Scientific production of midwives in Latin American obstetrics and gynecology journals indexed in Scopus

Elizabeth Zavaleta-Lopez^a, David Villarreal-Zegarra^b, Julio Cjuno^a, Janina Bazalar-Palacios^a

^a Universidad Católica Los Ángeles de Chimbote, Instituto de investigación, Chimbote, Perú ^b CRONICAS, Centro de Excelencia de Enfermedades Crónicas, Universidad Peruana Cayetano Heredia, Lima, Perú

* Corresponding author ezavaletal@uladech.edu.pe

Citation Zavaleta-Lopez E, Villarreal-Zegarra D, Cjuno J, Bazalar-Palacios J. Scientific production of midwives in Latin American obstetrics and gynecology journals indexed in Scopus. *Medwave* 2019;19(5):7658

Doi 10.5867/medwave.2019.05.7658

Fecha de envío 1/12/2018 Fecha de aceptación 18/5/2019 Fecha de publicación 26/6/2019

Origin not commissioned

Type of review reviewed by three external peer reviewers, double-blind

Key words Palabras clave: manuscripts, medical as topic, bibliometrics, obstetrics; gynecology, journal article (MeSH NLM)

Abstract

Introduction

To describe the characteristics of the scientific production of midwives in Latin American obstetrics and gynecology journals indexed to Scopus during the period 2011 to 2016.

Methods

This paper reports a descriptive bibliometric study, with intentional nonprobabilistic sampling. We analyzed articles of research papers published by midwives in medical specialty journals in obstetrics and gynecology of Latin America indexed to Scopus, in the 2011 to 2016 period.

Results

We found eight obstetrics and gynecology journals in Latin America indexed in Scopus. There were 1,696 articles published between 2011 and 2016, of which 4.9% were authored or co-authored by midwives. Of these publications, 93.8% were related to topics of the specialty, 62.5% had midwives as corresponding authors, 64.1% of papers were in Spanish, only 3.1% were published in English, and 57.8% of midwives worked in Chile at the time of publication. In 2016, there was one-fifth the number of publications compared to 2012.

Conclusions

We found little scientific production by midwives in Latin American obstetrics and gynecology journals indexed in Scopus. Strategies that encourage and allow research and scientific production by midwives are needed.

Key ideas

- Scientific production by health professionals working in midwifery (maternal and child care and reproductive health services) has become more limited in recent years.
- To the best of the authors' knowledge this research is the first to study scientific production published by midwives in Latin American medical specialty journals covering gynecology and obstetrics.
- The main limitation of this study was restricting the search to articles found in the Scopus database, excluding content from any other sources such as the SciELO, LILACS, or Redalyc databases, thematic journals (those covering general health or public health), conference proceedings, or non-indexed journals, among others, which could have skewed the results

Introduction

Midwifery is a health profession in the field of obstetrics and gynecology (maternal and child care and reproductive health services) that focuses on disease prevention, health promotion, recovery, and rehabilitation before, during, and after pregnancy in health care practice as well as administrative services, teaching, and research¹. Scientific research related to this medical specialty should include a variety of approaches to generate knowledge about prevalence and incidence, risk factors, and consequences of diseases that occur in mothers and newborns and to support the goals of universal health coverage and care². The results of this research should be disseminated in scientific articles published in indexed journals, given their quality, impact, and recognition within the scientific community, to share new knowledge that will improve the practice and quality of care of midwives, supported by reliable scientific evidence.

Of the search results found through Scopus, one study analyzed five reviews of scientific production by midwives (from Australia, the United Kingdom, and the United States) and found an increasing trend in this type of output from 2000 to 2014³. However, in 2016, in Latin America and the Caribbean, very few articles were published that included midwives⁴ among their authors. This recent trend is worrisome due to the scarce amount of scientific production by midwives to date. To explore this problem, this study describes the characteristics of scientific production by midwives in Latin American medical specialty journals covering obstetrics and gynecology and indexed in Scopus over a six-year period (2011 to 2016).

Methods

A descriptive bibliometric study was carried out, using intentional/non-probabilistic sampling. A search of scientific articles was carried out in Latin American medical specialty journals covering obstetrics and gynecology and indexed in Scopus that included midwives as any type of author (principal investigator, coauthor, correspondent). The Scopus database is

the largest one at the international level, with rigorous selection criteria for its journals, based on specific editorial policies; citation of its published articles; and impact⁵. It includes more than 21 500 journals covering different areas of knowledge, including more than 12 775 journals with medical content6.

The search consisted of two phases: first, the Scimago Journal & Country Rank was used to find obstetrics and gynecology journals indexed in Scopus. As no journals specifically focused on obstetrics were found in Latin America, medical specialty journals published in the region that covered obstetrics and gynecology were identified and searched. Thematic areas included women's health, public health, gender, and violence. The second stage of the search identified articles in each of the medical specialty journals in which at least one of the authors was identified as a midwife. The search was carried out by two members of the research team who also compared the data found and resolved any discrepancies between them. The final search results were reviewed by all four members of the research team. The study period was 2011 to 2016 (six years).

The descriptive statistical evaluation was carried out with the intention of analyzing the following data: country where the midwife worked at the time of publication (Brazil, Chile, or Peru); type of authorship (principal investigator, correspondent, or coauthor), year of publication (2011, 2012, 2013, 2014, 2015, or 2016); type of article (original research, review, special report, or clinical case report); language of main text (English, Portuguese, or Spanish); and specific subject matter of the article (obstetrics and gynecology specialty, and other). Academic status and affiliation with any specific research team was not analyzed because some articles in the final study sample did not provide this information.

Prior to its execution this research was reviewed and approved by the Institutional Research Ethics Committee of the Universidad Católica Los Ángeles de Chimbote (CIEI-ULADECH-Católica) (authorization report # 014-2018-CEI-VI-ULADECH-Católica).

Results

We found eight Latin American medical specialty magazines in obstetrics and gynecology indexed in Scopus, and 1 696 articles published between 2011 and 2016. Only 4.9% of the total scientific production included midwives as any type of author. Of this subtotal, 93.8% covered topics related to midwifery, 62.5% had midwives as correspondent authors, 64.1% were published in Spanish, and only 3.1% were published in English (despite the fact that 50%4 of the journals included in the sample accepted English manuscripts). Other findings included 1) 57.8% of the midwife authors were working in Chile at the time of publication, and 2) in 2016 there were five times fewer publications with authors identified as midwives than in 2012. The year 2012 had the highest number of articles with midwife authors during the study period (Table 1).

Discussion

Scientific production of midwives in Latin American medical specialty journals covering obstetrics and gynecology and indexed in Scopus in the last six years is generally deficient. In our research, two of every three articles published by midwives were in Spanish.

Based on the results of our study, scientific articles published by midwives in medical specialty journals covering obstetrics and gynecology and indexed in Scopus was minimal (4.9%), less than the proportion of articles published by nurses found in other studies (11.8%)7. This result may be due to the fact that of the total number of Latin American countries (26), only seven (Argentina, Chile, Ecuador, Paraguay, Peru, Puerto Rico, and Uruguay) consider midwifery to be a profession, with other countries in the region (e.g., Colombia, Cuba, the Dominican Republic, and Venezuela) making no clear differentiation between this medical specialty and nursing^{1,8}.

In addition, midwives appear to be somewhat marginalized in scientific research, with their participation often limited to research assistant jobs or field work. This may be due to scarce opportunities for principal investigators in this medical specialty or a limited knowledge base for midwifery research⁹.

The amount of scientific production by midwives in Latin America does not appear to be increasing consistently over time. While all research generates new knowledge it only acquires real value when it is disseminated to the scientific community in scientific publications9. According to our results, the number of scientific publications by midwives published annually has not been constant over time. Factors contributing to this variance may be related to midwives' lack of time for research, due to the demands of their job, scarce sources of funding, and limited training programs and scholarships, as well as difficulties in producing scientific texts in Spanish and/or English3.

Table 1. Characteristics of scientific production of midwives in Latin American medical specialty journals covering obstetrics and gynecology and index	ced
in Scopus $(n = 64)$.	

General characteristics	n	%
Type of authorship		
Corresponding author	40	62.5
Coauthor	24	37.5
Country where midwife author worked at time of publication		
Brazil	23	35.9
Chile	37	57.8
Peru	4	6.3
Total number of articles per journal (n = 1 696)		
Revista_Brasileira_de_Ginecologia_e_Obstetrícia	458	27.0
Revista Brasileira de Saúde Materno Infantil	165	9.7
Jornal Brasileiro de Reprodução Assistida	188	11.1
Revista Cubana_de Obstetricia_y_Ginecología	164	9.7
Revista Chilena de Obstetricia_y_Ginecología	212	12.5
Revista Colombiana_de_Obstetricia_y_Ginecología	97	5.7
Revista de Obstetricia_y_Ginecología de Venezuela	116	6.8
Revista de Ginecología_y_Obstetricia de México	296	17.5
Type of article		
Original research	59	92.2
Review	2	3.1
Special report	2	3.1
Clinical case report	1	1.6
Topic of article		
Midwifery	60	93.8
Other	4	6.3
Language of main text		
English	2	3.1
Portuguese	21	32.8
Spanish	41	64.1
Year of publication		
2011	9	14.1
2012	21	32.8
2013	9	14.1
2014	10	15.6
2015	11	17.2
2016	4	6.3

Source: Prepared by the authors based on the results of the study

In this research, most articles by midwives were published in Spanish. Although at present the main language of scientific production is English, Spanish is the official language of Latin American countries. Midwives' role as a vehicle of scientific communication may be limited due to their language of origin, reducing the visibility of their scientific contributions at the international level¹⁰.

In summary, there is a need to employ strategies that encourage and allow research and scientific production by midwives so that, through scientific research, new and better approaches to provide better health care for mothers and their newborns can emerge.

Strengths and limitations

The main strength of this study is that to the best of the authors' knowledge this research is the first to explore scientific production carried out by midwives in Latin American medical specialty journals covering obstetrics and gynecology.

One possible limitation was the exclusion of non-Latin American medical specialty journals, where some midwives may choose to publish due to the greater impact they have internationally versus Latin American journals. Another limitation was restricting the search to the Scopus database and therefore not counting articles published by Latin American midwives indexed in other databases (e.g., SciELO, LILACS or Redalyc) or those in non-indexed journals. However, due to the

superior editorial quality of Scopus content the use of that database as the sole search source was considered sufficient for the purpose of this study. Finally, the search only included specialized medical journals, excluding content from thematic journals (those covering general health and public health among others) as well as conference proceedings, undergraduate thesis papers, articles in journals that are not indexed, and gray literature, and thus potentially skewing the results.

Conclusion and recommendation

Between 2011 and 2016, scientific production of midwives in Latin America medical journals covering obstetrics and gynecology and indexed in Scopus is, in general, deficient. Two of every three articles published by midwives was in Spanish.

Strategies to increase research and scientific production by midwives are needed so that new, evidence-based knowledge and practices to help improve maternal and child health can emerge.

Notes

Authorship contributions

EZL, JC, DVZ, and JBP: participated in the conception of the idea of the study. All authors participated in data collection, interpretation of results, drafting of the manuscript, and approval of the final version.

Competing interests

The authors declare no conflicts of interest with respect to this article.

Sources of financing

This study was funded by Universidad Católica Los Ángeles de Chimbote.

From the editors

The original article was submitted in Spanish. This is the translated version of the article as provided by the authors, and has not been copyedited by the Journal.

Referencias

- International Confederation of Midwives. Definition of the Midwife. 2018. ICM; [on line]. | Link |
- Fuentes I Pastrana K, Alger J. Characterization of the research performed at the Gynecology and Obstetrics Postgraduate Program, Facultad de Ciencias Médicas, UNAH, 2012-2015. Rev méd hondur. 2016,84(1-2):6-12. | Link |
- Davidson PM, Newton PJ, Ferguson C, Daly J, Elliott D, Homer C, et al. Rating and ranking the role of bibliometrics and webometrics in nursing and midwifery. ScientificWorld Journal. 2014 Jan 6;2014:135812. | CrossRef | PubMed |
- Iribarren S, Stonbraker S, Larsen B, Santos I, Faria R, Góes FSN, et al. Clinical nursing and midwifery research in Latin American and Caribbean countries: A scoping review. Int J Nurs Pract. 2018 Apr;24(2):e12623. | CrossRef | PubMed |
- Marchant S. Rigour and respect: aspects for consideration when undertaking and publishing research. Midwifery. 2010 Jun;26(3):264-7.
 CrossRef | PubMed |
- 6. Elsevier. Scopus Analizador de revistas. 2013 [on line]. | Link |
- 7. Cjuno J; Bazalar-Palacios J. Revistas Latinoamericanas de enfermería indizadas en Scopus. In Crescendo. 2017;8(2):323-6. | CrossRef |
- Family Care International. Fortalecimiento de la Partería en América Latina y el Caribe: Informe sobre la colaboración entre la Oficina Regional para América Latina y el Caribe del Fondo de Población de las Naciones Unidas y la Confederación Internacional de Matronas, 2011-2014. 2019. [on line]. | CrossRef |
- Mill J, Davison C, Richter S, Etowa J, Edwards N, Kahwa E, et al. Qualitative Research in an International Research Program: Maintaining Momentum while Building Capacity in Nurses. Int J Qual Methods. 2014;13(1):151-69. | CrossRef |
- González De Dios J; González C. The Spanish as a vehicle for transmission of scientific progress. Alicante, España; 2014 [on line]. | Link

Correspondencia a Jr. Tumbes 247 Casco Urbano Chimbote Ancash Perú Código postal: 02804



Esta obra de Medwave está bajo una licencia Creative Commons Atribución-No Comercial 3.0 Unported. Esta licencia permite el uso, distribución y reproducción del artículo en cualquier medio, siempre y cuando se otorgue el crédito correspondiente al autor del artículo y al medio en que se publica, en este caso, Medwave.