

# IMPACT OF LANGUAGE BARRIERS ON ACCESS TO HEALTHCARE SERVICES BY IMMIGRANT PATIENTS: A SYSTEMATIC REVIEW

Sasan Rasi

Griffith University, Queensland, Australia

Correspondence: sasanrasi@gmail.com

#### **ABSTRACT**

#### **BACKGROUND**

Research has demonstrated lower access to healthcare services by immigrant patients in comparison to native people. Cultural and linguistic differences have been considered as main factors that impede this access and as barriers to creating an effective relationship between immigrant patients and health professionals.

#### **OBJECTIVE**

The aim of this study was to better understand and synthesize the available evidence regarding the impact of immigrant patients' language proficiency on access to health care.

#### **METHODS**

A systematic literature search was performed to identify studies published between January 2000 and January 2019 that examined the impact of language proficiency on access to and use of health services by immigrant patients. Only articles in English were included. Cross-referencing of the identified articles was also performed.

#### **RESULTS**

A total of 140 publications was identified through online databases. In all 24 studies were reviewed, and the results were reported using four interrelated themes identified from the articles. These reports consistently showed a clear association between inadequate language ability and health services, ineffective underuse of care communication, and increased use of emergency care by immigrant patients. Identifying factors that can influence access to care, applying immigrant-friendly solutions such as provision of professional interpreters, and encouraging culturally and linguistically sensitive education may

improve the quality of care and increase access to care. One study recommended utilisation of communication technologies such as telemedicine to bridge the communication gap and increase accessibility of healthcare services by immigrant patients.

#### **CONCLUSIONS**

All included studies indicated that language barriers hindered access to healthcare services. The data resulting from this study can update policy and practical solutions for language barriers on access to care by immigrant patients and provide an agenda for further investigations.

#### **KEYWORDS**

language, healthcare services, access, barriers, immigrants, migrants

#### INTRODUCTION

The significant number of migrants around the world is a fact. [1] As the globalisation process increases, the migration rate of individuals from different cultures and countries is rising. Reasons such as more secure employment, better education, escape from war and disasters or reuniting with families can compel individuals to migrate. [2] Based on a United Nations report, the number of international immigrants reached 244 million in 2015. [3]

Legal immigrants in host countries have the same access to health care services as native-born. However, inequalities in access to health care services have been reported. [4]

1

Access to healthcare services and facilitating this access is defined as helping people to command appropriate health care resources in order to preserve or improve their health. [5]

To gain access, patients need to be able to proficiently speak in the same language of the health professionals who provide the care. This proficiency is particularly vital in dealing with medical conditions, because clinical examinations depend on verbal communication between patients and medical staff. [6, 7] This miscommunication also increases the risks of delays in treatment, inadequate care, medical errors, and misdiagnosis received by these patients. Potential drug-related adverse effects and medical complications are also reported. [7-9]

Language barriers have been shown in various research studies as a significant impediment in establishing an effective doctor-patient relationship. [9-12] Barriers to communication between immigrant patients and health professionals can affect patients' access to available information or understanding of the information received. These barriers can also affect their decisions to accept and adhere to some types of treatment and medications. [13-17]

Australia has a long history of immigration' more than many other countries and is well recognised as a multi-cultural nation. According to Commonwealth of Australia statistics, Australia is a popular destination for immigrants and hosts one of the largest immigrant populations in the world. The latest trend data in Australia, shows that approximately 29% (7.3 million) of the Australian population was born overseas as at June 2018. [18]

There has been an increase in cultural diversity in Australia with more than 200 cultural and linguistic groups. [19] In this diverse background, the Australian health care system is experiencing a growing difficulty in delivering healthcare in an equal access and culturally capable manner. [20]

This review study focuses on the challenge of providing quality care in the context of immigration to developed countries such as Australia and the impact of language barriers on access to health care by immigrant patients.

The objective of this review is to synthesize the current evidence and to gain better understanding of language barriers, which is currently placing immigrants and patients from different ethnicities at high risk of suffering poorer health services.

The review is also searching for new and advanced solutions that can minimise the risk and fill the gaps in access to quality health care services by immigrants and ethnic minority groups. These solutions can apply to the Australian healthcare system.

#### **METHODS**

This review is steered by the Arksey and O'Malley framework for performing scoping review. The framework for performing scoping review has five stages. The five-stage framework includes: 1) identify the research question (s), (2) identify relevant studies, (3) select the study, (4) chart the data, and (5) report the results. [21]

Scoping reviews use systematic methods to identify and map fundamental concepts, evidence, and gaps related to an area of interest. They assemble secondary data, critically evaluate research studies, and produce findings qualitatively or quantitatively. [22]

A systematic search is conducted followed by the collection and amalgamation of current knowledge, and the reporting the findings.

#### Stage -1: Identifying the Research Question.

The purpose of scoping reviews is to attain detailed and extensive results because they aim to detect all related literature regardless of study design. The central question of this literature review is posed as:

"How is immigrant patients' access to healthcare services affected by language barriers?"

#### Stage -2: Identifying Relevant Studies

This review study will identify, evaluate and combine relevant information from online databases; international, Commonwealth and state documents; journal articles and books. (Table 1) To discover all possible sources of information, the reference lists of all selected articles were scanned for relevant articles.

#### Table 1. List of databases searched to identify literature for this synthesis.

#### For published articles

- MEDLINE
- PubMed
- Scopus
- CINAHL
- Web of Science
- Academic Search Complete
- Google
- Google Scholar

#### **TABLE 2: SEARCHED KEYWORDS IN DETAILS**

#### Table 2. Searched keywords in details.

#### Language:

Language, Diversity, Linguistic, Non-English speaking, Communication

#### Barrier

Barrier, Impediment, Challenge, Obstacle, Hurdle, Difficult, Inequality, Obstruction

#### Immigrant

Immigration, Migrant. Emigrant, Foreign-Born

#### Access

Access, Healthcare Access, Healthcare Services Access, Healthcare Delivery, Healthcare Utilization, Accessibility

#### Interpreter

Interpreter, Translator

A list of all possible key words (Table 2) for language, barrier, access, healthcare and immigrant was included. To reduce the number of studies to a more manageable number, considering the time required to examine each article identified, the search was limited to articles published from 2000 to 2019. Most studies identified were in the English language. The author decided to include only articles published in the English language in this review.

#### Stage -3: Study Selection

The preliminary search in the databases produced a significant number of both related and unrelated articles. An inclusion and exclusion criteria list considering the study question was created. (Table 3) Only full-text available

articles focusing on language and communication barriers to healthcare access by immigrants (regardless of their country of origin), were selected. In the final refining step, only articles published in peer-reviewed journals were considered as peer-reviewed journals ensure a level of control and credibility.

#### Stage -4: Data Charting

An Excel spreadsheet consisting of a data charting form was developed with the following data: author(s), year of publication, country of study, study title, methodology used, population/sample size, major results and findings, and quality assessment rating for original research studies. A similar spreadsheet was also developed for literature review studies included in this review.

Criteria	Inclusion	Exclusion
Year published	Between 2000–2019	Before 2000
Language	English	Non-English
Online availability	Full text	Abstract only
Peer-reviewed	Yes	No
Focus	Language and communication barriers between health professionals and patients	Other barriers
Population	Immigrants	Non-migrants or unclear

#### Stage -5: Reporting Results

In scoping studies, the purpose is to develop a description of what research exists, or to create a thematic construction in order to present a broad view of research in a topic area. [21] In this systematic literature review, the author used the chart from stage 4 to further contextualize the collected information of the included articles based on language barriers and their effects on access to health care services, identified and coded within the article.

## ASSESSMENT OF QUALITY OF INCLUDED ARTICLES

According to Levac et al. (2010), employing quality assessment tools could prevent false conclusions in regard to the nature and extent of the gaps identified in the study. [23] Therefore, after screening the full-text articles, all included articles were assessed using a quality assessment tool by Health Evidence<sup>TM</sup>. [24] The quality of the articles

was evaluated to safeguard the strength of the synthesis and their methodological quality. An overview of the quality assessment is shown in Table 4 and Table 5.

#### **RESULTS OF THE LITERATURE REVIEW**

A primary electronic search recognized 140 publications. From these articles, 109 records were selected based on title and abstract. These 109 records were further screened by reading the full texts and then reducing the number of articles within the scope to 20 original research articles. Four literature review articles were also identified that met the inclusion criteria making a final total of 24. No relevant grey literature was identified. All of the studies included in this synthesis were conducted on immigrants in developed countries and included a mix of health care providers' and patient's perspective. (Figure 1, Table 4 & 5)

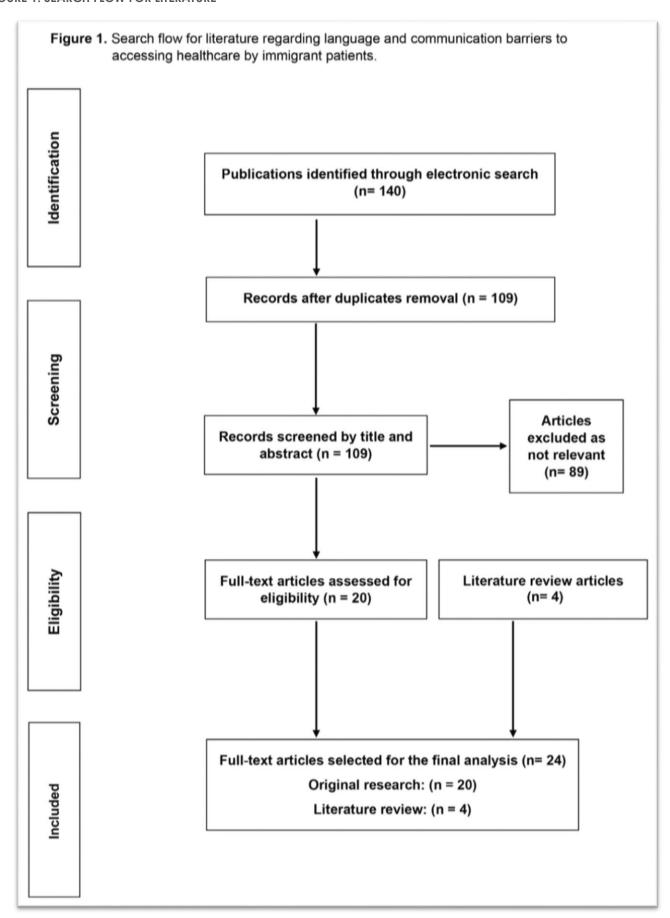


Table 4. Included original research articles.

	,				
Author/ Year/ Country	Title	Methodology	Sample size	Main findings	QA Rating
de Moissac et al. 2018, Canada	Impact of Language Barriers on Quality of Care and Patient Safety for Official Language Minority Francophones in Canada.	Surveys/ semi- structured interviews	20	<ul> <li>Language barriers contributed to poorer patient assessment, misdiagnosis and/or delayed treatment, incomplete understanding of patient condition and prescribed treatment, and impaired confidence in services received.</li> <li>Reliance on Google Translate and ad hoc, untrained interpreters</li> </ul>	High
Andreae et al. 2017, USA	The effect of initiatives to overcome language barriers and improve attendance: A cross- sectional analysis of adherence in an inner-city chronic pain clinic.	Retrospective cross-sectional analysis	14,459	Coordinated initiatives to overcome language barriers can be beneficial in improving appointment adherence and access to care by enhancing rapport and communication between pain physicians and their patients.	High
Hunter-Adams & Rother, 2017, South Africa	A Qualitative study of language barriers between South African health care providers and cross-border migrants.	Qualitative/ Semi structured interviews/ focus groups	17	<ul> <li>Effective communication is a prerequisite for quality care.</li> <li>Free-to-patient professional medical interpretation would not only benefit migrant populations but would benefit the broader community where language and health literacy are barriers to accessing health.</li> </ul>	High
Ross et al. 2016, Australia	Improving the management and care of refugees in Australian hospitals: A descriptive study.	Qualitative/ Questionnaires	150	<ul> <li>Language and cultural barriers are among barriers to care and access to available services including appropriate interpreters.</li> <li>Need for additional support highlighting that caring for refugees in Australian hospitals is a significant challenge.</li> <li>Additional support and education should be targeted to reduce barriers to care.</li> </ul>	High
Sandre & Newbold, 2016, Australia	Telemedicine: Bridging the Gap between Refugee Health and Health Services Accessibility in Hamilton, Ontario.	Qualitative/ Structured interviews	ø	-Telemedicine can be efficient in encouraging dialogue and policy change in the greater health-care settingIt potentially can increase access to specialist health-care services.	Medium
Czapka et al. 2016, Norway	"Where to find those doctors?" A qualitative study on barriers and facilitators in access to and utilization of health care services by Polish migrants in Norway.	Qualitative/ Interview	19	<ul> <li>Lacking language skills</li> <li>Communication problems</li> <li>Experience of barriers to access to healthcare service by migrants</li> </ul>	Medium
Alzubaidi et al. 2015, Australia	Barriers and enablers to healthcare access and use among Arabic-speaking and Caucasian English-speaking patients with type 2 diabetes mellitus: a qualitative comparative study.	Qualitative/ Semi Structured interviews	100	<ul> <li>Delay in access to medical services even when symptomatic.</li> <li>Four barriers to health services access have been identified.</li> <li>Tailored interventions must be developed for Arabic-speaking migrants to improve access to available health services, facilitate timely diagnosis of diabetes and ultimately to improve glycaemic control.</li> </ul>	High
Meuter et al. 2015, Canada	Overcoming language barriers in healthcare: A protocol for investigating safe and effective communication when patients or clinicians use a second language.	Questionnaires	8	Understanding the role that language plays in creating barriers to healthcare by healthcare systems that are experiencing an increasing range of culturally and linguistically diverse populations.	Medium
Gele et al. 2015, Norway	Beyond Culture and Language: Access to Diabetes Preventive Health Services among Somali Women in Norway	Qualitative Multi-method	30	- Lack of access to tailored physical activity services - Poor access to health information.	High
Lindkvist et al. 2015, Sweden	Fogging the issue of HIV - Barriers for HIV testing in a migrated population from Ethiopia and Eritrea.	Qualitative/ Semi-structure interview	59	- Language problems - Barriers to access HIV testing	High
Attard et al. 2013, Australia	Improving communication between health-care professionals and patients with limited English proficiency in the general practice setting.	Qualitative/ Focus group discussions	8	<ul> <li>Wherever possible, communication in the patient's primary language is preferable.</li> <li>Use of a qualified medical interpreter should be promoted.</li> <li>Practices should have a standardised and documented procedure for accessing interpreter services.</li> <li>General practice staff must increase their awareness about services that are available to facilitate communication with patients with limited English proficiency.</li> <li>Develop attitudes that will maximise the effectiveness of these strategies.</li> </ul>	Medium

 Table 4. Included original research articles.

Author/ Year/ Country	Title	Methodology	Sample size	Main findings	QA Rating
Akhavan et al. 2013, Sweden	Practitioner and Client Explanations for Disparities in Health Care Use Between Migrant and Non-migrant Groups in Sweden: A Qualitative Study	Qualitative, interview	5 clients 5 doctors	- Limited Swedish language ability - Use of interpreters is time consuming which is not cost effective - Misunderstanding due to language barriers	High
Akhavan, 2012, Sweden	Midwives' views on factors that contribute to health care inequalities among immigrants in Sweden: a qualitative study.	Qualitative/ Semi-structure interview	10	Inequality in health care among immigrants could be due to language barriers	High
Gulati et al. 2012, Canada	Communication and language challenges experienced by Chinese and South Asian immigrant parents of children with cancer in Canada: Implications for health services delivery.	Qualitative, semi structured interview	20	-Interpreter service was inadequate and not readily accessible. -The provision of culturally and linguistically sensitive services may be helpful for immigrant families.	High
Papic et al. 2012, Canada	Survey of family physicians' perspectives on management of immigrant patients: attitudes, barriers, strategies, and training needs.	Mixed, interview	598	<ul> <li>Communication was the most difficult barrier in managing immigrant patients.</li> <li>Most of the physicians would like to see improved access to an interpreter.</li> </ul>	High
Henderson & Kendall, 2011, Australia	Culturally and linguistically diverse peoples' knowledge of accessibility and utilisation of health services: exploring the need for improvement in health service delivery.	Focus group interviews	42	-Even long-standing CALD communities were unfamiliar with health services and experienced difficulties accessing appropriate health careLanguage difficulties impeded communication with health professionals who were hindered by ineffective use of interpreters.	Medium
Goth & Berg, 2011, Norway	Migrant participation in Norwegian health care. A qualitative study using key informants.	Qualitative/ Semistructured interviews	13	Language proficiency is one of the factors effecting integration into the RGP scheme and adequacy of patient-physician communication.	High
Todd & Hoffman- Goetz., 2011, Canada	A qualitative study of cancer information seeking among Englishas-a second- language older Chinese immigrant women to Canada: sources, barriers, and strategies.	Qualitative, semi structured interview	20	Language issues and difficulty with medical words appeared to be barriers to cancer information seeking.	High
Hudelson & Vilpert, 2009, Switzerland	Overcoming language barriers with foreign-language speaking patients: a survey to investigate intra-hospital variation in attitudes and practices.	Questioners/ Survey	1,493	In order to foster an institution-wide culture conducive to ensuring adequate communication with LFP patients will require both the development of a hospital-wide policy and service level activities aimed at reinforcing this policy and putting it into practice.	Medium
Liang et al. 2009, USA	Cultural views, language ability, and mammography use in Chinese American women.	Quantitative	558	Culturally sensitive and language-appropriate educational interventions can improve mammography adherence among Chinese immigrant women.	High

Table 5. Included systematic review articles.

Author	Year published	Title	Number of included articles	Main findings	QA Rating
Ahmed et al.	2017	Experiences of communication barriers between physicians and immigrant patients: A systematic review and thematic synthesis.	32	<ul> <li>Physicians are mostly concerned about the fidelity of their conversation with immigrant patients</li> <li>The Immigrant patients are mostly concerned about their culture and sometimes fearful that the physicians will misunderstand them due to lack of language proficiency.</li> <li>Updated summary of communication barriers that may arise between physicians and immigrant patients, and their effects on quality of care.</li> </ul>	High
Ohtani et al.	2015	Language Barriers and Access to Psychiatric Care: A Systematic Review.	8	<ul> <li>Limited language proficiency is closely associated with underutilization of psychiatric services.</li> <li>Need for further investigations of the impact of language barriers on access to psychiatric care.</li> </ul>	High
Gil-González et al.	2015	Is health a right for all? An umbrella review of the barriers to health care access faced by migrants.	O)	<ul> <li>Barriers to health care for migrants range from entitlement in nonuniversal health systems to accessibility in universal ones, and determinants of access to the respective health services should be analysed within the corresponding national context.</li> <li>Generating social and institutional changes that eliminate barriers to access to health services is essential to ensure health for all.</li> </ul>	Medium
Schouten & Meeuwesen	2006	Cultural differences in medical communication: A review of the literature.	41	<ul> <li>Doctors behave less affectively when interacting with ethnic minority patients compared to White patients.</li> <li>Ethnic minority patients themselves are also less verbally expressive; they seem to be less assertive and affective during the medical encounter than White</li> </ul>	Medium

patients.

Analytical themes	Descriptive themes	Reference number
Effects of language barriers on access to healthcare services	<ul> <li>Poorer patient assessment</li> <li>Misdiagnosis and/or delayed treatment</li> <li>Incomplete understanding of patient - condition and prescribed treatment</li> <li>Impaired confidence in services received</li> <li>Quality of care</li> <li>Lack of access to healthcare information</li> </ul>	6, 9, 12, 13, 15, 16, 20, 26, 28, 29, 30, 34, 36, 37, 39, 40
Role of interpreters	<ul> <li>Reliance on Google Translate and ad hoc, untrained interpreters</li> <li>Inadequate/ ineffective interpreter services</li> <li>Use of professional interpreters</li> </ul>	6, 20, 26, 34, 36, 39, 41
Provision of immigrant-friendly solutions	<ul> <li>-Appropriate training for health professionals and migrants</li> <li>- Ensure cultural competence in institutional level</li> <li>- Culturally and linguistically sensitive approach &amp; policies</li> </ul>	26, 29, 40, 41, 42
Initiatives for overcoming language	Telemedicine	31, 43

#### THEMATIC SYNTHESIS OF THE RESULTS

The synthesis of results identified four major themes within the included articles and references. (Table 6) The themes were identified by reading the articles and marking and underlining key phrases and concepts. The majority of the reviewed articles in this study cited language, communication, and access to health care services as problems for immigrant. Communication and language barriers were consistently reported in all included studies as an obstacle to accessing health care services.

### EFFECTS OF LANGUAGE BARRIERS ON ACCESS TO HEALTH CARE SERVICES

Health care professionals in multicultural societies are faced with an increasing number of patients from diverse cultures and ethnicities. [25] Effective communication between health care professionals and patients is a prerequisite and important factor that influences quality of service provision and patient satisfaction. [6, 26-28] Communication could be verbal or non-verbal, such as body language, facial expression, gestures, clothing, eye contact, and tone of voice. Barriers to this communication can affect patients access to available information, understanding of the information received and their

decisions to accept and adhere to some types of treatment and medications. [9, 12, 14, 28-30] It is also reported that language barriers can affect and delay access to healthcare services, even when symptomatic. [16] A review study conducted by Ohtani et al. (2015) with focus a on patients' access to psychiatric services has demonstrated a close association between migrant patients' limited language proficiency and underutilization of psychiatric services in the United States, Australia, Canada and the Netherlands. [7]

Identifying factors that can influence access to health care services may improve the delivery of these services to immigrant patients from different cultures. [5, 9] Studies have demonstrated that misinterpretation of the needs and wishes of immigrant patients or the information they received from health professionals can hinder their access to health care services. [12, 13, 15, 20] According to Akhavan (2012), miscommunication and misunderstanding may result from cultural diversity and from different cultural views, behaviour, and expectations. [12]

Goth and Berg (2011) believe that doctors are less affective when working with patients from ethnic minority groups where misunderstandings may occur. [13] Patients from

ethnic minority groups in comparison to native citizens are less verbally communicative, less confident and less affective in their medical visits. [9, 10] These patients with inadequate language abilities require more time to explain their problems. [13] This can undoubtedly challenge the doctor-patient relationship and provision of effective quality services. [13, 14, 28, 31-33] Similarly, Ahmed et al. (2017) consider the significant impact of language and communication on the quality of interactions between immigrant patients and health professionals. The patients are occasionally afraid about possible misunderstanding because of language barriers. [33] Those patients facing language barriers are often unable to make an informed consent. They are at the increased risk of medical mistakes and adverse events, complications, and lack of confidentiality. [34]

Language barriers are even associated with underutilisation of health care services because these patients cannot adhere to their booked clinical arrangements and thus miss their required specialist care. [31] Patients often do not inform the medical practice about cancelling their appointments. This can result in ineffective arrangements, overbooking, and longer waiting time for bookings, underutilisation of clinic resources, and increasing practice costs. [35]

#### **ROLE OF INTERPRETERS**

Immigrant patients and healthcare staff use telephone interpreters which make it more challenging for patients to describe their symptoms and health status. It can often result in frequent use of emergency care. [13, 14] Patients occasionally use interpreters ineffectively [20], or seek help from Google Translate [34], next of kin, children, or friends to translate when they need assistance. [7, 14, 36] The involvement of unqualified translators, particularly the use of their children or a partner to interpret, may result in insecurities and uncertainty for care providers because they cannot trust unqualified interpreters' capabilities in appropriately transferring information. [7, 14, 15, 34, 37] Even the use of language translators from the same community as the immigrant patient may make an insecure situation for the patient in regard to the professional practice of the interpreter for keeping confidentiality. [13]

Karliner et al. (2007) demonstrate that employment of professional interpreters can increase the quality of health care service for these patients, facilitate good practice, [8,

38] and improve accessibility and health service use. [20, 26] In addition, Hunter-Adams and Rother (2017) pointed out that provision of free-to-patient professional medical interpretation can benefit both immigrant patients and the wider community when language barriers impede their access to health care services. [6] Similarly, Papic et al. (2012) has stressed the need to improve access to interpreters by health practitioners. [39]

#### **PROVISION OF IMMIGRANT-FRIENDLY SOLUTIONS**

In countries experiencing cultural and linguistic diversity, understanding effects of language barriers regarding access to health care services by health systems is essential. [9, 17] O'Donnell (2018) recommends that health care systems need to consider immigrant-friendly solutions such as provision of professional interpreters and appropriate trainings for both health professionals and immigrants. [39] Similarly, Hudelson and Vilpert, (2009) and Wolz (2015) agreed that health care providers should identify language barriers, provide adequate language services, and ensure cultural competence at the institutional level. [32, 40] Culturally and linguistically sensitive education and approaches can play a helpful role in improving the access to health care services by immigrant families. [16, 26, 29, 41, 42]

#### INITIATIVES FOR OVERCOMING LANGUAGE BARRIERS

From all 24 reviewed articles, only Sandre and Newbold (2016) and Andreae et al. (2017) focused on use of coordinated initiatives to overcome language barriers and improving access to health care services. [31, 42] Sandre and Newbold (2016) proposed the use of communication technologies such as telemedicine to bridge the gap and effects of language barriers that hamper health care services accessibility for refugees. [43]

The term "telehealth" is identical to, and interchangeable with "telemedicine". [44] Telehealth is defined as the provision of healthcare services at a distance from a different geographical location, using information technology (ICT) and communication networks, mostly to respond to a shortage of health care facilities and professionals. [45] Telehealth may improve accessibility to primary, secondary and tertiary care for rural patients. [46] It can also be helpful in reducing emergency department visits, hospitalization, overall mortality [47] and in substantially saving health care costs. [48]

In Australia, the Australian Medicare Benefits Schedule has covered video consultation by medical specialists to patients in rural and remote areas since June 2013. The federal government also supports the education of clinicians and promotes the uptake of telehealth [49, 50]. Sandre and Newbold (2016) agree that telemedicine can effectively boost dialogue and policy change in the greater health-care setting. It potentially can also increase access to specialist health-care services. [42]

#### DISCUSSION

This systematic literature review of 24 articles that examined the impact of language barriers on access to health care services demonstrates consistent findings. These findings show clear association between insufficient language skills and affected access to health care services, regardless of where the study was conducted. Although the immigrants were entitled to access to health care services as equal to the native population, various factors such as communication and language have made access to healthcare services a challenge.

Because of mentioned barriers the process of consultation could be challenging and time-consuming, which may result in frustration for health professionals and for immigrant patients who are unable to communicate or understand the language of the host country. [33]

Some possible errors such as patient- healthcare staff miscommunication could arise and result in probable misdiagnosis. These patients would leave the health care centre confused and with low confidence in the care received and in the healthcare system in general. [7, 8] This negative experience and mistrust may continue and prevent them from seeking out future healthcare. [33]

Immigrant patients lacking communication skills with lowered access to healthcare services may also tend to utilise emergency services more often than native people. They are usually not required to make an appointment for emergency services. [7] Health care services are supposed to be equally accessible to legal immigrants as well as native citizens. Also, the provision of an effective health care service requires productive interaction between health care staff and patients. This level of communication is essential to healthcare professionals for understanding

health status, uncovering symptoms, reaching right diagnoses, and planning proper treatments. [7]

This review supports the need for integrating cultural competency and awareness into health care systems. Immigrant-friendly strategies such as culturally and linguistically sensitive approaches and appropriate education for health staff and immigrants need to be considered by health systems. [38] Health care staff should be aware of immigrants' rights to access health care [38] and be updated about available services that ease communication with patients with language barriers. [26] Use of qualified medical interpreters as a practical solution eliminating language barriers and bridging communication gaps is recommended by several studies, although it requires additional time and resources. [7, 14, 26, 38]

More research on language barriers in health care is still applicable. More studies need to be conducted to comprehensively identify the ways in which communication barriers affect health care, the efficiency of linguistic service interventions and the cost of language-communication barriers for the patients and health care system.

Finally, according to Sandre & Newbold (2016), utilisation of communication technologies such as telemedicine could be an efficient tool for bridging the communication gap and increasing accessibility of healthcare services by immigrant patients. [43] The finding indicates the need for more studies and research in this area.

#### **FUTURE RESEARCH**

In light of the findings presented in this review, and the resultant discussion, the following recommendations are proposed for future research on immigrant patients' access to health care services:

- Application of telemedicine by employing bilingual general practitioners or nurses (Accessible via phone, or video call from all healthcare centres).
- Establishment of an online history-taking, triage, telemonitoring and referral system.
- Establishing mobile health services.

#### References

- 1. International Organization for Migration. Global migration trends 2015 factsheet. 2016. Available:<a href="http://gmdac.iom.int/global-migration-trends-factsheet">http://gmdac.iom.int/global-migration-trends-factsheet</a> (Accessed 20/04/2019)
- 2. Hjern A. Migration and public health in Sweden: The National Public Health Report. Scandinavian Journal of Public Health 2012; 40(9): 255-67.
- 3. United Nations. International migration report 2015: Department of Economic and Social Affairs. Population Division 2016. Available: <a href="http://www.un.org/en/development/desa/population/migration/publications/migrationreport/docs/MigrationReport2015\_Highlights.pdf">http://www.un.org/en/development/desa/population/migration/publications/migrationreport/docs/MigrationReport2015\_Highlights.pdf</a> (Accessed 15/04/2019)
- 4. Weitoft G, Ericsson, Ö, Loefroth E, Rosén M. Equal access to treatment? Population-based follow-up of drugs dispensed to patients with acute myocardial infarction in Sweden. European journal of clinical pharmacology 2008; 64: 417-24.
- 5. Gulliford M, Figueroa-Munoz J, Morgan M, Hughes D, Gibson B, Beech R, Hudson M. What does 'access to health care' mean? Journal of Health Services Research & Policy 2002; 7(3):186-8.
- 6. Hunter-Adams J, Rother HA. A Qualitative study of language barriers between South African health care providers and cross-border migrants. BMC Health Services Research 2017; 17:97.
- 7. Ohtani A, Suzuki T, Takeuchi H, Uchida H. Language Barriers and Access to Psychiatric Care: A Systematic Review. Psychiatric Services 2015; 66(8): 798-805.
- 8. Karliner LS, Jacobs EA, Chen AH, et al. Do professional interpreters improve clinical care for patients with limited English proficiency? A systematic review of the literature. Health Services Research 2007; 42: 727–754.
- 9. Meuter RFI, Gallois C, Segalowitz NS, Ryder AG, Hocking J. Overcoming language barriers in healthcare: A protocol for investigating safe and effective communication when patients or clinicians use a second language. BMC Health Services Research 2015; 15:371.
- 10. Schouten BC, Meeuwesen L. Cultural differences in medical communication: A review of the literature. Patient Education and Counselling 2006; 64: 21–34.

- 11. Green M. Language barriers and health of Syrian refugees in Germany. American Journal of Public Health 2017; 107(4), 486.
- 12. Akhavan S. Midwives' views on factors that contribute to health care inequalities among immigrants in Sweden: A qualitative study.

  International Journal of Equity Health 2012; 11: 47.
- 13. Goth US, Berg JE. Migrant participation in Norwegian health care. A qualitative study using key informants. The European Journal of General Practice 2011; 17(1): 28-33.
- 14. Håkonsen H, Lees K, Toverud EL. Cultural barriers encountered by Norwegian community pharmacists in providing service to non-Western immigrant patients. International Journal of Clinical Pharmacy 2014; 36(6): 1144-51.
- 15. Lindkvist P, Johansson E, Hylander I. Fogging the issue of HIV Barriers for HIV testing in a migrated population from Ethiopia and Eritrea. BMC Public Health 2015; 15(1): 82.
- 16. Alzubaidi H, Mc Namara K, Browning C, Marriott J. Barriers and enablers to healthcare access and use among Arabic-speaking and Caucasian English-speaking patients with type 2 diabetes mellitus: a qualitative comparative study. BMJ open 2015; 5(11).
- 17. Gil-González D, Carrasco-Portiño M, Vives-Cases C, Agudelo-Suárez AA, Castejón Bolea R, Ronda-Pérez E. Is health a right for all? An umbrella review of the barriers to health care access faced by migrants. Ethnicity & Health 2015; 20(5): 523-41.
- 18. Australian Bureau of Statistics. Migration, Australia,2017-2018. Available<a href="http://www.abs.gov.au/ausstats/abs@.nsf/mf/3412.0">http://www.abs.gov.au/ausstats/abs@.nsf/mf/3412.0</a>(Accessed 5/04/2019)
- 19. Commonwealth of Australia. Australian multiculturalism for a new century: Towards
- Inclusiveness 2008. Available <a href="http://www.multiculturalaustralia.edu.au/doc/dimia\_3.doc">http://www.multiculturalaustralia.edu.au/doc/dimia\_3.doc</a> (Accessed 5/04/2019)
- 20. Henderson S, Kendall E. Culturally and linguistically diverse peoples' knowledge of accessibility and utilisation of health services: exploring the need for improvement in health service delivery. Australian Journal of Primary Health 2011; 17: 195–201.

- 21. Arksey H, O'Malley L. Scoping studies: towards a methodological framework. International Journal of Social Research Methodology 2002; 8(1):19-32.
- 22. Armstrong R, Hall BJ, Doyle J, Waters E. 'Scoping the scope' of a Cochrane review, Journal of Public Health 2011; 33(1): 147–150.
- 23. Levac D, Colquhoun H, O'Brien KK. Scoping studies: advancing the methodology. Implementation Science 2010; 5: 69.
- 24. National Collaborating Centre for Methods and Tools. Health Evidence™ Quality Assessment Tool. Hamilton, ON: McMaster University. Available: <a href="http://www.nccmt.ca/resources/search/275">http://www.nccmt.ca/resources/search/275</a> (Accessed 18/04/2019)
- 25. Statistics Netherlands. Migrants in The Netherlands. The Hague: Statistics Netherlands 2004. Available: <a href="https://www.cbs.nl/-"><a href="https://www.cbs.nl/-">https://www.cbs.nl/-</a></a>
- /media/imported/documents/2005/17/2004-b-52-pub.pdf?la=nl-nl> (Accessed 4/04/2019)
- 26. Attard M, McArthur A, Riitano D, Aromataris E, Bollen C, Pearson A. Improving communication between health-care professionals and patients with limited English proficiency in the general practice setting. Australian Journal of Primary Health 2013; 21: 96-101.
- 27. Schyve PM. Language differences as a barrier to quality and safety in health care: The joint commission perspective. Journal of General Internal Medicine 2007; 22 (Suppl 2): 360–1.
- 28. Todd L, Hoffman-Goetz L. A qualitative study of cancer information seeking among English-as-a-second-language older Chinese immigrant women to Canada: Sources, barriers, and strategies. Journal of Cancer Education 2011; 26(2): 333–340.
- 29. Ross L, Harding C, Seal A, Duncan G. Improving the management and care of refugees in Australian hospitals: A descriptive study. Australian Health Review 2016; 40: 679-685.
- 30. Czapka EA, Sagbakken M. "Where to find those doctors?" A qualitative study on barriers and facilitators in access to and utilization of health care services by Polish migrants in Norway. BMC Health Services Research 2016; 16(1): 460.
- 31. Andreae MH, White RS, Yan Chen K, Nair S, Hall C, Shaparin N. The effect of initiatives to overcome language barriers and improve attendance: A cross-

- sectional analysis of adherence in an inner-city chronic pain clinic. Pain Medicine 2017; 18: 265–274.
- 32. Wolz MM. Language barriers: Challenges to quality healthcare. International Journal of Dermatology 2015; 54: 248–250.
- 33. Ahmed S, Lee S, Shommu N, Rumana N, Turin T. Experiences of communication barriers between physicians and immigrant patients: A systematic review and thematic synthesis. Patient Experience Journal 2017; 4(1): 122-140.
- 34. de Moissac D, Bowen S. Impact of language barriers on quality of care and patient safety for official language minority Francophones in Canada. Journal of Patient Experience 2018; 6(1): 24-32.
- 35. Lynch ME, Campbell F, Clark AJ, et al. A systematic review of the effect of waiting for treatment for chronic pain. Pain 2018; 136(1-2): 97–116.
- 36. Akhavan S, Karlsen S. Practitioner and client explanations for disparities in health care use between migrant and non-migrant groups in Sweden: A qualitative study. Journal of Immigrant and Minority Health 2013; 15(1): 188-97.
- 37. Gele AA, Torheim LE, Pettersen KS, Kumar B. Beyond culture and language: Access to diabetes preventive health services among Somali women in Norway. Journal of Diabetes Research 2015; 2015.
- 38. O'Donnell CA. Health Care Access for Migrants in Europe. Oxford Research Encyclopaedia of Global Public Health 2018. Available <a href="http://oxfordre.com/publichealth/view/10.1093/acrefore/9780190632366.001.0001/acrefore-9780190632366-e-6">http://oxfordre.com/publichealth/view/10.1093/acrefore/9780190632366.001.0001/acrefore-9780190632366-e-6</a> (Accessed 11/04/2019)
- 39. Papic O, Malak Z, Rosenberg E. Survey of family physicians' perspectives on management of immigrant patients: attitudes, barriers, strategies, and training needs. Patient Education and Counseling 2012; 86(2): 205-209
- 40. Hudelson P, Vilpert S. Overcoming language barriers with foreign-language speaking patients: a survey to investigate intra-hospital variation in attitudes and practices. BMC Health Services Research 2009; 15(9):187.
- 41. Gulati S, Watt L, Shaw N, Sung L, Poureslami IM, Klaassen R, Dix D, Klassen AF. Communication and language challenges experienced by Chinese and south Asian immigrant parents of children with cancer

- in Canada: Implications for health services delivery. Pediatric Blood & Cancer 2012; 58(4): 572-578.
- 42. Liang W, Wang J, Chen MY, Feng S, Yi B, Mandelblatt JS. Cultural views, language ability, and mammography use in Chinese American women. Health Education & Behavior 2009; 36(6): 1012–1025.
- 43. Sandre AR, Newbold K B. Telemedicine: Bridging the gap between refugee health and health services accessibility in Hamilton, Ontario. Canada's Journal on Refugees 2016; 32: 3.
- 44. Fatehi F, Wootton R. Telemedicine, telehealth or ehealth? A bibliometric analysis of the trends in the use of these terms. Journal of Telemedicine and Telecare 2012; 18: 460-464
- 45. Armstrong BK, Gillespie JA, Leeder SR, Rubin GL, Russell LM. Challenges in health and health care for Australia. Medical Journal of Australia 2007; 187: 485-9.
- 46. Bashshur RL, Shannon GW. National telemedicine initiatives: essential to healthcare reform. Telemedicine Journal and E Health 2009; 15(6): 600-10.
- 47. Steventon A, Bardsley M, Billings J, Dixon J, Doll H, Hirani S, et al. Effect of telehealth on use of secondary care and mortality: findings from the Whole System Demonstrator cluster randomised trial. British Medical Journal 2012; 344: e3874
- 48. Cusack CM, Pan E, Hook JM, Vincent A, Kaelber DC, Middleton B. The value proposition in the widespread use of telehealth. Journal of Telemedicine and Telecare 2008; 14(4): 167-8.
- 49. Australian College of Rural and Remote Medicine. Technology directory. Available <a href="http://www.ehealth.acrrm.org.au/technology-directory">http://www.ehealth.acrrm.org.au/technology-directory</a> (Accessed 17/04.2019)
- 50. Royal Australian College of General Practitioners. Hardware and software. Available < https://www.racgp.org.au/running-a-practice/technology/business-technology/hardware-and-software-requirements> (Accessed 17/04/2019)