

Defining global health: findings from a systematic review and thematic analysis of the literature

Melissa Salm ¹, Mahima Ali,² Mairead Minihane,² Patricia Conrad³

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ABSTRACT

Introduction Debate around a common definition of global health has seen extensive scholarly interest within the last two decades; however, consensus around a precise definition remains elusive. The objective of this study was to systematically review definitions of global health in the literature and offer grounded theoretical insights into what might be seen as relevant for establishing a common definition of global health.

Method A systematic review was conducted with qualitative synthesis of findings using peer-reviewed literature from key databases. Publications were identified by the keywords of ‘global health’ and ‘define’ or ‘definition’ or ‘defining’. Coding methods were used for qualitative analysis to identify recurring themes in definitions of global health published between 2009 and 2019.

Results The search resulted in 1363 publications, of which 78 were included. Qualitative analysis of the data generated four theoretical categories and associated subthemes delineating key aspects of global health. These included: (1) global health is a multiplex approach to worldwide health improvement taught and pursued at research institutions; (2) global health is an ethically oriented initiative that is guided by justice principles; (3) global health is a mode of governance that yields influence through problem identification, political decision-making, as well as the allocation and exchange of resources across borders and (4) global health is a vague yet versatile concept with multiple meanings, historical antecedents and an emergent future.

Conclusion Extant definitions of global health can be categorised thematically to designate areas of importance for stakeholders and to organise future debates on its definition. Future contributions to this debate may consider shifting from questioning the abstract ‘what’ of global health towards more pragmatic and reflexive questions about ‘who’ defines global health and towards what ends.

INTRODUCTION

Debate around a common definition of global health (GH) has seen extensive scholarly interest within the last two decades. In 2009, a widely circulated paper by Koplan and colleagues aimed to establish ‘a common definition of global health’ as distinct from

Key questions

What is already known?

- ▶ Debate around a common definition of global health has seen extensive scholarly interest within the last two decades; despite the abundance of literature, ambiguity still persists around its precise definition.
- ▶ No systematic reviews with thematic analysis have been conducted to explore extant definitions of global health nor to contribute to a comprehensive definition of global health.

What are the new findings?

- ▶ We compile and thematically analyse extant definitions of global health and propose grounded theoretical insights into what might be seen as relevant for establishing a common definition of global health moving forward.
- ▶ The need for a clear and concise definition of global health has the highest stakes in the domain of global health policy governance.

What do the new findings imply?

- ▶ Stakeholders tend to define the ‘what’ of global health: its spaces, objects and practices. Our findings suggest that the debate around definition should shift to more pragmatic and reflexive questions regarding ‘who’ defines global health and towards what ends.

its derivations in public health (PH) and international health (IH).¹ They rooted the definition of PH in the mid-19th century social reform movements of Europe and the USA, the growth of biological and medical knowledge, and the discipline’s emphasis on population-level health management. Similarly, they traced the evolution of IH back to its colonial roots in hygiene and tropical medicine (TM) through to the mid-20th century with its geographic focus on developing countries. GH, they argued, would require a distinctive definition of its own to be ‘more than a rephrasing of a common definition of PH or a politically correct updating of international health’. Their intervention built on prior research noting confusion and overlap



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¹Anthropology, University of California Davis, Davis, California, USA

²University of California Davis, Davis, California, USA

³VM:PMI, University of California Davis, Davis, California, USA

Correspondence to

Melissa Salm;
melsalm@gmail.com

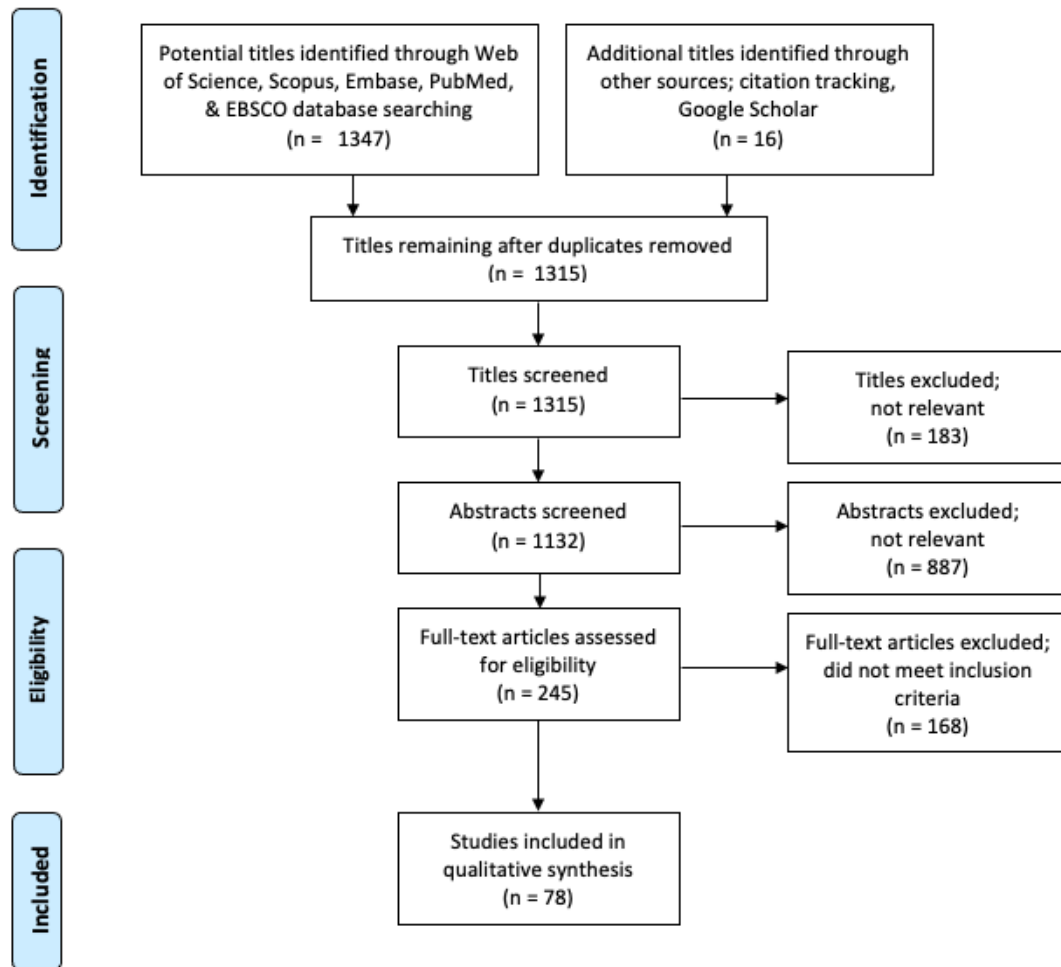


Figure 1 Preferred Reporting Items for Systematic Reviews and Meta-Analyses (PRISMA) flow diagram of citation analysis and systematic literature review.¹⁴

among the three terms and thus a need to carefully articulate the important differences between them.²⁻⁵ Additional stakeholders have since elaborated varied definitions of GH, yet consensus around its precise definition remains elusive.

To determine how GH is presently defined and to identify whether a common conceptualisation has been established, we conducted a qualitative systematic literature review (SLR) of the GH literature between 2009 and 2019. SLRs are a methodology used ‘to identify, appraise and synthesize all the empirical evidence that meets pre-specified eligibility criteria to answer a given research question’.⁶ Unlike unsystematic narrative reviews, SLRs use formal, repeatable and transparent, procedures for identifying, evaluating and interpreting available research, thus ensuring robust coverage of the current literature while reducing the biased presentation of available evidence.⁷⁻⁹ Medical researchers and policy-makers have long relied on SLRs because they integrate and critically evaluate current knowledge to support decisions about important issues.¹⁰ However, very few SLRs exploring aspects of GH have yet been published,¹¹⁻¹³ and no SLRs focusing on extant definitions of GH have been conducted. This paper fills that gap by exploring the

thematic components of extant definitions and thereby contributes towards a comprehensive definition of GH.

Aims and objectives

The aim of this review is: (a) to examine how GH has been defined in the literature between 2009 and 2019, (b) to systematically analyse the core thematic categories undergirding extant definitions of GH and (c) to offer grounded theoretical insights into what might be seen as relevant for establishing a common definition of GH.

METHODS

Aiming to capture definitions of GH in literature between 2009 and 2019, our team conducted a systematic review of the peer-reviewed literature following Preferred Reporting Items for Systematic Reviews and Meta-Analyses guidelines (figure 1).¹⁴ The sequential steps of our review process included the following.

Search strategy: identify papers and relevant databases

Search technique

The terms ‘global health’ AND ‘define’ OR ‘definition’ OR ‘defining’ were queried when they appeared in the title, abstract or keyword of studies. Published studies

were identified through comprehensive searches of electronic databases accessible through the authors' university library system (Web of Science, Scopus, Embase, PubMed, EBSCO). Citation tracking through Google Scholar was also completed.

Study selection criteria

Articles published in international peer-reviewed journals, including conference papers, book chapters and editorial material, were reviewed. The studies included were written in English and published between 2009 and 2019. The year 2009 was chosen as a starting point because this is the year in which Koplan *et al* published 'Towards a Common Definition of Global Health'. For this review, the team excluded news articles, theses, book reviews and published papers that were not written in English.

Assessment strategy: appraise which papers to include in review

The protocol-driven search strategy required that articles included in the review must: (a) contain the keywords 'global health' and 'definition' and/or 'define'; (b) be in the English language and (c) be published between 2009 and 2019. The number of articles containing these keywords was recorded, and all the titles uncovered in the search were imported into Mendeley, a software for managing citations. Duplicates were identified and removed, after which abstracts were screened to assess eligibility against the inclusion criteria. Full-text articles were retrieved for those that met the inclusion criteria and three team members read a designated number of the articles selected for full review. To be included in the data extraction sheet, each article needed to: (a) focus on and explicitly name GH, (b) offer an original definition or description of GH and/or (c) cite an already-existing definition of GH. Articles that mentioned the query terms without any relation to these requirements (eg, did not provide a definition of GH or descriptive data to support interpretations of a GH definition) were excluded. Assessment for relevance and content was conducted by two investigators who reviewed all identified articles independently. Disagreements were resolved by consensus with a third investigator.

Synthesis strategy: extract the data

Based on the research goals, the team designed an initial coding template in Google Sheets as a method of documentation, with the following coding variables: author, title, typology, definition(s), conclusions and conceptual dimensions. To achieve a high level of reliability, the review team open-coded the same five articles, compared their coding experiences, and reconciled differences before adopting a final coding template and evenly dividing the remaining articles to be analysed. Extracted data included the type of study or research paradigm of each publication, the location and disciplinary affiliation of each study based on the contact information of the

corresponding author, definitions and descriptions of GH and specialised dimensions of GH. Whenever articles contained more than one definition or description of GH, those items were organised line-by-line under the author on the data extraction sheet.

Analysis strategy: analyse the data

The team conducted thematic analysis of the data to understand how GH has been defined since 2009. Our approach to thematic analysis was based on the guidelines described by Thomas and Harden¹⁵ and further informed by principles in grounded theory.¹⁶ Our strategy consisted of three main stages: Initial Coding—remaining open to all possible emergent themes indicated by readings of the data,^{16 17} Focused Coding—categorising the data inductively based on thematic similarity at the level of description¹⁷ and finally, Theoretical Coding—integrating thematic categories into core theoretical constructs at a higher level of analysis.¹⁸

In the first cycle, open descriptive codes were generated (eg, differences between PH and IH, GH education requirements, social justice values) directly from the definitions and descriptions of GH found in the articles. Individual sentences defining or describing GH were treated as unique line items on the data extraction sheet and coded accordingly in order to generate a range of ideas and information on which to build.

In the second cycle, a focused thematic analysis was carried out to identify general relationships and patterns among definitions in the literature and to confirm significant links between the openly coded data. Thematic phrases (eg, GH is multidisciplinary, GH promotes equity) were developed and reapplied to coded definitions on the data extraction sheet. Team members wrote and attached analytic memos to each coded datum—reflecting on emergent patterns and further 'codeweaving',¹⁸ which is a term for charting possible relationships among the coded data. At this stage, additional coding techniques were utilised. Attribute coding was applied as a management technique for logging information about the characteristics of each publication.¹⁹ Data segments coded in this manner were extracted from the main data extraction form and reassembled together in a separate Google Sheet for further analysis. The team also coded extracted definitions of GH by type: (a) original definition, (b) cited definition, (c) original description to track possible relationships between citational practices and developments in the conceptualisation and definition of GH.

In the third cycle, thematic phrases were ordered according to frequency then commonality and abstracted for overriding significance into theoretical categories. At this stage, the conceptual level of analysis was raised from description to a more abstract, theoretical level leading to a grounded theory. This resulted in the construction of four thematic categories, which are presented below with their supporting subthemes.

Table 1 Summary of characteristics of retrieved publications

Study type	Publications (n=78)
Perspective/commentary	27
Review/overview article	24
Mixed methods	11
Qualitative methods	13
Quantitative methods	1
Book chapter	2
Study setting (region/country)	
North America	n=40
USA	30
Canada	10
Europe	n=29
England	16
Netherlands	1
Switzerland	2
Germany	6
Norway	2
Croatia	1
Spain	1
Belgium	1
Africa	n=3
South Africa	3
Latin America & Caribbean	n=2
Brazil	1
Caribbean, Trinidad & Tobago	1
Asia	n=2
Bangladesh	1
Israel	1
Oceania	n=1
New Zealand	1
Authors' departmental affiliation	
Health	n=61
Medicine	27
Global health	10
Public health	10
International health	6
Nursing	3
Tropical medicine and hygiene	1
Global public health	1
Epidemiology	1
Other (health science, health admin, etc.)	3
Legal, social, cultural	n=14
Policy/political science	6
Anthropology	4
Sociology	3
Law	1
Education	n=2

Continued

Table 1 Continued

Study type	Publications (n=78)
Engineering education	1
Medical education	1

Patient and public involvement

Patients and public were not directly involved in this review; we used publicly available data for the analysis.

RESULTS

The search strategy retrieved bibliographic records for 1363 papers. The assessment strategy resulted in the elimination of 1237 papers after the removal of duplicates. Consequently, 78 papers were subjected to our strategies of synthesis (data extraction) and analysis.

Characteristics of study

A variety of studies were included in this review. The majority (27) were commentaries, viewpoints or debates.^{1 20-48} Twenty-four were grouped as review/overview articles.⁴⁵⁻⁶⁸ There were 25 original research articles, of which 13 used qualitative methods,⁶⁹⁻⁸¹ 11 used mixed-methods⁸²⁻⁹² and one⁹³ used quantitative data from a survey to proffer definitions of GH. Two studies included in the review were book chapters.^{94 95}

The typologic, geographic and disciplinary distribution of the studies in this review are shown in **table 1**. Most studies were authored in North America (40),^{120-3139-414346475054-58 61 63 66 68 70 73 74 76-80 83 84 86 87 89-91 94} followed by European countries (29),^{22 26 28 32 34-38 42 44 45 48 51 525962646567717582858892939596} countries in Asia (2),³³⁷² Latin America and the Caribbean (2),^{60 81} and New Zealand (1).²⁰ Disciplinary fields represented in our sample included health (56),^{20 22-27 30-32 34-40 42 43 45-51 54-56 58-61 63-69 72 74 75 77-79 82-84 86 88-91 93 95} law, social and cultural professions (19),^{1 20 28 29 33 41 44 52 53 57 62 70 71 73 76 80 81 87 92 94} and education (2).^{20 31}

Attributes of definitions

All 78 studies under review defined, described and/or cited extant definitions of GH. The 34 papers shown in **table 2** included descriptive definitions of GH that were formulated distinctly by its authors, that is, they were presented as original and without direct reference to other definitions.

Several scholars engaged directly with the Koplan *et al* definition of GH¹ to stipulate definitions of their own. For example, some authors proposed amendments to Koplan *et al* that would place greater emphasis on inequity reduction and the need for collaboration,²⁰ particularly with institutional partners from developing countries.⁷³ Others were more critical of the broad yet weak conceptual idealism⁸⁶ of Koplan *et al* and recommended detaching normative objectives from its definition,²⁶ such as the value-laden concept of equity, which could compromise the definition's technical neutrality

Table 2 How global health has been defined by academics since 2009

Year	Reference	Author	Definition
2009	1	Koplan <i>et al</i>	Global health is an area of study, research and practice that places a priority on improving health and achieving equity in health for all people worldwide. Global health emphasises transnational health issues, determinants and solutions; involves many disciplines within and beyond the health sciences and promotes interdisciplinary collaboration and is a synthesis of population-based prevention with individual-level clinical care.
2009	56	Janes and Corbett	Global health is an area of research and practice that endeavours to link health, broadly conceived as a dynamic state that is an essential resource for life and well-being, to assemblages of global processes, recognising that these assemblages are complex, diverse, temporally unstable, contingent and often contested or resisted at different social scales.
2010	20	Beaglehole and Bonita	Our proposed definition for global health is collaborative transnational research and action for promoting health for all.
2010	22	Bozorgmehr	The field is about building and rebuilding, researching and analysing, teaching and learning the links between social determinants of people's health anywhere in the world.
2010	49	Crump and Sugarman	Multiple disciplines and multiple activities take place under the umbrella of global health including in the clinical, public health, research and education arenas.
2010	50	Frenk <i>et al</i>	Global health is the goal of improving health for all people in all nations by promoting wellness and eliminating avoidable disease, disability and death. It can be attained by combining population-based health promotion and disease prevention measures with individual-level clinical care (US Institute of Medicine, 2009).
2010	27	Fried <i>et al</i>	Global health and public health are indistinguishable. Both view health in terms of physical, mental and social well-being, rather than merely the absence of disease. Both emphasise population-level policies, as well as individual approaches to health promotion. And both address the root causes of ill-health through a broad array of scientific, social, cultural, and economic strategies.
2010	51	Haffeld <i>et al</i>	The term 'global health' implies a globally shared responsibility to provide health as a public good through an expansive number of initiatives.
2010	76	Lakoff	Global Health is a contested ethical, political and technical zone whose contours are still under construction.
2011	46	Arthur <i>et al</i>	Global health issues of the modern world require coordinated multisectoral, multidisciplinary and multinational efforts to achieve effective resolutions to new multidisciplinary multinational health challenges produced by globalisation.
2011	70	Brada	'Global health' is an argument, a position, as much as, if not more than, a thing-in-the-world. The terms of 'global health' are best understood as chronotropic, and demonstrate how actors orient themselves and others spatio-temporally, morally and professionally
2011	89	Redwood-Campbell <i>et al</i>	The 11 defining values and principles for global health are: social justice, sustainability, reciprocity, respect, honesty and openness, humility, responsiveness and accountability, equity and solidarity.
2012	23	Campbell <i>et al</i>	The primary characteristics of a global health definition—that it crosses borders, has a multitude of causes and involves a range of means and solutions—imply the need for multiple professionals and disciplines in addition to medical professionals... but may not always be needed. A multidisciplinary approach is often, but not always, needed and beneficial and is therefore not an essential component of the field of the definition.
2012	78	Peluso <i>et al</i>	The definition of global health must be rooted in health equity and focus on the collaborative and multidisciplinary nature of global health, with an emphasis on cross-cultural interactions.
2013	86	Garay <i>et al</i>	We articulate principles that should apply to collective action on global health. These three principles are health for all (for all people worldwide), health by all (by a representative range of stakeholders and actors) and health in all (multisectoral efforts to increase health, with special attention to social determinants of health).
2012	32	Rowson <i>et al</i>	Global health is a field that is characterised by vast differences in the phenomena that can be studied, stretching from economic, political and social relationships to biological processes and even to the technologies that deliver health-sustaining resources such as water, sanitation and agricultural improvements.
2013	94	Farmer <i>et al</i>	Global health is not yet a discipline but rather a collection of problems. The authors of this volume believe that the process of rigorously analysing these problems, of working to solve them and of transforming the field of global health into a coherent discipline demands an interdisciplinary approach.
2013	25	De Cock <i>et al</i>	The New Global Health concerns health in all countries and encompasses poverty alleviation, universal health security and delivery of appropriate public health and clinical services, including for the increasing prevalence of noncommunicable diseases.
2013	33	Margolis	Global Health cannot be defined precisely, but several different authoritative bodies have agreed on key elements to a valid definition. These four key elements—(1) equity, (2) global preventive medicine, public health and primary care, (3) cross-cultural sensitivity and (4) interaction of medicine and supporting disciplines, for example, anthropology, engineering, healthcare administration, agriculture, etc.,—can be used to guide curriculum development.
2014	45	Aluttis <i>et al</i>	Worldwide improvement of health, reduction of disparities, and protection against global health threats (The European Commission, 2009).

Continued

Table 2 Continued

Year	Reference	Author	Definition
2014	95	Haines & Berlin	The term 'global health' describes the phenomenon of determinants of health transcending national boundaries due to unprecedented growth in international travel, global trade and investment, and an increased flow of information and technology having a pervasive impact on the determinants of health, the spread of disease and the functioning of health systems
2014	31	Kuhlmann	(T)he term 'global health' seeks to convey that health issues are universal, that health issues transcend national boundaries, and that diseases can and often do spread quickly (and often without respect for political boundaries)
2014	60	Nascimento <i>et al</i>	Global Health, formerly 'International Health', involves numerous aspects of health policies, epidemiology, prevention, diagnosis and therapy for neglected diseases and is not restricted to low resource regions. It is supported by four main bases: (A) clinical decision based on data and evidence; (B) population-based rather than individual focus; (C) social goals; (D) preventive rather than curative care.
2014	91	Rowthorn and Olsen	Global health is by definition and necessity a collaborative field; one that requires diverse professionals to address the clinical, biological, social and political factors that contribute to the health of communities, regions and nations.
2014	43	Steeb <i>et al</i>	Similar to public health, global health focuses on preventive measures, population-based care and health equity, including social and economic determinants of health.
2015	26	Engebretsen and Heggen	By adding 'global' to 'health', we presume that there is a universal health standard. Thus, global health both alludes to supranational dependency within the health field and refers to a norm or vision for health with global ambitions. It implies a homogenisation of a world view of health with someone in the role as Cosmotheros (world viewer).
2015	87	Gostin and Friedman	Global health entails ensuring the conditions of good health—public health, universal health coverage and the social determinants of health—while justice requires closing today's vast domestic and global health inequities.
2015	35	Marten	Whereas public health acknowledges the state as a dominant actor, global health recognises the rise of other actors like international institutions, civil society and the private sector affecting health and health policies transcending states.
2016	21	Benatar	Global health, appropriately understood as an ecocentric concept, embraces the idea of healthy people on a healthy planet. This notion goes beyond anthropocentric considerations on health to include the importance of the interconnectedness of all life-forms and human well-being on an ecologically threatened planet.
2016	67	Wernli <i>et al</i>	We propose here a definition of global health based on six core principles: (1) cross-border/multilevel approach, (2) interdisciplinarity/transdisciplinarity, (3) systems thinking, (4) innovation, (5) sustainability and (6) human rights/equity.
2016	68	Wilson <i>et al</i>	We define global health as health problems, issues and concerns that transcend national boundaries, may be influenced by circumstances or experiences in other countries and are best addressed by cooperative actions and solutions.
2018	75	Havemann and Bösner	Global health comprises aspects of (tropical) medicine, international health, public health and other disciplines. Additionally, it includes global aspects in the sense of 'global as suprateritorial'.
2018	28	Horton	Global health is not about equity. It is about power.
2018	59	Mews <i>et al</i>	The following three core elements form a working definition of global health and constitute an innovative and necessary perspective for medical education: health as a human right; global perspective; interdisciplinarity

by rendering it ideological.⁹¹ Other authors sought to analytically clarify the meaning of 'the global'²⁶ in the definition provided by Koplan *et al*, distinguish it more clearly from IH⁷⁸ or dispute their distinction between GH and PH.²⁷ Indeed, the impact of the definition of GH proposed by Koplan *et al* has been substantial. It was variously adopted by the Consortium of Universities for Global Health,⁴⁷ the Canadian government,²³ Global Health for Family Medicine,⁸⁹ the German Academy of Sciences⁷⁵ and the Chinese Consortium of Universities for Global Health.⁷⁷

In general, GH was defined as a term,^{37 51 95} and in particular, an umbrella term^{49 75} or a concept;⁶⁹ and more broadly as a zone⁷⁶ or field^{32 48 91 94} or area of research and practice,^{1 56} as an achievable goal,⁵⁰ an approach,^{48 82} a set of principles,^{45 83} an organising

framework for thinking and action⁹⁶ or a collection of problems.^{35 94} GH was frequently contrasted to IH^{32 35 68 69 94 95} and PH,^{20 21 31 32 35} or else seen as indistinguishably from PH and IH.²⁷ Additionally, several papers explicitly specified and subsequently defined certain dimensions of GH, such as 'global health governance' (GHG),^{32 33 35 38 42 51 52 58 69 80 81 87} 'global health diplomacy' (GHD),^{24 28 95} 'global health education',^{36 39 46-49 59 70 74 75 77 78 82 89 93} 'global health security',^{26 41 76 88 92 97 98} 'global health network',^{41 81} 'global health actor',⁵² 'global health ethics',⁶⁹ 'global health academics',^{64 67} and 'global health social justice'⁶¹ (see table 3).

Grounded theory approach based on thematic analysis

Definitions and descriptions of GH were aggregated into nine thematic codes reflecting the contents and scope

of GH definitions, the functionality of those definitions and/or perceptions about defining GH. Codes were: (1) GH is a domain of research, healthcare and education, (2) GH is multifaceted (disciplinary, sectoral, cultural, national), (3) GH is rooted in a commitment to equity, (4) GH is a political field comprising power relations, (5) GH is problem-oriented, (6) GH transcends national borders, (7) GH is determined by globalisation and international interdependence, (8) conceptually, GH is either similar or dissimilar to PH, IH and TM and (9) GH is perceived as definitionally vague.

These codes were grouped selectively into higher analytical categories or theoretical statements as grounded in the literature: (1) GH is a multiplex approach to worldwide health improvement and form of expertise taught and researched through academic institutions, (2) GH is an *ethos* (ethical orientation and appeal) that is guided by justice principles, (3) GH is a mode of governance that yields degrees of national, international, transnational and supranational influence through political decision-making, problem identification, the allocation and exchange of resources across borders, (4) GH is a polysemous concept with many meanings and historical antecedents, and which has an emergent future (table 4).

Theme: global health is a multiplex approach to worldwide health improvement taught and pursued through research institutions

Subtheme: GH is a domain of research, healthcare, education

GH was repeatedly defined as an active field of knowledge production that is composed of the following key elements: research, education, training and practice related to health improvement.^{1 20 21 23 32 33 35 38 40 44–49 52 55–58 61 63–69 72 74 75 77 78 80 82 90–92 94}

Few authors defined GH as a new, independent discipline within the broader domain of medical knowledge,^{17 33 38 46 63 74 80 82 90} and some outlined discipline-specific competencies that were considered integral to the definition of GH, at least in curriculum development; for example: clinical literacy,⁸⁰ medical humanities,⁸² cross-cultural sensitivity,^{33 38 46 59 63 80 90} experiential learning⁴⁷ and critical thinking skills.^{72 82} Several authors defined GH as a diffuse arena of scholarship that spans an array of academic disciplines, including anthropology, engineering, law, agriculture and healthcare administration.^{44 56 59 63–65 78 91 94} Others defined GH explicitly as a ‘transdiscipline’ that seeks to transcend the restricted gaze of any single discipline and consequently integrate knowledge from a variety of sources.^{67 94} Several authors explicitly defined

Table 3 Frequently defined facets of ‘Global Health’ with exemplary definitions

Defined dimensions of global health (GH)	No. of publications defining this dimension	One exemplary definition for each dimension
GH governance	12	Global health governance refers to ‘trans-border agreements of initiatives between states and/or non-state actors to the control of public health and infectious disease and the protection of people from health risks or threats’, it involves multilateral and bilateral agencies, scientific and public health epistemic communities, private philanthropists, the private sector and public-private initiatives, and a range of community and international non-governmental organisations. ⁵²
GH diplomacy	3	There is also growing activity in the field of global health diplomacy which ‘brings together the disciplines of public health, international affairs, management, law and economics and focuses on negotiations that shape and manage the global policy environment for health’. It encompasses interdisciplinary study of the two-way relationship between diplomacy and foreign policy on the one hand and health on the other and promotes education of diplomats in global health together with educational initiatives to improve mutual understanding with a special focus on the negotiation process—particularly the interface between technical and political issues that arise in global health agreement. ⁹⁵
GH education	14	We propose an accepted definition of paediatric GH tracks as ‘a longitudinal area of concentration dedicated to global child health, offered within a residency program, which includes a formal curriculum and mentorship with required scholarly output for a defined cohort of pediatric residents’. ⁷⁴
GH security	6	The WHO defines global health security as: The activities required, both proactive and reactive, to minimise vulnerability to acute public health events that endanger the collective health of national populations, as well as collective health of populations living across geographical regions and international boundaries. ⁴¹
GH network	2	Global health networks are webs of individuals and organisations linked by a shared concern to address a condition that affects or potentially affects a sizeable portion of the world’s population. ⁴¹
GH actor	1	Accordingly, a global health actor is defined as an individual or organisation that operates transnationally with a primary intent to improve health. ⁵⁴
GH ethics	1	A new shared paradigm for global health ethics would increase capacity for all decision-makers involved in global health research and practice by combining moral and scientific starting points for research with a more comprehensive relationship model inclusive of solidarity and social justice. ⁶⁹
Academic GH	2	We propose the following definition of academic global health: within the normative framework of human rights, global health is a system-based, ecological and transdisciplinary approach to research, education and practice which seeks to provide innovative, integrated and sustainable solutions to address complex health problems across national boundaries and improve health for all. ⁶⁷
GH social justice	1	Defining attributes of social justice in global health include (a) equity in opportunity for health, and (b) caring and cooperative societal relationships. ⁶¹

Table 4 Defining global health with grounded theory analysis—table of themes, code categories and quotes from text

Key emergent themes	Selective codes	Quotes from literature
Global health is a multiplex approach to worldwide health improvement and a form of expertise taught and pursued through research institutions	Research, healthcare, education multi- (disciplinary, cultural, sectoral, national)	<p>'Global health remains a diffuse and highly diverse arena of scholarship and practice'⁵⁶</p> <p>'Because global health is composed of, and relies on, multiple disciplines and sectors of society—which work from different languages, values, motivations and perspectives—it is important that at the very least there be a clear communication of what each actor is referring to when they use the term global health'²³</p> <p>'The term Global Health has become increasingly used over the last decade; while some debate remains about its meaning and how it has emerged, there is a growing consensus that it applies to the health needs of all the people on the planet and the socioeconomic frameworks that influence these'³⁷</p>
Global health is an ethical initiative that is guided by justice principles	Values of equity and social justice	<p>'The goal of global health is to improve health and achieve equity in health for all people worldwide'⁷⁷</p> <p>'These (global health principles) can be summarized as health for all people, through health by all actors, and health in all policies'⁸⁶</p> <p>'More today than ever, global health is in need of a renewed ethic, the ethic of universal rights, so that every human being may have an opportunity to achieve his or her full potential'⁶⁶</p>
Global health is a mode of governance that yields influence through political decision-making, problem identification, the allocation and exchange of resources across borders	Power and politics, identifying problem and solutions, transcends national borders, globalisation, and international interdependence	<p>'At the bottom line: “global health”, research, education and practice are nested in a highly “politicised” environment, locally as well as supraterritorially. All areas accommodate their own, but interdependent political economy'²²</p> <p>'A strong internal frame unifies the policy community through an agreed-upon definition and cause of the problem as well consensus on the preferred solutions'²⁹</p> <p>'Unprecedented growth in international travel, global trade and investment and an increased flow of information and technology are having a pervasive impact on the determinants of health, the spread of disease and the functioning of health systems. As a consequence, it is increasingly recognised that many determinants of health transcend national boundaries and the term “global health” is increasingly used to describe this phenomenon'⁹⁵</p>
Global health is a vague yet versatile concept with historical antecedents and an emergent future	Dis/similar to PH, IH and TM; literally defined as 'vague' and/or in need of further definition	<p>'The term global health is relatively new and overlaps with the preexisting fields of international health, public health, and tropical medicine'⁵⁷</p> <p>'There are multiple expressions of global health in the international literature, and it is useful to review selected examples, because they call attention to diverse dimensions of global health.'⁶⁴</p> <p>'There has been a tremendous amount of discussion about global health without rooting the term itself to a common definition. Countless books and journal articles have been written and university programs have been designed around global health without a definition of the term. There are numerous examples of work being done in this field without a clear definition in place. Indeed, it is often not clear how people and organizations engaged in global health are using the term'²³</p>

IH, international health; PH, public health; TM, tropical medicine.

GH as a necessarily collaborative field.^{1 20 22 24 36 43 45 47 57 61 63 68 77 78 80 91}

Subtheme: GH is multifaceted (disciplinary, sectoral, cultural, national)

The prefix 'multi-' was consistently applied in definitions of GH to describe a perspective that focuses on the multitude of interrelated factors, dimensions, values and features that underpin health as well as efforts to improve and study it. There was broad agreement that multidisciplinary is a defining characteristic of GH.^{1 23 25 32–34 36 38 40 45–47 49 52 55–57 59 60 64–69 72 75 77 78 80 82 91} However, there was some debate whether multiple disciplines are always needed and beneficial—and therefore essential—to the definition of GH.²³ One author argued that the multidisciplinary nature of GH is precisely what differentiates it from PH and IH.⁶⁸ Although some claimed that GH, with its focus on social and economic determinants, is inherently 'predisposed to include aspects of the liberal arts and social sciences',⁷⁵ others critically observed that most GH educational opportunities still cater predominantly

to medical students,^{32 35 48 72} which suggests that greater efforts will be required to achieve multidisciplinary in the field moving forward.

There was a correspondence between GH definitions citing multidisciplinary and cultural competency.^{32 33 38 48 49 56 78 82 90} Curiously, multisectorality was less frequently mentioned than multidisciplinary in definitions of GH, though it was referenced in some papers.^{20 22 43 52 66 83 86 95}

Theme: global health is an ethical initiative that is guided by justice principles

Subtheme: GH is rooted in values of equity and social justice

Equity and social justice were the two most commonly and explicitly referenced values undergirding GH definitions and goals. Equity was repeatedly framed as a 'main objective',⁶⁰ and core component of GH research and practice.^{23 25 43 46 48 53 66 67 77 78 84} However, it remains unclear whether the authors in our sample share the same meaning of equity. Velji and Bryant defined equity broadly as 'ensuring

equal opportunities and resources to enable all people to achieve their fullest health potential'.⁶⁶ Meanwhile, others rooted their conceptualisation of equity more specifically in the principles of social justice^{30 61 69 88 89} or the human rights concept of equality,^{54 62 67 83 86} which asserts that 'all people are equal in regard to dignity and rights, regardless of their origin and all biological, social or other specific differences'.⁵⁹ This postwar sensibility echoes the 1978 Alma Ata Declaration of 'health for all',^{20 24} as well as a traditional humanitarian ideal, even if now associated with principles grounded in national and global security.^{24 54 88}

Occasionally, the terms 'equity' and 'equality' were used interchangeably, suggesting they possess a commonly shared valence and reciprocal relationship despite slight differences in signification. Whereas equity refers to the provision of resources and opportunity based on specific needs, equality connotes providing the same level of resources and opportunities for all.⁸⁶ Nevertheless, other scholars questioned whether equity or equality should be included in official definitions of GH, at all,^{27 48 75} insofar as what counts as 'equitable' for one country may be different for another.^{26 32 48}

Theme: global health is a form of governance that yields national, international, transnational and supranational influence through political decision-making, problem identification, the allocation and exchange of resources across borders

Subtheme: GH is a political field comprising power relations at multiple scales

Numerous papers defined GH as embedded within a political field comprising power relations at multiple scales.^{20 22-24 26 28 29 31-33 35 41 42 45 48 51-54 56 58 60 63 66 70 72 76 79 87 95} 'Political field' refers here to a sphere of influence and jurisdiction wherein institutions determine governing modalities (eg, laws, policies, instruments) to assure a range of activities, such as determining priorities, coordinating stakeholders, regulating funding mechanisms, establishing accountability, allocating resources and providing access to health services for the general public. 'Power relations' refers to the capacity of institutions, individuals, instruments and ideas to affect the actions of others; and 'at multiple scales' refers to levels of analysis (ie, worldwide, regional, national, local, etc.).

Within the literature on GHG and GH security, authors argued the need for a universal definition of GH to shape policy frameworks that ensure compliance with IH law.^{32 45 51 88 95} Here, it is important to note that the ability to shape GH policy is, itself, an exercise in power: some GH actors, defined as 'individuals or organizations that operate transnationally with a primary intent to improve health',⁵⁶ are more capacitated than others to impact the formulation of policies and amount of attention and resources that certain GH issues receive.^{32 41 45 52 95} For example, several papers discussed how 'GH actors' like the World Bank and the WHO shaped discussions

around the response to Ebola, leading to refined definitions of GHG^{35 87 88} and GH security.⁴¹ Similarly, definitions of GH in line with the 2015 United Nations Millennium Development Goals, were also commonly referenced,^{25 35 45 51} reflecting the influence of certain GH actors on the conceptualisation of GH.

Subtheme: GH is determined by globalisation and international interdependence

Numerous authors linked interdependence and accelerating globalisation (the process of integrating governments and markets, and of connecting people worldwide) with the need for a cohesive definition of GH, particularly to address issues of governance.^{24 32 35 45 68 88} GHG and GHD were outlined as two influential subdomains in which the interconnections between globalisation, foreign policy and international relations were viewed as indispensable to definitions of GH. Two articles quoted David P Fidler's definition of GHG as 'the use of formal and informal institutions, rules, and processes by states, intergovernmental organizations, and nonstate actors to deal with challenges to health that require cross-border collective action to address effectively'.^{35 58} Elsewhere, GHD was described as 'bringing together the disciplines of public health, international affairs, management, law and economics and focuses on negotiations that shape and manage the global policy environment for health'.⁹⁵

Subtheme: GH issues transcend national borders

Across several papers, we observed a common refrain that GH 'crosses borders' and 'transcends national boundaries'.^{1 20 23 42 45 52 60 67 68 74} Authors frequently described GH concerns as those exceeding the jurisdictional reaches of any individual nation-state alone.^{34 42 45 51 52 54 77 95} One paper claimed that GH is 'transnational by definition',⁷⁴ and others characterised GH problems as those experienced transnationally.^{20 32 48 50 68}

Studies focusing on GH research and training frequently referenced specific diseases and health risks that 'transcend national borders' alongside parallel recommendations to include an international component in the development of GH curricula.^{16 48 49 63 74 93} While crossing national borders to research and promote health for all is widely perceived as an historical condition for GH²⁴ that has led to GH's emergence as an academic discipline,⁶³ several scholars argued that GH should also focus on domestic health disparities^{1 27 38 46} and for local issues to be simultaneously understood as universal or worldwide^{48 74 75} to the extent they may occur anywhere²² and are almost always impacted by global phenomena.⁵⁶

Subtheme: GH is problem-oriented

Medical anthropologists, Arthur Kleinman and Paul Farmer, described GH as a collection of problems rather than a distinct discipline.^{35 94} Several authors in our review delineated GH problems through identification

of specific diseases, such as HIV/AIDS, malaria, TB, Zika and Ebola.^{24 29 30 35 45 83} Lee and Brumme noted that it has become common for experts to define GH problems by identifying their objects, namely diseases, population groups and locations.⁵⁸ Indeed, some authors outlined GH problems as the set of challenges ‘among those most neglected in developing countries’,⁸⁶ among them: emerging infectious diseases and maternal and child health;^{43 65} diabetes, cardiovascular disease and other noncommunicable diseases in ‘local’ communities^{25 63} and even neurological disorders among refugees arriving in Europe.⁹³ How these types of object-based definitions of GH problems come to shape GH agenda is important to note.

Clark made a compelling argument against the definition of GH problems in terms of specific diseases, writing that such ‘medicalisation’ may ‘prove detrimental for how the world responds and resources actions designed to alleviate poor health and poverty, redress inequities, and save lives’.⁷² Brada also argued against defining GH problems geographically and instead urged experts to consider how the processes by which GH and its quintessential spaces, namely ‘resource-limited’ and ‘resource-poor settings’, are actively constituted, reinforced and contested.⁷⁰ Several authors similarly suggested that focusing on the social, political, economic and cultural forces contributing to health inequity and diseases of poverty better captured the scope of GH problems than naming any particular set of diseases or places in the world.^{33 43 56 58 69 72 73 86 92}

Lack of consensus regarding what counts as a ‘true’ GH problem was linked to the lack of a clear and concise definition of GH. Indeed, several scholars argued that the current inability to define GH made it difficult for stakeholders to define precisely what the ‘problem’ is.^{44 45 48 86} Furthermore, the diagnosis of GH problems determined what types of GH ‘solutions’ were proposed in response. For example, when GH problems were defined as universally shared and transnational, then cross-border solutions were developed; when GH issues were framed epidemiologically in terms of distributed risk, then actions targeting specific determinants and burdens were proposed.^{1 20 23 67 68 92} When GH problems were framed as threats to inter/national security, strategies were formulated to protect borders, economies, health systems and to improve surveillance mechanisms.^{41 45 54 76 80 88} When the problem of inequality drove definitions of GH, recommendations to alleviate poverty, food insecurity, poor sanitation, etc. were proposed.^{32 53 60 72}

Although Kuhlmann suggested that GH tends to over-prioritise problem-identification to the detriment of critical solution-oriented work,³¹ our analysis suggests that the type, scope and quality of solutions proposed are contingent on the elaboration of problems. Similarly, Campbell wrote, ‘Unlike a science or an art, the field of global health is very much about providing solutions to current problems. As such, it would be short-sighted not to consider the causes of global health problems in order

to better formulate the solutions. The causes ought to be included in a comprehensive and complete definition of the field’.²³

Theme: global health is a polysemous concept with historical antecedents and an emergent future

Subtheme: GH is conceptually dis/similar to PH, IH and TM

GH was consistently traced back to and compared with PH, IH and TM.^{1 20 27 32–34 43 57 69 71 75 84 86 88} Disagreement or confusion regarding the degrees of similarity and difference between these domains seemed to stem from a shared understanding that GH, in fact, evolved to a varying degree from each of these fields and does not, therefore, denote a clear-cut break with nor full-blown departure from any of them.^{84 94}

Several authors argued that the scope and scale of GH is distinct from PH.^{1 20 32 69 71} Some argued that ‘public health is equated primarily with population-wide interventions; global health is concerned with all strategies for health improvement,’ including clinical care,²⁰ and that ‘public health acknowledges the state as a dominant actor, (while) global health recognizes the rise of other actors like international institutions’.³⁵ GH was also seen as placing a greater emphasis on multidisciplinary and promoting a more expansive conceptualisation of ‘health’, itself, compared with PH.⁶⁹ Beyond the prevention of and response to biomedicalised health risks at the population level, Rowson defined GH as oriented towards the ‘underlying determinants of those problems, which are social, political and economic in nature.’³² It is questionable, however, to assume similar notions of health have not also been pursued in PH. Meanwhile, opposing views found GH and PH conceptually indistinguishable,^{27 43 86} either as terms that could be used interchangeably,⁹⁵ or else as coconstitutive of one another, such that PH could be understood as a descriptive component of GH.^{33 86}

Differences between GH and IH echoed those drawn between GH and PH. For example, GH was characterised as more attentive to multidisciplinary, while IH was said to implement a more limited biomedical approach to healthcare and health research.^{1 69 95} Undergirding a major point of distinction between GH and IH was the belief that IH focuses on health problems in developing countries^{1 22 32 43 45 48 54 83 86 93} and relies on ‘the flow of resources and knowledge from the developed to the developing world’,³² whereas GH either is, or should be, more bidirectional.^{1 45 84} In other cases, GH was described as comparable to IH, for example, when countries link GH efforts with development aid.⁸⁶ This is because the emphasis on delivering aid to poor countries reinforces an image of the world’s poor as needy subjects and, therefore, marks a continuation of IH and its sentiments under the guise of GH.³⁵

Finally, the field of TM was referenced to describe the evolutionary track of GH, particularly that GH is a modern-day product of the former.^{20 25 57 69 75 84} A few

authors critically pointed out that although GH has generally replaced TM and IH as terms embedded in histories of colonial power relations, many of the contemporary structures for governing and/or facilitating GH between countries today have remained largely the same,^{25 48 54 62} suggesting that distinguishability between these terms too often occurs at the level of semantics.

Subtheme: GH is still vaguely defined

While GH was often described as a popular and well-established term, another key attribute repeated across the literature was its enduring vagueness.^{23 25 26 31 33 43 45 48 52 62 74–77 81 86} Indeed, most papers commented on the term's defiance of easy definition, its ambiguity and the lack of clarity regarding how people and organisations engaged in GH are using (or not using) the term to describe their interests. For example, Beaglehole and Bonita pointed out that research centres in low-income and middle-income countries are often engaged in GH issues but under other labels.²⁰ Some authors viewed the present lack of a clear and common definition as an obstacle endangering the coherence and maturation of the field.^{33 35 45} For others, this indistinctness was thought to be precisely what gives GH such wide applicability, a certain degree of currency and political expediency.^{45 76 81 86}

A major concern cited was the lack of guidance for defining the term 'global' in GH.^{26 34 43 48 75} As Bozorgmehr has outlined, the term is often used interchangeably within the GH community to mean 'worldwide', 'everywhere', 'holistic' and/or 'issues that transcend national boundaries'.⁴⁸ This trend was noticeable within our review, as well. Engebretsen emphasised that GH 'does not only allude to supranational dependency within the health field, but refers to a norm or vision for health with global ambitions'.²⁶ This view suggests that because the planet is populated by a multiplicity of positionings, perspectives and diverse world views, there can never be a truly a universal definition of 'the global' nor a global consensus around the definition of GH.

Finally, among studies that conducted original research into the definition of GH, several reported that study participants could not reach consensus on a definition.^{52 74 75 77} Many thought it would be difficult if not impossible to arrive at a single, unified theoretical definition of GH, yet considered it important to formulate an operational definition of GH for guiding emerging activities related to GH.^{23 45 77}

DISCUSSION

This is the first study to systematically synthesise the literature defining GH and analyse the definitions found therein. All of the articles included in this study were published in peer-reviewed journals since 2009 indicating recent and steadfast interest in the topic of GH's definition. This review examined GH definitions in the

literature, and our thematic analysis focused on identifying recurrent themes across different definitions of GH.

Of the 78 articles included in this study, approximately one-third utilised empirical research methodologies to posit definitions of GH or else directly contribute towards the establishment of a common definition. Another one-third of papers summarised and discussed previously published definitions of GH (eg, reviews/overviews), while the remaining one-third suggested definitions of GH that were less grounded in analysis of empirical data than in the perspectives of its authors (eg, editorials, viewpoints). This systematic analysis indicated that the question of GH's precise definition marks a point of controversy across fields of expertise. The variety of GH definitions posited by diverse experts in search of a common definition indicate that GH is multifaceted and polysemous.

In its broadest sense, GH can be defined as an area of research and practice committed to the application of overtly multidisciplinary, multisectoral and culturally sensitive approaches for reducing health disparities that transcend national borders. Indeed, it was most commonly defined across the literature in such general terms.

More specific definitions of GH were, of course, proposed by and considered valuable for many stakeholders in our review. Our analysis indicates that the precise definitions proposed by different experts were devised to serve particular functions. For example, narrow and concise definitions of GH were most frequently sought in the domains of governance and education, primarily for steering the development of policy frameworks and curricula, respectively. The imperative for an exact definition of GH in these subfields may be linked to bureaucratic demands for demarcating a technical term under which to classify specific activities, standardise certain functions, administer funds and direct workflow accordingly. It is also in this domain that authors most vociferously decried the absence of a unified and concise definition of GH, arguing this lack has led to ineffective initiatives, elusive methods for establishing accountability and instances of resource allocation based on ad hoc criteria—attractiveness to donors, public opinion, development agenda, foreign, economic or security policy priorities and so on—rather than via transparent mechanisms for adjudicating health need.^{28 54 58 65 83} In contexts where health needs and upstream challenges were articulated, the lack of an agreed-upon definition oft impeded the policy process because stakeholders could not discern which GH issues among the multitude of different problems labelled as important were, in fact, the most pressing.^{24 45 52} Because political indecision ramifies disproportionately for publics in countries where reliance on GH aid is a matter of life and death, establishing a clear definition of GH seems most crucial for the domain of governance.

We also found that detailed descriptions of GH's specific conceptual and functional dimensions tended

to reflect the specialisations or discipline-specific priorities of their authors. For example, definitions of GH stipulating the primacy of ‘cultural competency’ and ‘multidisciplinarity’ were more commonly proposed by interdisciplinary professionals in the literature on GH education than in journals of health policy, where definitions of GH were oriented more toward ‘security’ and ‘governance’ concerns. This suggests a correspondence between the subjective, experiential positions of the definers and the vocabulary they used to define or frame the need to define GH.

Unsurprisingly, we found that health professionals proposed the majority of definitions of GH in the literature. Additionally, the majority of publications and their authors were from higher income countries. Several authors in our review critically observed that GH has become institutionalised at a faster rate in higher income countries compared with lower and middle-income countries.^{20 48 63 72 77 82} Their observations combined with our findings suggest that extant definitions of GH published in the literature or otherwise circulating in academic and professionalised spaces may unevenly reflect the interests and priorities of stakeholders from higher income countries. This suggests a need for greater diversity and inclusion in the debate on GH’s definition, as well as further reflexivity regarding who is defining GH, their means and motivations for doing so, and what these definitions put into action.

Interestingly, several articles published since 2019 have extended the debate on this topic of GH’s definition by directly engaging questions of geography and positionality: a recent commentary by King and Kolski defining GH ‘as public health somewhere else’ was met with push-back by those who argue that spatial definitions of GH are limited and limiting.^{99–102}

LIMITATIONS

To determine how GH is defined by experts in the literature, we ensured that the selection criteria developed for this study were broad enough to include a wide range of perspectives. Therefore, we included articles with varying degrees of evidentiary support, such as viewpoints, commentaries and editorials. Consequently, the results may be influenced by some of the primary researchers’ assumptions, projections, and biases. Backward citation tracking was used to add relevant articles to the review that had not been initially identified through database searching. This ensured that the review was exhaustive, however it also means that some conclusions drawn in the thematic analysis may have been influenced by this manual search strategy. By applying qualitative methods, this review provided a robust analysis of the thematic categories undergirding extant definitions of GH. A major limitation of this form of analysis is the extensive time required to develop and establish a code book and standardise the three coders’ use of the code book. However, this was deemed necessary to ensure consistency of

judgement and intercoder reliability at each stage in the analysis. Another limitation of this study is that only articles written in English were included. To enhance the generalisability of results, future reviews should include data from non-English articles, especially if an inclusive, common definition of GH is to be achieved. Finally, this review was finalised prior to the emergence of the novel coronavirus. As such, future research should take into account new definitions of GH that emerge in light of the pandemic and lessons learnt.

CONCLUSION

Between 2009 and 2019, GH was most commonly defined in the literature in broad and general terms: as an area of research and practice committed to the application of multidisciplinary, multisectoral and culturally sensitive approaches for reducing health disparities that transcend national borders. More precise definitions exist to serve particular functions and tend to reflect the priorities of its definers. The four key themes that emerged from the present analysis are that GH is: (1) a multiplex approach to worldwide health improvement taught and researched through academic institutions; (2) an ethos that is guided by justice principles; (3) a mode of governance that yields influence through political decision-making, problem identification, the allocation and exchange of resources across borders and (4) a polysemous concept with historical antecedents and an emergent future. Findings from this thematic analysis have the potential to organise future conversations about which definition of GH is most common and/or most useful. Future discussions on the topic might shift from questioning the abstract ‘what’ of GH to more pragmatic and reflexive questions about ‘who’ defines GH and towards what ends.

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ORCID iD

Melissa Salm <http://orcid.org/0000-0002-3263-9154>

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