Core competencies for physiotherapists working with refugees: A scoping review

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1	Title: Core competencies for physiotherapists working with
2	refugees: a scoping review
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39 40 41	refugees: a scoping review
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60 61	<i>Objective:</i> To summarise the existing knowledge base that can inform the development of a
62	core competency profile for physiotherapists to support and deliver rehabilitation services to
63	refugees.

64 *Method:* In this scoping review, a comprehensive search of peer-reviewed and grey literature 65 was conducted. The search parameters included studies relevant to the physiotherapy profession and published between 2000 and 2019. MEDLINE, EMBASE, CINAHL, PEDro, and 66 67 Ovid PsycINFO databases were searched. Grey literature was accessed through website 68 searches, Google Scholar, and direct requests. 69 Findings: Three themes were identified in the literature. The first theme encompassed the 70 physical and mental health of refugees. The second theme explored the cultural competence 71 physiotherapists need to work with refugees. This theme included the cultural influences on 72 health and healthcare and communication strategies that could be used to optimise healthcare 73 for refugees. The last theme described refugees and the healthcare system which encompassed the challenges that refugees face in accessing healthcare and navigating the healthcare system. 74 75 The main physiotherapy competencies detected in the literature were an understanding of 76 refugee health, the administration of culturally competent care and knowledge of healthcare 77 systems as they relate to refugees. 78 **Conclusion:** This comprehensive search identified three themes that can be used to inform the 79 development of a competency profile for physiotherapists working with refugees. These 80 themes are, however, rather vague and non-specific and signal the need for research to further 81 examine the physiotherapy competencies necessary to provide the highest quality of care for 82 this growing population.

83

#### 84 Contribution of Paper

85 What does this paper add to the current literature?

86	• This review summarises the existing knowledge base related to the provision and
87	delivery of rehabilitation services to refugees.
88	• Practical considerations for physiotherapists working with refugees are provided.
89	
90	Key messages
91	• The main competencies needed by physiotherapists working with refugees are an
92	understanding of refugee health, administration of culturally competent care, and
93	knowledge of healthcare systems as they relate to refugees.
94	Rehabilitation provided to refugees should take a multi-disciplinary approach.
95	• Further exploration of the physiotherapy competencies needed to provide the highest
96	quality of care for refugees is warranted.
97	
98	Key words: Refugees, Rehabilitation, Physiotherapy, Competencies
99	Introduction
100	
101	In recent years, there has been a steady increase in the global number of refugees and
102	migrants[1]. The United Nations High Commissioner for Refugees (UNHCR) reported that at the
103	end of 2018 there were over 29 million refugees and asylum seekers across the globe[2]. The
104	large and increasing numbers of refugees call for the development of appropriate knowledge
105	and skills to facilitate effective healthcare delivery in their receiving countries. Many refugees
106	arrive with complex health needs, both physical and mental, signifying the important role of

107	rehabilitation[3]. Competency profiles, which detail the knowledge, activities, tasks, behaviours
108	and skills required to provide optimal care for this population, have been developed for some
109	health professions, e.g. public health professionals [4], and for health professionals in
110	general[5]. However, there is no clear definition of the competencies needed by
111	physiotherapists to optimally serve this population. This review aims to summarise the existing
112	knowledge base, considering both peer-reviewed and grey literature that can inform the
113	development of a competency profile for physiotherapists to support and deliver rehabilitation
114	services to refugees.
115	
116	The definitions used for this review are displayed in Table 1. When discussing the articles
117	included in this review, the terms refugee or migrant are used depending on which was used in
118	the specific study. However, when the results of the articles are being discussed more
119	generally, the term refugee is used consistently. As noted by the UNHCR[6], the large numbers
120	of people arriving by boat to Europe in recent years comprise both refugees and migrants but
121	the majority are refugees and the term migrant would only be correct for a small proportion.
122	
123	
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126	Table 1: Definitions used in this review

Term	Definition

Refugee	According to the UNHCR a refugee is someone who: "owing to well-founded
	fear of being persecuted for reasons of race, religion, nationality,
	membership of a particular social group or political opinion, is outside the
	country of his nationality and is unable or, owing to such fear, is unwilling to
	avail himself of the protection of that country; or who, not having a
	nationality and being outside the country of his former habitual residence, is
	unable or, owing to such fear, is unwilling to return to it" (UNHCR-Refugee
	Convention).
Migrant	A 'migrant' is fundamentally different from a refugee. Refugees are forced
	to flee to save their lives or preserve their freedom, but 'migrant' describes
	any person who moves, usually across an international border, to join family
	members already abroad, to search for a livelihood, to escape a natural
	disaster, or for a range of other purposes. However, refugees and migrants
	often employ the same routes, modes of transport, and networks.
	Movements of both refugees and migrants are commonly referred to as
	'mixed movements'. It is important to distinguish the different categories of
	person in mixed migratory movements and apply the appropriate
	framework of rights, responsibilities, and protection (UNHCR-Emergency
	Handbook).

127

128 Methods

130	A scoping review was conducted between November 2018 and February 2019. This review was
131	informed by Arksey and O'Malley's[7] methodological framework and other recommendations
132	from Levac et al.[8] and Peters et al.[9] and consisted of four steps. First, a search strategy was
133	implemented to find relevant publications, next publications were screened and selected using
134	our predetermined inclusion/exclusion criteria. Thirdly, we extracted the data from the
135	included publications and grey literature, and lastly, we organised, summarised, and presented
136	the results[7,9]. This review aimed to explore the extent and range of knowledge of this
137	particular area, and therefore in keeping with the guidelines for conducting scoping reviews,
138	the retrieved literature was not systematically appraised.
139	
140	The search parameters included studies from peer-reviewed and grey literature relevant to the
141	physiotherapy profession and published between 2000 and 2019. The start date of 2000 was
142	chosen to reflect current physiotherapy practices. To locate peer-reviewed literature the
143	following electronic bibliographic databases were searched: MEDLINE, EMBASE, CINAHL, PEDro
144	and Ovid PsycINFO. Hand searching and reference list searching were also employed to locate
145	peer-reviewed literature[9]. Grey literature was accessed through website searches, Google
146	Scholar and direct requests to the following organizations: International Committee of the Red
147	Cross, Humanity and Inclusion, Health Volunteers Overseas, Health Policy & Administration of
148	the American Physical Therapy Association, Global Health Division of the Canadian
149	Physiotherapy Association, Australian Physiotherapy Association, WCPT (World Confederation
150	for Physical Therapy) and ADAPT (Chartered Physiotherapists in International Health and
151	Development).

- 153 To ensure a comprehensive search, a health science librarian was consulted to develop the
- 154 search terms and to ensure search terms were tailored for each database. An example of our
- search term strategy can be found in Table 2 (See Appendix 1 for the full electronic search
- 156 strategy used in Ovid MEDLINE). Publications were excluded if: 1) the article was published
- 157 prior to 2000, 2) the reviewers were unable to obtain an English translation of the article, 3) the
- 158 article did not address refugees or migrants and the physiotherapy profession or
- 159 physiotherapists' knowledge, activities, tasks, behaviours or skills.
- 160 **Table 2:** Ovid MEDLINE search strategy.

#### To encompass the term Physiotherapy or Physical therapy or Rehabilitation

- exp Physical Therapy Modalities
- Physical Therapists
- (physiotherap\* or physical therap\*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
- (physiotherap\* or physical therap\*).jw.
- [OR] rehabilitat\*.mp,jw

#### [AND]

#### To encompass the term Refugee

- "emigrants and immigrants"/ or undocumented immigrants/ or refugees/
- (emigra\* immigra\* or migrant\*).mp. [mp=title, abstract, original title, name of substance word, subject heading word, floating sub-heading word, keyword heading word, protocol supplementary concept word, rare disease supplementary concept word, unique identifier, synonyms]
- (displaced adj3 (people or person\* or group\* or population\*)).mp. [mp=title,
   abstract, original title, name of substance word, subject heading word, floating subheading word, keyword heading word, protocol supplementary concept word, rare
   disease supplementary concept word, unique identifier, synonyms]

- 162 Covidence Online Software (www.covidence.org) was used to manage the retrieved items, to
- 163 perform the abstract/title review, and to extract the data from the studies included in the

164 review. First, two reviewers independently screened articles for relevance based on their 165 titles/abstracts. Any disagreements were resolved by a consensus discussion and/or 166 consultation with two other researchers. When it was unclear if the research involved 167 physiotherapy and/or refugees, the abstract was included in the full-text review. Full-text 168 reviews and charting of the data were performed independently by two researchers. The 169 research group developed a data extraction form to record essential information (study details, 170 aims, population, methods, characteristics relating to physiotherapy and refugee health and 171 potential implications for physical therapy), from each article. Patterns and common topics or 172 findings in the data were identified by the reviewers and then discussed using a consensus 173 approach to form the initial themes and subthemes. Using a thematic analysis approach the extracted data from the articles were then coded by each reviewer. Reviewers identified the 174 175 predominant theme(s) in each article independently. A consensus approach was then used to 176 refine the themes and to inform the directed content analysis of the data[10]. Key themes were 177 identified and agreed upon by the two reviewers with any discrepancies resolved by a 178 consensus discussion with a third reviewer.

179

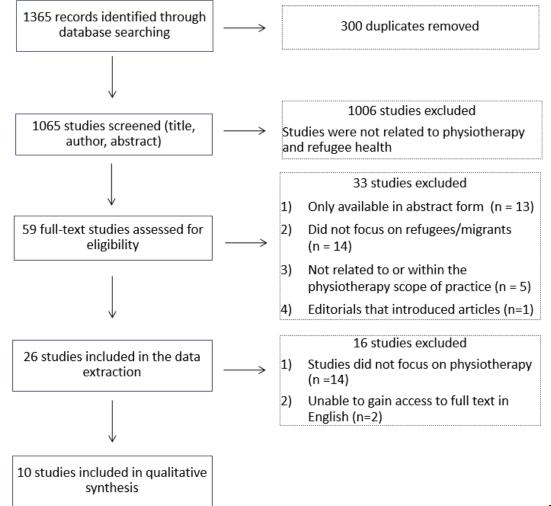
#### 180 **Results**

181

#### 182 Peer-Reviewed Literature

183 The search of the peer-reviewed literature returned 1365 articles. The stages of the peer-

184 reviewed literature search are displayed in Figure 1.



186

Figure 1:

187 Flowchart showing the article retrieval process of the articles to be included in the scoping188 review.

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190 The ten included articles are summarised in Table 3. All the studies were conducted in Europe

191 with the majority (n=8) coming from Nordic countries. Five of the studies were interview-based,

- 192 qualitative studies. The other methodologies employed were qualitative questionnaires,
- 193 qualitative multiple case studies, Delphi method, longitudinal-single cohort, and controlled
- 194 descriptive studies. Participants were migrants or refugees in four of the studies, health

- 195 professionals in five of the studies and one study included both health professionals and
- 196 refugees/migrants.

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Table 3: Summar	of the relevant findings from the peer reviewed li	iterature.

Author	Key aims and objectives	Methods	Summary of relevant findings	Themes <sup>ª</sup>
Dogan et	To describe the problems Turkish	Qualitative –	Highlighted the importance of good communication and an	Cultural
al.[11]	immigrants and German healthcare	Survey	understanding of culture-based expressions of illness.	Competence.
	personnel faced and the ethical		Provided recommendations for the education of healthcare	
	implications of these problems.		professionals to improve practice.	
Dressler and	To examine how the staff of a post-	Qualitative -	Participants recognised that language barriers and cultural	Cultural
Pils[12]	accident, in-patient rehabilitation	semi-structured	aspects influence rehabilitation outcomes. There was	Competence;
	centre in Austria perceived cross-	interviews	particular reference to attitudes concerning disease and	Refugees and the
	cultural communication between the		disability, differing views on the role of health professionals,	Healthcare
	staff and migrant and ethnic minority		and pain behaviour. Provided suggestions for overcoming	System.
	patients.		these barriers.	

Fougner and	To describe Norwegian physiotherapy	Qualitative -	Cultural competency training is important for	Cultural
Horntvedt	students' experiences of cultural	semi-structured	physiotherapists to help prevent interactions based on	Competence.
[13]	diversity in practice.	interviews	myths and stereotypes, and is vital to raise physiotherapists'	
			consciousness of these phenomena and the concepts	
			associated with them. Suggested that there should be	
			additional focus on cultural competency for healthcare	
			professionals in a multicultural society.	
Gard [14]	To identify factors important for a good	Qualitative -	Identified five prerequisites for a good interaction with	Refugee Health;
	interaction between a physiotherapist	multiple case	persons who have undergone torture and five factors in the	Cultural
	and a patient who has been tortured.	study	interaction situation that are important for a good	Competence.
			interaction.	
Möller [15]	To examine how physiotherapists in	Qualitative -	Highlighted that the collision of cultures between	Refugee Health;
	primary health care experience	semi-structured	physiotherapist and refugee patient can be a challenge.	Cultural
	encounters with migrant refugee	interviews	Identified that cultural communication differences and	Competence;
	patients.		language barriers exist and it is important to use a trained	Refugees and the
			interpreter. Suggested physiotherapists need more	Healthcare

			knowledge to manage psychosomatic problems.	System.
Müllersdorf	To examine the experience of living	Qualitative -	Discussed the association between refugee status and pain.	Refugee Health;
et al.[16]	with musculoskeletal pain and	semi-structured	Highlighted the need for physiotherapists to use good	Cultural
	experiences of health care among	interviews	communication skills and cultural sensitivity for effective	Competence;
	dispersed ethnic populations of Muslim		and patient centred rehabilitation outcomes.	Refugees and the
	women.			Healthcare
				System.
Nyboe et	To compare bodily symptoms in	Controlled,	Traumatised refugees have poorer movement function and	Refugee Health.
al.[17]	traumatised refugees and Danish war	descriptive	more bodily complaints than healthy individuals. The Body	
	veterans with post-traumatic stress	study	Awareness Movement Quality and Experience scale (BAS	
	disorder (PTSD) with healthy controls.		MQ-E) may be a useful outcome measure when working	
			with people with PTSD.	

Palic and	To describe a specific, culturally diverse	Longitudinal,	Found that there were high rates of physical and mental	Refugee Health;
Eiklit[18]	population of refugees in terms of	single cohort	health problems (including PTSD) among refugee	Cultural
	traumatisation and symptom levels as	study	populations and described determinants of maintenance	Competence;
	well as global functioning and social		and severity of PTSD. Physiotherapy in combination with	Refugees and the
	support; and assess the effectiveness		psychotherapy and pharmacotherapy can lead to	Healthcare
	of the multidisciplinary treatment		improvement in symptoms. Suggested that cognitive	System.
	offered.		behavioural therapy (CBT) and body awareness therapy	
			(BAT) are effective interventions.	
Persson and	To explore tortured refugees'	Qualitative -	The refugees who had survived torture had different, mostly	Refugee Health;
Gard[19]	expectations of the multidisciplinary	semi-	positive, expectations of the multidisciplinary pain	Cultural
	pain rehabilitation programme offered	structured	rehabilitation programme. General expectations of the	Competence;
	at a specialised rehabilitation centre for	interviews	rehabilitation content, as well as specific expectations of the	Refugees and the
	torture victims.		professionals' treatment, were expressed. Mutual and	Healthcare
			active participation and communication between patients	System.
			and therapists were important expectations.	

Zander[20]	To determine the perceptions of pain	Delphi method	Highlighted the need to support and increase knowledge	Cultural
	and pain rehabilitation directed to		among healthcare professionals to involve the patient, their	Competence;
	resettled women from the Middle East,		beliefs and expectations, background and current life	Refugees and the
	from a variety of health care		situation, and to involve family and relatives in	Healthcare
	professionals.		rehabilitation.	System.

<sup>a</sup>Themes written in bold indicate that the theme was a key aspect of the article, themes in normal font indicate that the themes

was present in the article but not a central focus.

#### 1 Grey Literature

The exploration of grey literature returned nineteen documents. All documents went through full-text eligibility assessment. Documents were excluded if they were not specifically about physiotherapy practice; this resulted in thirteen documents being excluded. The six included grey literature articles are summarised in Table 4. 

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#### **Table 4:** Summary of the relevant findings from the grey literature.

Key aims and objectives	Methods	Summary of relevant findings	Themes <sup>a</sup>
To build capacity through training of	Course syllabus	Describes 5 modules (including learning objectives,	Refugee Health;
trainers in affected communities who		learning activities, and related reading): Context;	Cultural
can implement training activities for		Strengthening institutional capacity to organise the	Competence;
health workers so that they can		response; Capacity building for migrant sensitive health	Refugees and the
develop intercultural competencies and		systems; Specific health concerns; Vulnerable groups.	Healthcare System.
have a clear understanding of a migrant			
sensitive health care delivery model.			
To provide a syllabus for a training	Course syllabus	Suggests topics and approaches to topics to be covered in	Refugee Health;
course for healthcare professionals		a training courses for healthcare professionals working	Cultural
working with migrants and refugees		with migrants and refugees. Lists competencies,	Competence;
		knowledge and skills.	
	trainers in affected communities who can implement training activities for health workers so that they can develop intercultural competencies and have a clear understanding of a migrant sensitive health care delivery model. To provide a syllabus for a training course for healthcare professionals	trainers in affected communities who can implement training activities for health workers so that they can develop intercultural competencies and have a clear understanding of a migrant sensitive health care delivery model. To provide a syllabus for a training course for healthcare professionals	trainers in affected communities wholearning activities, and related reading): Context;can implement training activities forStrengthening institutional capacity to organise thehealth workers so that they canresponse; Capacity building for migrant sensitive healthdevelop intercultural competencies andsystems; Specific health concerns; Vulnerable groups.have a clear understanding of a migrantsensitive health care delivery model.To provide a syllabus for a trainingCourse syllabuscourse for healthcare professionalsa training courses for healthcare professionals workingworking with migrants and refugeeswith migrants and refugees.

Chaudry[23]	To share strategies that	Narrative	Describes organisational and clinician level strategies for	Cultural
	physiotherapists can use at the		physiotherapists to appropriately address a patient's	Competence;
	organisational level and individual		limited English proficiency for best practice to effectively	Refugees and the
	clinician level to assist in eliminating		work with the linguistically diverse patient populations.	Healthcare System
	the language barrier between the			
	physiotherapy professional and their			
	patient with limited English proficiency.			
MEM-TP	To improve access to and quality of	Course syllabus	Describes the development, pilot and evaluation of a	Refugee Health;
Team[24]	health services for migrants and ethnic	and report	training programme for healthcare professionals working	Cultural
	minorities. It focused on reviewing,	~	with migrants and ethnic minorities. Module units include	Competence;
	developing, testing and evaluating		knowledge about migrants' health problems and health	Refugees and the
	training in migrant and ethnic minority		determinants, intercultural competence and diversity	Healthcare System
	health for front-line health		sensitivity, interpersonal skill development and strategies	
	professionals in primary care settings.		for people-centred health care services oriented towards	
			cultural and ethnic diversity.	

Nielsen[25]	To describe physiotherapeutic tools	Guidelines	Gives detailed practical guidance for physiotherapists	Refugee Health;
	that could be applied in practice for		working with survivors of torture. Identifies 3 most	Cultural
	physiotherapists who work with torture		important symptoms that may present: chronic pain,	Competence;
	survivors in third world countries with		PTSD, sleep disturbance.	
	limited resources.			
Vanstone et	To provide a guide for doctors, nurses	Guidelines	Provides detailed advice on working with refugees to	Refugee Health;
al.[26]	and other health care providers for		promote health with some aspects particular to the	Cultural
	promoting health when caring for		Australian context. Sections 2, 3, 4 and 5 provide valuable	Competence;
	people from refugee backgrounds.		resources relevant to physiotherapy practice.	Refugees and the
				Healthcare System.

<sup>a</sup>Themes written in bold indicate that the theme was a key aspect of the article, themes in normal font indicate that the themes

was present in the article but not a central focus.

#### 1 Key themes identified

2 The analysis of peer-reviewed and grey literature identified three key themes with five sub-

3 themes:

- 4 1. Refugee health
- 5 a. determinants of health
- 6 b. physical health
- 7 c. mental health
- 8 2. Cultural competence
- 9 a. cultural sensitivity
- 10 b. communication
- 11 3. Refugees and the healthcare system
- 12
- 13 Discussion

14

This comprehensive search of peer-reviewed and grey literature identified three themes that 15 can be used to inform the development of competencies needed by physiotherapists working 16 17 with refugees. It also highlights a lack of research in this area and the limited evidence for physiotherapy interventions for refugees. Only ten relevant peer-reviewed articles were found 18 which emphasises the need for further research and education in this area. Furthermore, no 19 20 articles specifically outlined the competencies needed by physiotherapists working with this 21 population. However, the studies in this review do provide useful findings which could be used 22 to inform the development of a competency profile for physiotherapists working with refugees.

The sample sizes in these studies were generally small and the studies were published between
2002 and 2017. Consequently, they may not accurately reflect the situation for refugees today.
This may limit the generalizability of the results to the current circumstance for refugees and
should be considered when interpreting the results of this review.

5

#### 6 Theme 1: Refugee Health

7

8 As displayed in Tables 3 and 4, many of the articles discussed the mental and physical health of refugees and the factors that can influence these aspects of health. This data constituted the 9 10 first theme, refugee health, which focused on the physical and mental health issues exhibited by refugees and also encompassed the determinants of health for refugees. An individual's 11 12 health is determined by the social and economic environment, the physical environment, and a 13 person's characteristics and behaviours[27]. In the literature, many determinants have been 14 identified that can affect refugees' health during and after the migratory process. Examples of 15 health determinants that should be considered when working with refugees include: 16 uncertainty about civil status, unstable accommodation or homelessness, loss of social 17 networks and isolation, anxiety about family and friends, poverty, racism in the host society and 18 lower average socioeconomic status [15,16,18,21,22]. The literature indicates a significant 19 proportion of refugees will have been subject to severe physical and/or psychological torture 20 and that this exposure may have long-term physical and psychological consequences [18,19,26]. 21 When working with survivors of torture, physiotherapists should take general health, torture,

1	depression, stress, post-traumatic stress disorder, anxiety, migration history, social support,
2	and socioeconomic status into consideration when developing treatment plans[14].
3	
4	Several articles covered the physical and mental health of refugees. Refugees are known to
5	have an increased risk of physical and mental health challenges because of the physical and
6	mental strain they are likely to have experienced[18]. Common physical health problems
7	reported in this population include infectious diseases, non-communicable diseases (NCDs),
8	such as diabetes, hypertension, coronary heart disease, and musculoskeletal problems (e.g.,
9	injuries, backache, non-specific body pain)[3,22,26].
10	
11	The risks to health are particularly high when migration is due to violent conflicts and
12	associated with trauma, and it has been shown that pain is common in refugees who have
13	experienced trauma[16,17,19,25] and can have a significant impact both physically and
14	emotionally. The experience of pain can have a large impact on the individual's ability to
15	participate in their daily activities[16].
16	
17	When treating refugees, physiotherapists must be aware that they may be survivors of torture.
18	There is a need to establish trust before inquiring about torture. Knowledge of the type of
19	torture employed can, however, aid in evaluating injuries, scars, and other chronic
20	sequelae[28]. For survivors of torture, pain is one of the most frequent complaints[19].
21	Physiotherapy is a key component of the multidisciplinary approach to chronic pain
22	management[29-31]. Managing chronic pain following torture is challenging due to the

1 comorbid presence of somatic, psychiatric and social problems [28]. A biopsychosocial approach 2 is needed to assess the total experience of pain and enable the development of 3 multidisciplinary treatment plans for chronic pain[28,32]. These treatment plans should be 4 tailored to the individual but may include: pain control, creating a realistic understanding of 5 problems, graded steps to achieve short- and long-term goals for function and increased 6 participation and focus on quality of life[14,28]. 7 Additional physical impairments were found in the study by Nyboe et al.[17], where the bodily 8 9 symptoms of traumatised refugees and war veterans were compared with healthy controls in 10 Denmark. The refugees with post-traumatic stress disorder (PTSD) were found to have 11 significantly poorer stability, balance, flexibility and coordination in movement, more muscular 12 tension, more pain complaints, more restricted breathing, and greater limitations in activities of 13 daily life compared to the healthy controls. Refugees can demonstrate acquired brain damage 14 due to traumatic brain injury as a result of undernourishment or thirst for prolonged periods, or 15 different forms of torture. Traumatic brain injury can easily be confounded with PTSD as the 16 most common symptoms are memory and attention deficits, apathy, impaired social judgment, 17 distractibility, and impulsivity[18].

18

The available literature recognised that refugees also have complex mental health
needs[3,17,18]. These needs are a result of traumatic experiences, sociocultural variables and
economic conditions that negatively affect one's health[14]. Refugees may present with PTSD,
anxiety, and depression[3,17-19,21,25,26,32-34]. In their guideline for health professionals

1	caring for people with refugee backgrounds, Vanstone et al.[26] explained the importance of
2	knowledge of the psychological sequelae of trauma and torture. An individual's experiences of
3	trauma and torture may impact their ability to participate in assessment and treatment[26].
4	When designing physiotherapy treatment plans for individuals that are suffering from PTSD,
5	Nielsen[25] suggests that physiotherapists incorporate strategies that include: psychoeducation
6	about PTSD, breathing exercises, grounding exercise, body awareness therapy, mindfulness
7	training, physical training, relaxation massage and cognitive behavioural training[25].
8	Psychological recovery is assisted by attention to the individual's specific needs and, referrals
9	should be made for counselling and other forms of specialised care when appropriate[26].
10	
11	Theme 2: Cultural competence
12	
13	A client-centred approach is central in providing culturally competent care[14,16,19,21,33].
14	Cultural competence is defined as: "a set of skills or processes that enable health professionals
15	to provide services that are (culturally) appropriate for the diverse populations they serve" [35].
16	As displayed in Tables 3 and 4, cultural competence when treating refugees was a key aspect of
17	most of the included articles. This data constituted the second theme, cultural competence.
18	The literature within the second theme presented two inter-related subthemes: cultural
19	sensitivity and communication.
20	
21	Refugees are a heterogeneous group of culturally, ethnically and linguistically diverse
22	individuals with complex health needs. Consequently, they can face a range of cultural barriers

1 to accessing care[3,36,37]. An understanding of these barriers is important when working with 2 this population[22]. The impact of cultural differences between patient and therapist on 3 assessment and treatment was highlighted and discussed in several papers. There was 4 recognition that culture can influence attitudes concerning disease, disability and the role of 5 health professionals [12,21,26] and cultural differences in beliefs about pain and disability may 6 play a role in the expression of distress and help-seeking behaviour[12,15,18,32,36]. In a 7 qualitative study investigating rehabilitation professionals' perceptions of cross-cultural 8 communication, Dressler and Pils[12] found differing beliefs regarding taking an active role in 9 rehabilitation and participating in activities of daily living were a source of frustration for the 10 rehabilitation professionals.

11

12 Health professionals need to recognise the influence of cultural aspects on functional activities 13 such as eating, hygiene and receiving visitors while in the hospital and be cognisant of these 14 influences when delivering rehabilitation programs[11]. In a study exploring the rehabilitation 15 of women resettled from the Middle East in Sweden, Zander et al.[20] identified cultural 16 differences relevant to healthcare between the women and the Swedish health professionals. 17 The women in this study placed importance on the role of religion and spirituality in their 18 recovery whereas this was not reported as relevant by the health professionals. The authors 19 state that health professionals need to be conscious about their own cultural backgrounds and 20 how their views affect their responses to the care of patients[20]. Similarly, Gard[13] advocated 21 the importance of being sensitive to each individual's religious beliefs, norms and values.

Additionally, health professionals need to consider cultural diversity when tailoring treatments
 to refugees' individual needs.

3

4 Fougher and Hornvedt[13] highlighted the importance of reflecting on preconceived ideas or 5 biases when working with patients from different cultures. Physiotherapy students in the study 6 were found to switch between two models when dealing with diversity. Depending on the 7 context, students switched between the idea of "sameness" or "otherness." In one model, the 8 students respected the otherness of the Muslim patients and their dress choices as integral to 9 their culture. However, in the other model, the students perceived the women's dress choices 10 as inhibiting integration into the majority culture. Dogan et al.[11] argued that it is a matter of ethical responsibility for health professionals to have the ability to explore the meaning of 11 12 illness, understand patients' social and family contexts and provide culturally competent care. 13 The literature supports the use of training to develop cultural competence[24,26] and Fougner 14 and Horntvedt[13] suggested that this topic should be included in the physiotherapy 15 curriculum.

16

Communication and the difficulties that arise due to language barriers were prominent and
recurring subjects in the literature[11,12,15,16,19,23]. Physiotherapists need strong, culturally
competent communication skills to ensure that appropriate care is provided to their patients.
Communication can be influenced by cultural and language barriers, and efforts should be
made to cope with these barriers[11,15,21]. It was evident in the current literature that the

1	care refugees receive can be improved by using professional interpreters when language
2	barriers occur[11,12,15,20,23,26].
3	
4	Major language barriers that affect the ability to communicate the importance and benefits of
5	rehabilitation may have significant consequences and can lead to patient drop out. In a
6	qualitative study, Turkish migrant patients were found to place importance on good
7	communication, physical contact, and understanding of their culture-based expressions of
8	illness, while the healthcare professionals expressed that they need resources and personnel to
9	minimise language barriers as well as education and training in Turkish culture[11]. The authors
10	recommended simulation activities, cross-cultural communication exercises, immersion
11	programs, and didactic materials as appropriate learning tools[11].
12	
12 13	Theme 3: Refugees and the health care system
	Theme 3: Refugees and the health care system
13	<i>Theme 3: Refugees and the health care system</i> The final theme covered refugees' experiences of accessing healthcare and navigating the
13 14	
13 14 15	The final theme covered refugees' experiences of accessing healthcare and navigating the
13 14 15 16	The final theme covered refugees' experiences of accessing healthcare and navigating the healthcare system in their host country. While refugees' experiences of healthcare were not a
13 14 15 16 17	The final theme covered refugees' experiences of accessing healthcare and navigating the healthcare system in their host country. While refugees' experiences of healthcare were not a key concept in all of the included studies, it was explored in several of them (see Tables 3 and
13 14 15 16 17 18	The final theme covered refugees' experiences of accessing healthcare and navigating the healthcare system in their host country. While refugees' experiences of healthcare were not a key concept in all of the included studies, it was explored in several of them (see Tables 3 and 4). Refugees can face many barriers when trying to access healthcare, including difficulties in
13 14 15 16 17 18 19	The final theme covered refugees' experiences of accessing healthcare and navigating the healthcare system in their host country. While refugees' experiences of healthcare were not a key concept in all of the included studies, it was explored in several of them (see Tables 3 and 4). Refugees can face many barriers when trying to access healthcare, including difficulties in understanding how to navigate foreign health systems[26], stereotyping, cultural issues,

1	Persson and Gard[19] found that expectations of a multidisciplinary pain rehabilitation
2	program were mainly positive and expressed in terms of trust and hope in the professionals as
3	rehabilitation experts. Both positive and negative healthcare experiences were expressed by
4	participants in a study of Muslim women from migrant backgrounds in Sweden[16]. Positively,
5	there were reports of knowledgeable care providers who performed careful examinations.
6	However, other participants reported negative experiences, including ineffective treatment and
7	an impression of not having access to available treatment[16].
8	
9	While this review focused on physiotherapy competencies, the need for a multi-disciplinary
10	approach to rehabilitation was recognised[19,20,28]. Persson and Gard[19] advocated that a
11	multi-disciplinary approach is key to the rehabilitation of survivors of torture. Similarly, Zander
12	et al.[20] highlighted the importance of multi-disciplinary collaboration with the patient to
13	overcome difficulties identifying and meeting their needs. Treatment interventions reported in
14	the literature included physical activity[19,20]; pain management[19,20,25]; cognitive
15	behavioural therapy[16] and body awareness therapy[18,25]. Implications for practice drawn
16	from the findings of this scoping review are displayed in Table 5. These practice points can be
17	used to inform the development of a competency profile for physiotherapists working with
18	refugees.
19	
20	This review has highlighted the limited amount of literature describing competencies for
21	physiotherapists working with refugees and the need for more studies in this area. To improve

22 the evidence base, there is a need for experimental studies which evaluate treatment

approaches and physiotherapy interventions for refugees. Studies are also needed which
compare approaches and highlight the considerations needed for different cohorts of refugees.
Both quantitative studies which measure the outcomes of interventions and qualitative studies
that explore refugees' experiences of physiotherapy are warranted. There is also a need to
evaluate educational programmes which aim to develop the competencies of physiotherapists
working with refugees to investigate whether they have an effect on physiotherapists'
behaviours and ultimately patient outcomes.

**Table 5:** Implications for practice and suggested competencies for physiotherapists working with refugees.

#### Implications for practice

- Physiotherapists should be aware of the complex physical, mental and social problems which can contribute to poor health outcomes for refugees and impede their social integration.
- A significant proportion of refugees have been subject to torture (physical or psychological) which can have long-term consequences for their physical and mental health.
- When developing treatment plans for this cohort, physiotherapists should take general health, torture, depression, stress, posttraumatic stress disorder, anxiety, migration history, social support, and socioeconomic status into consideration.
- Chronic pain is common in refugees, especially those who have experienced trauma and/or torture, and can have a significant impact on both physical and emotional well-being.
- Treatment plans should be tailored to the individual and a biopsychosocial approach that includes physical, psychological and socialcontextual factors is needed to assess the total experience of pain.
- Refugees can have complex mental health needs and may present with PTSD, anxiety and/or depression.
- Physiotherapists should be cognizant that health consultations can be a source of anxiety for refugees and employ appropriate strategies to mitigate for this.

- Physiotherapy interventions for patients with mental health issues can include psychoeducation about PTSD, breathing exercises, grounding exercise, basic body awareness therapy, mindfulness training, physical training, relaxation massage and cognitive behavioural training.
- Physiotherapists should be aware of the range of barriers that refugees can face to accessing care. Cultural barriers, stereotyping, communication difficulties and health professionals' lack of cultural awareness can be difficulties experienced by refugees.
- Physiotherapists must be aware of the influence that culture can have on attitudes concerning health, disability and the role of health professionals. They should recognise the influence of culture on functional activities and be sensitive to each individual's religious beliefs, norms and values.
- Physiotherapists should be conscious of their own cultural background and how it may affect their responses to and care of patients in pain.
- To provide appropriate care for refugees, it is essential that physiotherapists have strong, culturally competent communication skills.
- Professional interpreters should be used when there are language barriers.
- Difficulties in understanding how to navigate foreign health systems, stereotyping, cultural issues, poor understanding/awareness of available services, practical considerations and communication difficulties are barriers commonly faced by refugees when trying to access healthcare.

• Treatment interventions reported in the literature included physical activity, pain management, cognitive behavioural therapy (CBT)

and body awareness therapy (BAT).

1 Limitations

2

3	There are some limitations of this scoping review that are worth noting. We were unable to
4	access the full-text articles for 2 studies even though efforts were made to source the articles
5	from other libraries and to contact the authors. The heterogeneity of the included studies made
6	it challenging to draw universal themes from the data. Thus, the conclusions made in this article
7	are at a high (rather than specific) level. We were unable to provide recommendations for
8	physiotherapy competencies specific to different contexts and cohorts of refugees. The
9	exclusion criteria for this study meant that studies related to professions other than
10	physiotherapy or to cultural groups other than refugees or migrants were excluded. Thus,
11	relevant information that may inform the competency profile for physiotherapists working with
12	refugees may have been missed.
13	
13 14	Scoping reviews have inherent limitations because the focus is to provide breadth rather than
	Scoping reviews have inherent limitations because the focus is to provide breadth rather than depth of information in a particular topic[39]. Only the reference lists of selected studies were
14	
14 15	depth of information in a particular topic[39]. Only the reference lists of selected studies were
14 15 16	depth of information in a particular topic[39]. Only the reference lists of selected studies were reviewed therefore it is possible that relevant articles may have been missed. Additionally,
14 15 16 17	depth of information in a particular topic[39]. Only the reference lists of selected studies were reviewed therefore it is possible that relevant articles may have been missed. Additionally, because the aim of a scoping review is to map the evidence produced in a given area rather
14 15 16 17 18	depth of information in a particular topic[39]. Only the reference lists of selected studies were reviewed therefore it is possible that relevant articles may have been missed. Additionally, because the aim of a scoping review is to map the evidence produced in a given area rather than seek out the best available evidence to answer a specific research question, there was no
14 15 16 17 18 19	depth of information in a particular topic[39]. Only the reference lists of selected studies were reviewed therefore it is possible that relevant articles may have been missed. Additionally, because the aim of a scoping review is to map the evidence produced in a given area rather than seek out the best available evidence to answer a specific research question, there was no methodological quality assessment of the included articles[9,40]. However, care was taken to

22 be screened.

23	
24	Conclusion
25	
26	This paper aimed to summarise core competencies for physiotherapists working with refugees
27	from peer-reviewed and grey literature. While this review focused on physiotherapy
28	competencies, there was recognition of the importance of a multi-disciplinary approach to
29	rehabilitation for this cohort. The main competencies detected are: 1) an understanding of
30	refugee health, 2) administration of culturally competent care, and 3) knowledge of healthcare
31	systems as they relate to refugees. These are, however, rather vague and non-specific and
32	signal the need for further examination of physiotherapy competencies to provide the highest
33	quality of care to this growing population. The limited amount of literature describing
34	competencies for physiotherapists working with refugees highlights a need to develop a
35	competency profile for this profession and to explore how best to teach this in higher education
36	institutes. It is our opinion that this review can be used to inform such a competency profile.
37	
38	Ethics approval: N/A (scoping review)
39	
40	
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