

UNIVERSITI PUTRA MALAYSIA

FACTORS OF MIGRATION AND JOB SATISFACTION LEVEL AMONG FOREIGN-EDUCATED NURSES IN MALAYSIA

LEE SU YEN

FPSK(m) 2021 41



FACTORS OF MIGRATION AND JOB SATISFACTION LEVEL AMONG FOREIGN-EDUCATED NURSES IN MALAYSIA



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

COPYRIGHT

All material contained within the thesis, including without limitation text, logos, icons, photographs and all other artwork, is copyright material of Universiti Putra Malaysia unless otherwise stated. Use may be made of any material contained within the thesis for non-commercial purposes from the copyright holder. Commercial use of material may only be made with the express, prior, written permission of Universiti Putra Malaysia.

Copyright © Universiti Putra Malaysia



Abstract of thesis presented to the Senate of Universiti Putra Malaysia in fulfilment of the requirement for the degree of Master of Science

FACTORS OF MIGRATION AND JOB SATISFACTION LEVEL AMONG FOREIGN-EDUCATED NURSES IN MALAYSIA

Ву

LEE SU YEN

August 2021

Chair : Professor Soh Kim Lam, PhD Faculty : Medicine and Health Sciences

Global migration and international recruitment have become trends in the nursing profession. Nurse migration to Malaysia was once a common phenomenon but has declined over the years. However, this number of foreign-educated nurses in Malaysia may be underestimated. Many of them working in clinics, nursing homes, and private homes were not required to register with the Malaysia Nursing Board. Exploring the migration of foreign-educated nurses in Malaysia can provide new insights on their population and factors affecting their migration to the country. This study examines the migration of foreign-educated nurses in Malaysia, including factors affecting migration and their job satisfaction level.

A cross-sectional design with purposive and snowball sampling method was conducted on foreign-educated nurses working in Malaysia. Foreign-educated nurses on the list from Malaysian Nursing Board were contacted, the study's purpose explained, and additional information was obtained from nurses who agreed to participate. The respondents then introduced their friends or colleagues who were either registered or unregistered with the board. Thus, snowball sampling began with sharing contact information between individuals.

A structured questionnaire originated from Oda et al. (2016) was used to collect data. The questionnaire comprises four sections: respondents' profile, nursing education, working abroad, and job satisfaction.

Subjects (n=102) participated in the study. The majority of the foreign-educated nurses who participated in this study were unregistered with the Malaysian Nursing Board (79.4%), worked as registered nurse (86.3%) in nursing or private homes (75.5%). 68.6% of the foreign-educated nurses were females, Christians (73.5%), from Philippines (67.6%) and obtained a bachelor's degree certificate

(80.4%). Findings revealed more than 50% of the foreign-educated nurses stated that the pull factors affecting their migration to the country were higher salary and benefits, better quality of day-to-day life, self-respect and dignity, low recruitment and processing fees, children's education and future, and high level of nursing skills and technology in Malaysia. The main push factors causing participants to migrate to Malaysia were low salary and few benefits in their own country (68.6%), high ratio of patients to nursing care (64.7%), poor working conditions (58.8%), problem or corruption in obtaining employment (57.8%) and limited opportunities for promotion and career advancement (56.9%). The demographic status of the foreign-educated nurses was correlated with the pull and push factors (p<0.05). 85.3% of the foreign-educated nurses expressed a positive satisfaction level, primarily when serving the sick and needy (85.3%). The results revealed significant differences in job satisfaction of registered and unregistered foreign-educated nurses (p=0.04), nurses with Hindu, and other religions (p=0.03), nurses from India and the Philippines (p=0.02).

The majority of the foreign-educated nurses in Malaysia was not register with the Malaysian Nursing Board. However, the overall satisfaction of these nurses was positive. Pull-push factors identified in this study showed a significant relationship with the sociodemographic status. There was a significant difference between sociodemographic status, factors affecting migration, and job satisfaction among the foreign-educated nurses. Nurse managers and policy makers at both entrance and exit points of the migration process should use these findings to facilitate effective management of the consequential challenges of the migration process.

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

FAKTOR MIGRASI DAN KEPUASAN KERJA DALAM KALANGAN JURURAWAT BERPENDIDIKAN LUAR NEGARA DI MALAYSIA

Oleh

LEE SU YEN

Ogos 2021

Pengerusi : Profesor Soh Kim Lam, PhD Fakulti : Perubatan dan Sains Kesihatan

Migrasi global dan pengambilan pekerja antarabangsa telah menjadi trend dalam profesion kejururawatan. Migrasi jururawat ke Malaysia pernah menjadi satu fenomena yang biasa tetapi telah merosot selama ini. Walau bagaimanapun, bilangan jururawat berpendidikan luar negara di Malaysia ini mungkin dianggar rendah hasil ramai daripada mereka yang bekerja di klinik, rumah penjagaan dan rumah persendirian tidak perlu mendaftar dengan Lembaga Jururawat Malaysia. Penerokaan penghijrahan jururawat berpendidikan luar negara di Malaysia boleh memberikan pandangan baharu mengenai populasi dan faktor yang mempengaruhi penghijrahan mereka ke negara ini. Tujuan kajian ini adalah untuk meneroka penghijrahan jururawat berpendidikan luar negara di Malaysia, termasuk faktor-faktor yang mempengaruhi penghijrahan dan tahap kepuasan kerja mereka.

Reka bentuk penyelidikan dengan kaedah persampelan bertujuan dan bola salji telah dijalankan. Jururawat berpendidikan luar negara dalam senarai daripada Lembaga Jururawat Malaysia telah dihubungi, tujuan kajian diterangkan, dan informasi tambahan telah diperolehi daripada jururawat yang setuju untuk meyertai kajian ini. Responden kemudian memperkenalkan kawan-kawan atau rakan sekerja yang berdaftar atau tidak berdaftar dengan Lembaga. Oleh itu, kaedah persampelan bola salji bermula dari berkongsi maklumat hubungan antara individu.

Soalselidik berstruktur yang berasal dari Oda et al. (2016) telah digunakan untuk mengumpul data. Soalselidik tersebut merangkumi empat bahagian: profil responden, pendidikan kejururawatan, berkerja di luar negara, dan kepuasan kerja.

Subjek (n=102) telah mengambil bahagian dalam kajian ini. Majoriti jururawat berpendidikan luar negara yang mengambil bahagian dalam kajian ini adalah tidak berdaftar (79.4%), kerja sebagai jururawat (86.3%) di rumah jagaan atau rumah persendirian (75.5%). 68.6% jururawat berpendidikan luar negara adalah wanita. beragama Kristian (73.5%), dari Filipina (67.5%) dan mempunyai sijil ijazah sarjana muda (80.4%). Penemuan telah menunjukkan bahawa lebih daripada 50% jururawat berpendidikan luar negara menyatakan bahawa faktor penarik vang mempengaruhi penghijrahan mereka ke negara ini adalah gaji dan faedah yang lebih tinggi, kualiti hidup seharian yang lebih baik, rasa hormat diri dan maruah, pengambilan dan yuran pemprosesan yang rendah, pendidikan kanakkanak dan masa depan serta tahap kemahiran kejururawatan dan teknologi yang tinggi di Malaysia. Faktor penolak utama yang menyebabkan peserta berhijrah ke Malaysia adalah gaji dan manfaat yang rendah di negara asal mereka (68.6%), nisbah pesakit dan jururawat yang tinggi (64.7%), keadaan kerja yang tidak kondusif (58.8%), masalah rasuah untuk mendapatkan pekerjaan (57.8%) dan peluang yang terhad untuk promosi dan kemajuan kerjaya (56.9%). Status demografi adalah berkait dengan faktor-faktor penarik dan penolak (p<0.05). 85.3% daripada jururawat berpendidikan luar negara yang mengambil bahagian dalam kajian ini menyatakan tahap kepuasan yang positif, terutamanya apabila mereka berkhidmat kepada yang sakit dan memerlukan bantuan (85.3%). Keputusan menunjukkan bahawa terdapat perbezaan siknifikan dalam kepuasan kerja jururawat berpendidikan luar negara yang berdaftar dan tidak berdaftar (p=0.04), jururawat yang beragama Hindu dan agama lain (p=0.03), jururawat dari negara India dan Filipina (p=0.02).

Majoriti jururawat berpendidikan luar negara adalah tidak berdaftar dengan Lembaga Jururawat Malaysia. Namun, kepuasan keseluruhan jururawat-jururawat ini adalah positive. Faktor penarik-penolak yang dikenalpasti dalam penyelidikan ini menunjukkan hubungan yang signifikan dengan status sosiodemografi, dan terdapat perbezaan signifikan antara status demografi, factor mempengaruhi migrasi dan kepuasan kerja antara jururawat berpendidikan luar negara. Ketua jururawat dan pembuat polisi di kedua-dua pintu masuk dan keluar dalam proses penghijrahan harus menggunakan penemuan kajian ini untuk membantu dalam pengurusan yang lebih berkesan terhadap cabaran-cabaran yang akan berbangkit dalam proses penghijrahan.

ACKNOWLEDGEMENTS

Nursing is a never-ending process. This postgraduate nursing program helps to broaden my mind as well as my view on nursing in future. Writing this study report is one of the challenges for me in this program. It realized me that develop new knowledge is very important to nurses, because nursing is not an individual field, but it is a teamwork. As such, I would like to take this opportunity to thank those who helped and gave support to me throughout the process of this project.

First of all, a thousand thanks go to my supervisor, Professor Dr. Soh Kim Lam and Pn. Salimah Binti Japar, co-supervisor for their time and effort. They gave me a lot of ideas and advice so that I am always in the right track throughout the whole process. Professor Dr. Soh and Pn Salimah not only take care of my academic progress, they also very concerned about me. I am very thankful to the concern that they had contributed to me.

Sincere thanks and appreciation to Nursing Board Malaysia, who provided data such as statistics and list of foreign-educated nurses who registered with the board in smoothen the process of data collection. In addition, my sincere appreciation to all participants for their kind cooperation throughout the process of data collection.

I would also like to send my appreciation to my family: my beloved husband and children, who always encourage me and give me support. Especially to my husband, who helped to take care of the children while I was busy in studying and writing this report.

Finally, I would like to express my sincere gratitude to my colleagues for their invaluable assistance and support to make my dream into reality.

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

Soh Kim Lam, PhD

Professor Faculty of Medicine and Health Sciences Universiti Putra Malaysia (Chairman)

Salimah Binti Japar, Mphil

Lecturer
Faculty of Medicine and Health Sciences
Universiti Putra Malaysia
(Member)

ZALILAH MOHD SHARIFF, PhD

Professor and Dean School of Graduate Studies Universiti Putra Malaysia

Date: 09 December 2021

Declaration by Members of Supervisory Committee

This is to confirm that:

- the research conducted and the writing of this thesis was under our supervision;
- supervision responsibilities as stated in the Universiti Putra Malaysia (Graduate Studies) Rules 2003 (Revision 2012-2013) are adhered to.

Signature: Name of Chairman	
of Supervisory	
Committee:	Professor Dr. Soh Kim Lam
Signature:	
Name of Member	
of Supervisory	
Committee:	Pn. Salimah Binti Japar

TABLE OF CONTENTS

ABSTRAC ABSTRAC ACKNOW APPROVA DECLARA LIST OF T LIST OF F	(LEDGE AL ATION ABLES	S	Page i iii v vi viii xiii xvi
CHAPTI	ER		
1	INTR 1.1 1.2 1.3 1.4 1.5 1.6	Background of the study Problem statement Research question Objectives of study Research hypothesis Definition of terms 1.6.1 Migration 1.6.2 Foreign educated nurses 1.6.3 Job satisfaction 1.6.4 Registered nurse 1.6.5 Workplace 1.6.6 Gender 1.6.7 Religion 1.6.8 Country of origin 1.6.9 Marital status 1.6.10 Education level 1.6.11 Push factors 1.6.12 Pull factors	1 1 4 5 5 5 6 6 6 6 7 7 7 7 7 8 8 8
		Summary	
2	2.1 2.2 2.3 2.4	RATURE REVIEW Introduction Data source and selection Migration of nurses Sociodemographic background of migrant	9 9 9 9 11
	2.5	nurses Factors affecting the migration of nurses – the pull and push factors	13
	2.6 2.7 2.8 2.9	Job satisfaction of migrant nurses Conceptual framework Theoretical framework Summary	16 19 19 21

3		ERIALS AND METHODS / HODOLOGY	22
	3.1 3.2 3.3 3.4	Introduction Background of the study area Research design Study population and sample 3.4.1 Inclusion criteria 3.4.2 Sample size	22 22 22 23 23 23
	3.5 3.6 3.7 3.8	3.4.3 Sampling method Instrumentation Reliability and validity of instrument Data collection process Preparation of data analysis	25 26 28 28 29
	3.9 3.10	Ethical considerations Summary	30 30
4	RESU	ULTS	31
	4.1	Introduction	31
	4.2 4.3	Participant demographics Factors affecting the foreign-educated	31 33
	4.4	nurses migrate to Malaysia Relationship between sociodemographic status and factors affecting migration of the	36
		foreign-educated nurses to Malaysia 4.4.1 Relationship between sociodemographic status and pull factors of migration	36
		4.4.2 Relationship between sociodemographic status and push factors of migration	71
	4.5	Job satisfaction level of foreign-educated nurses in Malaysia	98
	4.6	Difference between sociodemographic status and job satisfaction among the foreign-educated nurses in Malaysia	100
	4.7	Difference between factors affecting migration and job satisfaction among the foreign-educated nurses in Malaysia	103
	4.8	Summary	108
5	DISC	109	
	5.1	Introduction	109
	5.2	Sociodemographic of the foreign-educated nurses in Malaysia	109
	5.3	Factors affecting the foreign-educated nurses migration to Malaysia – the pull factors and their relationship with sociodemographic status	112

	5.4	Factors affecting the foreign-educated nurses migration to Malaysia – the push factors and their relationship with sociodemographic status	116
	5.5	Job satisfaction of foreign-educated nurses in Malaysia	118
	5.6	Sociodemographic status and job satisfaction of the foreign-educated nurses in Malaysia	121
	5.7	Factors affecting migration and job satisfaction of the foreign-educated nurses in Malaysia	122
	5.8	Summary	123
6	6.1 6.2	Introduction Conclusion Limitation Significant of the study Recommendation 6.5.1 Recommendation for policy maker and nurse managers 6.5.2 Recommendation for future study Summary	124 124 124 125 125 125 127 127
REFERENCE APPENDICE BIODATA OF PUBLICAT	ES OF STU	JDENT	128 137 144 145

LIST OF TABLES

Table		Page
4.1	Sociodemographic characteristics of the participants	32
4.2	Pull factors that affect the migration of foreign- educated nurses in Malaysia	34
4.3	Push factors that affect the migration of foreign- educated nurses in Malaysia	35
4.4.1	Sociodemographic status and pull factors of migration (factor 1 to 2)	39
4.4.2	Sociodemographic status and pull factors of migration (factor 3 to 4)	41
4.4.3	Sociodemographic status and pull factors of migration (factor 5 to 6)	43
4.4.4	Sociodemographic status and pull factors of migration (factor 7 to 8)	45
4.4.5	Sociodemographic status and pull factors of migration (factor 9 to 10)	47
4.4.6	Sociodemographic status and pull factors of migration (factor 11 to 12)	49
4.4.7	Sociodemographic status and pull factors of migration (factor 13 to 14)	51
4.5.1	Logistic regression predicting likelihood of migration due to pull factors based on sociodemographic status (factor 1 to 2)	55
4.5.2	Logistic regression predicting likelihood of migration due to pull factors based on sociodemographic status (factor 3 to 4)	57
4.5.3	Logistic regression predicting likelihood of migration due to pull factors based on sociodemographic status (factor 5 to 6)	59
4.5.4	Logistic regression predicting likelihood of migration due to pull factors based on sociodemographic status (factor 7 to 8)	61

4.5.5	Logistic regression predicting likelihood of migration due to pull factors based on sociodemographic status (factor 9 to 10)	63								
4.5.6	Logistic regression predicting likelihood of migration due to pull factors based on sociodemographic status (factor 11)									
4.6.1	Multinominal logistic regression between pull factors (family/relatives are here) and migration among the foreign-educated nurses in Malaysia	67								
4.6.2	Multinominal logistic regression between pull factors (geographical proximity) and migration among the foreign-educated nurses in Malaysia	68								
4.6.3	Multinominal logistic regression between pull factors (interested in country's culture) and migration among the foreign-educated nurses in Malaysia	68								
4.6.4	Multinominal logistic regression between pull factors (possibility to obtain citizenship) and migration among the foreign-educated nurses in Malaysia	69								
4.6.5	Multinominal logistic regression between pull factors (bring/petition family) and migration among the foreign-educated nurses in Malaysia	69								
4.6.6	Multinominal logistic regression between pull factors (obtain country's license) and migration among the foreign-educated nurses in Malaysia	70								
4.6.7	Multinominal logistic regression between pull factors (same religion) and migration among the foreign-educated nurses in Malaysia	70								
4.6.8	Multinominal logistic regression between pull factors (better day-to-day life) and migration among the foreign-educated nurses in Malaysia	71								
4.7.1	Sociodemographic status and push factors of migration (factor 1 to 2)	73								
4.7.2	Sociodemographic status and push factors of migration (factor 3 to 4)	75								
4.7.3	Sociodemographic status and push factors of migration (factor 5 to 6)	77								
4.7.4	Sociodemographic status and push factors of migration (factor 7 to 8)	79								

4.7.5	Sociodemographic status and push factors of migration (factor 9 to 10)	81
4.7.6	Sociodemographic status and push factors of migration (factor 11 to 12)	83
4.8.1	Logistic regression predicting likelihood of migration due to push factors based on sociodemographic status (factor 1 to 2)	87
4.8.2	Logistic regression predicting likelihood of migration due to push factors based on sociodemographic status (factor 3 to 4)	89
4.8.3	Logistic regression predicting likelihood of migration due to push factors based on sociodemographic status (factor 5 to 6)	91
4.8.4	Logistic regression predicting likelihood of migration due to push factors based on sociodemographic status (factor 7 to 8)	93
4.8.5	Logistic regression predicting likelihood of migration due to push factors based on sociodemographic status (factor 9 to 10)	95
4.9.1	Multinominal logistic regression between push factors (occupational hazards) and migration among the foreign-educated nurses in Malaysia	97
4.9.2	Multinominal logistic regression between push factors (inadequate facility) and migration among the foreign-educated nurses in Malaysia	98
4.10	Job satisfaction level of foreign-educated nurses in Malaysia	99
4.11	Areas of satisfaction or dissatisfaction among the foreign-educated nurses in Malaysia	99
4.12	Sociodemographic status and job satisfaction among the foreign-educated nurses in Malaysia	101
4.13	Pull factors and job satisfaction among the foreign- educated nurses in Malaysia	104
4.14	Push factors and job satisfaction among the foreign- educated nurses in Malaysia	106

LIST OF FIGURES

Figure		Page
1.1	Malaysian population by age group	2
1.2	Registered Nurse Workforce in Malaysia	3
2.1	Conceptual framework of the study	19
2.2	Theoretical framework of the study	19

CHAPTER 1

INTRODUCTION

1.1 Background of the study

In the era of the 21st century, medical technology is changing rapidly towards more advanced health care facilities. Consequently, the population's life span is increasing, and people are more demanding in high-quality care from health care professionals. Nursing service is an essential part of the health care system. The shortage of nurses has been a common issue in many countries worldwide (Matsuno, 2009). World Health Organization (2016) projected that there will be a shortage of 14 million healthcare workers in the year 2030 globally. To counteract the "crisis in the nursing workforce," many countries have developed few strategies, including recruiting foreign-educated nurses. As a result, global migration and international recruitment have become a trend in the nursing profession.

Nurse migration to Malaysia was once very active and was used by the government as one of the strategies to fill in the shortages of nurses in the country. In year 2006, it was reported that the nurse to population ratio was 1 in 559, far from the recommendation nurse to population ratio of 1 in 200 by the World Health Organization (Malaysian Nursing Board, 2018a). The reasons behind this phenomenon are mainly due to the increase of the ageing population in the country. According to the Department of Statistics Malaysia (2018), 6.5 percent (2.10 million) of the total population in Malaysia are senior citizens with the age of 65 years and above (Figure 1). The senior citizen population is expected to be increased by the year 2030 (Barnett et al., 2010). On top of the increase of local senior citizens in the country, the government also introduced the "Malaysia, My Second Home Program (MM2H) in the year 2001 further encouraged foreign people older than 50 years old to live in Malaysia on a long-term basis (Matsuno, 2009). It has attracted 10,227 foreigners from various countries, including the United States, Europe, Africa, and Asia, who migrated to Malaysia from 2002 to 2007 (Ministry of Tourism and Culture Malaysia, 2013). This has further added to the number of senior citizens population in Malaysia.

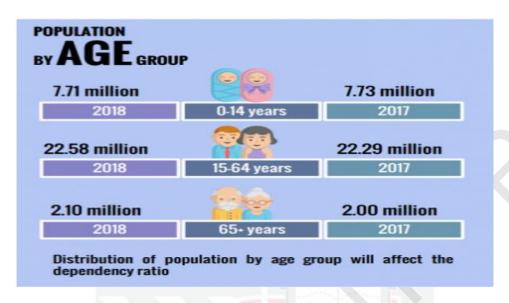


Figure 1.1: Malaysian Population by Age Group (Source: Department of Statistics Malaysia, 2018)

At the same time, many Malaysian nurses do follow the trend of migration to work abroad despite a shortage of nurses in the country (Matsuno, 2009). Ministry of Higher Education Malaysia (2010) reported that the minister was not aware that a government hospital did not hire some graduates of public universities. Hence, these graduates were looking at other places such as the private sector and foreign countries. It was also reported that a private organization in Singapore recruited many degree holder Malaysia nurses to serve in Singapore hospitals (Ministry of Higher Education Malaysia, 2010). This has again contributed to the shortfall of nurses in Malaysia.

In confronting with the issue of shortage of nurses in the country, a Nursing Mutual Recognition Arrangement (MRA) was signed with the Association of Southeast Asian Nation (ASEAN) countries: Brunei, Cambodia, Indonesia, Lao PDR, Myanmar, Philippines, Singapore, Thailand, and Vietnam in 2006 (Malaysian Nursing Board, 2020). This arrangement helped to facilitate the mobility of nurses within ASEAN, especially in promoting the adoption of best practices for professional nursing services (Malaysian Nursing Board, 2020). Ever since after the MRA, the recruitment of foreign-educated nurses has become very active. The number of foreign-educated nurses who were newly registered rose from 740 in 2006 to 1317 in 2010 (Malaysian Nursing Board, 2018a). Figure 2 shows the registered nurse workforce in Malaysia.

Item	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018
Local Nurses¹ (accumulative)	42836	47428	52207	63309	65905	75455	87476	90722	92131	99986	102542	128591	132902
Foreign ASEAN Nurses													
Brunei	-	1	-	-	-	-		-	-	-			
Cambodia					-		_		-		-	-:-	- :
Indonesia	6	42	26	55	64	61	28	7	5	4	1	1	- :
Lao PDR		-	-	-	-		-	-	-	-		-	
Thailand	-									1			
Vietnam	3	4	1	3	4	2	3	3	2	1	-	1	-
Myanmar	58	75	77	91	70	75	30	12	3	2	-	1	-
Philippines	18	40	107	135	97	69	49	26	16	15	2	8	9
Singapore	1	2	1	2	2	2	2	2	2	2	1	3	3
Foreign Non-ASEAN Nurses ² (newly Registered)	654	692	840	1031	774	645	386	109	50	51	7	7	7
Total Registered Nurse Workforce ³	43576	48284	53259	64626	66916	76309	87974	90881	92209	100062	102564	106289	106373
Nurse to Population Ratio ⁴	1:559	1:556	1:512	1:477	1:410	1:387	1:345	1:333	1:325	1:305	1:309	1:302	1:304

Note: Data for Foreign Nurse should be only newly registered data for the particular year (accumulative between 1 Jan – 31 Dec). Registered Nurses are not necessarily the same as practising nurses.

Figure 1.2: Registered Nurse Workforce in Malaysia

(Source: Malaysian Nursing Board, 2018a)

Besides recruiting qualified foreign professionals, Malaysia also tried to strengthen the national nursing workforce by increasing the number of locally educated nurses from the year 2005 to 2010 (Pillay, 2017). The government vigorously promoted nursing education, resulting in a proliferation of private nursing schools that annually produced up to 10,000 graduates (Goh, 2017). Consequently, there was a significant increase in the number of nurses in Malaysia in the early 2010s (World Health Organization, 2014). As the number of local nurses increased, the number of foreign-educated nurses who were newly registered with the Nursing Board gradually reduced from 1317 in 2010 to only 19 in 2018 (Figure 2) (Malaysian Nursing Board, 2018a). However, this figure is likely to be underestimated. According to Fukunaga (2015) in his report in assessing the progress of ASEAN MRAs, 150 to 200 nurses were migrated to Malaysia from Myanmar. Furthermore, assistant director nursing from the Malaysian Nursing Board had recently confirmed during an interview that a large number of foreigneducated nurses who are not required to register with the board as they are working in clinics, nursing homes and private homes (R. Bujang, personal communication, March 7, 2019). This information is congruent with the report by Loh et al. (2019) in World Bank, where there are seven irregular foreign workers for every ten regular foreign workers currently working in Malaysia. It is difficult to determine the undocumented foreign worker such as the foreign nurses' population in Malaysia as they are not registered with authorities. Hence, their entry and exit in the labor market will not be recorded (Lee & Khor, 2018). In this sense, this study provides new insights on the migration among the foreigneducated nurses and their population in Malaysia.

1.2 Problem statement

Labor migration is a voluntary act, and there must be compelling reasons for people to decide to work abroad. The "pull" and "push" factors are one way of understanding migration. Pull factors such as higher wages, high employment opportunities, better facilities, higher living standards, and so on in the destination country motivate the foreign-educated nurses to migrate (Kingma, 2007). Likewise, lower wages, poor working conditions, and so on are considered as the common "push factors" that cause the foreign-educated nurses to leave their country (Kingma, 2007). Pull and push factors are paired, and Rajan et al. (2017) described it as "they are two sides of the same coin" (p. 114). Exploring the pull-push factors among Malaysia's foreign-educated nurses and analyzing their impact on migration decisions is a crucial step toward understanding the migration issues and policymaking (Oda et al., 2018).

Migration to work abroad can be challenging for foreign-educated nurses. Many foreign-educated nurses face difficulties adapting to their new working environment (Li et al., 2014). Leaving their families behind to work in a new country, adjusting to new relationships with work colleagues, and facing patients with multi-cultural backgrounds can be very stressful to foreign-educated nurses (Li et al., 2014). This may lead to feelings of isolation, loneliness, difficulty coping, frustration, uncertainty, and a lack of self-confidence and self-esteem during the transition process, impacting their work satisfaction (Li et al., 2014). Ahmad and Oranye (2010), in their study on job satisfaction and organizational commitment, reported that higher job satisfaction would lead to more organizational commitment among the nurses. It will help to ensure the nurses are dedicated to their job and provide the best services to the clients, regardless of whether they are in hospitals, clinics, nursing, or private homes.

Likewise, frustration and job dissatisfaction among foreign-educated nurses may lead to many problems such as absenteeism, tardiness, and turnover (Cheng & Liou, 2011). Additionally, emotional stress and burnout will result in staff conflict, decreased productivity, and substandard and compromised patient care (Al-Turki et al., 2010). This will affect the health of Malaysian patients, particularly elderly patients who may develop complications such as pressure sores or aspirated pneumonia if these migrant nurses do not provide standard care. Worse yet, these migrant nurses may engage in unhealthy and unethical behaviors such as fighting and drinking, contributing to the country's social problems (Leh et al., 2017). Hence, a clear understanding of the job satisfaction among the foreign-educated nurses in Malaysia is also critical as it influences the effective translation of nursing practice across cultures and health systems.

Many studies on migration of foreign nurses, such as the current situation of foreign nurses, issues, and job satisfaction, have been done mainly in the United States, the United Kingdom, Canada, India, and the Philippines (Dywili et al., 2013; Lorenzo et al., 2007; Newton et al., 2012; Oda et al., 2018; Salami et al., 2014). But this topic is scarcely explored in Malaysia. Exploring the current situation of

foreign-educated nurses working in Malaysia, addressing their issues and challenges will help guide professionals and policy makers to be more effective in improving working conditions of the foreign-educated nurses, human resource development, and management in the health sector in Malaysia. Therefore, this study aims to examine the migration of foreign-educated nurses in Malaysia, including factors affecting them to migrate to Malaysia and their job satisfaction when working in Malaysia.

1.3 Research question

- What is the sociodemographic status of the foreign-educated nurses in Malaysia?
- 2. What are the factors affecting the foreign-educated nurses who migrate to Malaysia?
- 3. Is there a relationship between sociodemographic status and factors affecting the migration of foreign-educated nurses to Malaysia?
- 4. What is the job satisfaction level of foreign-educated nurses in Malaysia?
- 5. Is there any difference between the sociodemographic status and job satisfaction among the foreign-educated nurses in Malaysia?
- 6. Is there any difference between factors affecting migration and job satisfaction among the foreign-educated nurses in Malaysia?

1.4 Objectives of Study

General objectives

To study the migration and job satisfaction of the foreign-educated nurses in Malaysia.

Specific objectives

- To describe the sociodemographic status of the foreign-educated nurses in Malaysia.
- 2. To describe the factors affecting the foreign-educated nurses migrate to Malaysia.
- 3. To examine the relationship between sociodemographic status and factors affecting the migration of foreign-educated nurses to Malaysia.
- 4. To identify the job satisfaction level of foreign-educated nurses in Malaysia.
- 5. To examine the difference between sociodemographic status and job satisfaction among the foreign-educated nurses in Malaysia.
- 6. To examine the difference between factors affecting migration and job satisfaction among foreign-educated nurses in Malaysia.

1.5 Research hypothesis

- 1. There is no relationship between sociodemographic status and factors affecting the migration of the foreign-educated nurses to Malaysia (null hypothesis).
- There is no difference between sociodemographic status and job satisfaction among the foreign-educated nurses in Malaysia (null hypothesis).
- 3. There is no difference between factors affecting migration and job satisfaction among the foreign-educated nurses in Malaysia (null hypothesis).

1.6 Definition of terms

1.6.1 Migration

Movement of people to a new area or country in order to find work or better living conditions (Oxford Living Dictionary, 2019g). Nurses who are moving from other countries to Malaysia to find work.

1.6.2 Foreign-educated nurse

Nurses who were born, raised, educated and obtained nursing license in another country (Viken et al., 2018). Nurses who were born, raised, educated and obtained nursing license in another country and are currently work as a nurse or any related healthcare occupations in private sector in Malaysia will be considered as foreigneducated nurse.

1.6.3 Job satisfaction

A feeling of fulfilment or enjoyment that a person derives from their job (Oxford Living Dictionary, 2019e). Job satisfaction among the foreign-educated nurses refers to the feeling of fulfilment or enjoyment that the nurses derive from their job in Malaysia.

1.6.4 Registered nurse

A graduate trained nurse who has been licensed by a state authority after qualifying for registration (Merriam-Webster Dictionary, 2019b). The nurse who are registered with their home country and can be with or without registering with Malaysia Nursing Board.

1.6.5 Workplace

A place where people work, such as an office or factory (Oxford Living Dictionary, 2019i). A place where foreign-educated nurses work which include hospitals, clinics, nursing homes, rehabilitation hospitals and others such as home of the patient as private nurse.

1.6.6 Gender

Either of the two sexes (male and female), especially when considered with reference to social and cultural differences rather than biological ones (Oxford Living Dictionary, 2019d).

1.6.7 Religion

The belief in and worship of a superhuman controlling power, especially a personal God or gods (Oxford Living Dictionary, 2019h). Religion that include in this study are Hindu, Christian, Muslim and others that allow the foreign-educated nurses to specify.

1.6.8 Country of origin

The country where something or someone comes from (Merriam-Webster Dictionary, 2019a). Country of origin in study refers to the country that the foreign-educated nurses come from.

1.6.9 Marital status

One's situation with regard to whether one is single, married, separated, divorced, or widowed (Oxford Living Dictionary, 2019f). Situation of a foreign-educated nurses with regard to whether he / she is single, married, separated, divorced or widowed.

1.6.10 Education level

The process of receiving or giving systematic instruction, especially at a school or university (Oxford Living Dictionary, 2019c). Stages of the process of receiving systematic instruction, including from below primary to graduate and above.

1.6.11 Push factors

Favorable and unfavorable conditions or forces people out from one country (Geun et al., 2018).

Favorable and unfavorable conditions that forces foreign-educated nurses to move out from their country to work in Malaysia. Those conditions / factors are such as dealing with patients, occupational hazards, limited opportunities for career advancement, high ration of patients to nurses, salary, corruption in promotion, inadequate facilities, poor working conditions, poor relationships with colleagues and superiors, lack of competencies and discrimination by patients and management.

1.6.12 Pull factors

Conditions that attracted the people to the country (Geun et al., 2018).

Conditions that attract the foreign-educated nurses to migrate and work in Malaysia. These conditions are such as family live in Malaysia, high level of nursing skills and technology, higher salary and benefits, geographical proximity, interested in country's culture, can obtain citizenship, can bring family, can speak the local language, possibility to obtain the country's nursing license, same religion, low recruitment and processing fee, self-respect or dignity, better children's education or future, better quality of day-to-day life.

1.7 Summary

The population of foreign-educated nurses currently working in Malaysia could be underestimated. Many of them work in clinics, nursing homes, and private homes and are not required to register with the Malaysia Nursing Board. Exploring the current situation of foreign-educated nurses working in Malaysia, addressing their issues and challenges will help guide professionals and policy makers to be more effective in improving working conditions of the foreign-educated nurses, human resource development, and management in the management of the health sector in Malaysia. Therefore, this study aims to explore the migration of foreign-educated nurses in Malaysia, including factors affecting them to migrate to Malaysia and their job satisfaction when working in Malaysia. Literature review in chapter 2 explores the current trend in migration of nurses, the sociodemographic of the migrant nurses, factors influencing the migration, and job satisfaction in the migrant country.

REFERENCES

- Aboshaiqah, A. (2016). Strategies to address the nursing shortage in Saudi Arabia. *International Nursing Review*, 63(3), 499–506. https://doi.org/10.1111/inr.12271
- Ahmad, N., & Oranye, N. O. (2010). Empowerment, job satisfaction and organizational commitment: A comparative analysis of nurses working in Malaysia and England. *Journal of Nursing Management*, *18*(5), 582–591. https://doi.org/10.1111/j.1365-2834.2010.01093.x
- Al-Turki, H. A., Al-Turki, R. A., Al-Dardas, H. A., Al-Gazal, M. R., Al-Maghrabi, G. H., Al-Enizi, N. H., & Ghareeb, B. A. (2010). Burnout syndrome among multinational nurses working in Saudi Arabia. *Annals of African Medicine*, 9(4), 226–229. https://doi.org/10.4103/1596-3519.70960
- An, J. Y., Cha, S., Moon, H., Ruggiero, J. S., & Jang, H. (2016). Factors Affecting Job Satisfaction of Immigrant Korean Nurses. *Journal of Transcultural Nursing*, 27(2), 126–135. https://doi.org/10.1177/1043659614539175
- Barnett, T., Namasivayam, P., & Narudin, D. A. (2010). A critical review of the nursing shortage in Malaysia. *International Nursing Review*, *57*(1), 32–39. https://doi.org/10.1111/j.1466-7657.2009.00784.x
- Bhandari, T. K. K., Xiao, L. D., & Belan, I. (2015). Job satisfaction of overseas-qualified nurses working in Australian hospitals. *International Nursing Review*, 62(1), 64–74. https://doi.org/10.1111/inr.12146
- Bhaumik, S. (2013). Can India end the corruption in nurses' training? *BMJ* (Online), 347(November), 18–21. https://doi.org/10.1136/bmj.f6881
- Blythe, J., & Baumann, A. (2009). Internationally educated nurses: Profiling workforce diversity. *International Nursing Review*, *56*(2), 191–197. http://ovidsp.ovid.com/ovidweb.cgi?T=JS&PAGE=reference&D=emed9&NE WS=N&AN=19646168
- Bruyneel, L., Li, B., Aiken, L., Lesaffre, E., Van den Heede, K., & Sermeus, W. (2013). A multi-country perspective on nurses' tasks below their skill level: Reports from domestically trained nurses and foreign trained nurses from developing countries. *International Journal of Nursing Studies*, 50(2), 202–209. https://doi.org/10.1016/j.ijnurstu.2012.06.013
- Buchan, J., Parkin, T., & Sochalski, J. (2003). International nurse mobility: Trends and policy implications. http://apps.who.int/iris/bitstream/10665/68061/1/WHO_EIP_OSD_2003.3.p df
- Burki, S. J., & Ziring, L. (2019). *Pakistan*. Encyclopædia Britannica, Inc. https://www.britannica.com/place/Pakistan/Religion

- Carlos, M. R. D. (2018). Philippine-educated nurses in Southeast Asian destinations: The case of Singapore and Thailand. In Y. Tsujita (Ed.), *Human Resource Development , Employment and Mobility of Healthcare Professionals in South East Asia: The Case of Nurses* (Issue 22, pp. 40–63). IDE-JETRO. https://www.ide.go.jp/library/English/Publish/Download/Brc/pdf/22_00.pdf
- Cheng, C. Y., & Liou, S. R. (2011). Intention to leave of Asian nurses in US hospitals: Does cultural orientation matter? *Journal of Clinical Nursing*, 20(13–14), 2033–2042. https://doi.org/10.1111/j.1365-2702.2010.03594.x
- Chong, M. C., Francis, K., Cooper, S., Abdullah, K. L., Nant Thin Thin, H., & Sohod, S. (2016). Access to, interest in and attitude toward e-learning for continuous education among Malaysian nurses. https://doi.org/10.1016/j.nedt.2015.09.011
- de Castro, A. B., Cabrera, S. L., Gee, G. C., Fujishiro, K., & Tagalog, E. A. (2009).

 Occupational health and safety issues among nurses in the Philippines.

 AAOHN Journal: Official Journal of the American Association of Occupational Health Nurses, 57(4), 149–157.

 https://doi.org/10.3928/08910162-20090401-04
- Department of Statistic Malaysia. (2015). Population distribution and basic demographic characteristic report. https://www.dosm.gov.my/v1/index.php?r=column/ctheme&menu_id=L0ph eU43NWJwRWVSZklWdzQ4TlhUUT09&bul_id=MDMxdHZjWTk1SjFzTzNk RXYzcVZjdz09
- Department of Statistics Malaysia. (2018). Selected Demographic Indicators Malaysia, 2018. https://www.dosm.gov.my/v1/index.php?r=column/cthemeByCat&cat=397&bul_id=RmsrQVZMVEh1SDR3Yng0cFRXNkxPdz09&menu_id=L0pheU43NWJwRWVSZkIWdzQ4TlhUUT09
- Dywili, S., Bonner, A., & O'Brien, L. (2013). Why do nurses migrate? A review of recent literature. *Journal of Nursing Management*, 21(3), 511–520. https://doi.org/10.1111/j.1365-2834.2011.01318.x
- Faller, E. M., Bin Miskam, N., & Pereira, A. (2018). Exploratory study on occupational health hazards among health care workers in the Philippines. *Annals of Global Health*, *84*(3), 338–341. https://doi.org/10.29024/aogh.2316
- Field, A. (2015). Discovering Statistics Using IBM SPSS Statistics (4th ed.). SAGE Publications.
- Freeman, M., Baumann, A., Blythe, J., Fisher, A., & Akhtar-Danesh, N. (2012). Migration: A concept analysis from a nursing perspective. *Journal of Advanced Nursing*, 68(5), 1176–1186. https://doi.org/10.1111/j.1365-2648.2011.05858.x

- Garner, S. L., Conroy, S. F., & Bader, S. G. (2015). Nurse migration from India: A literature review. *International Journal of Nursing Studies*, *52*(12), 1879–1890. https://doi.org/10.1016/j.ijnurstu.2015.07.003
- Geun, H. G., Redman, R. W., & McCullagh, M. C. (2016). Turnover and associated factors in Asian foreign-educated nurses. *The Journal of Nursing Administration*, 46(5), 271–277. https://doi.org/10.1097/NNA.000000000000342
- Geun, H. G., Redman, R. W., & McCullagh, M. C. (2018). Predictors of turnover among asian foreign-educated nurses in their 1st year of US employment. *Journal of Nursing Administration*, 48(10), 519–525. https://doi.org/10.1097/NNA.0000000000000660
- Goh, J. M. (2017). *Malaysia to face a nursing shortage by 2020*. MIMS Today. https://today.mims.com/malaysia-to-face-a-nursing-shortage-by-2020
- Goh, Y.-S., & Lopez, V. (2016). Job satisfaction, work environment and intention to leave among migrant nurses working in a publicly funded tertiary hospital. *Journal of Nursing Management*, 24(7), 893–901. https://doi.org/10.1111/jonm.12395
- Hawthorne, L. (2001). The globalisation of the nursing workforce: Barriers confronting overseas qualified nurses in Australia. *Nursing Inquiry*, 8(4), 213–229. https://doi.org/10.1046/j.1320-7881.2001.00115.x
- Hayne, A. N., Gerhardt, C., & Davis, J. (2009). Filipino Nurses in the United States. *Journal of Transcultural Nursing*, 20(3), 313–322. https://doi.org/10.1177/1043659609334927
- Herzberg, F. (1966). Work and the nature of man. The World Publishing.
- Itzhaki, M., Ea, E., Ehrenfeld, M., & Fitzpatrick, J. J. (2013). Job satisfaction among immigrant nurses in Israel and the United States of America. *International Nursing Review*, 60(1), 122–128. https://doi.org/10.1111/j.1466-7657.2012.01035.x
- Jabatan Kebajikan Masyarakat. (2015). *Laporan statistik jabatan kebajikan masyarakat 2015*. http://www.jkm.gov.my/jkm/uploads/files/penerbitan/Buku JKM 2015•Final.pdf
- Jose, M. M. (2011). Lived experiences of internationally educated nurses in hospitals in the {United} {States} of {America}. *International Nursing Review*, 58(1), 123--129 7p. https://doi.org/10.1111/j.1466-7657.2010.00838.x
- Kingma, M. (2007). Nurses on the move: A global overview. *Health Services Research*, *42*(3 II), 1281–1298. https://doi.org/10.1111/j.1475-6773.2007.00711.x

- Kline, D. S. (2003). Push and Pull Factors in International Nurse Migration. *Journal of Nursing Scholarship*, 35(2), 107–111. https://doi.org/10.1111/j.1547-5069.2003.00107.x
- Labrague, L. J., Gloe, D., Mcenroe, D. M., Konstantinos, K., & Colet, P. (2018). Factors in fluencing turnover intention among registered nurses in Samar Philippines. *Applied Nursing Research*, 39(March 2017), 200–206. https://doi.org/10.1016/j.apnr.2017.11.027
- Lee, H.-A., & Khor, Y. L. (2018). Counting Migrant Workers in Malaysia: A Needlessly Persisting Conundrum. *ISEAS Perspective*, 25, 1–11. https://www.iseas.edu.sg/images/pdf/ISEAS_Perspective_2018_25@50.pd f
- Leh, O. L. H., Rosli M, N. N. F., Marhalim, F. A., & Musthafa M, S. N. A. (2017). Social impact of foreign immigrants in affordable housing area. Case study: Mentari Court, Selangor, Malaysia. *Journal of the Malaysian Institute of Planner*, 15(2), 37–50. https://doi.org/10.21837/pmjournal.v16.i6.266
- Li, H., Nie, W., & Li, J. (2014). The benefits and caveats of international nurse migration. *International Journal of Nursing Sciences*, 1(3), 314–317. https://doi.org/10.1016/j.ijnss.2014.07.006
- Liou, S., & Grobe, S. J. (2008). Perception of Practice. *Journal for Nurses In Staff Development*, 24(6), 276–282.
- Loh, F. F. (2013, December 16). Ministry says no to new dialysis centres. *The Star Online*. https://www.thestar.com.my/news/nation/2013/12/16/ministry-says-no-to-new-dialysis-centres-234-unlicensed-places-shut-down-nationwide-after-failing-to/
- Loh, W. S., Simler, K., Tan Wei, K., & Yi, S. (2019). *Malaysia: Estimating the Number of Foreign Workers*. http://documents1.worldbank.org/curated/en/953091562223517841/pdf/Malaysia-Estimating-the-Number-of-Foreign-Workers-A-Report-from-the-Labor-Market-Data-for-Monetary-Policy-Task.pdf
- Lorenzo, F. M. E., Galvez-Tan, J., Icamina, K., & Javier, L. (2007). Nurse migration from a source country perspective: Philippine country case study. *Health Services Research*, *42*(3 II), 1406–1418. https://doi.org/10.1111/j.1475-6773.2007.00716.x
- Ma, A. X., Quinn Griffin, M. T., Capitulo, K. L., & Fitzpatrick, J. J. (2010). Demands of immigration among Chinese immigrant nurses. *International Journal of Nursing Practice*, 16(5), 443–453. https://doi.org/10.1111/j.1440-172X.2010.01868.x
- Malaysian Nursing Board. (2018a). *ASEAN registered nurse workforce*. http://nursing.moh.gov.my/wp-content/uploads/2020/02/ASEAN-Registered-Nurse-Workforce-2006-2018-17022020.pdf

- Malaysian Nursing Board. (2018b). Employment criteria for foreign trained nurses in 2018. http://nursing.moh.gov.my/wp-content/uploads/2019/04/Employment-Criteria-for-Foreign-Trained-Nurses-in-Malaysia-26042019.pdf
- Malaysian Nursing Board. (2020). Association of Southeast Asian Nations. Officall Portal of Nursing Division Ministry of Health Malaysia. http://nursing.moh.gov.my/asean/
- Malaysian Productivity Corporation. (2014). Reducing Unnecessary Regulatory Burdens on Business: Private Hospitals. *Perbadanan Produktiviti Malaysia*, 93(August), 1–154.
- Marcus, K., Quimson, G., & Short, S. D. (2014). Source country perceptions, experiences, and recommendations regarding health workforce migration: A case study from the Philippines. *Human Resources for Health*, 12(1), 1–10. https://doi.org/10.1186/1478-4491-12-62
- Matsuno, A. (2009). Nurse Migration: The Asian Perspective. *ILO/EU Asia Programme on the Governance of Labour Migration Technical Note*. https://www.ilo.org/asia/publications/WCMS_160629/lang--en/index.htm
- Merriam-Webster Dictionary. (2019a). Country Of Origin | Definition of Country Of Origin | Definition Origin | Definition Origin | Definition
- Merriam-Webster Dictionary. (2019b). Registered Nurse | Definition of Registered Nurse | Definition of Registered Nurse | Merriam-Webster. https://www.merriam-webster.com/dictionary/registered nurse
- Ministry of Higher Education Malaysia. (2010). Development of Nursing Education in Malaysia Towards the Year 2020. University Publication Centre (UPENA).
- Ministry of Tourism and Culture Malaysia. (2013). *Programme Statistics MM2H Official Portal*. http://mm2h.gov.my/index.php/en/home/programme/statistics
- Moazam, F., & Shekhani, S. (2018). Why women go to medical college but fail to practise medicine: perspectives from the Islamic Republic of Pakistan. *Medical Education*, *5*2(7), 705–715. https://doi.org/10.1111/medu.13545
- Mullins, L. J., & Christy, G. (2013). *Management and Organisational Behaviour* (10th ed.). Pearson.
- Nair, S. (2012). Moving with the Times: Gender, Status and Migration of Nurses in India. Routledge.
- Newton, S., Pillay, J., & Higginbottom, G. (2012). The migration and transitioning experiences of internationally educated nurses: A global perspective. *Journal of Nursing Management*, 20(4), 534–550. https://doi.org/10.1111/j.1365-2834.2011.01222.x

- Occupational Safety and Health Center. (2015). 2015 Annual Report. In Occupational Safety and Health Center. http://www.oshc.dole.gov.ph/images/Files/GCG/2015ANNUALREPORT.pdf
- Oda, H. (2018). An analysis of Indian nurses' intention to migrate abroad. In Y. Tsujita (Ed.), Human Resource Development, Employment and Mobility of Healthcare Professionals in South East Asia: The Case of Nurses (pp. 23–40). hhttps://www.ide.go.jp/library/Japanese/Publish/Download/Report/2017/pdf/2017_2_40_007_ch02.pdf
- Oda, H., Rajan, I. S., & Tsujita, Y. (2016). *A preliminary working draft on migration of nurses: The case of Kerala, India*. https://www.ide.go.jp/English/Publish/Download/Report/2015/2015_B111.ht ml
- Oda, H., Tsujita, Y., & Rajan, I. S. (2018). An analysis of factors influencing the international migration of Indian nurses. *Journal of International Migration and Integration*, 19(3), 607–624. https://doi.org/10.1007/s12134-018-0548-2
- Osman, M. (2018). Sample Size Part 2 [University Putra Malaysia]. http://learninghub.upm.edu.my/blastdk/
- Oxford Living Dictionary. (2019a). advancement | Definition of advancement in English by Oxford Dictionaries. https://en.oxforddictionaries.com/definition/advancement
- Oxford Living Dictionary. (2019b). career | Definition of career in English by Oxford Dictionaries. Oxford Living Dictionary. https://en.oxforddictionaries.com/definition/career
- Oxford Living Dictionary. (2019c). education | Definition of education in English by Oxford Dictionaries. https://en.oxforddictionaries.com/definition/education
- Oxford Living Dictionary. (2019d). *gender | Definition of gender in English by Oxford Dictionaries*. https://en.oxforddictionaries.com/definition/gender
- Oxford Living Dictionary. (2019e). job satisfaction | Definition of job satisfaction in English by Oxford Dictionaries. https://en.oxforddictionaries.com/definition/job_satisfaction
- Oxford Living Dictionary. (2019f). marital status | Definition of marital status in English by Oxford Dictionaries. https://en.oxforddictionaries.com/definition/marital_status
- Oxford Living Dictionary. (2019g). *migration* | *Definition of migration in English by Oxford Dictionaries*. https://en.oxforddictionaries.com/definition/migration
- Oxford Living Dictionary. (2019h). religion | Definition of religion in English by Oxford Dictionaries. https://en.oxforddictionaries.com/definition/religion

- Oxford Living Dictionary. (2019i). workplace | Definition of workplace in English by Oxford Dictionaries. https://en.oxforddictionaries.com/definition/workplace
- Palese, A., Cristea, E., Mesaglio, M., & Stempovscaia, E. (2010). Italian-Moldovan international nurse migration: rendering visible the loss of human capital. *International Nursing Review*, *57*(1), 64–69. https://doi.org/10.1111/j.1466-7657.2009.00785.x
- Pillay, S. (2017, January 1). Will Malaysia face a shortage of nurses by 2020? *New Straits Times*. https://www.nst.com.my/news/2017/01/201014/will-malaysia-face-shortage-nurses-2020
- Polit, D. F., & Beck, C. T. (2018). Essentials of Nursing Research: Appraising Evidence for Nursing Practice (9th ed.). Lippincott Williams & Wilkins.
- Polsky, D., Ross, S. J., Brush, B. L., & Sochalski, J. (2007). Trends in characteristics and country of origin among foreign-trained nurses in the United States, 1990 and 2000. *American Journal of Public Health*, *97*(5), 895–899. https://doi.org/10.2105/AJPH.2005.072330
- Prescott, M., & Nichter, M. (2014). Transnational nurse migration: Future directions for medical anthropological research. *Social Science and Medicine*, 107, 113–123. https://doi.org/10.1016/j.socscimed.2014.02.026
- Primeau, M. D., St-Pierre, I., Ortmann, J., Kilpatrick, K., & Covell, C. L. (2021). Correlates of career satisfaction in internationally educated nurses: A cross-sectional survey-based study. *International Journal of Nursing Studies*, 117, 103899. https://doi.org/10.1016/j.ijnurstu.2021.103899
- Rajan, I. S., Oda, H., & Tsujita, Y. (2017). Education and migration of nurses: The case of India. In Y. Tsujita (Ed.), *Human Resource Development and the Mobility of Skilled Labour in Southeast Asia: The Case for Nurses* (Issue 19, pp. 97–139). http://www.ide.go.jp/library/English/Publish/Download/Brc/pdf/19.pdf
- Rajendra, E. (2007, July 20). History of Malaysian Indian migrants in the 1800s to be published soon. *The Star Online*. https://www.thestar.com.my/news/community/2007/07/20/history-of-malaysian-indian-migrants-in-the-1800s-to-be-published-soon
- Ross, S. J., Polsky, D., & Sochalski, J. (2005). Nursing shortages and international nurse migration. *International Nursing Review*, *52*(4), 253–262. https://doi.org/10.1111/j.1466-7657.2005.00430.x
- Salami, B., Nelson, S., Hawthorne, L., Muntaner, C., & Mcgillis Hall, L. (2014). Motivations of nurses who migrate to Canada as domestic workers. *International Nursing Review*, 61(4), 479–486. https://doi.org/10.1111/inr.12125
- Schaeffer, R. L., Mendenhall, W., & Ott, L. (1990). *Elementary Survey Sampling* (4th ed.). Duxbury Press.

- SIRIM Berhad. (n.d.). *Medical technology: Innovative technologies for the healthcare industry*. Retrieved October 26, 2019, from http://www.marcusgomez.com/samples/medical-technology.pdf
- Sochan, A., & Singh, M. D. (2007). Acculturation and socialization: voices of internationally educated nurses in Ontario. *International Nursing Review*, *54*, 130–136.
- Staempfli, S., & Lamarche, K. (2020). Top ten: A model of dominating factors influencing job satisfaction of emergency nurses. *International Emergency Nursing*, 49(November 2019). https://doi.org/10.1016/j.ienj.2019.100814
- Takeno, Yu. (2010). Facilitating the transition of Asian nurses to work in Australia. In *Journal of Nursing Management* (Vol. 18, Issue 2, pp. 215–224). https://doi.org/10.1111/j.1365-2834.2009.01041.x
- Thomas, P. (2006). The international migration of Indian nurses. *International Nursing Review*, 53(4), 277–283. https://doi.org/10.1111/j.1466-7657.2006.00494.x
- Timmons, S., Evans, C., & Nair, S. (2016). The development of the nursing profession in a globalised context: A qualitative case study in Kerala, India. Social Science and Medicine, 166, 41–48. https://doi.org/10.1016/j.socscimed.2016.08.012
- Troy, P. H., Wyness, L. A., & McAuliffe, E. (2007). Nurses' experiences of recruitment and migration from developing countries: A phenomenological approach. *Human Resources for Health*, *5*, 1–7. https://doi.org/10.1186/1478-4491-5-15
- Tsujita, Y. (2017). Human resource development and the mobility of skilled labour in Southeast Asia: The case for nurses. https://www.ide.go.jp/English/Publish/Download/Brc/19.html
- Tsujita, Y. (2018). Human resource development, employment and the mobility of healthcare professionals in South East Asia: The case of nurses. https://www.ide.go.jp/English/Publish/Download/Brc/22.html
- Vafeas, C., & Hendricks, J. (2018). A heuristic study of UK nurses' migration to WA: Living the dream downunder. *Collegian*, 25(1), 89–95. https://doi.org/10.1016/j.colegn.2017.04.001
- Varun, G., Kumar, D., & Raghavendra, Lingaiah Sarman, S. (2017). Occurrence of Needlestick and Injuries among Health-care Workers of a Tertiary Care Teaching Hospital in North India. Journal of Laboratory Physicians. https://doi.org/10.4103/0974-2727.187917
- Viken, B., Solum, E. M., & Lyberg, A. (2018). Foreign educated nurses' work experiences and patient safety-A systematic review of qualitative studies. *Nursing Open*, *5*(4), 455–468. https://doi.org/10.1002/nop2.146

- Walton-Roberts, M. (2012). Contextualizing the global nursing care chain: international migration and the status of nursing in Kerala, India. *Global Networks*, 12(2), 175–194. https://doi.org/10.1111/J.1471-0374.2012.00346.X
- Walton-Roberts, M., Bhutani, S., & Kaur, A. (2017). Care and Global Migration in the Nursing Profession: a north Indian perspective. *Australian Geographer*. https://doi.org/10.1080/00049182.2016.1266633
- Walton-Roberts, M., Runnels, V., Rajan, S. I., Sood, A., Nair, S., Thomas, P., Packer, C., MacKenzie, A., Murphy, G. tombin, Labonte, R., & Bourgeault, I. L. (2017). Causes, consequences, and policy responses to the migration of health workers: key findings from India. *Human Recourses for Health*, 15(28). https://doi.org/10.1186/s12960-017-0199-y
- Wongboonsin, P., Carlos, M. R. D., & Hatsukano, N. (2018). Filipino nurses' employment opportunities in the non-nursing sector in Thailand. In Y. Tsujita (Ed.), Human Resource Development, Employment and Mobility of Healthcare Professionals in South East Asia: The Case of Nurses (pp. 23–40).

 IDE-JETRO. https://www.ide.go.jp/English/Publish/Download/Brc/22.html
- World Health Organization. (2014). Human Resource for Health Profiles.
- World Health Organization. (2016). Global strategy on human resources for health: Workforce 2030. https://www.who.int/hrh/resources/global_strategy_workforce2030_14_print.pdf?ua=1
- Xiao, L. D., Willis, E., & Jeffers, L. (2014). Factors affecting the integration of immigrant nurses into the nursing workforce: A double hermeneutic study. *International Journal of Nursing Studies*, *51*(4), 640–653. https://doi.org/10.1016/j.ijnurstu.2013.08.005
- Yeager, K. (n.d.). *LibGuides: SPSS Tutorials: Recoding Variables*. Retrieved October 16, 2019, from https://libguides.library.kent.edu/SPSS/RecodeVariables