

A systematic review of nursing research priorities on health system and services in the Americas

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ABSTRACT

Objective. To systematically review literature on priorities in nursing research on health systems and services in the Region of the Americas as a step toward developing a nursing research agenda that will advance the Regional Strategy for Universal Access to Health and Universal Health Coverage.

Method. This was a systematic review of the literature available from the following databases: Web of Science, PubMed, LILACS, and Google. Documents considered were published in 2008–2014; in English, Spanish, or Portuguese; and addressed the topic in the Region of the Americas. The documents selected had their priority-setting process evaluated according to the “nine common themes for good practice in health research priorities.” A content analysis collected all study questions and topics, and sorted them by category and subcategory.

Results. Of 185 full-text articles/documents that were assessed for eligibility, 23 were selected: 12 were from peer-reviewed journals; 6 from nursing publications; 4 from Ministries of Health; and 1 from an international organization. Journal publications had stronger methodological rigor; the majority did not present a clear implementation or evaluation plan. After compiling the 444 documents’ study questions and topics, the content analysis resulted in a document with 5 categories and 16 subcategories regarding nursing research priorities on health systems and services.

Conclusions. Research priority-setting is a highly important process for health services improvement and resources optimization, but implementation and evaluation plans are rarely included. The resulting document will serve as basis for the development of a new nursing research agenda focused on health systems and services, and shaped to advance universal health coverage and universal access to health.

Key words

Health research agenda; health services research; health systems; nursing staff; public health; Americas.

At the October 2014 meeting of the Directing Council of the Pan American Health Organization (PAHO), Member

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States approved the “Regional Strategy for Universal Access to Health and Universal Health Coverage” (1). The Strategy defined universal access as “the absence of geographical, economic, sociocultural, organizational, or gender barriers,” and health coverage as “the capacity of the health system to serve the needs of the population, including the availability of infrastructure, human

resources, health technologies (including medicines) and financing” (1). The approved document would guide the transformation of health systems toward universal coverage. In addition, the Strategy stated that “developing an adequately financed research agenda and better knowledge management are essential elements in order to address social determinants of health, ensure ac-

cess to quality services, incorporate technology, and evaluate the effectiveness of implemented actions and programs” (1). It is important to understand the concepts of Universal Access to Health (UAH) and Universal Health Coverage (UHC) in this context because success is contingent upon public health leaders fairly and equitably prioritizing health actions (2).

PAHO is committed to promoting and fostering further development of a research agenda for health systems and services that is based on both UAH and UHC (3). The 2013 World Health Report by the World Health Organization (WHO) focused precisely on research for UHC. Such research could develop and strengthen health systems by investigating, for example, financial risk protection or coverage and quality of health services, which would also contribute to the Millennium Development Goals (MDG) and the post-2015 Development Agenda (4–5). Since there are still many more questions than there are answers, it is profoundly important to set priorities (4). Furthermore, both the WHO Strategy on Research for Health and the PAHO Regional Policy on Research for Health have made setting research standards one of their main goals (6–7).

The science of nursing has been the subject of rigorous research, yet there are some important inequalities regarding the capacity of nurses to conduct research and to implement new evidence into their everyday practice. Nonetheless, while the number of publications on nursing research has importantly increased in the last decade, a lower proportion was produced regarding health services and systems research (8–11). Public health services and systems research is a field of investigation that has progressively gained more attention during the last decade (12–14). Nursing health professionals will play an important role in strengthening health systems and services performance and advancing UAH and UHC, people-centered health care, and workforce management and partnerships (15).

The study objective was to systematically identify and evaluate literature on priorities in nursing research on health systems and services in the Region of the Americas. This is a first step toward developing a nursing research agenda focused on health systems and services

that will advance the Regional Strategy for Universal Access to Health and Universal Health Coverage.

MATERIALS AND METHODS

Sources and search strategies

A systematic search was conducted in March–June 2014 and followed the methods proposed by Whittemore and Knafl (16). To guide the systematic review, the study question set was: “Are there priority nursing research agendas focused on health systems and services or public health?”

The literature search included the following databases: PubMed (National Library of Medicine, Bethesda, Maryland, United States); Web of Science (Thomson Reuters, New York City, New York, United States) and LILACS (Latin American and Caribbean Center on Health Sciences Information, São Paulo, Brazil) for peer-reviewed literature; and Google (Google Incorporated, Mountain View, California, United States) for gray literature. The search terms for PubMed and Web of Science were based on MeSH (Medical Subject Headings) and text terms, and for LILACS on DeCS (Descritores em Ciências da Saúde) terms (see Appendix 1). For Google searches, the terms used were “Nursing Research Priorities” (in English, Spanish, and Portuguese), “Agenda Nacional de Prioridades de Investigación en Salud” (in Spanish and Portuguese), and “Agenda de Investigación en Salud Pública” (in Spanish and Portuguese). In addition, an Internet-based search of the official websites of health-related institutions was conducted to identify national health research policies and priority agendas in Latin American and the Caribbean (LAC) countries; documents in the bibliographies of existing materials were also reviewed. The search strategy limits were restricted to studies published in the last 5 years (2008–2013) and in English, Spanish, or Portuguese; however, for the Google searches, a date range was not applied.

Selection process

In the first screening, the titles and abstracts of all the resulting documents were read. To decide which documents and papers would be read in their en-

tirety, and which would be included in the final sample, the researchers applied the following inclusion criteria to each report or paper: 1) It addresses nursing research priorities focused on primary health care systems and services or public health; AND 2) It explicitly formulates research priorities on nursing and/or health systems and services; AND 3) It is related to the Region of the Americas, or on a global scale that includes the Region. If a document met these criteria, the bibliography was reviewed to ensure that all pertinent material was being examined.

Analysis

Information gathered through the systematic review was managed in Microsoft Excel™ (Microsoft Corp., Redmond, Washington, United States) and is described according to the database, year of publication, title of the document, and journal/source of publication.

The final sample of documents was analyzed using “the nine common themes of good practices for health research priority setting” (17). The quality of the domains was identified based on: *preparatory work* (context, use of a comprehensive approach, inclusiveness, information gathering, and planning for implementation); *deciding on priorities* (criteria and methods for deciding on priorities); and *after priorities have been set* (evaluation and transparency).

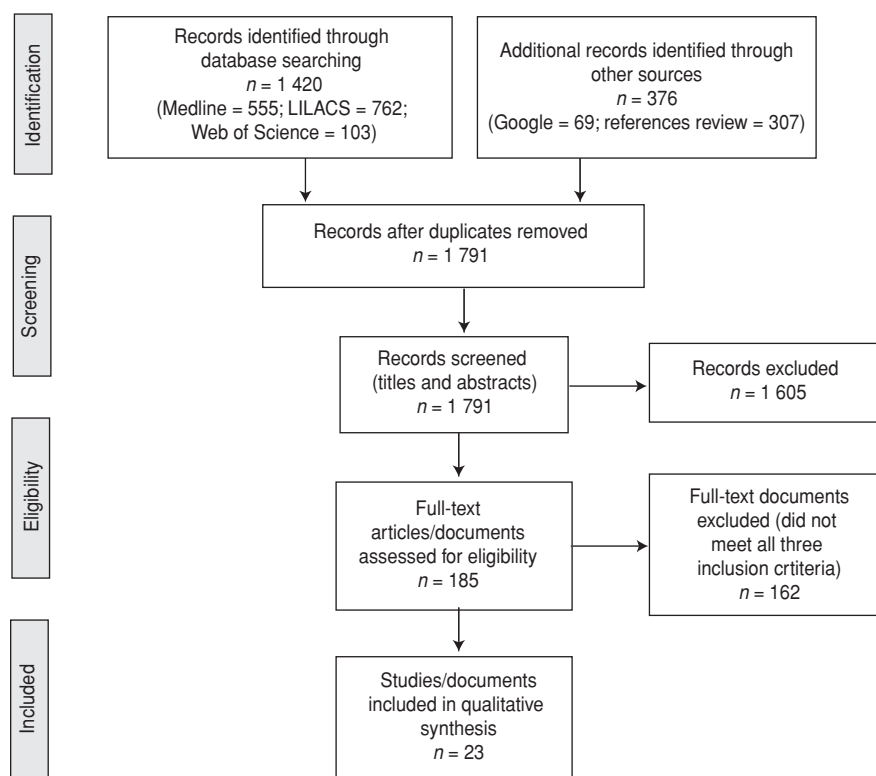
To gather information on priorities for health systems and services research, each document’s study questions and topics were compiled and a content analysis was conducted. Documents were then read thoroughly and a brainstorming session followed to sort them into categories and subcategories.

RESULTS

The database searches resulted in 1 796 documents, as shown in Figure 1. The title and abstract of each document were screened, resulting in 185 full-text articles/documents that were assessed for eligibility. The final selection of 23 documents (12, 14, 18–38) was examined thoroughly.

Despite the broad search of scientific databases, Google results offered the greatest number of important documents regarding health research pri-

FIGURE 1. Flow of documents on health systems and services research priorities retrieved through the different phases of the systematic review, 2014



orities (Table 1); and although most of these were not peer-reviewed, they shared worthy points of view and strong research expertise from Ministries of Health, nursing associations, councils, and networks. In terms of peer-reviewed publications, LILACS database held the greater number compared to PubMed and Web of Science, in part because its is specific to Latin America and the Caribbean, a fact favored by this study's selection criteria.

As expected, many of the studies and nursing associations' documents were related to North America. Of the 23 documents, 10 (43.5%) regarded or discussed North America, mainly nursing associations and networks. Surprisingly, only 4 documents were related to national agendas and focused specifically on health systems and services research: those of Bolivia, Brazil, Guatemala, and Panama (25, 33, 35, 36).

Regarding assessment of research agendas using the "nine common themes of good practices for health research priority setting" (17) displayed in the Table 2, there were a variety of methods used by journal publications and non-peer-

reviewed ones. The former presented a higher level of rigor and frequently combined consensus and metrics approaches when setting priorities; the latter were generally related to consensus methods, sometimes not clearly described.

Equally importantly, most of the agendas did not include adequate implementation and evaluation plans, even those that were peer-reviewed. This was the most important gap found regarding priority-setting methods. Furthermore, 13 of the 23 documents analyzed did not report or were unclear regarding their criteria for the priority-setting process. Yet, one positive finding was that the national agendas and policy strategies (25, 33, 35, 36) and the international organization document (22) involved a wide range of stakeholders in the priority-setting process. Additionally, two references (21, 23), whose objectives did not include setting an agenda, were included despite not meeting some of the instrument evaluation domains because they discussed research priorities on health systems and services in the Americas and displayed its topics, thus meeting all the inclusion criteria.

It became evident during the content analysis that most of the 23 selected documents addressed topics with common themes, making the categorization process relatively straightforward. In addition, the number of research topics and questions retrieved allowed the researchers to carry out a wide analysis of health systems and services research priorities. The study questions and topics extracted from the selected documents resulted in a new document with 444 study questions and topics sorted into five categories and 16 subcategories (Table 3).

DISCUSSION

As expected, articles published through a peer-reviewing process, such as a journal employs, demonstrated a higher level of scientific rigor than others. Almost all of these included complete descriptions of the *context* and methods-related characteristics (comprehensive approach, inclusiveness, information gathering, criteria, and priority-setting method) (17). On the other hand, most of the nursing association, council, and network documents lacked several important methodological factors, such as selection criteria, information gathering, and priority-setting method (17).

Selection criteria plays an important role in setting priorities, and most of the documents were similar in this regard. In brief, they each included characteristics of the problem (magnitude, severity, burden, quantity, and quality of scientific evidence available on the topic); reality of the context (ethical, cultural, political, financial feasibility, and cost-effectiveness of the proposed research); and possible impact (level of resulting evidence and to what extent the answers to certain study questions would add to social well-being and contribute to the development of solutions for health system and services issues). Nonetheless, more than 50% of the documents presented unclear selection criteria and some did not report any at all, which undermines evidence of their priority-setting methods (39).

Another important observation was that most agendas did not present an implementation and/or evaluation plan, obviously creating a challenge for effectively launching its recommendations or monitoring progress. Given that health

TABLE 1. Documents addressing health research priorities focused on health systems and services, by database, year of publication, title and source of publication, Region of the Americas, 2014

Database	Year	Ref.	Title	Journal/source of publication
Medline	2012	18	A public health nursing research agenda	Public Health Nursing
Medline	2010	19	Research priorities for public health nursing	Public Health Nursing/Association of Community Health Nursing Educators Position Paper
Medline	2009	20	Delphi survey of research priorities	Journal of Nursing Management
Web of Science	2013	21	Social determinants of health in nursing education, research, and health policy	Nursing Science Quarterly
Web of Science	2010	22	Priorities for research into human resources for health in low- and middle-income countries	World Health Organization Online Bulletin
LILACS	2013	23	Temas emergentes em ciências sociais e saúde pública/coletiva: a produção do conhecimento na sua interface	Saúde e Sociedade
LILACS	2011	24	Proceso de construcción de la agenda nacional de investigación sobre Recursos Humanos en Salud en el Perú, 2011–2014	Revista Peruana de Medicina Experimental y Salud Pública
LILACS	2006	25	Agenda nacional de prioridades de investigación en salud: Brasil	Ministry of Health of Brazil
LILACS	2000	26	Health systems and services research in Brazil, Argentina, Uruguay and Paraguay: present situation and capacity-building needs preliminary survey	Rede de Investigação em Sistemas e Serviços de Saúde no Cone Sul
Google	2014	12	Using an integrated knowledge translation approach to build a public health research agenda	Health Research Policy and Systems
Google	2013	27	Prioridades de investigación en políticas y sistemas de salud centradas en los recursos humanos en salud	Revista Panamericana de Salud Pública
Google	2013	28	Priorities for evidence in practice: National Association of Pediatric Nurse Practitioners research agenda: 2014–2019	Pediatric Nurses Association
Google	2012	29	A national research agenda for public health services and systems	American Journal of Preventive Medicine
Google	2011	30	Bringing science to life—National Institute of Nursing Research strategic plan	National Institute of Nursing Research
Google	2011	31	National League for Nursing research priorities in nursing education 2012–2015	National League for Nursing
Google	2011	32	American Nurses Association research agenda	American Nurses Association
Google	2009	33	Agenda nacional de prioridades de investigación en salud	Ministry of Health of Bolivia
Google	2007	34	Una agenda de investigaciones en sistemas y servicios de salud en el contexto de la integración regional: informe del Foro MERCOSUR	Cadernos de Saúde Pública
Google	2006	35	Prioridades comunes de investigación en salud 2006–2010	Ministry of Health of Guatemala
Google	2005	36	Políticas y estrategias de salud 2005–2009	Ministry of Health of Panama
Google	— ^a	37	La investigación de enfermería: Instrumento de acción	International Council of Nurses
References review	2012	38	New public health services and systems research agenda - directions for the next decade	American Journal of Preventive Medicine
References review	2010	14	Establishing health systems financing research priorities in developing countries using a participatory methodology	Social Science and Medicine

^a Not reported.

systems and services are extremely complex social structures—multi-layered, nonlinear, and highly sophisticated—linear approaches, such as cause-effect analysis, are often useless; furthermore, research is often conducted in a continuously changing and politically affected environment (40).

An agenda that lacks planning will face enormous barriers when applied, and some broadly recognized health systems' issues are ineffectively addressed for this reason. For example, human resources for health, considered to be a central issue to health systems and services research, have often failed to

address the nursing profession. The unequal distribution and lack of nurses in some LAC countries (34) urge researchers to seek effective solutions for dealing with this deficit.

The documents related to national research agendas (25, 33, 35, 36) showed greater stakeholder involvement by including health institutions, universities, research centers, and practitioners from both public and private sectors, governmental entities, and community and/or civil society representatives in their priority-setting processes. Stakeholder participation is pivotal for successfully implementing a research agenda and for

securing financial support from research funding agencies.

Even so, two (35, 36) of the four national agendas lacked important methodological items, such as information gathering strategies and a complete description of priority-setting methods and criteria. A study comparing LAC countries' research agendas indicated that there is no gold standard for setting health research priorities and that the quality of priority setting methods could be improved in future agendas (41).

Moreover, low- and middle-income countries should be encouraged to use standard approaches to priority-setting,

TABLE 2. Assessment of the research priorities agendas according to the “nine common themes of good practice for health research priority setting,” by type and title of the document, Region of the Americas, 2014

Type and title (Reference)	Objective	Context	Comprehensive approach	Inclusiveness	Information gathering	Plan for implementation	Criteria	Priority-setting method	Evaluation	Transparency
Scientific papers										
Using an integrated knowledge translation approach to build a public health research agenda (12)	To build a public health research agenda in Ontario, Canada	Yes	Yes	Academic institutions, research centers, PH ^a agencies and units, professional associations, Ministry of Health, international guests	Unclear. Environmental scan of emerging trends on PH and on-line survey with experts	Not explicitly reported	— ^b	Consensus and metrics approach	Unclear	Summary of the research agenda available
Prioridades de investigación en políticas y sistemas de salud centradas en los recursos humanos en salud (27)	To identify research priorities for health policy and systems related to human resources in LAC	Yes	Yes	Researchers, experts, decision makers, PH agencies, Ministries of Health	Systematic review of literature	Not explicitly reported	Magnitude and impact of the answer to the study question; feasibility; 4-point Likert scale	Consensus and Delphi method	—	Research questions available
Temas emergentes em ciências sociais e saúde pública/coletiva: a produção do conhecimento na sua interface (23)	To discuss emerging topics on PH	Yes	Unclear	—	Unclear	—	Unclear	—	—	Some research topics available
Social determinants of health in nursing education, research, and health policy (21)	To discuss nursing education and research based on social determinants of health	Yes	—	Unclear. Nursing experts	Documents discussion	Unclear	Not systematic	—	—	Provides link to complete set of study topics and questions
A public health nursing research agenda (18)	To set a priority research agenda on PHN ^c	Yes	Yes	Multidisciplinary: Public health services and systems community: nurses, health professionals and scientists	Invited papers that reviewed research and methods in PHN	Yes	Not explicitly reported	Two meetings: group consensus; ranking questions electronically	Not explicit. Suggestions on how to update	Complete set of study questions and topics
A national research agenda for public health services and systems (29)	To set a national research agenda for PHSS ^d	Yes	Yes	Experts in PHSS research	Inventory from earlier publication	Unclear, mentions the importance of implementation	Experts review: PICOT and CMO frameworks	Two cycles of review; group consensus	Unclear. States the need of monitoring system.	Complete set of study questions and topics
New public health services and systems research agenda—directions for the next decade (38)	To develop a PHSS research agenda	Yes	Yes	Researchers, practitioners, policymakers, state and local health officials, community-based organizations	Systematic Reviews	Not explicit	Unclear	Two webinars with four work groups; consensus	The need of evaluation is highlighted, but no plan is set	Research priorities partially available
Proceso de construcción de la agenda nacional de investigación sobre Recursos Humanos en Salud (RHUS) en el Perú, 2011–2014 (24)	To set a national research agenda for HRH ^e	Yes	Yes	PH services researchers, practitioners, managers, policymakers, faculty members, national councils, international guests	Systematic review; stakeholders views	Unclear	Magnitude; relevance of the problem; feasibility; effect on equity	Three meetings; group consensus	—	Complete set of study questions and topics

(Continues)

TABLE 2. Continued

Type and title (Reference)	Objective	Context	Comprehensive approach	Inclusiveness	Information gathering	Plan for implementation	Criteria	Priority-setting method	Evaluation	Transparency
Research priorities for public health nursing (19)	To set a research priorities agenda for PHN	Yes	Yes	Community Health Nursing Educators; editors; federal agencies	Systematic review: abstracts, federal agencies documents. Built on 2000 and 1992 versions	Unclear	Unclear. Population-focused; PHN education/workforce	Metrics and consensus approach	The current agenda is based on an evaluation of earlier versions	Partially available
Establishing health systems financing research priorities in developing countries using a participatory methodology (14)	To establish health systems financing research priorities in developing countries	Yes	Yes	Policymakers, researchers, practitioners, community/civil societies, international org.s, universities, private/non-profit org. representatives in 24 countries	Key informants interviews; systematic review	Unclear	Answerability; potential impact on health and equity; and extent to which relevant research is lacking	Meeting; Both metrics and group consensus	—	Study questions available
Delphi survey of research priorities (20)	To identify nursing research priorities	Unclear	Yes	Nursing managers and practitioners in a hospital	A questionnaire was applied to the nurses; content analysis	It is mentioned that the agenda was implemented	Importance rating by a 5-point Likert scale	Two rounds Delphi method	—	Study topics available
Una agenda de investigaciones en sistemas y servicios de salud en el contexto de la integración regional: informe del Foro MERCOSUR (34)	To set a PHSS research agenda focusing regional integration between countries pertaining to informe del Foro MERCOSUR	Yes	Yes	Networks representatives; health researchers from LAC and European countries; health practitioners and managers; graduate students	Unclear. Selected studies and key questions	Unclear	—	Two meetings; group consensus	—	Study topics available
Nursing associations, councils or networks										
Priorities for evidence in practice: NAPNAP research agenda: 2014–2019 (28)	To identify gaps in evidence according to previous agendas	Yes	Incomplete	Members of the National Association of Pediatric Nurse Practitioners (NAPNAP)	Unclear	—	—	Online survey to assess existing research agendas	—	Study topics available
Bringing science to life—NINR strategic plan (30)	To set a Nursing Research Agenda in the U.S.	Yes	Yes	NINR staff, scientists, representatives; National Council for Nursing Research; academia, government, industry; community	Unclear	—	Research areas with the greatest needs; impact of research	Six meetings; group consensus	Unclear	Research topics available
NLN research priorities in nursing education 2012-2015 (31)	—	—	—	—	—	—	—	—	—	Research topics available
American Nurses Association research agenda (32)	To identify gaps in evidence for nursing practice	Yes	—	—	—	—	—	—	—	Research topics available
Health systems and services research in Brazil, Argentina, Uruguay and Paraguay: present situation and capacity-building needs preliminary survey (26)	To identify the situation of PHSS research and its current priorities in Brazil, Argentina, Uruguay and Paraguay	Yes	Yes	Universities, research centers, institutions and networks in the four countries	Unclear. Selected studies and surveys with stakeholders	Unclear	—	Group consensus; four surveys (four preliminary); four national seminars and one regional	—	Partially available

(Continues)

TABLE 2. Continued

Type and title (Reference)	Objective	Context	Comprehensive approach	Inclusiveness	Information gathering	Plan for implementation	Criteria	Priority-setting method	Evaluation	Transparency
La investigación de enfermería: instrumento de acción (37)	Unclear	Yes	—	—	—	Yes	—	—	—	Research topics available
Ministries of Health										
Agenda nacional de prioridades de investigación en salud—Bolivia (33)	To set health research priorities	Yes	Yes	Universities; research institutions; health services and NGO's representatives; international cooperation	Experts group work	Suggestions for implementation	Magnitude; determinants; current knowledge; possible impact	Five meetings; group consensus	—	Research topics available
Agenda nacional de prioridades de investigación en salud—Brazil (25)	To set health research priorities	Yes	Yes	Universities; research institutions; managers from the National Health System (SUS); public input	Unclear. Experts opinions and experience through work groups and plenary sessions	—	Burden of disease (DALYs); determinants; top knowledge available; cost-effectiveness of interventions; social and equity impact; ethical, political, cultural and financial feasibility; research quality	5-step group consensus; two meetings; one national seminar and public consultation	—	Complete set of research agendas, its topics and subtopics
Prioridades comunes de investigación en salud 2006–2010—Guatemala (35)	To set health research priorities in Guatemala	Yes	Yes	Ministry of Health; Universities; International organization	Unclear. Brainstorm with groups' members	—	Magnitude, relevance of the problem, contribution to PH development	Two meetings with three work groups; consensus	—	Research topics and subtopics available
Políticas y estrategias de salud 2005–2009 — Panamá (36)	To evaluate and set health policies and strategies	Yes	Yes	Ministry of Health; Community leaders; civil society	Unclear. Policies review; bibliography support from PAHO	Unclear	—	Unclear. Review and analysis of the country's situation on health	—	Unclear
International organizations										
Priorities for research into human resources for health in low- and middle-income countries (22)	To identify the HRH policy concerns and research priorities in low- and middle-income countries	Yes	Yes	Health policy-makers; researchers; community and civil society representatives in 24 countries in four regions	Interviews with key informants; systematic review	—	Three-point Likert scale; answerability; impact on health; lack of research on the topic	Group consensus; research questions ranking	—	Complete set of research questions

^a Public Health^b Not reported^c Public Health Nursing^d Public Health Services and Systems^e Human Resources for Health^f Latin American and Caribbean countries^g Disability-Adjusted Life Years

TABLE 3. Resulting categories and subcategories from the content analysis of the 444 study questions and topics extracted from the 23 selected documents on health systems and services research priorities, Region of the Americas, 2014

Human resources for health	Health systems and services structure, organization, dynamics	Science, technology, innovation, and information systems	Health systems and services finances	Health policies, governance, and social control
• Policies and planning • Education and professional competencies • Cost and effectiveness • Distribution • Recruitment, retention and migration • Occupational health	• Models and structure of health care • Quality improvement, patient safety and accreditation • Healthcare work process and inter-professional collaboration • Public health performance	• Health records, information and communication • Health science, technology and innovation system evaluation • Public health data and indicators	• Fiscal analysis • Financing mechanisms • Costs, performance and outcomes analysis	No subcategories

yet shape them specifically to their context (42). Any improvement in their priority-setting method could greatly contribute to international cooperation between countries with shared research priorities and health systems arrangement (41). To do so, national capacity for health systems research (40) should be bolstered—one of the main strategies that WHO has in place for developing health research (43).

Regarding UAH and UHC, some of the studies (12, 14, 20, 21, 23–25, 29, 34, 37) touched on health access for the whole population, but only briefly and without addressing issues directly related to these concepts. Only one document assessed presented insights on UHC and its relationship to research priorities (27). In spite of that, the countries’ decisions to pursue UHC should be promoted, especially since it directly contributes to a nation’s development, and indirectly, to the overall well-being of the population, in addition to beneficial economic effects (2).

Despite the differences among countries in the Region of the Americas, the criteria set in this review allowed for inclusion of studies from all contexts. This permitted gathering a broad range of study topics that would help build a prospective agenda with a high degree of transferability. This is important because transferability is another limitation for health systems and services research agendas given the

different social, economic, political, geographical, and cultural contexts among nations (40). In this regard, a wider review approach could bridge, at least in part, this issue, ensuring the proper coverage and quality to the document.

Even though a variety of study questions/topics was identified, it became clear that some documents focused on particular areas of research (14, 22, 24, 27) that seem to be of higher priority, such as “Human Resources for Health” and “Health Systems and Services Financing” (see categories in the Table 3). In addition, even the documents that did not deal directly with these two priorities did tend to touch on them in some way.

Furthermore, other topics shown in Table 3 tended to be broadly discussed by the documents found, including those related to the categories of “Science, Technology, Innovation, and Information Systems,” and “Health Systems and Services Structure, Organization, and Dynamics.” On the other hand, issues concerning the category of “Health Policies, Governance, and Social Control” were presented as study topics by only a few documents (21, 25, 26, 34, 36).

Besides that, although many of the documents collected in this systematic review were related to the United States, the participation of Latin American experts and well-established criteria for rating, ranking, or changing the study questions might adapt the priority-

setting process to the LAC area and focus on UAH and UHC.

Conclusions

Research priority-setting is an important process for health services improvement and resources optimization. However, implementation and evaluation plans are equally important for effective operationalization and enhancement of the research agenda. The findings of this study are expected to encourage best practices on the development of nursing research agendas regarding health systems and services, particularly well-defined impact objectives and assessment possibilities. This document will serve as basis for developing a Regional nursing research agenda focused on health systems and services, yet shaped to advance Universal Access to Health and Universal Health Coverage. Due to the wide variety of research topics and questions captured in this resulting document, the prospective agenda will be suitable to any country of the Region of the Americas, and any country will be able to adjust the agenda to its health systems and services context.

Disclaimer. The opinions expressed herein are those of the authors and do not necessarily reflect the views of the Pan American Health Organization.

Conflicts of interests. None.

REFERENCES

1. Pan American Health Organization. Strategy for universal access to health and universal health coverage. Proceedings of the 53rd Directing Council (CD53/5, Rev. 2), Washington DC, October 2014. Available from: <http://bit.ly/1DuHUIk> Accessed on 10 November 2014.

2. World Health Organization. Making fair choices on the path to universal health coverage. Geneva: WHO; 2014.

3. World Health Organization. Universal health coverage: supporting country needs. World Health Organization, 2013. Available from: www.who.int/contracting/UHC_Country_Support.pdf Accessed on 17 October 2014.

4. World Health Organization. The World Health Report: research for universal health coverage. Geneva: WHO; 2013.

5. Kenny C. A United Nations declaration on the post-2015 development agenda. August 2013. Available from: www.cgdev.org/publication/declaration-post-2015-agenda Accessed on 17 October 2014.
6. Pan American Health Organization. Policy on research for health. Washington DC: PAHO; 2009. (Document CD49/10/Eng.) Available from: http://new.paho.org/hq/index.php?option=com_docman&task=doc_download&gid=14557&Itemid Accessed on 11 November 2014.
7. World Health Assembly. WHO's role and responsibilities in health research (Resolution 63.21). Geneva: World Health Organization; 2010. Available from: http://apps.who.int/gb/ebwha/pdf_files/WHA63/A63_R21-en.pdf Accessed on 11 November 2014.
8. House J, Parmar J, Reveiz L, Cassiani S. Health literature authored by nurses within the LAC region: a cross sectional study. *Rev Panam Salud Publica*. [In press].
9. Mendoza-Parra S, Paravic-Klijn T, Muñoz-Muñoz AM, Barriga OA, Jiménez-Contreras E. Visibility of Latin American nursing research (1959–2005). *J Nurs Scholarsh*. 2009;41(1):54–63.
10. Marziale MHP. Scientific production in Brazilian nursing: the search for international impact. *Rev Lat Am Enfermagem*. 2005;13(3):287–8.
11. Munari DB, Chaves LDP, Peduzzi M, Laus AM, Fugulin FMT, Ribeiro LCM, Scochi CGS. The setting of research production by nursing and management graduate programs in Brazil. *Rev Esc Enferm USP*. 2011;45:1543–50.
12. Kothari A, Regan S, Gore D, Valaitis R, Garcia J, Manson H, et al. Using an integrated knowledge translation approach to build a public health research agenda. *Health Res Policy Syst*. 2014;12:6. Available from: www.health-policy-systems.com/content/12/1/6 Accessed on 15 October 2014.
13. Ranson MK, Chopra M, Munro S, Dal Poz M, Bennett S. Establishing human resources for health research priorities in developing countries using a participatory methodology. Geneva: World Health Organization; 2008.
14. Ranson K, Law TJ, Bennett S. Establishing health systems financing research priorities in developing countries using a participatory methodology. *Soc Sci Med*. 2010;70:1933–42.
15. World Health Organization. Nursing and midwifery services: strategic directions 2011–2015. Geneva: WHO; 2010. Available from: www.who.int/hrh/nursing_midwifery/en/ Accessed on 17 October 2014.
16. Whittemore R, Knaf K. The integrative review: updated methodology. *J Adv Nurs*. 2005;52(5):546–53.
17. Viergever RF, Olifson S, Ghaffar A, Terry RF. A checklist for health research priority setting: nine common themes of good practice. *Health Res Policy Syst*. 2010;8:36. Available from: www.health-policy-systems.com/content/8/1/36 Accessed on 15 October 2014.
18. Issel LM, Bekemeier B, Kneipp S. A public health nursing research agenda. *Public Health Nurs*. 2012;29(4):330–42.
19. Association of Community Health Nursing Educators Research Committee. Research priorities for public health nursing. *Public Health Nurs*. 2010;27(1):94–100.
20. Wiener B, Chacko S, Brown TR, Cron SG, Cohen MZ. Delphi survey of research priorities. *J Nurs Manag*. 2009;17(5):532–8.
21. Mahony D, Jones EJ. Social determinants of health in nursing education, research, and health policy. *Nurs Sci Q*. 2013;26(3):280–4. Available from: <http://nsq.sagepub.com/content/26/3/280> Accessed on 15 October 2014.
22. Ranson MK, Chopra M, Atkins S, Dal Poz MR, Bennetta S. Priorities for research into human resources for health in low- and middle-income countries. *Bull World Health Organ*. 2010; 88:435–43. Available from: www.who.int/bulletin/volumes/88/6/09-066290/en/ Accessed on 21 October 2014.
23. Marsiglia RMG. Temas emergentes em ciências sociais e saúde pública/coletiva: a produção do conhecimento na sua interface. *Saúde Soc*. 2013;22(1):32–43.
24. Cursinche M, Yagui M, Castilla T, Cabezas C, Escalante G, Casas M, et al. Proceso de construcción de la agenda nacional de investigación sobre recursos humanos en salud (RHUS) en el Perú, 2011–2014. *Rev Peru Med Exp Salud Publica*. 2011;28(2):372–81.
25. Ministry of Health of Brazil. Agenda nacional de prioridades de investigación en salud-Brasil, 2006. Available from: http://bvsm.sau.gov.br/bvs/publicacoes/agenda_esp.pdf Accessed on 21 October 2014.
26. Almeida C, Romero CNP, Ramos CL, Genoese MIV. Health systems and services research in Brazil, Argentina, Uruguay and Paraguay: present situation and capacity-building needs preliminary survey. Rio de Janeiro: Council on Health Research Development; 2000. Available from: www.cohred.org/downloads/629.pdf Accessed on 20 October 2014.
27. Reveiz L, Chapman E, Pinzón Flórez CE, Torres R. Prioridades de investigación en políticas y sistemas de salud centradas en los recursos humanos en salud. *Rev Panam Salud Publica*. 2013;34(5):295–303.
28. National Association of Pediatric Nurse Practitioners. Priorities for evidence in practice: NAPNAP Research Agenda, 2014–2019. New York: NAPNAP; 2013. Available from: <http://bit.ly/16eCwOC> Accessed on 15 October 2014.
29. A Consortium from Altarum Institute, the United States Centers for Disease Control and Prevention, the Robert Wood Johnson Foundation, the National Coordinating Center for Public Health Services and Systems Research. A national research agenda for public health services and systems. *Am J Prev Med*. 2012; 42(5S1):S72–8.
30. National Institute of Nursing Research. Bringing science to life: NINR strategic plan. United States, 2011. Available from: www.ninr.nih.gov/sites/www.ninr.nih.gov/files/ninr-strategic-plan-2011.pdf Accessed on 20 October 2014.
31. National League for Nursing. Research priorities in nursing education 2012–2015. United States, 2011. Available from: www.nln.org/researchgrants/researchpriorities.pdf Accessed on 20 October 2014.
32. American Nurses Association. American Nurses Association Research Agenda. United States, 2011. Available from: <http://bit.ly/1DCJQIU> Accessed on 20 October 2014.
33. Ministry of Health of Bolivia. Agenda nacional de prioridades de investigación en salud. La Paz, Bolivia, 2009. Available from: www.ops.org.bo/textocompleto/ninves31635.pdf Accessed on 20 October 2014.
34. Acosta C, Giovannella L, Heimann LS, Sánchez DM, Paula AE, Lobato LVC. Una agenda de investigaciones en sistemas y servicios de salud en el contexto de la integración regional: informe del Foro MERCOSUR sobre Integración Regional y Sistemas de Salud. *Cad Saude Publica*. 2007;23(S2):S315–21.
35. Ministry of Health of Guatemala, Pan American Health Organization. Prioridades comunes de investigación en salud 2006–2010. Guatemala, 2006. Available from: <http://bit.ly/1u3DsAp> Accessed on 20 October 2014.
36. Ministry of health of Panama. Políticas y estrategias de salud 2005–2009. Panama, 2005. Available from: <http://bit.ly/1x9h5Ve> Accessed on 21 October 2014.
37. Consejo Internacional de Enfermeras. La investigación de enfermería: instrumento de acción. Available from: www.cathlab.com.ar/enfermeria/la_investigacion.htm Accessed on 21 October 2014.
38. Scutchfield FD, Pérez DJ, Monroe JA, Howard AF. New public health services and systems research agenda—directions for the next decade. *Am J Prev Med*. 2012; 42(5S1):S1–5.
39. Pan American Health Organization. PAHO's policy on research for health. Washington DC: PAHO; 2010.
40. Hoffman SJ, Røttingen JA, Bennett S, Lavis JN, Edge JS, Frenk J. Background paper on conceptual issues related to health systems research to inform a WHO global strategy on health systems research. Geneva: WHO; 2012. Available from: www.who.int/alliance-hpsr/alliancehpsr_backgroundpaperhpsrstrat1.pdf Accessed on 21 October 2014.
41. Reveiz L, Elias V, Terry RF, Alger J, Becerra-Posada F. Comparison of national health research priority-setting methods and characteristics in Latin America and the Caribbean, 2002–2012. *Rev Panam Salud Publica*. 2013;34(1):1–13.
42. Tomlinson M, Chopra M, Hoosain N, Rudan I. A review of selected research priority setting processes at national level in low and middle-income countries: towards fair and legitimate priority setting. *Health Res Policy Syst*. 2011;15(9):19.
43. World Health Organization. The WHO strategy on research for health. WHO Library. Geneva: WHO; 2012. Available from: www.who.int/phi/WHO_Strategy_on_research_for_health.pdf Accessed on 21 October 2014.

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APPENDIX 1: Search Strategies**PubMed:**

((("Health Priorities" OR "Research Priorities" OR agenda [tw] OR Priority [tw] OR Priorities [tw]) AND ("Health Services Research" OR research OR "research topics") AND (Nursing OR Nurses OR "Primary Care Nursing" OR "Public Health Nursing" OR "Nursing Research" OR "Nursing Staff" OR "Faculty, Nursing" OR "Education, Nursing" OR "Community Health Nursing" OR "Continuing Nursing Education" OR "Nursing Education Research" OR "Nursing Services") AND ("Public health" OR "Health Services" OR "Community Health Planning" OR "Community Health Services" OR "Health Personnel" OR "Health Education" OR "Continuing Education" OR "Education, Public Health Professional" OR "Staff Development" OR "Human Resources Development" OR "Health Manpower" OR Manpower OR "Health Services Accessibility" OR "Delivery of Health Care, Integrated" OR "Healthcare Delivery" OR "Health Care Systems" OR "Health Policy" OR "National Health Policy"))

LILACS:

((("Prioridades en Salud" OR "Prioridades de Investigación" OR "Agenda de Prioridades en Salud") AND ("Investigación sobre Servicios de Salud" OR Investigación) AND (Enfermería OR "Atención de Enfermería" OR "Investigación en Enfermería" OR "Enfermería de Atención Primaria" OR Enfermería en Salud Comunitaria" OR "Enfermería en Salud Pública" OR "Enfermeras de Salud Comunitaria" OR "Educación en Enfermería" OR "Educación Continua en Enfermería" OR "Educación de Postgrado en Enfermería" OR "Personal de Enfermería" OR "Investigación en Educación de Enfermería" OR "Servicios de Enfermería") AND ("Salud Pública" OR "Servicios de Salud" OR "Personal de Salud" OR "Recursos Humanos en Salud" OR "Técnicos Medios en Salud" OR "Educación en Salud Pública Profesional" OR "Sistemas de Salud" OR "Servicios Preventivos de Salud" OR "Cobertura de los Servicios de Salud" OR "Servicios Básicos de Salud" OR "Servicios de Salud Comunitaria" OR "Agentes Comunitarios de Salud" OR "Educación en Salud" OR "Planificación en Salud Comunitaria" OR "Prestación de Atención de Salud" OR "Política de Salud" OR "Políticas, Planificación y Administración en Salud" OR "Política de Investigación en Salud" OR "Política de Educación Superior" OR "Políticas Públicas de Salud"))

RESUMEN

Revisión sistemática de las prioridades de investigación de enfermería en sistemas y servicios de salud en la Región de las Américas

Objetivo. Revisar sistemáticamente la bibliografía sobre las prioridades de investigación de enfermería en materia de sistemas y servicios de salud en la Región de las Américas, como un paso más en la elaboración de un programa de investigación de enfermería que impulse la Estrategia Regional para el Acceso Universal a la Salud y la Cobertura Universal de Salud.

Métodos. Se llevó a cabo una revisión sistemática de la bibliografía disponible en las siguientes bases de datos: Web of Science, PubMed, LILACS y Google. Se tuvieron en cuenta los documentos publicados del 2008 al 2014 en inglés, español o portugués, y que trataran del tema en el ámbito de la Región de las Américas. En los documentos seleccionados se evaluaron los procesos de establecimiento de prioridades según los "nueve temas comunes para buenas prácticas en establecimiento de prioridades de investigación de salud". Mediante un análisis de los contenidos se recopiló todas las preguntas y temas de estudio, y se clasificaron los documentos por categorías y subcategorías.

Resultados. De los 185 artículos o documentos de texto completo evaluados, se seleccionaron 23: 12 procedían de revistas con revisión por pares, 6 de publicaciones de enfermería, 4 de ministerios de salud y 1 de una organización internacional. Las publicaciones de las revistas mostraron un mayor rigor metodológico; la mayoría no presentaba un plan definido de ejecución o evaluación. Después de compilar las 444 preguntas y temas de estudio de los documentos, el análisis de los contenidos dio lugar a un documento con 5 categorías y 16 subcategorías con respecto a las prioridades de investigación de enfermería en materia de sistemas y servicios de salud.

Conclusiones. El establecimiento de prioridades de investigación es un proceso muy importante para la mejora de los servicios de salud y la optimización de los recursos, pero raramente se incluyen planes de ejecución y evaluación. El documento resultante servirá de base para la elaboración de una nueva agenda de investigación de enfermería centrada en los sistemas y servicios de salud, y configurada para impulsar la cobertura universal de salud y el acceso universal a la salud.

Palabras clave

Agenda de investigación en salud; investigación sobre servicios de salud; sistemas de salud; personal de enfermería; salud pública; Américas.