

Bibliometric Analysis of Publications from Web of Science Affiliated to Health Sciences University from 2017-2019

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ABSTRACT

BACKGROUND

Bibliometrics is the use of statistical methods for analysing books, articles, and other publications. It is useful to analyse the research impact, assess the quality of research using quantitative and qualitative measures, describe patterns of publication, determine the influence of writers, describe the relationship between different writers or researches. This study was conducted to evaluate the number and trends of materials affiliated to Health Sciences University published in Web of Science indexed journals.

METHODS

This was a retrospective observational study. The Web of Science database was accessed through institutional Login and all published materials affiliated to Health Sciences University were searched. The file of all searched materials was exported in BibTex format, which was fed to R-Studio Application after installing the Bibliometrics package. Imported data was downloaded and bibliographic data frame was created. Basic information of publications was recorded including the number of citations, citation density, journals, publication year, authors, institution and country of origin. Results were summarized using descriptive statistics.

RESULTS

Bibliometric analysis of publications affiliated to Health Sciences University between 2017 to 2019 generated a list of 182 articles from 75 sources which included 180 Journal Articles and 2 articles in Book Chapters. Highest number of publications were 82 in the year 2019 followed by 51 in 2017 and 49 in 2018. The Annual Percentage Growth Rate of Scientific Productions was 26.8. The publications showed total 2170 authors of which 09 were authors of 'single-authored documents' and 2163 were authors of 'multi-authored documents'. The Collaboration Index of all published materials was 12.5.

CONCLUSIONS

This analysis reflects on the historical perspectives of Health Sciences University publications and its progress in Web of Science indexed Scientific Medical Literature database.

KEY WORDS

Bibliography, R-Studio, Health Sciences University, Web of Science, Publications, Indexing

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DOI: 10.14260/jemds/2020/386

Financial or Other Competing Interests:
None.

How to Cite This Article:

Umate R, Patil M, Telrandhe S, et al.
Bibliometric Analysis of Publications from
Web of Science affiliated to Health Sciences
University from 2017-2019
J. Evolution Med. Dent. Sci. 2020;9(23):
1756-1764, DOI:
10.14260/jemds/2020/386

Submission 28-03-2020,
Peer Review 14-05-2020,
Acceptance 20-05-2020,
Published 08-06-2020.



BACKGROUND

Bibliometrics is the use of statistical methods for analysing books, articles, and other publications, frequently used for library and information sciences.⁽¹⁾ It analyses the impact of research outputs using quantitative measures, complements qualitative research indicators and assists in assessing the quality and impact of research.⁽²⁻⁴⁾ Quantitative analysis and statistics are helpful to describe publication patterns, determine the influence of writers, analyses the relationships between different writers or researchers and their researches. Indexation of journals is another key issue reflecting quality of published materials. Web of Science is among the world's best citation databases which is publisher-independent and trusted globally.⁽⁵⁾ Web of Science is the key base scaffold for most of the bibliometric studies conducted till date.⁽²⁾ As per the Journal Citation Reports (JCR)- 2019, the ISI Web of Science has indexed 11877 journals from about 81 countries.⁽⁶⁾ This study was conducted to see the number and trends of materials affiliated to Health Sciences University published in Web of Science indexed journals.

METHODS

This was a retrospective observational study. On March 24, 2020, the ISI Web of Science database was accessed to gather academic publications of Sciences university in Central India from 2017 to 2019. All publications affiliated to Health Sciences University were searched from the ISI Web of Science Core Collection database (SCI-E and SSCI) using the Specific search terms using organization enhanced [OG] with the name of the Health Sciences university in Central India. In the "document type" field, search filter was set for articles only (excluding the other document types such as reviews and meeting abstracts), with English as the language of writing and publication for the period from 2017 until the end of 2019. Key bibliometric information was retrieved later which included author names and author affiliations, journal names, title of publication, year of publication, document type, etc.

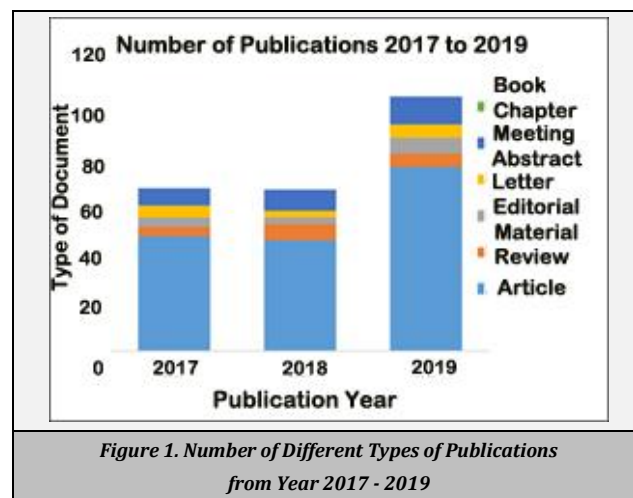
Bibliometric analysis was performed with quantitative analysis approach and knowledge mapping technique. Information on Web of Science was used for running the quantitative analysis whereas for Knowledge mapping (network analysis) R Studio and BibExcel was used. It focused on the network and "link strength" between author keywords, countries, institutions, and authors. Fractional counting was performed to generate co-occurrence and co-authorship network outputs for most frequently used author keywords, network of top countries, network of top institutions and network of most productive authors.

RESULTS

The Web of Science search filtered for 'Document Type-Articles' affiliated to Health Sciences University generated a

list of 182 articles from 75 sources over a period of 2017 to 2019. These included articles from different research areas such as –

1. Anatomy & Morphology⁽⁷⁾-1
2. Cardiovascular System⁽⁸⁻¹⁴⁾-7
3. Dentistry & Oral Medicine⁽¹⁵⁻⁴⁰⁾-26
4. Dermatology⁽⁴¹⁾-1
5. Endocrinology & Metabolism⁽⁴²⁻⁴³⁾-2
6. Environmental Sciences & Ecology⁽⁴⁴⁾-1
7. Gastroenterology & Hepatology⁽⁴⁵⁾-1
8. General Internal Medicine⁽⁴⁶⁻¹²¹⁾-76
9. Geriatrics Gerontology⁽¹²²⁻¹²³⁾-2
10. Health Care Science Services⁽¹²⁴⁻¹²⁷⁾-4
11. Infectious Diseases⁽¹²⁸⁻¹²⁹⁾-2
12. Integrative Complementary Medicine⁽¹³⁰⁻¹³¹⁾-2
13. Neurosciences & Neurology⁽¹³²⁾-1
14. Oncology⁽¹³³⁻¹³⁶⁾-4
15. Otorhinolaryngology⁽¹³⁷⁾-1
16. Pathology⁽¹³⁸⁻¹⁴⁴⁾-7
17. Pediatrics⁽¹⁴⁵⁻¹⁴⁸⁾-4
18. Psychiatry⁽¹⁴⁹⁻¹⁵³⁾-5
19. Public Environmental Occupational Health⁽¹⁵⁴⁻¹⁶¹⁾-8
20. Radiology, Nuclear Medicine Medical Imaging⁽¹⁶²⁾-13
21. Research Experimental Medicine⁽¹⁶³⁻¹⁷⁵⁾-13
22. Respiratory System⁽¹⁷⁶⁾-1
23. Surgery⁽¹⁷⁷⁻¹⁸⁰⁾-4
24. Urology Nephrology⁽¹⁸¹⁻¹⁸⁸⁾-8



Highest number of publications were 82 in the year 2019 followed by 51 in 2017 and 49 in 2018. The Annual Percentage Growth Rate of Scientific Productions was 26.8. The publications showed total 2170 authors of which 09 were authors of 'single-authored documents' and 2163 were authors of 'multi-authored documents'. The Collaboration Index of all published materials was 12.5. Corresponding Authors for 165 articles belonged to India and 16 articles belonged to other countries including 4 from UK, 4 from USA, 2 each from Australia and New Zealand and 1 each from Netherlands, Saudi Arabia, Canada and France. Grand total of Sum of Total Citations was 592 among which highest was 384 in the year 2018 followed by 120 in 2019 and 88 in 2017.

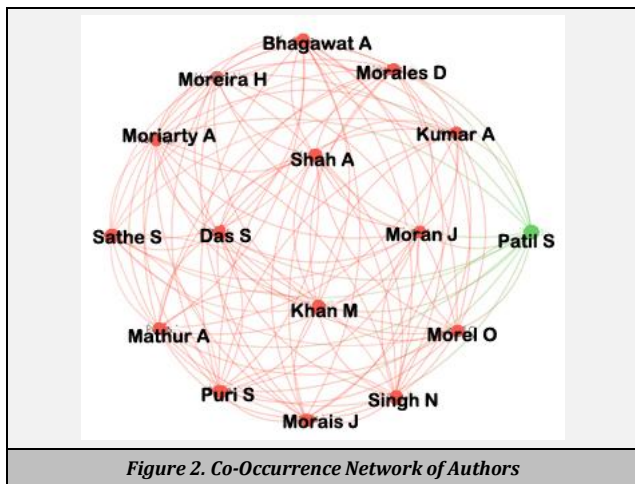


Figure 2. Co-Occurrence Network of Authors

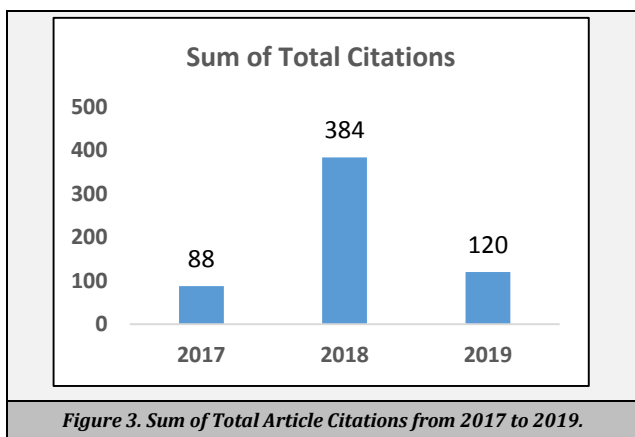


Figure 3. Sum of Total Article Citations from 2017 to 2019.

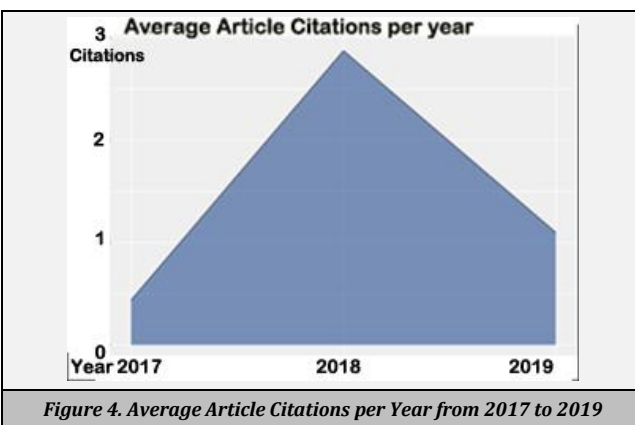


Figure 4. Average Article Citations per Year from 2017 to 2019

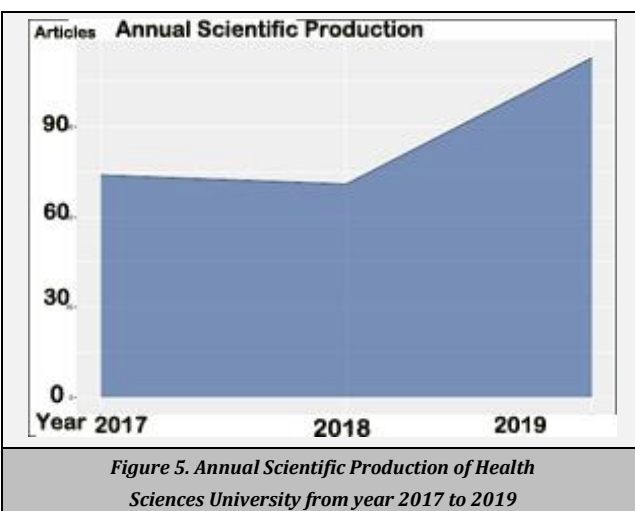


Figure 5. Annual Scientific Production of Health Sciences University from year 2017 to 2019

DISCUSSION

The published materials of Health Sciences University show an increase in the year 2019 whereas the sum of total citations of published materials show a prominent rise in the year 2018. The sum of total citations of materials published in 2019 is expected to show sharp rise in the year 2020. For the 182 articles published from 2017 to 2019, average Citations per item was 3.25.

From the list of 2170 authors, the most productive author has 25 articles to his credit. The list of most relevant sources included Journal of Clinical and Diagnostic Research (29 articles), Journal Of Evolution of Medical And Dental Sciences (28 articles), International Journal of Ayurvedic Medicine (10 articles), Journal Of Krishna Institute Of Medical Sciences University (9 articles), Saudi Journal Of Kidney Diseases And Transplantation (7 articles), Contemporary Clinical Dentistry(4 articles), Acta Cytologica (3 articles), Archives Of Psychiatry And Psychotherapy (3 articles), BMC Public Health (3 articles), Journal of International Society of Preventive And Community Dentistry (3 articles).

The trend of Health Sciences University authored publications in esteemed Web of Science indexed journals is improving and number of collaborative publications with citations are expected to improve over the following years.

CONCLUSIONS

This analysis reflects on the historical perspectives of Health Sciences University publications and its progress of scientific productions in Web of Science indexed Scientific Medical Literature database. The Annual Percentage Growth Rate of Scientific Productions of Health Sciences University was 26.8, which is appreciable. Still there is a great scope to improve the Growth Rate of Scientific Productions and Collaboration Index of Health Sciences University Publications.

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