and employment status (r=0.396; p < 0.01). Highest education level revealed a weak correlation with English use and proficiency (r=0.305; p < 0.01) as well.

In summation, the above analysis showed that immigrants' satisfaction with the Malaysian healthcare system is correlated with their marital status, awareness of services, Malay use and proficiency, and culture. In terms of the hypotheses, this analysis supports the following:

- Marital status has an impact on Middle Eastern immigrants' satisfaction with the Malaysian healthcare system (r = -0.157; p < 0.05).
- Knowledge and understanding of the Malaysian healthcare system (medical insurance, for example) has an impact on Middle Eastern immigrants' satisfaction with Malaysian healthcare system (r = -0.230; p < 0.01).
- Malay language proficiency has an impact on Middle Eastern immigrants' satisfaction with the Malaysian healthcare system (r = -0.160; p < 0.05).
- Culture has an impact on Middle Eastern immigrants' satisfaction with the Malaysian healthcare system (r = -0.151; p < 0.05).

3.4 Regression Analysis

In order to overcome some limitations of the correlation analysis, multiple linear regression was performed to achieve the research objectives. Under this analysis, we attempted to examine the influence of a number of independent variables on our single dependent variable (SIwHS) as this method is one of the most useful in this regard (Pallant, 2010). Tables 29, 30, and 31 represent the linear regression analysis results.

Table 29. Multiple Regression Analysis (Model Summary b)

R	R Square	Adjusted R Square	Std. Error of the Estimate
.383ª	.147	.091	1.191

a. Predictors: (Constant), Culture, Highest education level, Employment status, Duration of residence, Gender, English use and proficiency, Legal status, Malay use and proficiency, Awareness of services, Income, Marital status, Age

b. Dependent Variable: SIwHS

The regression model contained 12 independent variables, which had a coefficient of multiple determinations (R2) equal to 0.147 (see Table 29). This means that 14.7% of the variance of satisfaction was explained by this combination of twelve independent variables. The remaining factors that influence the satisfaction of immigrants with the healthcare system were not included in this study.

Table 30 presents the results of the ANOVA test. The significance value of this test was 0.003, which indicates that our independent variables were jointly significant in explaining the



dependent variable. The F test returned a value of 2.624 for the satisfaction of immigrants with the healthcare system, which was highly significant (0.003).

Table 30. ANOVA Test Results

ANOVA ^a						
Model	Sum of Squares	df	Mean Square	F	Sig.	
Regression	44.659	12	3.722	2.624	.003 ^b	
Residual	259.545	183	1.418			
Total	304.204	195				

a. Dependent Variable: Satisfaction of immigrants with the healthcare system

All coefficient values of the variables as well as the results of the t-test are shown in Table 31. The t-test results declare that three independent variables, namely marital status, income, and awareness of services, were significant in determining immigrants' satisfaction with the healthcare system, with awareness of services having the strongest effect on satisfaction ($\beta = -0.654$).

b. Predictors: (Constant), Culture, Highest education level, Employment status, Duration of residence, Gender, English use and proficiency, Legal status, Malay use and proficiency, Awareness of services, Income, Marital status, Age



Table 31. Multiple Regression Analysis Results (Coefficients ^a)

Model	Unstandardized Coefficients		Standardized Coefficients	t	Sig.
_	ß	Std. Error	Beta	_	G
(Constant)	3.934	.735		5.353	.000
Gender	.168	.180	.066	.937	.350
Age	.003	.142	.002	.019	.985
Marital Status	432	.192	189	-2.248	.026
Highest Education Level	.064	.199	.026	.321	.748
Employment Status	038	.097	030	391	.696
Income	.132	.066	.151	1.986	.049
Awareness of the services	654	.186	262	-3.510	.001
English use and proficiency	.229	.139	.124	1.649	.101
Malay use and proficiency	099	.110	067	905	.367
Legal status	163	.141	084	-1.158	.248
Duration of residence	136	.138	074	986	.325
Culture	056	.140	030	399	.691

a. Dependent Variable: Satisfaction of immigrants with the healthcare system



4. Discussion

The conceptual framework of this research (see Figure 1) sought to determine, first, the satisfaction of Middle Eastern immigrants with the Malaysian healthcare system, and second, the key factors that impact their satisfaction. To answer the question "How satisfied are Middle Eastern immigrants with the services provided to them in Malaysian health facilities, both public and private?", the results confirmed a slight dissatisfaction with the level of healthcare in Malaysia. Notably, the greatest dissatisfaction was with healthcare costs, potentially due to immigrants' financial difficulties in their new host country. This is especially pertinent as most of the study's participants were students, while more than 85% of the respondents reported a monthly income of less than RM5,000, which is less than the average Malaysian's monthly income. It is also possible that the respondents find a stark difference between the healthcare costs of Malaysia and their country of origin.

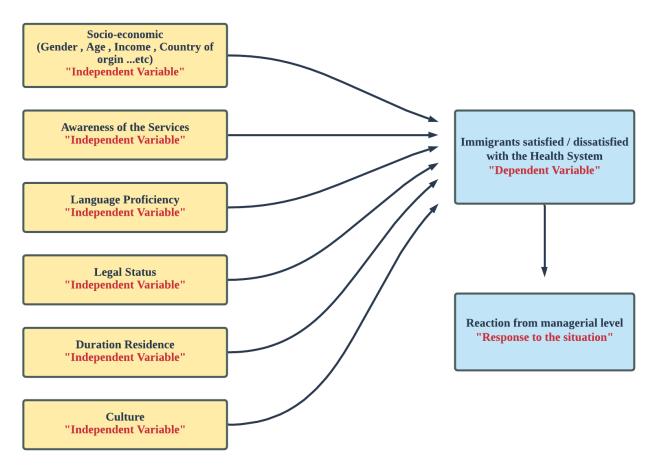


Figure 1. Conceptual framework

In achieving the second objective of this research to understand the main reasons behind the (dis)satisfaction of Middle Eastern immigrants with the Malaysian healthcare system, 12 independent variables were tested as predictors of immigrants' satisfaction with healthcare services. Of these, marital status, monthly income, awareness of services, Malay language proficiency, and culture were found to influence respondents' satisfaction.



According to the Malaysian Healthcare Travel Council (2018), the healthcare industry will grow to reach RM 80 billion by 2020 from RM 52 billion at the end of 2017. This underscores the growing importance of the industry for both the public and private sectors. Unfortunately, there is a relative dissatisfaction among Middle Eastern immigrants with regard to the healthcare they receive in Malaysia, putting pressure on both sectors to take responsibility and work harder to meet the expectations of these immigrants.

This study showed that immigrants have limited awareness of the admission procedures of health centers or where they should go for medical assistance. The Ministry of Health should thus raise awareness among immigrants about local healthcare services. This can be done by providing adequate explanation or publishing guidelines at the entrances of health centers. Cost-effective approaches like social media sites can even be used to spread information, preferably in multiple languages for increased impact. The statistics of this study also indicate that, generally, the monthly income of most immigrants does not exceed RM 5000. This has placed financial pressure on them in terms of their ability to access and receive necessary medical treatment, especially in light of the high cost of health services in Malaysia. According to Willis Towers Watson (2017), there has been a consistent increase in medical costs since 2016, resulting in the growth of Asia Pacific countries as a whole. This has clearly affected the satisfaction of immigrants with healthcare costs, more so since most immigrants are students or even refugees who cannot work legally. Programs should be implemented to reduce the financial burden of students or refugees in cooperation with NGOs. Donors from private companies or United Nations organizations can also provide funding or small loans to help immigrants afford healthcare costs in critical health situations. For instance, in Austria, migrant, refugee, and asylum-seeking women are provided health support services in relevant foreign languages for free, including services for children and women affected by domestic and sexual violence (World Health Organization, 2018). Another initiative from Germany is the pilot project called Pregnancy and Flight, which targets pregnant refugee women in need. The helpline is available in 17 languages and focuses on pregnant refugees' special needs for support and assistance (World Health Organization, 2018).

As noted earlier, private insurance companies, hospitals, health clinics, and chain pharmacies should pay more attention to the growing target market of Middle Eastern immigrants by applying marketing plans and tools that are slightly different from those targeting Malaysians. First, the language factor must be taken seriously in all marketing processes, which will effectively increase awareness among immigrants. For example, insurance companies can explain their plans, benefits, and usage of their insurance cards in multiple languages (e.g. Arabic and Persian) on their website in addition to creating some explanatory videos in languages. Next, it should be noted that individuals are active representatives who build and rebuild the cultural forms that shape their opinions and actions (Kilduf & Corley, 1999). In other words, it is important to conduct studies on the culture and traditions of immigrants because of the significance of the diaspora of home countries' culture and its role in affecting the way immigrants think and react towards a different culture in the host country. More research in this area will bestow a greater opportunity to understand this category of



customers and the possibility of attracting them through customized promotion campaigns tailored to elements of their cultural heritage.

Finally, given that the language factor may remain one of the most important factors for immigrants around the world, it may affect other factors, such as awareness and access. This study found a significant result in this regard, where more than 65% of the respondents expressed language difficulties in health centers. Therefore, we recommend providing translators in health centers and hospitals, both public and private, who can be of assistance when needed.

5. Limitations of the Study

There are a few limitations that could have affected this study's outcomes. First, although the sample targeted for this research were immigrants from Arab countries and other Middle Eastern countries, such as Turkey and Iran, the number of participants from the latter two countries was limited, with only six participants. This makes it difficult to generalize the results to these two countries, especially since there are differences in language and culture with Arab countries, which received the larger number of participants.

Second, this research is a cross-sectional study; thus, the views of Middle Eastern immigrants about the Malaysian healthcare system were studied at a specific point in time regardless of their length of residence or experience with healthcare in the country. This prevents a comprehensive idea of the change in their views and the factors affecting them over time.

Finally, limited time was available to conduct this research, which affected the ability to pursue a greater number of respondents.

6. Recommendations for Future Studies

Based on the limitations mentioned above, some recommendations can be made to future researchers. First, this study was based on a broad sample of Middle Eastern immigrants. It is useful for researchers interested in this field to focus on a specific sample of only refugees or illegal immigrants, because this group may suffer from greater difficulties in the host country.

Second, the framework of this research can be extended to a larger sample while data can be collected from various sources in the healthcare industry, such as hospitals' client satisfaction surveys and third-party surveys and statistics.

Third, to gain a more accurate and deeper understanding of the factors influencing the satisfaction of immigrants with healthcare, qualitative research can preferably be conducted to examine these factors and identify practical solutions.

Finally, immigrants and their views vary greatly from country to country based on their culture, language, and expectations instilled in their country of origin. Therefore, it is useful to apply this study in different countries and among different categories of immigrants in these countries to provide valuable insights on this topic.



7. Conclusion

To date, there has been limited information on the satisfaction of immigrants, in general, and Middle Eastern immigrants, in particular, with the Malaysian healthcare system. The few studies that have addressed this issue were on retired Japanese immigrants' healthcare in Malaysia (Kohno et al., 2016) and the health-related quality of life factors of Iraqi immigrants in Malaysia (Daher AM, Ibrahim, Daher TM & Anbori, 2011). In addition, a recent qualitiative study in 2019 explored the most important barriers to healthcare access faced by migrant workers in Malaysia (Loganathan, Rui, Ng & Pocock, 2019). Alternatively, our study presents a different view that has not been discussed previously in the Malaysian context. That is, it focused on immigrants' level of satisfaction not only from the humanity perspective, but also on the level of business and economy, by considering these immigrants as current and potential clients.

Overall, the current study has also shown results that are consistent with a range of previous studies from different countries, indicating a general trend toward lower levels of satisfaction among immigrants on host countries' healthcare. For example, a review, which included 28 studies, found that immigrants usually showed lower satisfaction levels with health services in western developed countries (Mastaki, 2010). Similirarly, African immigrants were mostly dissatisfied with local health services in Guangzhou, China (Lin et al., 2015). A recent study conducted in Finland also found that adults of Russian, Somali, and Kurdish origin were less satisfied than the general population with the health services they had used (Cilenti et al., 2021). On the other hand, some other studies have revealed findings contrary to our study. A Norwegian study demonstrated that Pakistani immigrants were adequately satisfied with the health care services provided to them in the country (Mohsin, 2017). Another study, which conducted with a sample consisted of 4083 respondents, indicated that immigrants have higher levels of satisfaction with healthcare in Qatar (Ali, Nikoloski & Reka, 2015). Additionally, the findings of a recent study conducted in three different countries, Denmark, Germany, and the Netherlands, showed that immigrants expressed a higher level of satisfaction with public healthcare in these countries (Seibel & Renema, 2021).

This study offered further insights and a deeper understanding of the impact of a number of factors on Middle Eastern immigrants' perceptions of the healthcare in Malaysia based on their experiences. For example, we revealed a slight dissatisfaction with the healthcare system and the role of the lack of awareness of health services in guiding these views, demonstrating the importance of this factor at the theoretical and practical levels. In addition to awareness of services, factors were like cost of services, marital status, monthly income, Malay proficiency, and culture were also considered to have a significant impact on immigrants' satisfaction.

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