

HEALTH EVIDENCE NETWORK SYNTHESIS REPORT 46

How do variations in definitions of “migrant” and their application influence the access of migrants to health care services?

Ailish Hannigan | Patrick O'Donnell | Mary O'Keeffe | Anne MacFarlane



**World Health
Organization**
REGIONAL OFFICE FOR **Europe**

This HEN – the Health Evidence Network – synthesis report is the result of a cross-divisional effort in the Regional Office between the Public Health Aspects of Migration in Europe (PHAME) project of the Migration and Health programme in the Division of Policy and Governance for Health and Well-being and the Evidence and Information for Policy-making Unit in the Division of Information, Evidence, Research and Innovation.

The Health Evidence Network

HEN is an information service for public health decision-makers in the WHO European Region, in action since 2003 and initiated and coordinated by the WHO Regional Office for Europe under the umbrella of the European Health Information Initiative (a multipartner network coordinating all health information activities in the European Region).

HEN supports public health decision-makers to use the best available evidence in their own decision-making and aims to ensure links between evidence, health policies and improvements in public health. The HEN synthesis report series provides summaries of what is known about the policy issue, the gaps in the evidence and the areas of debate. Based on the synthesized evidence, HEN proposes policy options, not recommendations, for further consideration of policy-makers to formulate their own recommendations and policies within their national context.

The Health Evidence Network and the Migration and Health programme of the WHO Regional Office for Europe

At the fifth meeting of the WHO European Advisory Committee on Health Research (EACHR), which took place in July 2004, EACHR agreed to form a subcommittee on migration and health to review the strategic framework of the work of WHO Regional Office for Europe on migration and health, and to commission a series of HEN synthesis reports targeting policy-makers. In 2015, three HEN reports were published, tackling the challenges of three distinct migrant groups: irregular migrants, labour migrants, and refugees and asylum seekers. In 2016, three new HEN reports are being published, aimed at synthesizing the available evidence in order to improve policy-makers' understanding of the following specific issues related to migration: maternal health, mental health and the public health implications of the different definitions available for migrants.

The various HEN reports on migration and health have been used as the evidence base for the development of the Strategy and Action Plan for Refugee and Migrant Health in the WHO European Region.

Health Evidence Network synthesis report **46**

How do variations in definitions of “migrant” and their application influence the access of migrants to health care services?

Ailish Hannigan | Patrick O’Donnell | Mary O’Keeffe | Anne MacFarlane

Abstract

Variations in definitions used for “migrant” and for different groups of migrants in different areas can affect health system policies and migrant access to health care. This systematic review explored this issue using evidence from academic peer-reviewed and grey literature in 169 publications in English or Russian from 2010 to 2015 that focused on primary care or both primary and secondary care (including screening services and emergency departments). There is currently no universally accepted definition for migrant at an international level and the heterogeneity of definitions used limits comparability of routinely collected data. Legal status was one of the most significant factors determining access to affordable and adequate health services for migrants in a country. Identifying preferred terms for migrants, seeking consensus on important migration-related variables for collection across health information systems and progressing towards universal access to health care across the WHO European Region are recommended as policy options.

Keywords

EMIGRANTS AND IMMIGRANTS, HEALTH SERVICES ACCESSIBILITY, HEALTH SERVICES NEEDS AND DEMAND, HEALTH CARE DISPARITIES, TRANSIENTS AND MIGRANTS

Suggested citation

Hannigan A, O’Donnell P, O’Keeffe M, MacFarlane A. How do variations in definitions of “migrant” and their application influence the access of migrants to health care services? Copenhagen: WHO Regional Office for Europe; 2016 (Health Evidence Network (HEN) synthesis report 46).

Address requests about publications of the WHO Regional Office for Europe to:

Publications

WHO Regional Office for Europe

UN City, Marmorvej 51

DK-2100 Copenhagen Ø, Denmark

Alternatively, complete an online request form for documentation, health information, or for permission to quote or translate, on the Regional Office website (<http://www.euro.who.int/pubrequest>).

ISSN 2227-4316

ISBN 978 92 890 5159 0

© World Health Organization 2016

All rights reserved. The Regional Office for Europe of the World Health Organization welcomes requests for permission to reproduce or translate its publications, in part or in full.

The designations employed and the presentation of the material in this publication do not imply the expression of any opinion whatsoever on the part of the World Health Organization concerning the legal status of any country, territory, city or area or of its authorities, or concerning the delimitation of its frontiers or boundaries. Dotted lines on maps represent approximate border lines for which there may not yet be full agreement.

The mention of specific companies or of certain manufacturers' products does not imply that they are endorsed or recommended by the World Health Organization in preference to others of a similar nature that are not mentioned. Errors and omissions excepted, the names of proprietary products are distinguished by initial capital letters.

All reasonable precautions have been taken by the World Health Organization to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either express or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall the World Health Organization be liable for damages arising from its use. The views expressed by authors, editors, or expert groups do not necessarily represent the decisions or the stated policy of the World Health Organization.

CONTENTS

▶ Abbreviations.....	iv
▶ Contributors.....	v
▶ Foreword.....	vii
▶ Summary.....	ix
▶ 1. Introduction.....	1
▶ 1.1. Background.....	1
▶ 1.2. Methodology.....	2
▶ 2. Results.....	5
▶ 2.1. Definition of a migrant.....	5
▶ 2.2. Heterogeneity of definitions in the included studies.....	6
▶ 2.3. How are access to and delivery of health care to migrants shaped by heterogeneity of definitions and their application?.....	8
▶ 2.4. How are collection and analyses of migrant health data affected by heterogeneity of definitions and their application?.....	15
▶ 3. Discussion.....	18
▶ 3.1. Strengths and limitations of the review.....	18
▶ 3.2. Impact of definition use on health care access and public health policy.....	20
▶ 3.3. Policy options and implications.....	23
▶ 4. Conclusions.....	24
▶ References.....	25
▶ Annex 1. Search strategy.....	47

ABBREVIATIONS

EMN	European Migration Network
EU	European Union
HEN	Health Evidence Network
IOM	International Organization for Migration
MIPEX	Migrant Integration Policy Index
OECD	Organisation for Economic Co-operation and Development
SOPHIE	Evaluating the Impact of Structural Policies on Health Inequalities and their Social Determinants, and Fostering Change (project)
UNHCR	United Nations High Commissioner for Refugees



CONTRIBUTORS

Authors

Ailish Hannigan
Associate Professor of Biomedical Statistics, Graduate Entry Medical School,
University of Limerick, Limerick, Ireland

Anne MacFarlane
Professor of Primary Healthcare Research, Graduate Entry Medical School,
University of Limerick, Limerick, Ireland

Patrick O'Donnell
Clinical Fellow in Social Inclusion, Partnership for Health Equity, Graduate Entry
Medical School, University of Limerick, Limerick, Ireland

Mary O'Keeffe
Research assistant, Graduate Entry Medical School, University of Limerick,
Limerick, Ireland

External peer reviewers

Heiko Hering
Senior Public Health Officer, Public Health Section, Division of Programme Support
and Management, United Nations High Commissioner for Refugees, Geneva,
Switzerland

Kristina Touzenis
Head, International Migration Law Unit, International Organization for Migration,
Geneva, Switzerland

Jacqueline Weekers
Senior Migration Health Policy Advisor, International Organization for Migration,
Migration Health Division, Geneva, Switzerland

WHO Regional Office for Europe

Division of Policy and Governance for Health and Well-being

Santino Severoni, Migration and Health programme

Sara Barragán-Montes, Migration and Health programme

Rocío Zurriaga-Carda, Migration and Health programme

Health Evidence Network (HEN) editorial team

Claudia Stein, Director

Tim Nguyen, Editor in Chief

Ryoko Takahashi, Series Editor

Jennifer Piazza Brandan, Consultant

Jane Ward, Technical Editor

The HEN editorial team is part of the Division of Information, Evidence, Research and Innovation, at the WHO Regional Office for Europe. HEN synthesis reports are commissioned works that are subjected to international peer review, and the contents are the responsibility of the authors. They do not necessarily reflect the official policies of the Regional Office.



FOREWORD

We live in an increasingly diverse world in which migration is both a current issue and one for the years to come. The growth in migrant numbers arriving in Europe creates challenges that require a rapid humanitarian response and put pressure on health systems.

To address this priority, the WHO Regional Office for Europe established the Public Health Aspects of Migration in Europe (PHAME) project in 2012 with the financial support of the Ministry of Health of Italy, which is developing into a programme in 2016 with the aims of (i) providing ad hoc technical assistance to Member States of the WHO European Region, (ii) strengthening health information and available evidence on this, (iii) promoting advocacy and sharing of information among Member States and partners, and (iv) supporting migration-sensitive health policy development. The overall PHAME programme objectives would be to strengthen health system capacities in order to meet the health needs of mixed influxes of refugees and migrants, and of host populations; promote immediate health intervention; ensure migrant-sensitive health policies; improve the quality of the health services delivered; and optimize use of health structures and resources in host countries.

A high level meeting to discuss strengthening of cooperation between countries and regions brought together 50 countries from three different regions and a great diversity of United Nations agencies and international organizations in November 2015. The outcome document, “Stepping up action on refugee and migrant health. Towards a WHO European framework for collaborative action”, summarized the policy and strategic implications of the public health priorities, challenges and needs identified through the meeting discussions for European national health policies and systems.

It has often been noted that the health of refugees and migrants is generally similar to that of their host populations. However, the physical and psychological effects of leaving their home countries and the long arduous journeys they undertake increase their overall health risks and may worsen their health conditions.

In 2014, the European Advisory Committee on Health Research recommended that the Secretariat commission a series of Health Evidence Network (HEN) synthesis reports with the aim of supporting public health policy-makers to use the best available evidence

in their own decision-making. The HEN synthesis reports summarize what is known about the policy issue, the gaps in evidence, the areas of debate and the policy options.

In 2015, three HEN synthesis reports were published focusing on access to and quality of health services among irregular migrants, labour migrants, and refugees and asylum seekers. These reports identified the need for additional research and evidence, the development of evidence-informed policies on migrant health and new approaches to improving migrants' health outcomes. The HEN reports built an evidence base for the development and implementation of the strategy and action plan on refugee and migrant health in the WHO European Region, to be submitted for Member States' approval at the 66th session of the WHO Regional Committee for Europe.

The HEN series on refugee and migrant health now focuses on specific issues including maternal health, mental health and the definitions of migrants in the context of public health, which will provide decision-makers with health system policy options on migrant health to support them in working towards better health for migrants in the WHO European Region.

Zsuzsanna Jakab
WHO Regional Director for Europe



SUMMARY

The issue

There is increasing attention in the public domain, health service sector and academic communities as to how variations in the definitions used for different groups of migrants in different areas affect health system policies and access to health care for migrants. This variation and its consequences are problematic given WHO policies promoting universal health coverage for all migrants in the WHO European Region and are related to the multisectoral nature of migration. Intersectoral cooperation is needed in designing migration policies to ensure coherence among definitions and addressing both health system capacity and the social determinants of health. Systematic analysis of the following three issues is required to underpin such cooperation and policy-making: the heterogeneity of terms in use, how the application of definitions influences migrant access to and utilization of health care, and how the application of definitions influences collection of health information data and impacts provision of an evidence base to inform good public health policy-making.

The synthesis question

The objective of this report is to synthesize findings from a systematic review of the available academic and grey literature in English and Russian to address the following question: “How do variations in definitions of ‘migrant’ and their application influence the access of migrants to health care services?”

Types of evidence

Evidence was obtained from analysis of 169 publications in English or Russian from 2010 to 2015 that focused on primary care or both primary and secondary care (including screening services and emergency departments): 148 (88%) based on empirical research, eight glossaries and 13 factual accounts of health care entitlements. The publications contained data collected from 1990 to 2015 and covered 39 of the 53 Member States of the WHO European Region.

Results

There is no universally accepted definition for migrant at an international level. This is reflected in the empirical studies included in this review, with a wide range of terms used to describe the study population, including country of origin, length

of stay, legal status, citizenship, residency, reason for migration, first language and parental country of birth. The terms migrant and immigrant are used as broad overarching terms and are often used interchangeably without source references. The terms refugee and asylum seeker are more likely to be defined with international standardized references. Of the 148 empirical studies, 32% provided no clear definition of their study population; 20% either gave a source for their definition or used a country-specific reference; and the remaining 47% used project-specific working definitions, with considerable heterogeneity in the definitions used for the same group across studies, overlapping definitions for different groups and terminology used interchangeably even within the same study.

Legal status emerged as one of the most significant factors in the degree of access to affordable and adequate health services offered to migrants in a country. Even for migrants with legal status, some Member States of the WHO European Region provide the same access as for the general population, while others restrict access depending on the length of stay and type of residency permit. Eligibility to health care for asylum seekers also varies widely, with some Member States providing the same access as for the general population while others providing only emergency care. Entitlement to health care for asylum seekers also varies by age of the asylum seeker, time taken to process the application, and their income or assets.

The heterogeneity of definitions used limits the comparability of routinely collected data in health information systems across the WHO European Region. Without common criteria for sampling and inclusion of migrants, comparison of migrant health across Member States is challenging; yet issues such as disease surveillance, identifying subgroups of migrants at risk of poorer health outcomes and targeting public health interventions can only be tackled with a good evidence base.

Policy considerations

Effective policy-making requires a good evidence base, and further research areas that would provide such a base include (i) analysis of grey literature and national legislation from WHO European Region Member States with languages other than English and Russian to clarify the heterogeneity of legal frameworks; (ii) assessment of the impact of austerity policies and the increasing number of migrants; (iii) examination of the issue of noncommunicable diseases in migrant populations and the impact on public health of ignoring these; and (iv) identification of interventions that will have impact on removing barriers to access and delivery of health care for multiple migrant groups, irrespective of their definition or of movement of individuals between groups.



The main policy options suggested from the review for consideration by the WHO European Region Member States are:

- development of a list of preferred terms relating to migrants based on a shared understanding of these terms;
- involvement of migrants in the development of intersectoral systems that collect sensitive data on migration and for migrant-sensitive health services;
- initiation of routine collection in national health information systems of data on an agreed set of variables relating to migration, such as country of birth, length of residence, legal status, purpose of migration and previous country of residence;
- monitoring and analysis of data on access to and delivery of health care to migrants based on these migration-related variables and social determinants of health;
- provision of health care, free of charge, for the diagnosis and treatment of communicable diseases, including primary and emergency health care; and
- incorporation of the needs of migrants into all aspects of health services and provision for all migrants of the same access to health care as for the general population, regardless of the definition used.





1. INTRODUCTION

1.1. Background

Migration has always happened, being driven by a variety of reasons including work, education, family reunification and fleeing from disasters and conflict. Because migration is studied in a number of disciplines, including geography, history, law and health sciences, the concept of “migrant”, and the terminology used to describe migrants, is very diverse. A major problem in sourcing evidence to support public health policies is related to the wide variation in definitions that have been developed and their inconsistent use.

Migration into the WHO European Region accounted for nearly 70% of population growth between 2005 and 2010, and 73 million migrants were estimated to be living in the Region in 2015, making up nearly 8% of the total population (1). Over 589 000 refugees and migrants crossed the Mediterranean Sea to reach Europe in 2015 alone, and 3095 died trying to do so (2). The health problems of these refugees and migrants are similar to those of the resident populations of the WHO European Region; however, the dangerous journeys undertaken can have an impact on their health and resilience and worsen the health of those with chronic diseases (3). In line with the framework of World Health Assembly resolution 61.17 in 2008 (4), the attention of Member States should be focused on ensuring equitable access to health promotion, disease prevention and care for migrants (5). This emphasis on equitable access, and the specific importance of universal health coverage, was regarded as essential for public health responses in 2008, well before the current large increase in migration flow into the WHO European Region (6).

The language and terms that are used to define migrants have become increasingly significant in both the public domain and the media, particularly intensifying sensitivities concerning people who are moving from their usual country of residence *freely* (e.g. migrating for work or education) and people who are moving because they are *forced* (e.g. seeking protection from natural disasters, conflict or persecution). There are complex debates underway about the legal and social contexts that shape definitions and their use. For example, the United Nations High Commissioner for Refugees (UNHCR) emphasizes that refugees are a separate category to migrants because they are fleeing persecution and require international protection (7). Others question this distinction, emphasizing the multiple factors that can force people to migrate other than conflict, such as poverty, water shortages, climate change and pollution (8).

Variations in definitions used for migrant groups have significant implications from a public health perspective as they can affect entitlements to health care in different countries; for example, provision of health screening for infectious diseases and chronic conditions varies across countries by migrant subgroups (9). Irregular migrants may not be entitled to any care in some countries and to emergency care only in others (10). Even when migrants are officially eligible for health care, there is evidence that they can still experience challenges in accessing health care services, for example if out-of-pocket payments are required. Service providers equally report challenges in delivering care to them, for example if professional interpreting services are lacking (10–15).

The heterogeneity of concepts and definitions of migrant is also a barrier to advancing the evidence base for public health care policies (16,17). Comparability of data routinely collected in health information systems and for public health research is limited because of the diversity of terminology in use across studies (17). Current categorizations of migrants (and ethnic minorities) in public health research tend to be crude because of the interplay between the researcher’s understanding of the substantive matter (e.g. what is a migrant?) and restrictions imposed by the available data (e.g. what kind of information is being gathered to explore “migrant health” issues?) (18).

This review systematically examines the implications of heterogeneity in definitions used for migrant groups for two aspects: entitlement and access to health care in different countries in accordance with legal frameworks and health system governance and the evidence base regarding the specific needs of different migrant groups that could be used to improve access to health care. This review uses the term migrant as a broad category encompassing all who migrate from their usual country of residence for any reason, forced or voluntary, in order to address the question: “How do variations in definitions of the term ‘migrant’ and their application influence the access of migrants to health care services?”

1.2. Methodology

1.2.1. Sources for this review

Six databases (Academic Search Complete, Cochrane Library, EconLit, Medline, Social Sciences Full Text and Web of Science) were searched for empirical research, published between 2005 and 2015, on access and delivery of health care to migrants in Member States of the WHO European Region. Studies published in either English



or Russian were included. Russian was chosen as well as English since almost 300 million people in 16 of 53 countries of the WHO European Region speak Russian as either their native language or on a regular basis, and publications originating from these countries are often published only in Russian (19). Non-empirical research, editorials and commentaries were excluded.

Searches of the following 11 websites were conducted to identify relevant empirical research, glossaries of definitions and information on health care entitlements from the grey literature (see Annex 1): European Commission Directorate-General for Migration and Home Affairs, European Observatory on Health Systems and Policies, European Union (EU) Agency for Fundamental Rights, the European Website on Integration, Eurostat (the EU Statistical Office), Health Evidence Network (HEN), International Organization for Migration (IOM), Migrant Integration Policy Index (MIPEX), Organisation for Economic Co-operation and Development (OECD), the SOPHIE project (Evaluating the Impact of Structural Policies on Health Inequalities and their Social Determinants, and Fostering Change) and UNHCR.

1.2.2. Data extraction

Annex 1 outlines the databases and websites searched and the review methodology, based on the PRISMA statement (20).

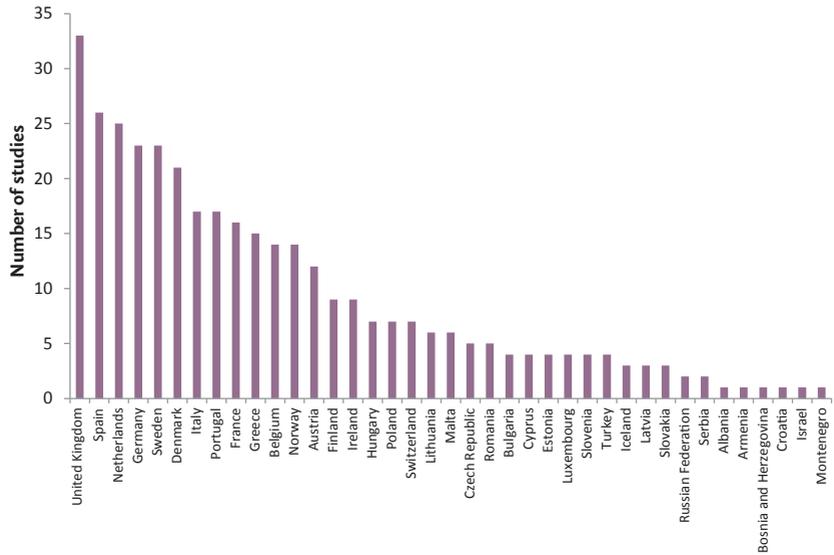
Initially, 460 relevant publications were identified, containing data collected from 1990 to 2015. These were reduced to 169 published between 2010 and 2015 and focusing on primary care or both primary and secondary care (including screening services and emergency departments) (11,13,16,21–186); 148 (88%) were based on empirical research, eight were glossaries and 13 were factual accounts of health care entitlements. Almost half (49%) of the 148 empirical studies on primary care also included information on secondary care settings. The level of evidence from the 148 studies based on empirical research was assessed as moderate (see Annex 1).

Data extracted from the 169 studies included the time period of the study, geographical location, named migrant group, definition of the group (if given), study design, aims and objectives, setting (primary and/or secondary care), information on entitlement to health care, and any recommendations or comment by the authors on the use of definitions of migrants.

Data were found for 39 of the 53 countries in the WHO European Region (Fig. 1), with the following countries not represented: Andorra, Azerbaijan, Belarus,

Georgia, Kazakhstan, Kyrgyzstan, Monaco, the Republic of Moldova, San Marino, Tajikistan, the former Yugoslav Republic of Macedonia, Turkmenistan, Ukraine and Uzbekistan.

Fig. 1 Distribution of studies included in the review across the WHO European Region





2. RESULTS

2.1. Definition of a migrant

An analysis of glossaries of definitions from the grey literature revealed no universally accepted definition for migrant at an international level, with definitions varying by length of stay in a country, documentation/residency or reason for migration. The IOM has acknowledged that no universally accepted definition exists and has stated that “the term migrant was usually understood to cover all cases where the decision to migrate was taken freely by the individual concerned for reasons of ‘personal convenience’ and without intervention of an external compelling factor” (168). Within organizations such as the United Nations, definitions have changed over time. In 1953, the United Nations *Recommendations on statistics of international migration* defined permanent immigrants as “non-residents (both nationals and aliens) arriving with the intention to remain for a period exceeding one year”; the revised Recommendations in 1998 removed the reference to length of stay and defined an international migrant as “any person who changes his/her country of usual residence” (172). The word alien, meaning not a citizen, is commonly used in national legislation dealing with citizenship and residence (e.g. the 1935 Alien Act in Ireland or more recently the 1998 Alien Act in Estonia). The UNHCR distinguishes between the causes of migration and refers to migrants only in the context of those who choose to move and are not forced to move because of a direct threat of persecution or death (170,173). At a European level, the European Migration Network (EMN) (see Case study 1) refers to residency and length of stay, defining a migrant in the EU context either as someone who establishes their usual residence in an EU Member State for at least 12 months, having previously been usually resident in another Member State or non-EU country, or as someone having previously been usually resident in a Member State who ceases to have their usual residence in that State for a period of at least 12 months (171).

Case study 1. An intervention to standardize migration-related terms in use across the EU and share information on migration

A common EU asylum and migration policy requires the exchange of information across Member States on all aspects of migration and this means that data need to be comparable and terms used consistently. The EMN was established in 2008 with the main objective of improving the consistency and comparability of information on migration. The development of a glossary of terms for



Of the 148 empirical studies, 48 (32%) provided no clear definition of the study population and 30 (20%) referenced the source of their definition (e.g. the UNHCR, IOM, EU) or used country-specific references. The remaining 70 studies (47%) used project-specific working definitions, the majority (71%) of which included country of origin or place of birth in their definition of the study population. A minority of project-specific working definitions also used length of stay (17%), parental country of birth (16%), legal status (10%), residency (9%), reason for migration (7%), citizenship (6%) and first language (4%) in their definition of the study population..

There was considerable heterogeneity in the definitions used for the same term across studies, along with overlapping definitions for different terms and terms used interchangeably even within the same study. Examples include migrants and immigrants both being defined as people residing outside their country of birth and the terms often being used interchangeably within studies; a definition of migrant that included other defined groups such as refugees and asylum seekers; and the terms undocumented, irregular and illegal being used interchangeably. The use of the term undocumented or irregular migrant rather than illegal migrant has been recommended by the United Nations since 1975 (169). More recently, there have been calls from the Council of Europe, the European Parliament and the European Commission to stop using the term illegal migrant when referring to irregular/undocumented migrants, given that “no human being is illegal” (169). This HEN report will use the term irregular (accepting that this is synonymous with undocumented).

The main focus of some studies was on ethnic or cultural minorities, which may include migrants who become part of established ethnic minorities in the countries they migrate to. It should be noted, however, that not all migrants are from ethnic minority groups and not all those from ethnic minority groups are migrants.

Some studies deliberately opted to use a broad definition (e.g. all persons residing outside their country of birth) in an attempt to answer the question of how migration status affects health and health service use of all migrants (24,174). Others, including the three 2015 HEN reports, acknowledged the lack of consensus on definitions and deliberately opted to use project-specific working definitions (10,14,15). As a migrant’s circumstances change, he or she can also move between definitions, for example

- an asylum seeker becoming a refugee once the application has been approved;
- an asylum seeker becoming an irregular migrant if the application is denied (33,66,78);

- a migrant losing legal status and becoming irregular because of a change in financial circumstances (139); or
- a migrant who is given access to health care based on a defined length of stay and then extends that stay and loses access rights (50).

The change from one defined group to another was noted in some studies and was usually based on self-report of change in status by a migrant, rather than a longitudinal study by the researchers of the same migrant over time.

Empirical studies focusing on asylum seekers and/or refugees were more likely to provide a reference for their definition than studies of other groups. In 18 of the 29 empirical studies (62%) focusing on asylum seekers and/or refugees such a reference was provided, compared with only 10% of the other empirical studies. The most common reference was to the UNHCR definition of an asylum seeker as someone who is seeking international protection or a refugee as someone who meets eligibility criteria for protection.

The UNHCR, IOM and EMN all make reference to the Geneva Convention Relating to the Status of Refugees (1951) in their definitions of refugee (187). However, the EMN defines an asylum seeker as a person who has made an application for protection under the Geneva Convention only, while the IOM uses a broader definition of an application for protection under relevant international and national instruments (e.g. a state can decide to grant asylum at its own discretion). The HEN report on the health status of refugees and asylum seekers observed that studies of refugees and/or asylum seekers commonly referenced a definition but some studies used the term refugee to denote refugee and asylum seeker, while others used the terms refugee and asylum seeker interchangeably or conflated the two (14).

2.3. How are access to and delivery of health care to migrants shaped by heterogeneity of definitions and their application?

The review has provided information on how placing migrants into a defined subgroup can have an impact on their entitlement to affordable and adequate health services and their ability to access these services. The effect of heterogeneity of definitions will be discussed in this section in terms of three categories that cover all types of migrant identified in this review and that were used in the recent



MIPEX study (186): migrants with legal status (a broader category than just labour migrants), those formally applying for legal status (asylum seekers) and those without legal status (irregular migrants). It will go on to discuss barriers that can have an impact on some migrant groups.

2.3.1. Access for migrants with legal status

Legal status emerges as one of the most important current determinants of social security and health care benefits for migrants in a country (84,135,180). If there were true universal health coverage, then migrants would have adequate benefits and their legal definition would not affect their health care. A study in 2014 by the EMN on the policy and practices of migrant access to social security and health care in 25 EU Member States reported that in many of them (Belgium, Czech Republic, Estonia, France, Hungary, Luxembourg, the Netherlands, Portugal, Slovakia, Slovenia, Spain and Sweden), third-country nationals could access health care benefits by providing evidence of any valid residence permit, regardless of the length of stay or type of permit (175). Other EU Member States provided access to health care depending on the type of residence permit, authorization of stay or visa (175); for example, third-country nationals in Bulgaria must have a long-term residence permit. The MIPEX summary of health care entitlements of migrants in 38 countries in 2015 reported wide discrepancies in entitlements for migrants based on legal status (186). Countries such as Belgium, France, the Netherlands, Sweden and Switzerland granted the same entitlements to migrants with legal status as for nationals, while central European countries with few migrants offered only limited entitlements. In the Russian Federation, official policies promoted voluntary medical insurance for migrants with legal status as a way to cover their health care needs (89). In Turkey, foreign nationals with legal status can join the national health insurance scheme only after one year of residence with a residence permit. For the first year of residence, people have to pay themselves for any health services (184).

2.3.2. Access for asylum seekers

Even when a common definition of asylum seeker is used, entitlement of asylum seekers to health care varies widely by country, with some countries, for example France, providing the same entitlements as for nationals and others, for example Estonia, providing emergency care only (182,186). In many countries, entitlements require that asylum seekers remain inside reception centres or designated areas (186). Entitlements can vary depending on the age of the asylum seeker, with some countries (e.g. Iceland, Norway and Sweden) providing the same access to health care services for asylum-seeking children as for children in the general

population (118). Entitlements can also vary by income or assets of the asylum seeker or the length of time taken to process the application for asylum (181). Entitlements can vary during the application process itself; for example in Germany, limited health care is provided in reception centres during the initial period between applying for asylum and formal acceptance of the application (82). Once the application for asylum has been processed and the person is considered an asylum seeker, access is granted to emergency medical care, treatment of painful conditions, vaccinations and care during pregnancy, childbirth and delivery. If asylum is granted, individuals receive a health insurance card and obtain access to health care services in the same way as the general population. Those who have waited four years for their application to be processed are treated in the same way as those who have been granted asylum (82), although this waiting period has increased from one year in 1994–1996 to three years in 1997–2006 and to four years since 2007.

2.3.3. Access for irregular migrants

Migrants can be irregular for a number of reasons (10):

- planning to seek asylum but not yet formally submitted an application;
- application for asylum has failed but deportation avoided;
- application for a residence permit/authorization to stay is still pending or has failed;
- overstayers from an authorized entry;
- loss of residence status through no longer meeting, or breaching, conditions of residence;
- unauthorized entry over national borders; or
- being born to parent(s) without documented status.

A study by the Centre on Migration Policy and Society in the United Kingdom reported on legal entitlements to health care of such irregular migrants in Europe in 2015. There was a legal entitlement to emergency health care in all 28 EU Member States although there was variation in how emergency care was defined and payment might be required in some instances (176). There is evidence of access tied to a variety of preconditions such as minimum duration of stay, proof of identity, destitution or staying in a detention centre (71,80,119,186). A study of migrant workers in the Russian Federation reported that health care was prohibitively expensive for migrants without a residency permit (123). An international aid agency that provides health care to vulnerable populations observed that the majority of their patients were irregular migrants or EU citizens who had lost their legal status in the host country (Case study 2): one in five of the patients reported having been denied access to health care by health care providers in the previous year (148).



Observers for the agency also recorded irregular migrants being refused treatment or reported to the police when they presented for treatment at the emergency departments of public hospitals in Turkey (184).

Case study 2. Impact of heterogeneity of definitions on access to health care of vulnerable migrants

Médecins du Monde (Doctors of the World) is an international aid organization that has been working to improve access to health care and protection for vulnerable populations since 1980. A report by the agency in 2013 (148) presented data on 8412 patients attending its clinics in 14 cities across seven European countries (Belgium, France, Germany, Greece, the Netherlands, Spain, the United Kingdom): 50% were irregular migrants from non-EU countries, 11% were EU citizens who had lost their legal status through lack of financial resources and/or no health care insurance (mostly commonly after three months of residence in the host country) and 23% had requested asylum at any time or planned to do so. Only 5% of those who applied for asylum had been granted refugee status. Of these patients:

- 77% reported at least one barrier in accessing health care, most commonly lack of knowledge or administrative obstacles;
- 20% reported having been denied health care by a health care provider in the past year;
- 81% had no prospect of accessing health care without paying the full cost;
- 52% of patients seen by a doctor had at least one chronic disease;
- 42% of patients seen by a doctor had at least one acute disease; and
- 63% were considered by the physicians as requiring a necessary treatment, defined as "a treatment really needed by the patient to prevent their condition from getting much worse".

The HEN report on the health status of irregular (undocumented) migrants concluded that they mostly have access only to emergency care across the WHO European Region (10). Some EU Member States, however, also provide certain specialist services, including care for infectious diseases such as tuberculosis and HIV, and maternity care. Entitlement also varied by age, with children generally having more extensive entitlements than adults. Eight Member States (Estonia, France, Greece, Italy, Portugal, Romania, Spain and Sweden) give the same health care entitlements to children with irregular status, either with their parents or unaccompanied, as for children who are nationals of that country (176). A large

EU comparative study focused on the way the label of “irregular migrant” impacts on access to and delivery of health care and found that, in the main, health care providers try to adopt a pragmatic approach to ensure that irregular migrants receive some care irrespective of their legal entitlements (48,120). Some services and professionals were reported to treat irregular migrants free of charge, despite legal restrictions, or allowed for flexibility for migrants complying with administrative procedures (120). Service providers did, however, consider that irregular migrants received substandard care because their lack of health insurance inhibited a range of clinical actions including referrals to specialists and laboratory tests (66).

Changing status (e.g. asylum seekers who are denied asylum and become irregular) can also impact on continued access to treatment. A study of asylum seekers with HIV in the United Kingdom in 2015 reported that general practitioners often continued to provide care even when an application for asylum had been refused, but that continued access to secondary care was more challenging, with some asylum seekers losing access to or having to pay for specialist HIV clinics once their application had been refused (78). This study demonstrated a sequence of events affecting access to health-related services that occurred along a timeline related to the definition of the migrant’s status. The European Centre for Disease Prevention and Control reported on interviews with experts in EU Member States on the health needs of irregular migrants and those seeking asylum and how to address them in relation to the prevention and control of communicable diseases (185). One of their recommendations was universal access to health care, free of charge, for the diagnosis and treatment of communicable diseases, including for primary and emergency health care (185).

2.3.4. Health screening of migrants

Health screening of third-country nationals entering a country varies widely by host country, from no mandatory health screening recommended prior to or on arrival in Spain to mandatory screening in Norway for all apart from nationals from the European Economic Area (182). Several countries waive the cost of screening for specific diseases (e.g. tuberculosis and HIV) for refugees and those in need of international protection but screening can lead to exclusion from migration for other categories of migrant (180). For example, those entering Cyprus for employment purposes are screened for tuberculosis, hepatitis B and C, HIV and syphilis, and those who screen positive for any one of these infectious diseases must leave the country (182). All those who require a work permit in the Russian Federation are required to undergo compulsory screening for a number of infectious diseases such as HIV



and tuberculosis (89). In 2015, the Russian Federation expanded the categories of migrants who need to seek work permits to include all those who plan to work for an individual in addition to those working for an organization. In 11 EU Member States (Bulgaria, Cyprus, Czech Republic, Denmark, Estonia, Finland, Lithuania, Luxembourg, Romania, Slovakia and Slovenia), irregular migrants are not entitled to access screening or treatment for any infectious diseases (176).

2.3.5. Changes resulting from austerity policies and increasing number of migrants

There is emerging evidence of recent changes to definitions and their application altering access to and delivery of health care for migrants in the context of austerity in Europe and increasing numbers of migrants (124). A change of legislation in Denmark in 2011, for example, resulted in immigrants residing in Denmark for seven years or more having to pay a charge if they needed to use an interpreter service in primary and secondary care (125). The broad definition of “foreign born” for immigrants in Denmark may not, therefore, identify this potential barrier to health care access for the subgroup who are required to pay for interpreters based on their length of residency. Austerity policies have also meant that entitlements for migrants have been reduced in countries such as Greece, Portugal and Spain (186). The Spanish national health system was characterized by universal access for all citizens and foreigners on Spanish territory until 2012, when legal changes linked rights to health care with social insurance and a “health card”, thus limiting access to health care for irregular migrants (114,122).

With increasing numbers of refugees from the Syrian Arab Republic in Turkey, a new legislative arrangement was put in place in 2014 for these refugees. Under this arrangement, hospital-based medical examinations, treatment bills and medicine cost-sharing by refugees from the Syrian Arab Republic are covered by the Prime Minister’s Disaster and Emergency Management Authority. However, a report by an international aid agency suggested that the length of time taken for this authority to make payments results in pharmacists refusing to supply free medicine to Syrian refugees (184).

2.3.6. Factors influencing delivery of health care to migrants

Even when access is guaranteed under legislation, many barriers have been identified. Language and communication problems and lack of a social network can also act as barriers (10), as can opening hours and distance to services (166). Simple lack of awareness of health service entitlements by migrants and health

providers may also impact on use (15,180). Administrative procedures can prevent migrants from using their entitlements (186), such as the need for documentation or where discretionary decisions are made by service providers, for example on what constitutes an emergency requiring care. Health care providers are often unsure about entitlements of migrants to health services (47,120) and report the need for clear guidelines on entitlements (13). In some countries (Croatia, Germany, Slovenia, Sweden and the United Kingdom), health care providers are required to report irregular migrants to the authorities, and those providing care can be legally sanctioned in countries such as Croatia, Germany, Greece and Turkey (186).

Access to health care, health care use or perceptions of care can also vary by migration-related variables such as country of origin of the migrant (30,42, 52,54,55,58,71,101,109,116,128,136,159,177), reason for migration (180), whether the migrant is accompanied by family members (177,180) and host country (69,159). For example, a study across all EU and OECD countries on indicators of immigrant integration reported that differences between foreign-born and native-born people in self-reported unmet medical needs were observed mostly in central and eastern European countries (e.g. Estonia and Poland) but also in countries that host large numbers of refugees (e.g. Sweden) (177).

2.3.7. Migrant-sensitive health systems

A number of studies have highlighted the importance of migrant-sensitive health systems that aim to consciously and systematically incorporate the needs of multiple subgroups of migrants into all aspects of health services. A study of the views and values of health care providers working in different health care contexts in 16 European countries was carried out to establish what constitutes good practice in health care for all migrants regardless of definition (96). There was general consensus on the need for culturally sensitive health care systems with empowerment of and respect towards migrants. There was also consensus that the health care system should be accessible to migrants on the same terms as for the general population, regardless of migrants' status, and on the importance of recording and monitoring data on migrant health (96). MIPEx described the best health care scenario as one where migrants have the same coverage as nationals in law and in practice, with health care providers informed of these entitlements and allowed to serve all residents. All residents should be able to receive information in various languages and through cultural mediators (186), as language and communication problems and lack of a social network can also act as barriers (10). The involvement of migrants in the development of migrant-sensitive health systems that deliberately and systematically incorporate the needs of migrants into



all aspects of their services has been emphasized by both the European Centre for Disease Prevention and Control and WHO (137,179), with recommendations to use community-based participatory action research methods to focus on topics of importance to migrant communities and to develop culturally sensitive health information systems.

2.4. How are collection and analyses of migrant health data affected by heterogeneity of definitions and their application?

The heterogeneity of definitions used for migrants limits effective comparison of routinely collected data in health information systems across countries and impacts identification of at-risk groups and targeting of public health interventions. For example:

- difficulties in collection of disease surveillance data and identification of at-risk groups impact implementation and evaluation of infectious disease services for migrant populations (e.g. HIV, see Case study 3);
- effective targeting of public health interventions is harder if a broad definition of migrant is used, which can mask or minimize differences between migrant status and health or health use indicators;
- associations between migrant subgroups and social determinants of health are difficult to identify;
- pragmatic project-specific definitions may shape perceptions of migrant groups; and
- reviews of evidence regarding access to and delivery of health care to migrants to support policy recommendations can be limited by definition heterogeneity.

Case study 3. The impact of heterogeneity of definitions on HIV surveillance

HIV is a major public health concern in Europe, with migrant populations representing a significant and growing proportion of reported cases of AIDS and HIV (137). The European Centre for Disease Prevention and Control reported on a literature review and findings from an expert panel on improving HIV data comparability in migrant populations (137). Its report acknowledged that there is no universally accepted definition of a migrant, with the term not used at all in some European countries and in others having different meanings related to country of birth, citizenship, residency and legal status. It was recommended

Case study 3. contd

that surveillance and research studies provide a clear definition of the study population in their reporting; that country of birth was a useful indicator but that data on other migration-related variables should be collected, including length of residence, legal status, purpose of migration and previous country of residence; that such data collection and management should be conducted in a culturally sensitive manner; and that community participation in research design and implementation is critical.

Using a broad definition of migrant or immigrant only (i.e. all persons residing outside their country of birth) can mask or minimize associations between migrant status and health or health use indicators (24). Using a definition that combines two or more defined groups can have a similar effect; for example, use of the IOM definition of forced migration as “a migratory movement in which an element of coercion exists, including threats to life and livelihood, whether arising from natural or man-made causes” resulted in irregular immigrants, who were mostly “former asylum seekers with rejected requests”, being combined as a group with those currently seeking asylum in a study in Switzerland (33). Both groups had lower preventive primary care scores than the host population, but the scores of asylum seekers (mostly unemployed men) were lower than those of the irregular migrants (mostly employed women from Latin America). A HEN report on asylum seekers and refugees (14) reported that few studies acknowledged that asylum seekers and refugees are a heterogeneous group with a wide variety of experiences, backgrounds, health needs and health behaviours, and it identified only one study that systematically sought differences in disease prevalence between the groups (188).

Social determinants of health are cross-cutting predictors of access to and use of health care, such as age (27,39,40,121,177,180), level of education (177,180), gender (30,44,60,63,121,128,136,145,146,159,177,180), first language (21,121,131,150) and ethnicity (11,102,107,116). The importance of data collection and subgroup analysis by migration-related variables and/or social determinants to understand differences in health care access and delivery for the diverse population of migrants was frequently highlighted in the studies reviewed (24,52,64,177–179).

Using a project-specific working definition can be considered pragmatic for the purposes of a study, but it can also shape information and perceptions about migrant health by emphasizing negative aspects and differences between migrant and host populations. For example, in a United Kingdom study about new arrivals and infectious disease screening (31), the researchers deliberately sought information



only about new migrant groups from countries with high disease prevalence, which meant that evidence about new migrants from western European countries was not included in their analysis. In a Norwegian study about community pharmacists' experiences of delivering care to immigrants, the researchers told the pharmacists not to consider immigrants from any northern European country because of ethnic as well as health and societal similarities (35). These studies indicate how project-specific working definitions of migrants may create a false image of subgroups of migrants and mask examples of healthy practices among migrants.

Reviews of the evidence that underpins policy recommendations for access to and delivery of health care to migrants are limited by the heterogeneity of definitions used. A systematic review of health service utilization and barriers to accessing care for asylum seekers (36) used the UNHCR definition of refugees but acknowledged that relevant studies may have been excluded because of incorrect or inexplicit use of the correct legal terminology related to asylum seekers. The variety of definitions used also impacts on the comparability of evidence across reviews; for example, one systematic review of health service utilization and barriers to accessing care for asylum seekers searched for the terms asylum seeker, refugee claimant or forced migrant (36) while another did not include forced migrant as a search term (11). Similarly, a systematic review of migrants' utilization of health care in Europe specifically excluded refugees and asylum seekers (76).

3. DISCUSSION

3.1. Strengths and limitations of the review

This report is not a straightforward review of evidence for interventions for a specific health problem; rather it is an analysis of *terminology in use* in academic and grey literature in order to explore the consequences of this heterogeneity for public health, with attention to access to and delivery of affordable and adequate health care services to migrants. The parameters of the review included:

- the range of terms for migrant that are in use;
- whether a definition was given for the migrant population of interest and whether definitions provided were referenced or not;
- how variations in definitions and their application influenced migrants' access to and utilization of health care;
- how variations in definitions and their applications shaped comparability of data from health information systems and the evidence base on access and delivery of health care to migrants; and
- any interventions that could be identified to standardize terms related to migration in a public health context.

This systematic analysis of the heterogeneity of definitions used for migrants is carried out at a time when there are growing concerns across academic, health care and public domains about issues of migration. A strength of this review is the breadth of English and Russian literature that was systematically searched (initially 406 publications identified), covering 39 of the 53 Member States of the WHO European Region. No published empirical data were available from 14 Member States and data were limited from others, particularly countries in central Asia.

Because the initial search resulted in a very large dataset, decisions were taken to refine the focus of the analysis to ensure that it was conducted in accordance with best practice for systematic reviews in the time available, and evidence was drawn from 169 publications in the academic and grey literature covering the period from 2010 to 2015. Grey literature was restricted to reports with original empirical data, glossaries of terminology and reports with information on eligibility of migrants for health care. There was no chain searching of references in the grey literature or peer-reviewed articles included in the review. There was a specific focus on



literature covering primary health care, although almost half of the 148 empirical studies also included secondary care. Furthermore, no new themes emerged from the data as the analysis progressed.

The level of evidence from included publications was assessed as moderate (189–192). Some quantitative studies were limited by the lack of a comparison group of non-migrants, poor response rates or lack of adjustment for potential confounders. Some qualitative studies were limited by lack of detail on analysis or not critically examining the role of the researcher and any potential biases.

While the majority of the included publications contained information about the terminology in use, comment or analysis around issues of definition was less common. Information on the issue of definitions was only found in English language grey literature and peer-reviewed literature. Some of the available data were therefore not analysed in their original (native) languages and there are complexities involved in the process of comparing translated terms and definitions rather than analysing all data in their original language. In addition, the publications analysed for this review had little specific information on health policies and interventions relating to standardizing definitions on migration across the WHO European Region.

Most studies contained some data regarding barriers to health care access and delivery, and several barriers could be identified as common across migrant subpopulations, including language barriers, cultural differences and gender issues.

The review question relates strongly to the legislative and regulatory framework of each Member State. Examining the academic and grey literature is one important aspect of identifying evidence, particularly with regards to applications and consequences in practice. However, it would be valuable to conduct a systematic analysis of national legislation in the Member States, in their native languages, to be able to map comparable terms and regulations about access to health care.

There was also emerging evidence of the impact of austerity policies and the increasing numbers of migrants into the WHO European Region on eligibility for health care, making affordability another significant, and potentially increasing, barrier to accessing care. While these are clearly highly significant in terms of both the migrants' access to care and the provision of public health care to the whole population, this review did not analyse them in depth as they were not the primary focus of the review question.

3.2. Impact of definition use on health care access and public health policy

3.2.1. Variation in definitions among studies

A major finding from this review is that there is no universally accepted definition of migrant, and policy-makers, practitioners, international agencies and researchers use multiple terms to describe migrant populations.

One third of the included studies did not provide a clear definition of the migrant population of interest. Others used the terms migrant and immigrant as broad terms, often using them interchangeably without source references. Varying definitions in use refer to citizenship, residence, length of stay in the country, country of origin, parental country of birth, legal status or first language. The terms refugee and asylum seeker are more likely to be used with international references. There are some examples of efforts to provide recommendations on preferred terms related to migration, such as those of the EMN, and there are recommendations on avoiding the use of the term illegal to describe irregular migrants.

In the absence of a universally accepted definition of migrant, researchers often take a pragmatic approach and generate a project-specific working definition of the population of interest. While this is helpful for the individual study, it limits comparability across the evidence base.

3.2.2. Implications for access to and delivery of health care

Universal health coverage for all of a country's population regardless of status, an aspiration of WHO, is rarely available in Member States. In the absence of universal health coverage, legal status emerged as the most important determinant of social security and health care benefits for migrants in a country. There can also be a gap between access in terms of legal entitlement and formal access regulations and the actual ability of migrants to access health care. A number of studies called for the development of migrant-sensitive health systems that incorporate the needs of migrants into all aspects of health services and provide the same access to health care for migrants as for the general population. Expert opinion on the prevention and control of communicable diseases also recommends universal free access to health care for the diagnosis and treatment of infectious diseases, including to primary and emergency health care.



Studies that use project-specific working definitions or deliberately focus on only a subsection of a group (e.g. examination of infectious diseases in migrants but only focusing on the subgroup from countries with high disease prevalence) can also shape information and perceptions about migrant health by emphasizing negative aspects or masking examples of healthy practices.

This review shows that, currently, some Member States of the WHO European Region provide the same access to health care for migrants with legal status as for the general population; others restrict access depending on the length of stay and type of residency permit. Classification as an asylum seeker is also an important factor in eligibility to health care, although again what is provided and to whom varies widely, with some Member States providing the same access as for the general population while others provide emergency care only. Care may be restricted to those remaining in reception centres or designated areas or entitlement may vary with the age of the asylum seeker, the time taken to process the application or the income or assets of the asylum seeker. This shows that, even when the definition is clear, the level of access to health differs from country to country, for example as a consequence of the subsidiarity concept and the EU giving sole responsibility for design of health services to individual Member States (193).

Migrants, particularly those who lack documentation, often see the same barriers to health and health care as the more vulnerable sections of the host population (e.g. through poor living conditions, homelessness, unemployment, need to support families and poverty). Such irregular migrants are likely to be excluded from primary and secondary care but may have entitlement to certain services, such as emergency care, care for infectious diseases or child health care. Irregular migrants were reported to be legally entitled to emergency health care in all 28 EU Member States, although there was variation in how emergency care was defined and payment could be required in some instances. There is also evidence of access tied to a variety of preconditions such as minimum duration of stay, proof of identity, destitution or staying in a detention centre. There is some evidence of irregular migrants being denied access to necessary care.

Even when migrants are eligible for health care, access is not guaranteed or without challenges. Migrants are not always aware of their entitlement or are unable to overcome administrative barriers to access care. Health care providers are not always clear about eligibility although most reports indicate that they try to adopt a pragmatic approach, especially in countries with universal health care systems.

However, health care providers in some Member States are required to report irregular migrants and may be legally sanctioned for providing care.

Provision of screening highlights how the application of a definition matters from a public health perspective. Some Member States require compulsory screening for infectious diseases for those who require a work permit. Others deny access if a migrant seeking a work permit screens positive for some infectious diseases. There is also evidence of treatment for infectious diseases being discontinued or requiring payment when a migrant’s status changes (e.g. from asylum seeker to irregular migrant). In resettlement of refugee and migrants, health authorities of the receiving country may require them to go through a full personal medical screening including for chronic diseases.

3.2.3. Implications for information systems and health research

The heterogeneity of definitions used limits the comparability of routinely collected data in health information systems across Member States of the WHO European Region. Without the same criteria for sampling and inclusion of migrants, it is difficult to identify subgroups of vulnerable migrants at risk of poorer outcomes or to target public health interventions across Member States. If health information systems of Member States collected data on a standardized set of variables related to migration (e.g. country of birth, length of residence, reason for migration, legal status and previous country of residence), this would facilitate data comparison and improve the quality of the evidence base for policy-makers. Data on migration-related variables may be regarded as sensitive and there are merits in involving migrants and all relevant sectors in the development of migrant-sensitive health information systems and services.

The use of broad definitions such as migrant and immigrant also suggests that migrant status in itself can be studied and used to explain differences in access to and delivery of health care. Following the WHO *Social determinants of health* (194) and studies with an intersectionality approach (18), it is clear that access to and delivery of health care are influenced by multiple and interacting factors and this needs to be taken into account to advance the public health aspects of migrant health. Agreement on a set of definitions would also support an approach to identify and address both health system gaps and social determinants of health in collaboration with other sectors such as ministries of interior, education, social affairs and employment.



3.3. Policy options and implications

Evidence-informed policy-making can only be achieved with data that allow comparison of evidence across studies and countries. Options for further research to support this aim include:

- analysis of grey literature and national legislation in the national languages of non-English-speaking countries in the WHO European Region;
- update of this review (e.g. after five years) to assess how definitions used for migrant subgroups have related to access and delivery of health care in a period of austerity policies and increasing numbers of migrants;
- examination of the issue of noncommunicable diseases in migrant populations and the impact on public health of ignoring these;
- identification of shared and differential barriers to access and delivery of health care across migrant subpopulations to identify interventions that could impact multiple groups irrespective of definitions; and
- examination of a longitudinal cohort of migrants to assess the interactions between migrants' changing status/definition and their eligibility to and utilization of health care over time.

The main policy options for consideration are:

- development of a list of preferred terms relating to migrants with a shared understanding of these terms to allow cross-comparisons of issues;
- involvement of migrants in cross-sectoral collaborations for the development of health information systems in the Region to collect sensitive data on migration, and for migrant-sensitive health services;
- initiation of routine collection in national health information systems of data on an agreed set of variables relating to migration;
- ongoing monitoring and analysis of data on access to and delivery of health care to migrants across the Region based on migration-related variables and social determinants of health;
- provision of health care, free of charge, for the diagnosis and treatment of communicable diseases, including primary and emergency health care; and
- incorporation of migrant health needs into all aspects of health services and provision of the same access to health care for all migrants as for the general population, regardless of definition.

4. CONCLUSIONS

This report examined the range of definitions used for migrants and migrant subgroups in health care literature. No universally accepted definition of migrant could be identified and, given the complexity of the concept, it may be hard to arrive at one. The analysis clearly indicated how the lack of clarity in definitions had a negative impact on data comparison and could have negative consequences for public perceptions of migrants and for public health policies.

Identifying preferred terms for migrants in the WHO European Region could be helpful, particularly at a time when there is a rapid increase in migrant numbers. Interventions that seek consensus on the routine collection of important migration-related variables across health information systems could also be helpful. Developing these interventions and the collection of sensitive migration-related data will benefit from the involvement of migrants. The best health care scenario for migrants has been described as all migrants having the same coverage as the host population in law and in practice, with health care providers informed of these entitlements and allowed to serve all residents. Clarifying terminology, while valuable, will not necessarily improve migrants' access to health care unless there is more coherence among policies to promote this goal and monitor its implementation across the WHO European Region.



REFERENCES

1. Migration in the European Region. Copenhagen: WHO Regional Office for Europe; 2015 (<http://www.euro.who.int/en/health-topics/health-determinants/migration-and-health/migrant-health-in-the-european-region>, accessed 3 June 2016).
2. Situation update 2: refugee crisis. Copenhagen: WHO Regional Office for Europe; 2015 (http://www.euro.who.int/__data/assets/pdf_file/0010/290179/WHO-Situation-Update-Refugee-Crisis-2-Draft-Version-4-1.pdf?ua=1, accessed 3 June 2016).
3. Migration and health: key issues. Copenhagen: WHO Regional Office for Europe; 2016 (<http://www.euro.who.int/en/health-topics/health-determinants/migration-and-health/migrant-health-in-the-european-region/migration-and-health-key-issues>, accessed 4 July 2016).
4. Sixty-first World Health Assembly. Health of migrants. Geneva: World Health Organization; 2008 (Resolutions and decisions annexes; [http://apps.who.int/gb/ebwha/pdf_files/WHA61-REC1/A61_REC1-en.pdf](http://apps.who.int/gb/ebwha/pdf_files/WHA61/REC1/A61_REC1-en.pdf), accessed 3 June 2016).
5. Global coalition calls for acceleration of access to universal health coverage. Geneva: World Health Organization; 2013 (http://www.who.int/universal_health_coverage/en/, accessed 3 June 2016).
6. Stepping up action on refugee and migrant health. Copenhagen: WHO Regional Office for Europe; 2015 (http://www.euro.who.int/__data/assets/pdf_file/0008/298196/Stepping-up-action-on-refugee-migrant-health.pdf?ua=1, accessed 3 June 2016).
7. Refugees and migrants: frequently asked questions. Geneva: United Nations High Commissioner for Refugees; 2016 (<http://www.unhcr.org/56e95c676.html>, accessed 3 June 2016).
8. Sassen S. Why “migrant” and “refugee” fail to grasp new diasporas. Rome: Open Migration; 2016 (<http://openmigration.org/en/op-ed/why-migrant-and-refugee-fail-to-grasp-new-diasporas/>, accessed 3 June 2016).

9. HUMA network. Are undocumented migrants and asylum seekers entitled to access health care in the EU? A comparative overview in 16 countries. Paris: Médecins du Monde France for the Health for Undocumented Migrants and Asylum seekers Network; 2011 (<http://www.epim.info/wp-content/uploads/2011/02/HUMA-Publication-Comparative-Overview-16-Countries-2010.pdf>, accessed 28 July 2016).
10. De Vito E, de Waure C, Specchia ML, Ricciardi W. Public health aspects of migrant health: a review of the evidence on health status for undocumented migrants in the European Region. Copenhagen: WHO Regional Office for Europe; 2015 (http://www.euro.who.int/__data/assets/pdf_file/0004/289255/WHO-HEN-Report-A5-3-Undocumented_FINAL-rev1.pdf, accessed 3 June 2016).
11. Cheng IH, Drillich A, Schattner P. Refugee experiences of general practice in countries of resettlement: a literature review. *Br J Gen Pract.* 2015;65(632):e171–6.
12. van den Muijsenbergh M, van Weel-Baumgarten E, Burns N, O'Donnell C, Mair F, Spiegel W et al. Communication in cross-cultural consultations in primary care in Europe: the case for improvement. The rationale for the RESTORE FP 7 Project. *Prim Health Care Res Dev.* 2014;15(2):122–33.
13. Priebe S, Sandhu S, Dias S, Gaddini A, Greacen T, Ioannidis E et al. Good practice in health care for migrants: views and experiences of care professionals in 16 European countries. *BMC Public Health.* 2011;11(1):187–98.
14. Bradby H, Humphris R, Newall D, Phillimore J. Public health aspects of migrant health: a review of the evidence on health status for refugees and asylum seekers in the European Region. Copenhagen: WHO Regional Office for Europe; 2015 (http://www.euro.who.int/__data/assets/pdf_file/0004/289246/WHO-HEN-Report-A5-2-Refugees_FINAL.pdf?ua=1, accessed 3 June 2016).
15. Simon J, Kiss N, Łaszewska A, Mayer S. Public health aspects of migrant health: a review of the evidence on health status for labour migrants in the European Region. Copenhagen: WHO Regional Office for Europe; 2015 (http://www.euro.who.int/__data/assets/pdf_file/0003/289245/WHO-HEN-Report-A5-1-Labour-rev1.pdf?ua=1, accessed 3 June 2016).
16. Urquia ML, Gagnon AJ. Glossary: migration and health. *J Epidemiol Community Health.* 2011;65(5):467–72.

- 
17. Zimmerman C, Kiss L, Hossain M. Migration and health: a framework for 21st century policy-making. *PLOS Med.* 2011;8(5): e1001034.
 18. Krasnik A. Categorizations of migrants and ethnic minorities: are they useful for decisions on public health interventions? *Eur J Public Health.* 2015;25(6):907.
 19. Jakab Z. Editorial: Public Health Panorama takes off at the WHO Regional Office for Europe. *Public Health Panorama.* 1(1):3–5 (http://www.euro.who.int/__data/assets/pdf_file/0005/280985/PHP-1_31-07-15-WEB.pdf?ua=1, accessed 13 June 2016).
 20. Moher D, Liberati A, Tetzlaff J, Altman DG. Preferred reporting items for systematic reviews and meta-analyses: the PRISMA statement. *Ann Intern Med.* 2009;151(4):264–9.
 21. Poduval S, Howard N, Jones L, Murwill P, McKee M, Legido-Quigley H. Experiences among undocumented migrants accessing primary care in the United Kingdom: a qualitative study. *Int J Health Serv.* 2015;45(2):320–33.
 22. Tuzcu A, Bahar Z. Barriers and facilitators to breast cancer screening among migrant women within Turkey. *J Transcult Nurs.* 2015;26(1):47–56.
 23. Tesfaye HT, Day J. Health visitors' perceptions of barriers to health and wellbeing in European migrant families. *Community Pract.* 2015;88(1):22–5.
 24. Gazard B, Frissa S, Nellums L, Hotopf M, Hatch SL. Challenges in researching migration status, health and health service use: an intersectional analysis of a south London community. *Ethn Health.* 2015;20(6):564–93.
 25. Ekloef N, Hupli M, Leino-Kilpi H. Nurses' perceptions of working with immigrant patients and interpreters in Finland. *Public Health Nurs.* 2015;32(2):143–50.
 26. Diaz E, Kumar BN, Engedal K. Immigrant patients with dementia and memory impairment in primary health care in Norway: a national registry study. *Dement Geriatr Cogn Disord.* 2015;39(5–6):321–31.
 27. Diaz E, Kumar BN. Differential utilization of primary health care services among older immigrants and Norwegians: a register-based comparative study in Norway. *BMC Health Serv Res.* 2014;14(1):623–33.

28. van Melle MA, Lamkaddem M, Stuiver MM, Gerritsen AAM, Devillé W, Essink-Bot ML. Quality of primary care for resettled refugees in the Netherlands with chronic mental and physical health problems: a cross-sectional analysis of medical records and interview data. *BMC Family Pract.* 2014;15.
29. Teunissen E, van den Bosch L, van Bavel E, van den Driessen MF, van den Muijsenbergh M, van Weel-Baumgarten E et al. Mental health problems in undocumented and documented migrants: a survey study. *Fam Pract.* 2014;31(5):571–7.
30. Straiton M, Reneflot A, Diaz E. Immigrants' use of primary health care services for mental health problems. *BMC Health Serv Res.* 2014;14:341.
31. Seedat F, Hargreaves S, Friedland JS. Engaging new migrants in infectious disease screening: a qualitative semi-structured interview study of UK migrant community health-care leads. *PLOS ONE.* 2014;9(10):1–10.
32. Schouten BC, Schinkel S. Turkish migrant GP patients' expression of emotional cues and concerns in encounters with and without informal interpreters. *Patient Educ Couns.* 2014;97(1):23–9.
33. Martin Y, Collet TH, Bodenmann P, Blum MR, Zimmerli L, Gaspoz JM et al. The lower quality of preventive care among forced migrants in a country with universal healthcare coverage. *Prevent Med.* 2014;59:19–24.
34. Jensen NK, Johansen KS, Kastrup M, Krasnik A, Norredam M. Patient experienced continuity of care in the psychiatric healthcare system: a study including immigrants, refugees and ethnic Danes. *Int J Environ Res Public Health.* 2014;11(9):9739–59.
35. Håkonsen H, Lees K, Toverud E-L. Cultural barriers encountered by Norwegian community pharmacists in providing service to non-Western immigrant patients. *Int J Clin Pharm.* 2014;36(6):1144–51.
36. Hadgkiss EJ, Renzaho AMN. The physical health status, service utilisation and barriers to accessing care for asylum seekers residing in the community: a systematic review of the literature. *Aust Health Rev.* 2014;38(2):142–59.
37. González-López JR, Rodríguez-Gázquez MA, Lomas-Campos ML. Use of health services by adult Latin American immigrants residing in Seville. *Invest Educ Enferm.* 2014;32(2):347–55.

- 
38. Ehmsen BK, Biswas D, Jensen NK, Krasnik A, Norredam M. Undocumented migrants have diverse health problems. *Dan Med J*. 2014;61(9):A4897.
 39. Diaz E, Kumar BN. Differential utilization of primary health care services among older immigrants and Norwegians: a register-based comparative study in Norway. *BMC Health Serv Res*. 2014;14(1):1.
 40. Diaz E, Gimeno-Feliu LA, Calderón-Larrañaga A, Prados-Torres A. Frequent attenders in general practice and immigrant status in Norway: a nationwide cross-sectional study. *Scand J Prim Health Care*. 2014;32(4):232–40.
 41. Dauvrin M, Lorant V. Adaptation of health care for migrants: whose responsibility? *BMC Health Serv Res*. 2014;14:294.
 42. Otero-Garcia L, Goicolea I, Gea-Sánchez M, Sanz-Barbero B. Access to and use of sexual and reproductive health services provided by midwives among rural immigrant women in Spain: midwives' perspectives. *Global Health Action*. 2013;6:22645.
 43. Jensen NK, Norredam M, Priebe S, Krasnik A. How do general practitioners experience providing care to refugees with mental health problems? A qualitative study from Denmark. *BMC Family Pract*. 2013;14(1):17–25.
 44. Gimeno-Feliu LA, Magallón-Botaya R, Macipe-Costa RM, Luzón-Oliver L, Cañada-Millan JL, Lasheras-Barrio M. Differences in the use of primary care services between Spanish national and immigrant patients. *J Immigr Minor Health*. 2013;15(3):584–90.
 45. De Luca G, Ponzio M, Andres AR. Health care utilization by immigrants in Italy. *Int J Health Care Finance Econ*. 2013;13(1):1–31.
 46. Aller M-B, Colomé JM, Waibel S, Vargas I, Vázquez ML. A first approach to differences in continuity of care perceived by immigrants and natives in the Catalan public healthcare system. *Int J Environ Res Public Health*. 2013;10(4):1474–88.
 47. Burchill J, Pevalin D. Barriers to effective practice for health visitors working with asylum seekers and refugees. *Community Pract*. 2012;85(7):20–3.
 48. Dauvrin M, Lorant V, Sandhu S, Devillé W, Dia H, Dias S et al. Health care for irregular migrants: pragmatism across Europe: a qualitative study. *BMC Res Notes*. 2012;5:99.

49. Dias S, Gama A, Cargaleiro H, Martins MO. Health workers' attitudes toward immigrant patients: a cross-sectional survey in primary health care services. *Hum Resour Health*. 2012;10:14.
50. Gonçalves M, Gianella D, Peng D, Zehnder S, Mohler-Kuo M, Kappler C. Access to Swiss mental health care among second generation of Portuguese-speaking immigrants. *Eur J Public Health*. 2006;16:122.
51. Harpelund L, Nielsen SS, Krasnik A. Self-perceived need for interpreter among immigrants in Denmark. *Scand J Public Health*. 2012;40(5):457–65.
52. Kristiansen M, Thorsted BL, Krasnik A, Euler-Chelpin MV. Participation in mammography screening among migrants and non-migrants in Denmark. *Acta Oncol Suppl*. 2012;51(1):28–36.
53. Lyberg A, Viken B, Haruna M, Severinsson E. Diversity and challenges in the management of maternity care for migrant women. *J Nursing Manag*. 2012;20(2):287–95.
54. Muñoz MA, Pastor E, Pujol J, Del Val JL, Cordoní S, Hermosilla E. Primary health care utilization by immigrants as compared to the native population: a multilevel analysis of a large clinical database in Catalonia. *Eur J Gen Pract*. 2012;18(2):100–6.
55. Nielsen SS, Hempler NF, Waldorff FB, Kreiner S, Krasnik A. Is there equity in use of healthcare services among immigrants, their descendents, and ethnic Danes? *Scand J Public Health*. 2012;40(3):260–70.
56. Nielsen SS, Yazici S, Petersen SG, Blaakilde AL, Krasnik A. Use of cross-border healthcare services among ethnic Danes, Turkish immigrants and Turkish descendents in Denmark: a combined survey and registry study. *BMC Health Serv Res*. 2012;12:390.
57. Sahlool Z, Sankri-Tarbichi AG, Kherallah M. Evaluation report of health care services at the Syrian refugee camps in Turkey. *Avicenna J Med*. 2012;2(2):25–8.
58. Sandvik H, Hunskaar S, Diaz E. Immigrants' use of emergency primary health care in Norway: a registry-based observational study. *BMC Health Serv Res*. 2012;12:308.

- 
59. Sole-Auro A, Guillen M, Crimmins EM. Health care usage among immigrants and native-born elderly populations in eleven European countries: results from SHARE. *Eur J Health Econ.* 2012;13(6):741–54.
 60. Stagg HR, Jones J, Bickler G, Abubakar I. Poor uptake of primary healthcare registration among recent entrants to the UK: a retrospective cohort study. *BMJ Open.* 2012;2:e001453.
 61. Tarricone I, Stivanello E, Ferrari S, Colombini N, Bolla E, Braca M et al. Migrant pathways to community mental health centres in Italy. *Int J Social Psychiatry.* 2012;58(5):505–11.
 62. Calderón-Larrañaga A, Gimeno-Feliu LA, Macipe-Costa R, Poblador-Plou B, Bordonaba-Bosque D, Prados-Torres A. Primary care utilisation patterns among an urban immigrant population in the Spanish national health system. *BMC Public Health.* 2011;11:432.
 63. Dias S, Gama A, Cortes M, de Sousa B. Healthcare-seeking patterns among immigrants in Portugal. *Health Soc Care Community.* 2011;19(5):514–21.
 64. Glaesmer H, Wittig U, Braehler E, Martin A, Mewes R, Rief W. Health care utilization among first and second generation immigrants and native-born Germans: a population-based study in Germany. *Int J Public Health.* 2011;56(5):541–8.
 65. Goossens MCM, Depoorter AM. Contacts between general practitioners and migrants without a residence permit and the use of “urgent” medical care. *Scand J Public Health.* 2011;39(6):649–55.
 66. Småland Goth UG, Berg JE. Migrant participation in Norwegian health care. A qualitative study using key informants. *Eur J Gen Pract.* 2011;17(1):28–33.
 67. Jensen NK, Norredam M, Draebel T, Bogic M, Priebe S, Krasnik A. Providing medical care for undocumented migrants in Denmark: what are the challenges for health professionals? *BMC Health Serv Res.* 2011;11(1):154–63.
 68. Jimenez-Rubio D, Hernandez-Quevedo C. Inequalities in the use of health services between immigrants and the native population in Spain: what is driving the differences? *Eur J Health Econ.* 2011;12(1):17–28.

69. Muckenhuber J, Freidl W, Rásky E. Healthcare for migrants and for marginalized individuals: the Marienambulanz in Graz, Austria. *Wien Klin Wochenschr.* 2011;123(17–18):559–61.
70. Pieper H-O, Clerkin P, MacFarlane A. The impact of direct provision accommodation for asylum seekers on organisation and delivery of local primary care and social care services: a case study. *BMC Family Pract.* 2011;12(1):32–42.
71. Sanz B, Regidor E, Galindo S, Pascual C, Lostao L, Díaz JM et al. Pattern of health services use by immigrants from different regions of the world residing in Spain. *Int J Public Health.* 2011;56(5):567–76.
72. Saurina C, Vall-Llosera L, Saez M. A qualitative analysis of immigrant population health practices in the Girona Healthcare Region. *BMC Public Health.* 2010;10:379.
73. Aung NC, Rechel B, Odermatt P. Access to and utilisation of GP services among Burmese migrants in London: a cross-sectional descriptive study. *BMC Health Serv Res.* 2010;10:285.
74. Suurmond J, Seeleman C, Rupp I, Goosen S, Stronks K. Cultural competence among nurse practitioners working with asylum seekers. *Nurs Educ Today.* 2010;30(8):821–6.
75. Hogenhuis CC, Grigoryan L, Numans MM, Verheij TJM. Differences in antibiotic treatment and utilization of diagnostic tests in Dutch primary care between natives and non-western immigrants. *Eur J Gen Pract.* 2010;16(3):143–7.
76. Norredam M, Nielsen SS, Krasnik A. Migrants’ utilization of somatic healthcare services in Europe: a systematic review. *Eur J Public Health.* 2010;20(5):555–63.
77. Jonzon R, Lindkvist P, Johansson E. A state of limbo: in transition between two contexts – health assessments upon arrival in Sweden as perceived by former Eritrean asylum seekers. *Scand J Public Health.* 2015;43(5):548–58.
78. Whyte J, Whyte MD, Hires K. A study of HIV positive undocumented African migrants’ access to health services in the UK. *AIDS Care.* 2015;27(6):703–5.
79. Brindicci G, Trillo G, Santoro C, Volpe A, Monno L, Angarano G. Access to health services for undocumented immigrants in Apulia. *J Immigr Minority Health.* 2015;17(2):618–23.

- 
80. Mylius M, Frewer A. Access to healthcare for undocumented migrants with communicable diseases in Germany: a quantitative study. *Eur J Public Health*. 2015;25(4):582–6.
 81. Suphanchaimat R, Kantamaturapoj K, Putthasri W, Prakongsai P. Challenges in the provision of healthcare services for migrants: a systematic review through providers' lens. *BMC Health Serv Res*. 2015;15(1):1–14.
 82. Bozorgmehr K, Razum O. Effect of restricting access to health care on health expenditures among asylum-seekers and refugees: a quasi-experimental study in Germany, 1994–2013. *PLOS ONE*. 2015;10(7):1–22.
 83. Bozorgmehr K, Schneider C, Joos S. Equity in access to health care among asylum seekers in Germany: evidence from an exploratory population-based cross-sectional study. *BMC Health Serv Res*. 2015;15:502.
 84. Fang ML, Sixsmith J, Lawthom R, Mountian I, Shahrin A. Experiencing “pathologized presence and normalized absence”; understanding health related experiences and access to health care among Iraqi and Somali asylum seekers, refugees and persons without legal status. *BMC Public Health*. 2015;15:923.
 85. 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;15:82.
 86. Grandahl M, Tydén T, Gottvall M, Westerling R, Oscarsson M. Immigrant women's experiences and views on the prevention of cervical cancer: a qualitative study. *Health Expect*. 2015;18(3):344–54.
 87. Malmusi D. Immigrants' health and health inequality by type of integration policies in European countries. *Eur J Public Health*. 2015;25(2):293–9.
 88. 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. *Ethn Health*. 2015;20(5):523–41.
 89. Sergeev B, Kazanets I, Ivanova L, Zhuravleva I, Isaeva N, Vasankari T et al. Labor migrants in St Petersburg: disease awareness, behavioral risks and counseling by health professionals in building up prevention against TB, HIV and associated infections. *J Public Health*. 2015;23(4):213–21.

90. Rydström I, Englund ACD. Meeting Swedish health care system: immigrant parents of children with asthma narrate. *Clin Nurs Res.* 2015;24(4):415–31.
91. Fleischman Y, Willen SS, Davidovitch N, Mor Z. Migration as a social determinant of health for irregular migrants: Israel as case study. *Soc Sci Med.* 2015;147, 89–97.
92. Kuehne A, Huschke S, Bullinger M. Subjective health of undocumented migrants in Germany: a mixed methods approach. *BMC Public Health.* 2015;15(1):1–12.
93. Stan S. Transnational healthcare practices of Romanian migrants in Ireland: inequalities of access and the privatisation of healthcare services in Europe. *Soc Sci Med.* 2015;124, 346–55.
94. Svenberg IK, Skott C, Lepp M. Ambiguous expectations and reduced confidence: experience of Somali refugees encountering Swedish health care. *J Refugee Stud.* 2011;24(4):690–705.
95. Razavi MF, Falk L, Bjorn A, Wilhelmsson S. Experiences of the Swedish healthcare system: an interview study with refugees in need of long-term health care. *Scand J Public Health.* 2011;39(3):319–25.
96. Devillé W, Greacen T, Bogic M, Dauvrin M, Dias S, Gaddini A et al. Health care for immigrants in Europe: is there still consensus among country experts about principles of good practice? A Delphi study. *BMC Public Health.* 2011;11:699.
97. Dorn T, Ceelen M, Tang MJ, Browne JL, de Keijzer KJC, Buster MCA et al. Health care seeking among detained undocumented migrants: a cross-sectional study. *BMC Public Health.* 2011;11:190.
98. Vázquez ML, Terraza-Núñez R, Vargas I, Rodríguez D, Lizana T. Health policies for migrant populations in three European countries: England, Italy and Spain. *Health Policy.* 2011;101(1):70–8.
99. Terraza-Núñez R, Vázquez ML, Vargas I, Lizana T. Health professional perceptions regarding healthcare provision to immigrants in Catalonia. *Int J Public Health.* 2011;56(5):549–57.
100. Migge B, Gilmartin M. Migrants and healthcare: investigating patient mobility among migrants in Ireland. *Health Place.* 2011;17(5):1144–9.

- 
101. Akhavan S, Edge D. Foreign-born women's experiences of community-based doulas in Sweden: a qualitative study. *Health Care Women Int.* 2012;33(9):833–48.
 102. Hull S, Mathur R, Dreyer G, Yaqoob MM. Evaluating ethnic differences in the prescription of NSAIDs for chronic kidney disease: a cross-sectional survey of patients in general practice. *Br J Gen Pract.* 2014;64(624):e448–55.
 103. Klaufus L, Fassaert T, Wit M. Equity of access to mental health care for anxiety and depression among different ethnic groups in four large cities in the Netherlands. *Soc Psychiatry Psychiatr Epidemiol.* 2014;49(7):1139–49.
 104. Lamkaddem M, Spreeuwenberg PM, Devillé WL, Foets MM, Groenewegen PP. Importance of quality aspects of GP care among ethnic minorities: role of cultural attitudes, language and healthcare system of reference. *Scand J Public Health.* 2012;40(1):25–34.
 105. Lyratzopoulos G, Elliott M, Barbieri JM, Henderson A, Staetsky L, Paddison C et al. Understanding ethnic and other socio-demographic differences in patient experience of primary care: evidence from the English General Practice Patient Survey. *BMJ Quality Safety.* 2012;21(1):21–9.
 106. Martin A, Badrick E, Mathur R, Hull S. Effect of ethnicity on the prevalence, severity, and management of COPD in general practice. *Br J Gen Pract.* 2012;62(595):e76–81.
 107. Mathur R, Hull SA, Boomla K, Robson J. Ethnic differences in primary care management of diabetes and cardiovascular disease in people with serious mental illness. *Br J Gen Pract.* 2012;62(601):e582–8.
 108. Pieper HO, MacFarlane A. “I’m worried about what I missed”: GP registrars’ views on learning needs to deliver effective healthcare to ethnically and culturally diverse patient populations. *Educ Health.* 2011;24(1):494.
 109. Poethko-Müller C, Ellert U, Kuhnert R, Neuhauser H, Schlaud M, Schenk L. Vaccination coverage against measles in German-born and foreign-born children and identification of unvaccinated subgroups in Germany. *Vaccine.* 2009;27(19):2563–9.
 110. 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. *J Immigr Minority Health.* 2013;15(1):188–97.

111. Almeida LM, Caldas JP, Ayres-de-Campos D, Dias S. Assessing maternal healthcare inequities among migrants: a qualitative study. *Cad Saude Publica*. 2014;30(2):333–40.
112. Almeida L, Casanova C, Caldas J, Ayres-de-Campos D, Dias S. Migrant women's perceptions of healthcare during pregnancy and early motherhood: addressing the social determinants of health. *J Immigr Minority Health*. 2014;16(4):719–23.
113. Cleland JA, Watson MC, Walker L, Denison A, Vanes N, Moffat M. Community pharmacists' perceptions of barriers to communication with migrants. *Int J Pharm Pract*. 2012;20(3):148–54.
114. Garcia-Subirats I, Vargas I, Sanz B, Malmusi D, Ronda E, Ballesta M et al. Changes in access to health services of the immigrant and native-born population in Spain in the context of economic crisis. *Int J Environ Res Public Health*. 2014;11(10):10182–201.
115. Legido-Quigley H, Nolte E, Green J, la Parra D, McKee M. The health care experiences of British pensioners migrating to Spain: a qualitative study. *Health Policy*. 2012;105(1):46–54.
116. Riccardo F, Dente MG, Kojouharova M, Fabiani M, Alfonsi V, Kurchatova A et al. Migrant's access to immunization in Mediterranean countries. *Health Policy*. 2012;105(1):17–24.
117. Rosenkötter N, Dongen M, Hellmeier W, Simon K, Dagnelie P. The influence of migratory background and parental education on health care utilisation of children. *Eur J Pediatr*. 2012;171(10):1533–40.
118. Sandahl H, Norredam M, Hjern A, Asher H, Nielsen SS. Policies of access to healthcare services for accompanied asylum-seeking children in the Nordic countries. *Scand J Public Health*. 2013;41(6):630–6.
119. Sime D. “I think that Polish doctors are better”: newly arrived migrant children and their parents' experiences and views of health services in Scotland. *Health Place*. 2014;30, 86–93.
120. Straßmayr C, Matanov A, Priebe S, Barros H, Canavan R, Díaz-Olalla JM et al. Mental health care for irregular migrants in Europe: barriers and how they are overcome. *BMC Public Health*. 2012;12, 367–7.

- 
121. Topal K, Eser E, Sanberk I, Bayliss E, Saatci E. Challenges in access to health services and its impact on quality of life: a randomised population-based survey within Turkish speaking immigrants in London. *Health Qual Life Outcomes*. 2012;10:11.
 122. Vázquez ML, Terraza-Núñez R, S-Hernández S, Vargas I, Bosch L, González A et al. Are migrants health policies aimed at improving access to quality healthcare? An analysis of Spanish policies. *Health Policy*. 2013;113(3):236–46.
 123. Weine S, Golobof A, Bahromov M, Kashuba A, Kalandarov T, Jonbekov J et al. Female migrant sex workers in Moscow: gender and power factors and HIV risk. *Women Health*. 2013;53(1):56–73.
 124. Woodward A, Howard N, Wolffers I. Health and access to care for undocumented migrants living in the European Union: a scoping review. *Health Policy Plan*. 2014;29(7):818–30.
 125. Jensen NK, Draebel T, Norredam M, Krasnik A. Health professionals' experiences with providing care for undocumented migrants in Denmark. *Eur J Public Health*. 2010;20:277.
 126. Schoevers MA, Loeffen MJ, van den Muijsenbergh ME, Lagro-Janssen ALM. Health care utilisation and problems in accessing health care of female undocumented immigrants in the Netherlands. *Int J Public Health*. 2010;55(5):421–8.
 127. Thomas F, Aggleton P, Anderson J. "If I cannot access services, then there is no reason for me to test": the impacts of health service charges on HIV testing and treatment amongst migrants in England. *AIDS Care*. 2010;22(4):526–31.
 128. Dias S, Gama A, Rocha C. Immigrant women's perceptions and experiences of health care services: insights from a focus group study. *J Public Health*. 2010;18(5):489–96.
 129. Reynolds B, White J. Seeking asylum and motherhood: health and wellbeing needs. *Community Pract*. 2010;83(3):20–3.
 130. Binfa L, Robertson E, Ransjö-Arvidson A-B. "We are always asked; 'where are you from?': Chilean women's reflections in midlife about their health and influence of migration to Sweden. *Scand J Caring Sci*. 2010;24(3):445–53.

131. Bischoff A, Hudelson P. Communicating with foreign language-speaking patients: is access to professional interpreters enough? *J Travel Med.* 2010;17(1):15–20.
132. Bachmann V, Völkner M, Bösnerr S, Donner-Banzhoff N. The experiences of Russian-speaking migrants in primary care consultations. *Dtsch Arztebl Int.* 2014;111(51–52):871–6.
133. Shortall C, McMorran J, Taylor K, Traianou A, Garcia de Frutos M, Jones L et al. Experiences of pregnant migrant women receiving ante/peri and postnatal care in the UK: a longitudinal follow-up study of Doctors of the World's London drop-in clinic attendees. London: Doctors of the World; 2015 (http://b.3cdn.net/drofttheworld/c8499b817f90db5884_iym6bthx1.pdf, accessed 3 June 2016).
134. Quinn E, Gusciute, E; Barrett A, Joyce C. Migrant access to social security and healthcare: policies and practice in Ireland. Dublin: European Migration Network; 2014 (http://ec.europa.eu/dgs/home-affairs/what-we-do/networks/european_migration_network/reports/docs/emn-studies/14_ireland_migrant_access_to_social_security_en_version.pdf, accessed 3 June 2016).
135. Migrant health: access to HIV prevention, treatment and care for migrant populations in EU/EEA countries. Stockholm: European Centre for Disease Prevention and Control; 2009 (Technical report; http://ecdc.europa.eu/en/publications/publications/0907_ter_migrant_health_hiv_access_to_treatment.pdf, accessed 3 June 2016).
136. Migrant health: HIV testing and counselling in migrant populations and ethnic minorities in EU/EEA/EFTA Member States. Stockholm: European Centre for Disease Prevention and Control; 2011 (Technical report; http://ecdc.europa.eu/en/publications/Publications/1108_TER_HIV_in_migrants.pdf, accessed 3 June 2016).
137. Improving HIV data comparability in migrant populations and ethnic minorities in EU/EEA/EFTA countries: findings from a literature review and expert panel. Stockholm: European Centre for Disease Prevention and Control; 2011 (Technical report; http://ecdc.europa.eu/en/publications/Publications/1108_TER_Improving_HIV_data_comparability_in_migrants.pdf, accessed 3 June 2016).

- 
138. Access to healthcare for people facing multiple health vulnerabilities: obstacles in access to care for children and pregnant women in Europe. Paris: Médecins du Monde; 2015 (<http://mdmgreece.gr/app/uploads/2015/05/MdM-Intl-Obs-2015-report-EN.pdf>, accessed 3 June 2016).
 139. Access to healthcare for vulnerable groups in the European Union in 2012: an overview of the condition of persons excluded from healthcare systems in the EU. Paris: Médecins du Monde; 2012 (<http://www.europarl.europa.eu/document/activities/cont/201302/20130208ATT60776/20130208ATT60776EN.pdf>, accessed 3 June 2016).
 140. A new beginning: refugee integration in Europe. Outcome of an EU funded project on refugee integration capacity and evaluation (RICE). Geneva: United Nations High Commissioner for Refugees; 2013 (<http://www.unhcr.org/52403d389.html>, accessed 3 June 2016).
 141. Access to healthcare for the most vulnerable in Europe in social crisis: focus on pregnant women and children. Paris: Médecins du Monde; 2013 (http://b3cdn.net/droftheworld/ddba157be802b8a13e_l1m6bup6k.pdf, accessed 3 June 2016).
 142. Bakhshinyan E. Assessment of health related factors affecting reintegration of migrants in Armenia. Yerevan: International Organization for Migration Mission in Armenia; 2014 (http://www.un.am/up/library/Assessment_Health_Factors_eng.pdf, accessed 3 June 2016).
 143. Bulgaria: assessing health-system capacity to manage sudden large influxes of migrants. Copenhagen: WHO Regional Office for Europe; 2015 (Joint report on a mission of the Ministry of Health of Bulgaria and the WHO Regional Office for Europe; http://www.euro.who.int/__data/assets/pdf_file/0009/300402/Bulgaria-Assessment-Report-en.pdf?ua=1, accessed 2 June 2016).
 144. Vella M. EU partnerships to reduce HIV and public health vulnerabilities associated with population mobility. Valetta: Department of Public Health Malta, Disease Surveillance Unit and International Organization for Migration Malta; 2007 (https://www.iom.int/jahia/webdav/shared/shared/mainsite/events/docs/eu_consultation/country_report_malta.pdf, accessed 3 June 2016).

145. Schopt A, Hoglinger M. Providers' perspectives on participation of migrants in health promotion in Vienna. Empirical analysis I: interviews with providers. Vienna: Forschungsinstitut des Roten Kreuzes; 2009 (National Report Austria; http://www.rotekreuz.at/fileadmin/user_upload/LV/Wien/Metanavigation/Forschungsinstitut/MitarbeiterInnen%20+%20Projektberichte/National%20report%20provider_Austria.pdf, accessed 3 June 2016).
146. van Vliet K, de Gruijter M, Bulsink D. Providers' perspectives on participation of migrants in health promotion in the Netherlands. Empirical analysis I: interviews with providers. Utrecht: Verwey_Jonker Institute; 2009 (National Report Netherlands; http://www.verwey-jonker.nl/doc/participatie/D4_NL%20report%20providers%20in%20English.pdf, accessed 3 June 2016).
147. Cyprus: assessing health-system capacity to manage sudden large influxes of migrants. Copenhagen: WHO Regional Office for Europe; 2015 (Joint report on a mission of the Ministry of Health of Cyprus, the International Centre for Migration, Health and Development and the WHO Regional Office for Europe; http://www.euro.who.int/__data/assets/pdf_file/0020/293330/Cyprus-Assessment-Report-en.pdf?ua=1, accessed 2 June 2016).
148. Chauvin P, Simonnot N, Vanbiervliet F. Access to healthcare in Europe in times of crisis and rising xenophobia: an overview of the situation of people excluded from healthcare systems. Paris: Médecins du Monde; 2013 (https://www.medicosdelmundo.org/index.php/mod.documentos/mem.descargar/fichero.documentos_MdM_Report_access_healthcare_times_crisis_and_rising_xenophobia_edcfd8a3%232E%23pdf, accessed 3 June 2016).
149. Good practice guide on the integration of refugees in the European Union: community and culture. Athens: European Council on Refugees and Exiles; 1999 (<https://ec.europa.eu/migrant-integration/librarydoc/good-practice-guide-on-community-cultural-integration-for-refugees-in-the-european-union>, accessed 3 June 2016).
150. Reile R, Markina A. Healthy inclusion: perspectives of providers on participation of migrants in health promotion in Estonia. Tartu: University of Tartu; 2009 (<http://rahvatervis.ut.ee/bitstream/1/1401/4/Reilejt2009.pdf>, accessed 3 June 2016).

- 
151. di Santo P, Cavallo M, di Cesare S. Healthy inclusion: providers' perspectives on participation of migrants in health promotion in selected regions of Italy. Empirical analysis 1: interviews with providers. Rome: Studio Come s.r.l.; 2009 (<https://ec.europa.eu/migrant-integration/index.cfm?action=media.download&uuid=29DDE77F-99C0-395D-29EE946FC7F70FE3>, accessed 16 June 2016).
 152. Jantova H, Říhová L, Choděra R. Healthy inclusion: migrants' perspectives on participation in health promotion in the Czech Republic. Prague: National Institute of Public Health; 2009 (http://www.szu.cz/uploads/documents/czpz/mensiny/2011/5Migrants_perspective_national_report.pdf, accessed 3 June 2016).
 153. Baatrup T, Simony K. Providers' perspectives on participation of migrants in health promotion in Denmark and Sweden. Empirical analysis 1: interviews with providers. (National report Denmark and Sweden; <https://ec.europa.eu/migrant-integration/index.cfm?action=media.download&uuid=29DDF092-AE7D-AB0A-CCB65B3CD61A5D0D>, accessed 3 June 2016).
 154. Severoni S. Increased influx of migrants in Lampedusa, Italy. Copenhagen: WHO Regional Office for Europe; 2012 (Joint report on a mission from the Ministry of Health, Italy and the WHO Regional Office for Europe; http://www.euro.who.int/__data/assets/pdf_file/0004/182137/e96761.pdf, accessed 2 June 2016).
 155. Severoni S, Enkhtsetseng S, Dembech M. Second assessment of migrant health needs Lampedusa and Linosa, Italy. Copenhagen: WHO Regional Office for Europe; 2012 (Joint report on a mission from the Ministry of Health, Italy, the Regional Health Authority of Sicily and the WHO Regional Office for Europe; http://www.euro.who.int/__data/assets/pdf_file/0010/184465/e96796.pdf, accessed 2 June 2016).
 156. Petrou S. Cost of exclusion from healthcare: the case of migrants in an irregular situation. Vienna: European Union Agency for Fundamental Rights; 2011 (http://fra.europa.eu/sites/default/files/fra_uploads/fra-2015-cost-healthcare_en.pdf, accessed 3 June 2016).

157. Greece: assessing health-system capacity to manage sudden large influxes of migrants. Copenhagen: WHO Regional Office for Europe; 2015 (Joint report on a mission of the Ministry of Health of Greece, Hellenic Center for Disease Control and the WHO Regional Office for Europe; http://www.euro.who.int/__data/assets/pdf_file/0007/300400/Greece-Assessment-Report-en.pdf?ua=1, accessed 2 June 2016).
158. Malta: Assessing health-system capacity to manage sudden large influxes of migrants. Copenhagen: WHO Regional Office for Europe; 2015 (Joint report on a mission of the Ministry for Energy and Health of Malta, the International Centre for Migration, Health and Development, and the WHO Regional Office for Europe; http://www.euro.who.int/__data/assets/pdf_file/0004/280714/Malta-assessing-health-system-capacity-manage-sudden-large-influxes-migrants.pdf, accessed 2 June 2016).
159. Norredam M. Migrant’s access to healthcare. *Dan Med Bull.* 2011;58(10):B4339.
160. Portugal: assessing health-system capacity to manage sudden large influxes of migrants. Copenhagen: WHO Regional Office for Europe; 2014 (Joint report on a mission of the Ministry of Health for Portugal, the International Centre for Migration, Health and Development, and WHO Regional Office for Europe; http://www.euro.who.int/__data/assets/pdf_file/0016/265012/Portugal-assessing-health-system-capacity-to-manage-sudden-large-influxes-of-migrants.pdf, accessed 2 June 2016).
161. Equi-Health. Assessment report: the health situation at EU southern borders – migrant health, occupational health, and public health Greece. Brussels: International Organization for Migration Regional Office; 2013 (http://equi-health.eea.iom.int/images/SAR_Greece_final.pdf, accessed 3 June 2016).
162. Ballou S. Self-reported health in immigrants living in Finland: treatment obstacles, quality of life and language ability as mediators to health [thesis]. Helsinki: University of Helsinki; 2014 (<https://helda.helsinki.fi/bitstream/handle/10138/44798/sarahballou.pdf?sequence=1>, accessed 3 June 2016).
163. Serbia: assessing health-system capacity to manage sudden large influxes of migrants. Copenhagen: WHO Regional Office for Europe; 2015 (Joint report on a mission of the Ministry of Health for Serbia and the WHO Regional Office for Europe with collaboration of the International Organization for Migration; http://www.euro.who.int/__data/assets/pdf_file/0010/293329/Serbia-Assessment-Report-en.pdf, accessed 2 June 2016).

- 
164. United Nations interagency health-needs-assessment mission: southern Turkey. Copenhagen: WHO Regional Office for Europe; 2013 (Joint mission of WHO Regional Office for Europe, United Nations Population Fund, United Nations High Commissioner for Refugees, United Nations Children's Fund and the International Organization for Migration; http://www.euro.who.int/__data/assets/pdf_file/0006/189213/United-Nations-interagency-health-needs-assessment-mission-final.pdf?ua=1, accessed 3 June 2016).
165. Juhász J, Makara P, Taller A. Possibilities and limitations of comparative research on international migration and health. European Data Center for Work and Welfare; 2010 (PROMINSTAT Working Paper No. 09; http://research.icmpd.org/fileadmin/Research-Website/Project_material/PROMINSTAT_File_Exchange/Working_Paper_09_Health.pdf, accessed 3 June 2016).
166. Muñoz de Luna C, Ingleby D, Graval E, Krasnik A. Training packages for health professionals to improve access and quality of health services for migrants and ethnic minorities, including the Roma (MEM-TP). Granada: Andalusian School of Public Health; 2015 (Synthesis report working package; <http://www.mem-tp.org/>, accessed 3 June 2016).
167. Media-friendly glossary on migration. Marseille: United Nations Alliance of Civilizations and Panos Europe Institute; 2014 (<http://www.panoseurope.org/publications/media-friendly-glossary-migration>, accessed 3 June 2016).
168. Glossary on migration, 2nd edition. Geneva: International Organization for Migration; 2011 (<http://www.epim.info/wp-content/uploads/2011/01/iom.pdf>, accessed 3 June 2016).
169. Why “undocumented” or “irregular”? Brussels: Platform for International Cooperation on Undocumented Migrants; 2009 (http://picum.org/picum.org/uploads/file_/TerminologyLeaflet_reprint_FINAL.pdf, accessed 3 June 2016).
170. Master glossary of terms, rev. 1. Geneva: United Nations High Commissioner for Refugees; 2006 (<http://www.refworld.org/docid/42ce7d444.html>, accessed 3 June 2016).
171. Asylum and migration glossary 3.0. Brussels: DG Migration and Home Affairs European Migration Network; 2014 (http://ec.europa.eu/dgs/home-affairs/what-we-do/networks/european_migration_network/docs/emn-glossary-en-version.pdf, accessed 3 June 2016).

172. Recommendations on statistics of international migration, revision 1. New York: United Nations; 1998 (http://unstats.un.org/unsd/publication/SeriesM/seriesm_58rev1e.pdf, accessed 3 June 2016).
173. Edwards A. UNHCR viewpoint: “refugee” or “migrant” – which is right? Geneva: United Nations High Commissioner for Refugees; 2015 (<http://www.unhcr.org/55dfoe556.html>, accessed 3 June 2016).
174. Returning with a health condition: a toolkit for counselling migrants with health concerns. The Hague: International Organization for Migration; 2014 (https://publications.iom.int/system/files/pdf/toolkit_for_counselling_migrants.pdf, accessed 3 June 2016).
175. Migrant access to social security and healthcare: policies and practice. Brussels: DG Migration and Home Affairs European Migration Network; 2014 (Synthesis report; http://ec.europa.eu/dgs/home-affairs/what-we-do/networks/european_migration_network/reports/docs/emn-studies/emn_synthesis_report_migrant_access_to_social_security_2014_en.pdf, accessed 3 June 2016).
176. Spencer S, Hughes V. Outside and in: legal entitlements to health care and education for migrants with irregular status in Europe. Oxford: Centre on Migration Policy & Society; 2015 (https://www.compas.ox.ac.uk/media/PR-2015-Outside_In_Mapping.pdf, accessed 3 June 2016).
177. Indicators of immigrant integration 2015: settling in. Paris: OECD Publishing for the Organisation for Economic Co-operation and Development and the European Union; 2015 (<http://dx.doi.org/10.1787/9789264234024-en>, accessed 3 June 2016).
178. World migration report 2015. Migrants and cities: new partnerships to manage mobility. Berlin: International Organization for Migration; 2015 (http://publications.iom.int/system/files/wmr2015_en.pdf, accessed 3 June 2016).
179. Global consultation on migrant health: migrant-sensitive health systems. Madrid: National School of Public Health; 2010 (http://www.who.int/hac/events/2_migrant_sensitive_health_services_22Feb2010.pdf, accessed 3 June 2016).
180. International migration, health and human rights, Geneva: International Organization for Migration; 2013 (http://www.ohchr.org/Documents/Issues/Migration/WHO_IOM_UNOHCHRPublication.pdf, accessed 3 June 2016).

- 
181. Ad-hoc query on system of medical treatment of asylum seekers in MS. Brussels: DG Migration and Home Affairs European Migration Network; 2010 (http://www.sisekaitse.ee/public/ERV/ad_hoc/Compilation_for_PL_Ad-Hoc_query_on_system_of_medical_treatment_of_asylum_seekers_in_MS-wider_dissemination__3_.pdf, accessed 3 June 2016).
182. Ad-hoc query on health screening. Brussels: DG Migration and Home Affairs European Migration Network; 2010 (http://ec.europa.eu/dgs/home-affairs/what-we-do/networks/european_migration_network/reports/docs/ad-hoc-queries/protection/261_emn_ad-hoc_query_health_screening_22sept2010_wider_dissemination_en.pdf, accessed 3 June 2016).
183. Ad-hoc query on tuberculosis screening of foreigners. Brussels: DG Migration and Home Affairs European Migration Network; 2010 (http://ec.europa.eu/dgs/home-affairs/what-we-do/networks/european_migration_network/reports/docs/ad-hoc-queries/miscellaneous/353_emn_ad-hoc_query_tuberculosis_screening_of_foreigners_21nov2011_wider_dissemination_en.pdf, accessed 3 June 2016).
184. Machery A-L. Legal report on access to healthcare in 12 countries. Madrid: Médicos del Mundo; 2015 (<https://mdmeuroblog.files.wordpress.com/2014/05/mdm-legal-report-on-access-to-healthcare-in-12-countries-3rd-june-2015.pdf>, accessed 3 June 2016).
185. Expert opinion on the public health needs of irregular migrants, refugees or asylum seekers across the EU's southern and south-eastern borders. Stockholm: European Centre for Disease Prevention and Control; 2015 (<http://ecdc.europa.eu/en/publications/Publications/Expert-opinion-irregular-migrants-public-health-needs-Sept-2015.pdf>, accessed 3 June 2016).
186. Huddleston T, Bilgili Ö, Joki A-L, Vankova Z. Migrant integration policy index 2015: integration policies, who benefits? Barcelona: Barcelona Center for International Affairs and Migration Policy Group; 2015 (<http://mipex.eu/sites/default/files/downloads/files/mipex-2015-book-a5.pdf>, accessed 3 June 2016).
187. Convention relating to the status of refugee. New York: United Nations; 1951.
188. Gerritsen AA, Bramsen I, Devillé W, van Willigen LH, Hovens JE, van der Ploeg HM. Physical and mental health of Afghan, Iranian and Somali asylum seekers and refugees living in the Netherlands. *Soc Psychiatry Psychiatr Epidemiol.* 2006;41(1):18–26.

189. Wells GA, Shea B, O'Connell D, Peterson J, Welch V, Losos M et al. The Newcastle–Ottawa Scale (NOS) for assessing the quality of nonrandomised studies in meta-analyses. Ottawa: Ottawa Hospital Research Institute; 2014 (http://www.ohri.ca/programs/clinical_epidemiology/oxford.asp, accessed 3 June 2016).
190. Effective Public Health Practice Project. Quality assessment tool for quantitative studies. Hamilton Ontario: McMaster University Faculty of Health Sciences; 2009 (<http://www.ehphp.ca/tools.html>, accessed 3 June 2016).
191. Critical Appraisal Skills Programme. Oxford: CASP UK; 2013 (<http://www.casp-uk.net/#!casp-tools-checklists/c18f8>, accessed 3 June 2016).
192. Essential Evidence Plus. Grading of recommendations assessment, development and evaluation. Chichester, UK: John Wiley; 2016 (https://www.essentialevidenceplus.com/product/ebm_loe.cfm?show=grade, accessed 3 June 2016).
193. Saltman RB, Busse R, Figueras J, editors. Social health insurance systems in western Europe. Maidenhead, UK: Open University Press; 2004.
194. Social determinants of health. Geneva: World Health Organization; 2012 (http://www.who.int/social_determinants/B_132_14-en.pdf?ua=1, accessed 20 June 2016).



ANNEX 1. SEARCH STRATEGY

Databases and websites

The searches were performed in January and February 2016 and covered publications from 2005 to 2015 in English or Russian. The academic literature was searched using the databases of Academic Search Complete, Cochrane Library, EconLit, Medline, Social Sciences Full Text and Web of Science.

Searches of the following 11 websites were conducted to identify relevant empirical research, glossaries of definitions and information on health care entitlements from the grey literature: EU Agency for Fundamental Rights, European Commission Directorate-General for Migration and Home Affairs, European Observatory on Health Systems and Policies, European Website on Integration, Eurostat, HEN, IOM, MIPEx, OECD, SOPHIE project and UNHCR.

Search protocol

A standard protocol was followed for study selection and data abstraction. Two review authors (POD and MOK) conducted the searches. After the removal of duplicates, the two authors then independently screened the titles and abstracts of studies for inclusion according to the eligibility criteria and relevance to the study questions. If no abstract was available, or when it was not clear if the study should be included, the full-text was retrieved and screened for relevance. Reasons for the inclusion or exclusion of studies were recorded by both authors. Disagreements on study eligibility were resolved by discussion and a consensus meeting of all review authors. Subsequently, full texts for the grey literature were screened for inclusion by all authors.

Data extracted from included studies included the time period of the study, geographical location, named migrant group, definition of the group (if given), study design, aims and objectives, setting (primary and/or secondary care), information on entitlement to health care and any recommendations or comment by the authors on the use of definitions of migrants.

Assessment of study quality was dictated by study design. The Newcastle–Ottawa Scale was used for assessing the quality of cohort or case–control studies (189). The Effective Public Health Practice Project quality assessment tool was used for

other quantitative studies (190). The Critical Appraisal Skills Programme checklist was used for qualitative studies (191). The Grading of Recommendations Assessment, Development and Evaluation scale for level of evidence (192) was used to assess the level of evidence of included studies. The level of evidence from the 148 studies based on empirical research was assessed as moderate.

The proportion of studies providing a clear reference or definition of the study population was calculated. A summary of terms used across studies was created. A synthesis of the evidence of how heterogeneity of definitions and their application shaped access to and delivery of health care was carried out.

Initially, 460 relevant publications were identified from the electronic database search and search of the grey literature for the period 2005–2015. Because of the number and the need to include the most up-to-date information on health care entitlements, analysis was restricted to 169 publications from 2010 to 2015 that focused on primary care or on both primary and secondary care settings (including screening services and emergency departments): 148 (88%) were based on empirical research (65 quantitative, 55 qualitative, 20 mixed methods, 8 literature, systematic, synthesis or scoping reviews) and the other 21 consisted of 8 glossaries of definitions and 13 factual accounts of health care entitlements.

A PRISMA flow diagram of included and excluded studies is given in Fig. A1.

Search terms

The following search terms were used.

Row 1: asylum* OR refugee* OR migrant* OR migrat* OR emigrant* OR emigrat* OR immigrant* OR nomad* OR foreigner* OR displaced OR stateless OR state-less OR noncitizen* OR non-citizen* OR outsider* OR newcomer* OR “newly arrived” OR “new arrival*” OR “recent entrant*” OR “non national” OR non-national (title)

Row 2: health* (abstract)

Row 3: Albania* OR Andorra* OR Armenia* OR Austria* OR Azerbaijan* OR Belarus* OR Belgium OR Belgian* OR Bosnia* OR Bulgaria* OR Croatia* OR Cyprus OR Cypriot* OR “Czech Republic*” OR Denmark OR Danish OR Estonia* OR Finland OR Finnish OR France OR French OR Europe* OR Georgia* OR German* OR Greece OR Greek* OR Hungary* OR Iceland* OR Ireland OR Irish* OR Israel* OR Italy OR



Italian* OR Kazakhstan* OR Kyrgyzstan* OR Latvia* OR Lithuania* OR Luxembourg*
OR Macedonia* OR Malta OR Maltese* OR Marino* OR Moldova* OR Monaco*
OR Montenegro* OR Netherlands OR Dutch OR Norway OR Norwegian* OR
Poland OR Polish OR Portug* OR Romania* OR Russia* OR Serbia* OR Slovakia*
OR Spain OR Spanish OR Sweden OR Swedish OR Switzerland OR Swiss* OR
Tajikistan* OR Turk* OR Ukrain* OR “United Kingdom” OR England OR Scotland
OR Scottish OR Wales OR Welsh OR Uzbekistan* (full text)

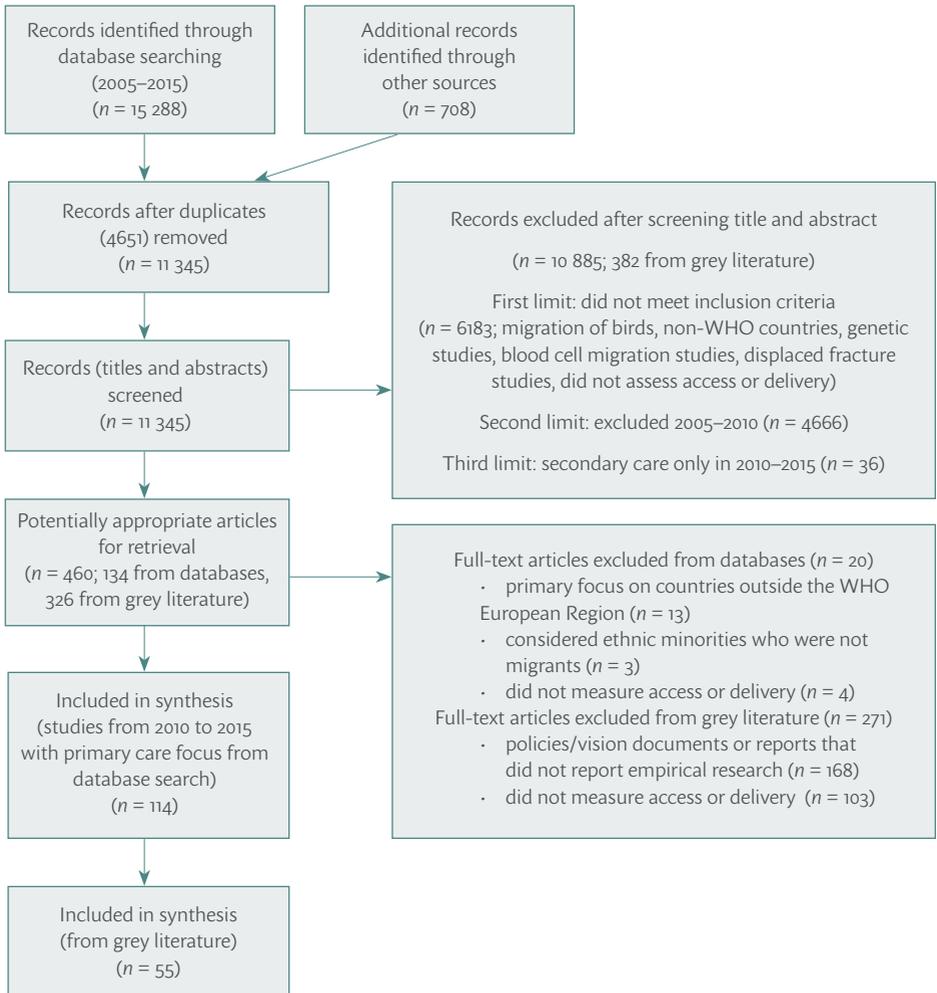
Number of results for databases

Academic Search Complete: 5124
Cochrane Library: 135
EconLit: 129
Medline: 6058
Social Sciences Full Text: 631
Web of Science: 3211

Number of results for websites

EU Agency for Fundamental Rights: 14
European Commission Directorate-General for Migration and Home Affairs: 196
European Observatory on Health Systems: 75
European Website on Integration: 10
Eurostat: 25
HEN: 26
HEN grey: 205
IOM: 46
MIPEX: 14
OECD: 50
SOPHIE: 22
UNHCR: 25

Fig. A1 Prisma flow chart





World Health Organization

Regional Office for Europe

UN City, Marmorvej 51, DK-2100 Copenhagen Ø, Denmark

Tel.: +45 45 33 70 00

Fax: +45 45 33 70 01

Email: euwhocontact@who.int

Website: www.euro.who.int

ISBN 9789289051590



9 789289 051590 >