

10-2018

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LITERATURE OF PEDIATRIC NURSING: A BIBLIOMETRIC ANALYSIS (2013 – 2017)

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Abstract

Presents a bibliometric analysis of the literature in the field of Pediatric Nursing as indexed the MEDLINE data which covered in the Pubmed for the period 2013-2017. It is observed that a total of 5853 records in the MEDLINE data covered by Pubmed on 'Pediatric Nursing'. Maximum numbers of records were published during 2016, followed by the years 2015 and 2017. It was found that majority of records covered by Journal Article; followed by Research Support, Non-U.S. Gov't, Review, Research Support, N.I.H., Extramural, Editorial, Randomized Controlled Trial, News etc. Relative Growth Rate (RGR) has shown decreasing trend and the Doubling Time (Dt) has shown an increasing trend throughout the study period. 20 core journals grouped in zone 1, the second zone comprises of 123 journals and 677 journals grouped in the third zone. 820 journals produced 3293 journal articles in the literature of Pediatric Nursing. 143 journals were identified as core journals in the field of pediatric nursing. Out of the 143 journals produced 2254 journal articles in the literature of Pediatric Nursing, United States is dominating the first position with 76 journals; England in the second position, Iran in the third position, Australia in the fourth position and Brazil in the fifth position.

Key words: Bibliometrics, Pediatric Nursing, Relative Growth Rate (RGR), Doubling Time (Dt), Bradford Law and Core Journals.

1. INTRODUCTION:

Bibliometric is a quantitative analysis of written publications, such as books, articles, bibliographic data, etc. It's an analysis of scientific publications is an important aspect of research endeavour in Information Science. Bibliometric studies are used to identify the pattern of publications, authorship, citations, secondary journal coverage, and so on. It has been widely applied to evaluate the research performance of the scientists and the growth of various disciplines. Bibliometric data used to identify the research areas, and in the evaluation of research performance of individual scientists, research groups and countries, etc. The aim of this study was to measure the growth of literature and to identify the core journals in the field of pediatric nursing.

2. PEDIATRIC NURSING:

“Pediatric nursing is the medical care of neonates and children up to adolescence, usually in an in-patient hospital or day-clinic. The main role of pediatric nurses is to administer directly procedures and medicines to children, according to prescribed nursing care plans. Nurses also continually assess the patient by observing vital signs and developing communication skills with children and family members and with medical teams”.¹

3. REVIEW OF LITERATURE

Growth studies in scientific areas studied by Baker² in chemistry, Conard³ in biology, May⁴ and Lamb⁵ in mathematics, Sengupta in microbiology⁶, physiology⁷, biochemistry⁸, Ramesh Babu and Ramakrishnan in Hepatitis⁹, Lewin¹⁰ in Diabetes mellitus, Krishnamoorthy, Ramakrishnan and Devi¹¹ in diabetes, Ramakrishnan and Thavamani in Hepatitis-C.

There are a number of studies conducted at Bradford's Law. Numerous studies on mapping and Bradford law in health sciences.¹³⁻²¹ Ramesh Babu and Ramakrishnan²² studied on Indian Contributions to the field of Hepatitis (1984-2003) and used Bradford law to identify the core journals. Ramakrishnan, Ravisankar and Thavamani²³ studied the primary Journals and their Countries in the Field of Dengue Literature.

There is no bibliometric studies have been carried out in the field of Pediatric Nursing literature, this present study, which we have used MEDLINE data which are covered in the Pubmed.

4. OBJECTIVES OF THE STUDY

The Objectives of this study are:

1. To study the growth of literature in the field of Pediatric Nursing in the MEDLINE data covered in the Pubmed,
2. To identify the primary journals in the field of Pediatric Nursing.

5. METHODOLOGY

The records published during the year 2013 to 2017 in the field of Pediatric Nursing in the MEDLINE data which are covered in the Pubmed were searched and bibliographic details were collected. The retrieved records were converted into FoxPro and loaded in SPSS for the purpose of analysis. The data were analyzed in terms of growth rate and primary journals in the field of Pediatric Nursing. In order to determine the growth rate, the bibliometric techniques like Relative Growth Rate (RGR)^{24 & 25} and Doubling time (Dt)²⁶ have been used. Bradford Law²⁷ used to bring the primary journals in the field of Pediatric Nursing. The keyword 'Pediatric Nursing' has been used for extracting the number of records available in the above said database. This study is

confined to a period of years from 2013 to 2017 MEDLINE data which covered in Pubmed only.

6. ANALYSIS AND INTERPRETATION OF DATA

Data collected from the source database, namely MEDLINE on the literary production of ‘Pediatric Nursing’ from the period 2013 to 2017 has been analysed by using various bibliometric techniques as described.

6.1 QUANTUM OF PEDIATRIC NURSING RESEARCH PRODUCTIVITY

The research productivity on ‘Pediatric Nursing’ covered in the database is shown in Table-1. It is observed that a total of 5853 records in the MEDLINE data covered by Pubmed on ‘Pediatric Nursing’. The year-wise distribution of literature on ‘Pediatric Nursing’ according to the source database MEDLINE, it is found that the maximum number of records (1403) was published during 2016, followed by 1268 in the year 2015 and 1251 in the years 2017. On the whole, it is noticed that there are increasing trend of records of Pediatric Nursing research productivity except the year 2017 at the time of study. But the records may be increased and may be included in future. (Fig.1)

Table 1: Quantum of Literature published in ‘Pediatric Nursing’ Year wise

S. No.	Years	Records on Pediatric Nursing	Percentage	Cumulative Percent
1	2013	881	15.05	15.05
2	2014	1050	17.95	33
3	2015	1268	21.66	54.66
4	2016	1403	23.97	78.63
5	2017	1251	21.37	100
	Total	5853	100	

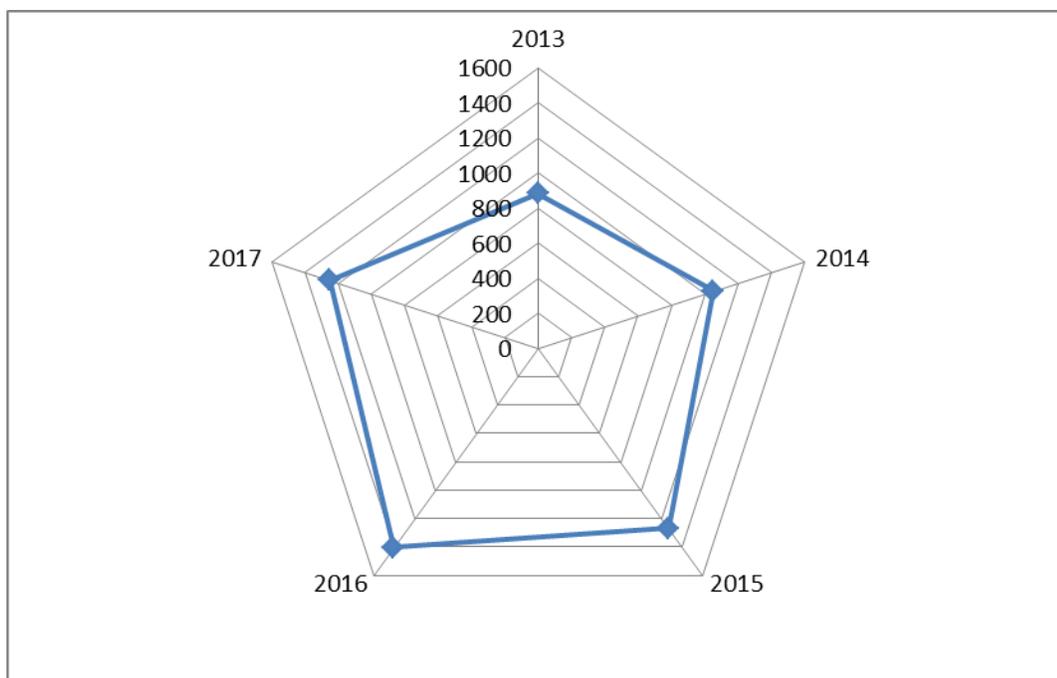


Figure 1 Quantum of Literature published in 'Pediatric Nursing' Year wise

6.2 PUBLICATION TYPES DISTRIBUTION OF PEDIATRIC NURSING RESEARCH

Table-2 reveals the distribution of the 'Pediatric Nursing' research output according to various publication types of MEDLINE. It was found that Journal Article (3293 records) 56.26%, Research Support, Non-U.S. Gov't (860 records) 14.7%, Review (642 records) 10.97%, Research Support, N.I.H., Extramural (171 records) 2.92%, Editorial (146 records) 2.49%, Randomized Controlled Trial (123 records) 2.1%, News (102 records) 1.74%, Validation Studies (72 records) 1.23%, Observational Study (71 records) 1.21%, Letter (69 records) 1.18%, Multicenter Study (65 records) 1.11%, Research Support, U.S. Gov't, P.H.S. (56 records) 0.96%, Introductory Journal Article (28 records) 0.48%, Interview (27 records) 0.46%, Personal Narratives (27 records) 0.46%, Research Support, U.S. Gov't, Non-P.H.S. (23 records) 0.39%, Portraits

(21 records) 0.36%, Practice Guideline (14 records) 0.24%, Congresses (8 records) 0.14%, Comment (7 records) 0.12%, Meta-Analysis (7 records) 0.12%, Historical Article (5 records) 0.09%, Research Support, N.I.H., Intramural (4 records) 0.07%, Case Reports (3 records) 0.05%, Published Erratum (3 records) 0.05%, Bibliography (2 records) 0.03%, Overall (2 records) 0.03%, Twin Study (1 records) 0.02% and Video-Audio Media (1 records) 0.02% . (Fig.2)

Table - 2: Publication Type

Publication Type	Records	%	Cumulative Percent
Journal Article	3293	56.26	56.26
Research Support, Non-U.S. Gov't	860	14.7	70.96
Review	642	10.97	81.93
Research Support, N.I.H., Extramural	171	2.92	84.85
Editorial	146	2.49	87.34
Randomized Controlled Trial	123	2.1	89.44
News	102	1.74	91.18
Validation Studies	72	1.23	92.41
Observational Study	71	1.21	93.62
Letter	69	1.18	94.8
Multicenter Study	65	1.11	95.91
Research Support, U.S. Gov't, P.H.S.	56	0.96	96.87
Introductory Journal Article	28	0.48	97.35
Interview	27	0.46	97.81
Personal Narratives	27	0.46	98.27
Research Support, U.S. Gov't, Non-P.H.S.	23	0.39	98.66
Portraits	21	0.36	99.02
Practice Guideline	14	0.24	99.26
Congresses	8	0.14	99.4
Comment	7	0.12	99.52
Meta-Analysis	7	0.12	99.64
Historical Article	5	0.09	99.73
Research Support, N.I.H., Intramural	4	0.07	99.8
Case Reports	3	0.05	99.85
Published Erratum	3	0.05	99.9
Bibliography	2	0.03	99.93
Overall	2	0.03	99.96

Twin Study	1	0.02	99.98
Video-Audio Media	1	0.02	100
Total	5853	100	

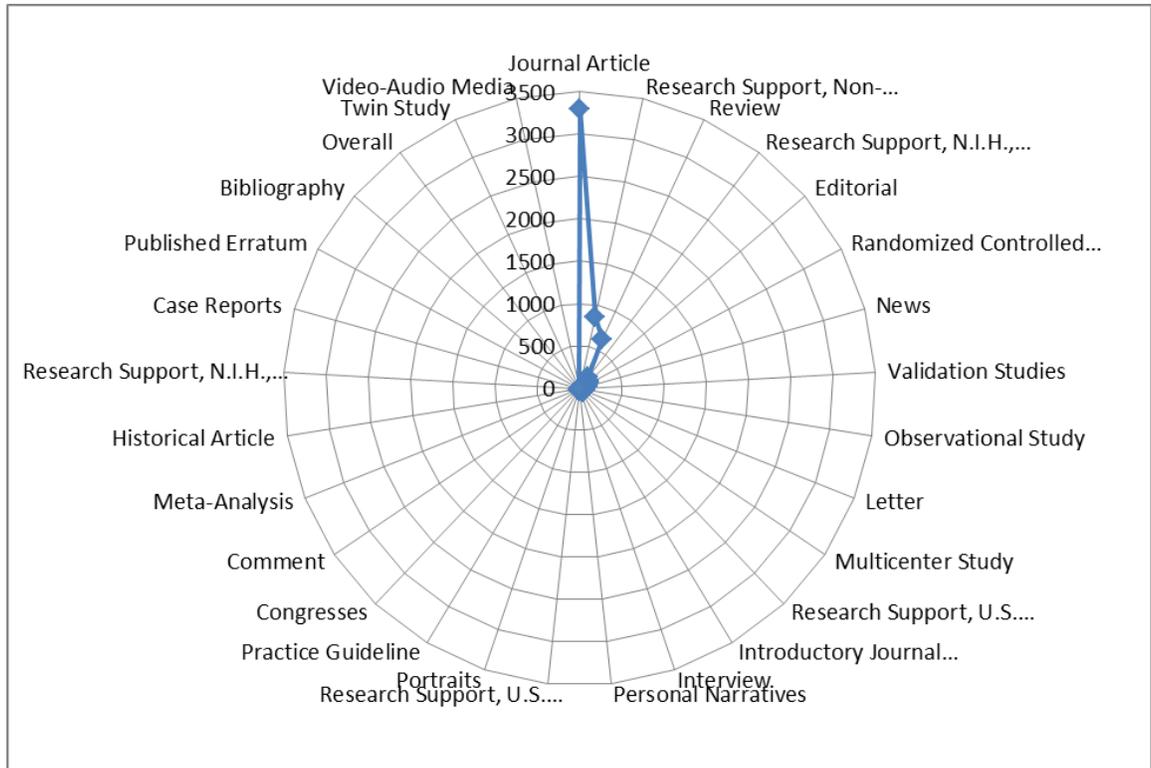


Figure-2: Publication Types Distribution of Pediatric Nursing Research

6.3 RELATIVE GROWTH RATE (RGR) AND DOUBLING TIME (Dt)

The analysis of data on the literary output in Pediatric Nursing has been done with parameters such as Relative Growth Rate (RGR) and Doubling Time (Dt). It is seen from Table-3 and Figure-3 that RGR has been decreasing trend from the year 2014 (0.79) to 2017 (0.24) throughout the study period. On the other hand, the Doubling Time (Dt) has shown an increasing trend throughout the study period. The data in Table-3 reveal that Doubling time (Dt) has increased from 0.88 in the year 2014 to 2.83 in the year 2017 (Figure-4).

Table 3: RGR and Dt for Pediatric Nursing Research Output by Year-wise

Year	Quantum of Output	Cumulative Total of Output	W ₁	W ₂	$1 - 2^{\overline{R}(\text{aa}^{-1} \text{ year}^{-1})}$ RGR	Dt(a)
2013	881	881		6.78		
2014	1050	1931	6.78	7.57	0.79	0.88
2015	1268	3199	7.57	8.07	0.50	1.38
2016	1403	4602	8.07	8.43	0.36	1.90
2017	1251	5853	8.43	8.67	0.24	2.83

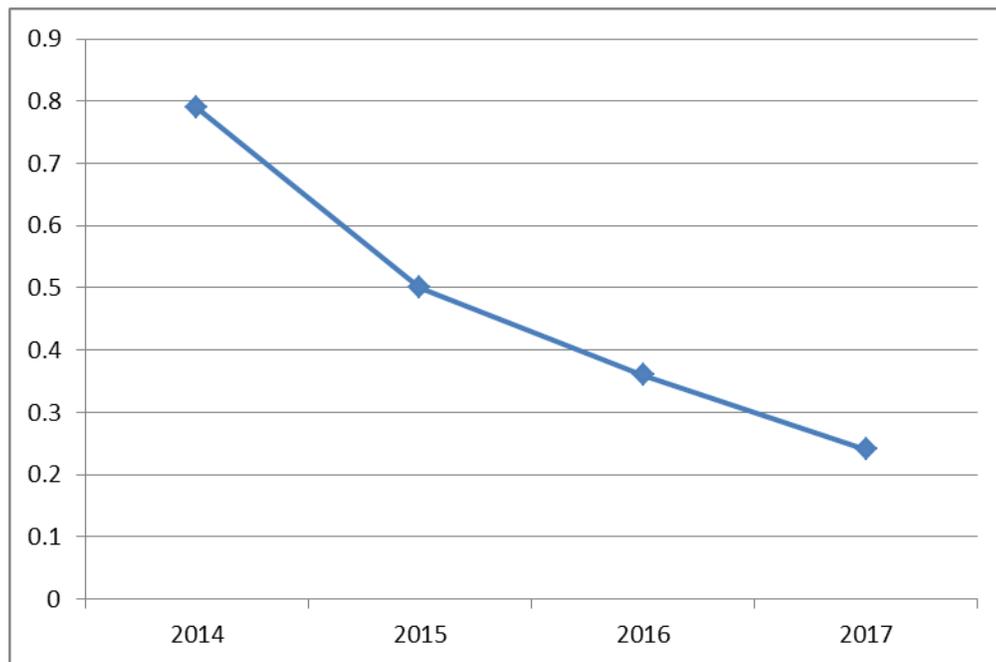


Figure-3: Relative Growth Rate for Research Output in Pediatric Nursing

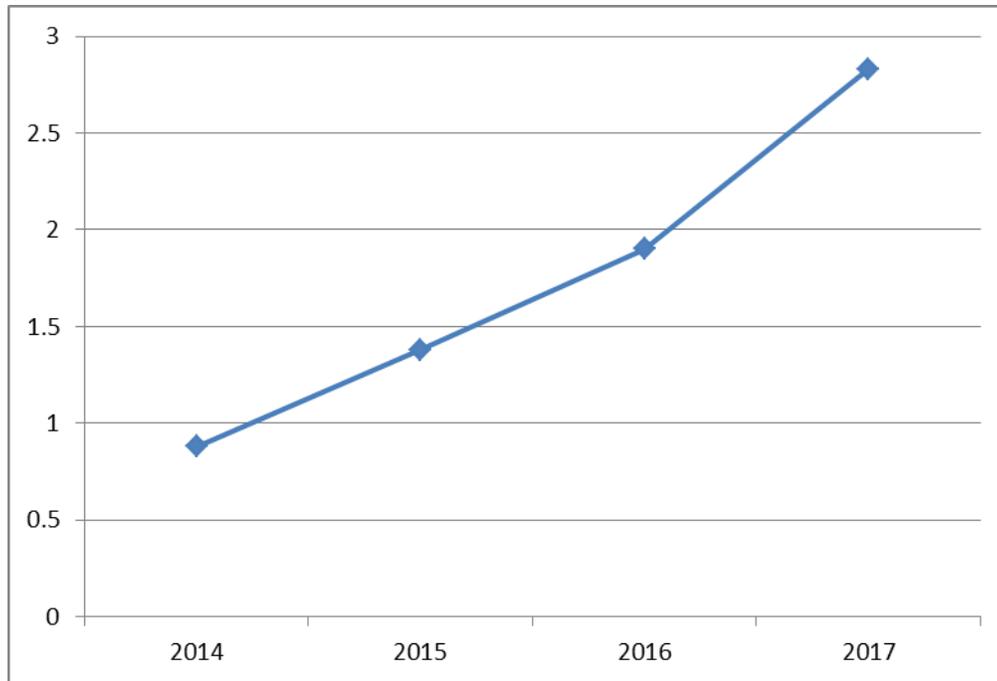


Figure-4: Doubling time for Research output in Pediatric Nursing

6.4 DISTRIBUTION OF JOURNALS IN PEDIATRIC NURSING BASED ON BRADFORD LAW OF SCATTERING

As per the Bradford Law, the journals are grouped into three zones producing a similar number of articles. The distribution of journal by zone wise is given in the Table 4. It is seen from Table 4 that 20 core journals grouped in zone 1 published 1097 articles accounting for one third of the total output, the second zone comprises of 123 journals and 677 journals grouped in the third zone. The Bradford's Law states that the number of periodicals in zones, the first zone and second zone will be $1: n: n^2$. Accordingly the relationship is the zone will be 20: 123: 677. In comparison with the data in Table 4, it is clear that the trend of research publication confirms the implication of Bradford's Law (Figure 5).

Table 4: Distribution by Zone of cited journals and Journal articles

Zone	No. of Journals		No. of Journal articles		Cumulative No. of Journal articles
	No.	(%)	No.	(%)	
Zone 1	20	2.44	1097	33.31	1097
Zone 2	123	15.00	1157	35.14	2254
Zone 3	677	82.56	1039	31.55	3293
Total	820	100.00	3293	100.00	

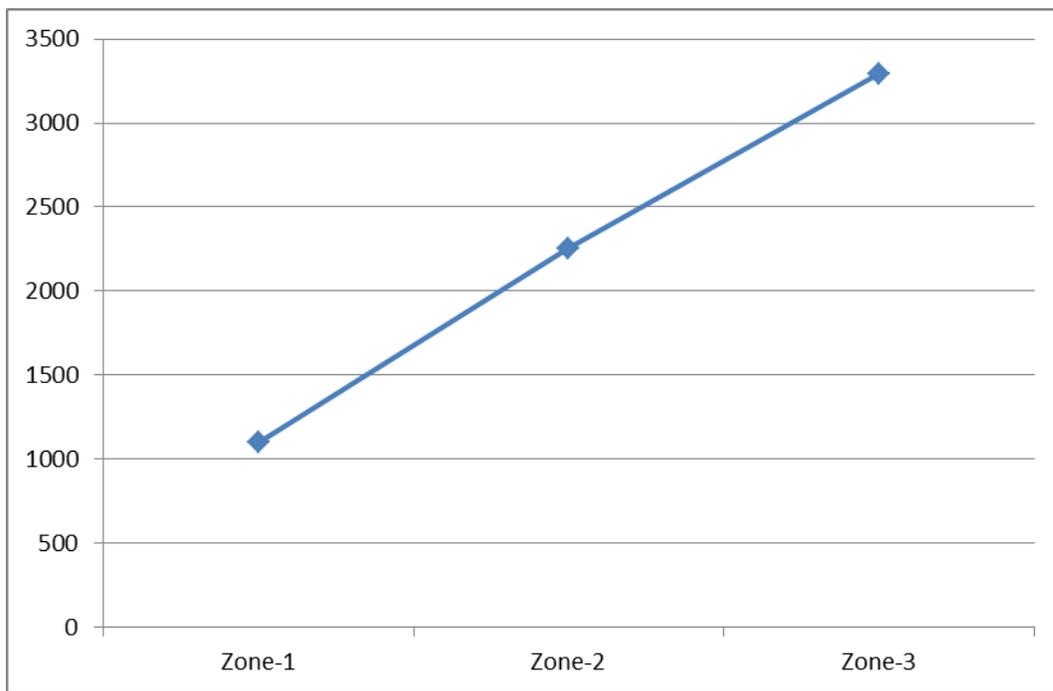


Figure 5 Distributions of Journals by Zones

6.5 RANKING OF JOURNALS IN PEDIATRIC NURSING RESEARCH

A Ranking of the journals along with the country of origin based on the research output in the field of ‘Pediatric Nursing’ for the year 2013-2017 is given Table-5. The highly productive journals up to five ranks are as follows:

1. 'Journal of pediatric nursing' published in the United States with 163 contributions amounting to 4.95% of total contributions.
2. 'Pediatric nursing' published by the United States with 154 contributions amounting to 4.68%.
3. 'Nursing children and young people' published in England with 126 contributions amounting to 3.83%.
4. 'Kinderkrankenschwester: Organ der Sektion Kinderkrankenpflege' published by the Germans with 83 contributions amounting to 2.52%.
5. 'Journal of pediatric oncology nursing' published in the United States with 54 contributions amounting to 1.64%.

Table-5: RANKING OF JOURNALS IN PEDIATRIC NURSING RESEARCH

S.No.	Name of the Journal	No. of Records	%	Country of origin	Rank
1.	Journal of pediatric nursing	163	4.95	United States	1
2.	Pediatric nursing	154	4.68	United States	2
3.	Nursing children and young people	126	3.83	England	3
4.	Kinderkrankenschwester : Organ der Sektion Kinderkrankenpflege	83	2.52	Germany	4
5.	Journal of pediatric oncology nursing	54	1.64	United States	5
6.	The Journal of perinatal & neonatal nursing	52	1.58	United States	6
7.	Advances in neonatal care	49	1.49	United States	7
8.	Iranian journal of nursing and midwifery research	39	1.18	Iran	8
9.	Journal of pediatric health care	39	1.18	United States	8
10.	MCN. The American journal of maternal child nursing	38	1.15	United States	9
11.	Neonatal network : NN	38	1.15	United States	9
12.	Journal of clinical nursing	35	1.06	England	10
13.	Journal for specialists in pediatric nursing : JSPN	34	1.03	United States	11
14.	Journal of emergency nursing: JEN	30	0.91	United States	12

S.No.	Name of the Journal	No. of Records	%	Country of origin	Rank
15.	British journal of nursing (Mark Allen Publishing)	29	0.88	England	13
16.	Journal of caring sciences	29	0.88	Iran	13
17.	Journal of obstetric, gynecologic, and neonatal nursing : JOGNN	27	0.82	United States	14
18.	Pediatrics	27	0.82	United States	14
19.	Nursing	26	0.79	United States	15
20.	NASN school nurse (Print)	25	0.76	United States	16
21.	Pflege Zeitschrift	24	0.73	Germany	17
22.	Hospital pediatrics	23	0.70	United States	18
23.	Pain management nursing	20	0.61	United States	19
24.	Nursing standard (Royal College of Nursing (Great Britain) : 1987)	19	0.58	England	20
25.	Critical care nurse	18	0.55	United States	21
26.	Soins. Pediatrie, puericulture	18	0.55	France	21
27.	The Journal of nursing administration	18	0.55	United States	21
28.	Issues in comprehensive pediatric nursing	17	0.52	England	22
29.	Nurse education today	17	0.52	Scotland	22
30.	Nursing for women's health	17	0.52	United States	22
31.	Revista da Escola de Enfermagem da U S P	17	0.52	Brazil	22
32.	American journal of critical care	16	0.49	United States	23
33.	The Journal of nursing education	16	0.49	United States	23
34.	AACN advanced critical care	15	0.46	United States	24
35.	International journal of community based nursing and midwifery	15	0.46	Iran	24
36.	Krankenpflege. Soins infirmiers	15	0.46	Switzerland	24
37.	Pediatric critical care medicine	15	0.46	United States	24
38.	Pediatric emergency care	15	0.46	United States	24
39.	Revista brasileira de enfermagem	15	0.46	Brazil	24
40.	Cancer nursing	14	0.43	United States	25
41.	Clinical nurse specialist CNS	14	0.43	United States	25
42.	European journal of oncology nursing	14	0.43	Scotland	25
43.	Journal of palliative medicine	14	0.43	United States	25
44.	Journal of pediatric surgery	14	0.43	United States	25
45.	The American journal of nursing	14	0.43	United States	25

S.No.	Name of the Journal	No. of Records	%	Country of origin	Rank
46.	The Nurse practitioner	14	0.43	United States	25
47.	Iranian Red Crescent medical journal	13	0.39	Iran	26
48.	Journal for nurses in professional development	13	0.39	United States	26
49.	Journal of perianesthesia nursing	13	0.39	United States	26
50.	The Journal of school nursing	13	0.39	United States	26
51.	American journal of infection control	12	0.36	United States	27
52.	Asian Pacific journal of cancer prevention : APJCP	12	0.36	Thailand	27
53.	Hu li za zhi The journal of nursing	12	0.36	China (Republic : 1949-)	27
54.	Journal of advanced nursing	12	0.36	England	27
55.	PloS one	12	0.36	United States	27
56.	Contemporary nurse	11	0.33	United States	28
57.	Journal of child health care	11	0.33	England	28
58.	Journal of continuing education in nursing	11	0.33	United States	28
59.	AORN journal	10	0.30	United States	29
60.	Comprehensive child and adolescent nursing	10	0.30	England	29
61.	Dimensions of critical care nursing : DCCN	10	0.30	United States	29
62.	Journal of Christian nursing : a quarterly publication of Nurses Christian	10	0.30	United States	29
63.	Journal of infusion nursing : the official publication of the Infusion Nurses	10	0.30	United States	29
64.	Nursing in critical care	10	0.30	England	29
65.	Revista latino-americana de enfermagem	10	0.30	Brazil	29
66.	The American journal of hospice & palliative care	10	0.30	United States	29
67.	Advanced emergency nursing journal	9	0.27	United States	30
68.	JAMA pediatrics	9	0.27	United States	30
69.	JBIC database of systematic reviews and implementation reports	9	0.27	Australia	30
70.	Journal of the American Association of Nurse Practitioners	9	0.27	United States	30
71.	Nephrology nursing journal : journal of the American Nephrology Nurses'	9	0.27	United States	30
72.	Nursing ethics	9	0.27	England	30
73.	Nursing management	9	0.27	United States	30

S.No.	Name of the Journal	No. of Records	%	Country of origin	Rank
74.	Nursing times	9	0.27	England	30
75.	Pediatric blood & cancer	9	0.27	United States	30
76.	Revista gaucha de enfermagem	9	0.27	Brazil	30
77.	Asian nursing research	8	0.24	Korea (South)	31
78.	International journal of pediatric otorhinolaryngology	8	0.24	Ireland	31
79.	Journal of child neurology	8	0.24	United States	31
80.	Journal of microbiology, immunology, and infection = Wei mian yu gan ran za zhi	8	0.24	England	31
81.	Medical journal of the Islamic Republic of Iran	8	0.24	Iran	31
82.	Nurse education in practice	8	0.24	England	31
83.	Nursing New Zealand (Wellington, N.Z. : 1995)	8	0.24	New Zealand	31
84.	Paediatric anaesthesia	8	0.24	France	31
85.	Palliative & supportive care	8	0.24	England	31
86.	Professional case management	8	0.24	United States	31
87.	Clinical journal of oncology nursing	7	0.21	United States	32
88.	Computers, informatics, nursing : CIN	7	0.21	United States	32
89.	Curationis	7	0.21	South Africa	32
90.	Electronic physician	7	0.21	Iran	32
91.	Gastroenterology nursing	7	0.21	United States	32
92.	Intensive & critical care nursing	7	0.21	Netherlands	32
93.	Iranian journal of child neurology	7	0.21	Iran	32
94.	Journal of developmental and behavioral pediatrics : JDBP	7	0.21	United States	32
95.	Nurse educator	7	0.21	United States	32
96.	Oncology nursing forum	7	0.21	United States	32
97.	Orthopedic nursing	7	0.21	United States	32
98.	Pediatrics and neonatology	7	0.21	Singapore	32
99.	Studies in health technology and informatics	7	0.21	Netherlands	32
100.	The Clinical journal of pain	7	0.21	United States	32
101.	The Journal of school health	7	0.21	United States	32
102.	Annals of agricultural and environmental medicine : AAEM	6	0.18	Poland	33
103.	Cardiology in the young	6	0.18	England	33

S.No.	Name of the Journal	No. of Records	%	Country of origin	Rank
104.	Childhood obesity (Print)	6	0.18	United States	33
105.	Journal of burn care & research	6	0.18	England	33
106.	Journal of child and adolescent psychiatric nursing	6	0.18	England	33
107.	Journal of education and health promotion	6	0.18	India	33
108.	Journal of hospice and palliative nursing : JHPN	6	0.18	United States	33
109.	Journal of nursing care quality	6	0.18	United States	33
110.	Journal of paediatrics and child health	6	0.18	Australia	33
111.	Journal of trauma nursing : the official journal of the Society of Trauma Nurses	6	0.18	United States	33
112.	Nursing education perspectives	6	0.18	United States	33
113.	Nursing research and practice	6	0.18	Egypt	33
114.	Pediatrics international : official journal of the Japan Pediatric Society	6	0.18	Australia	33
115.	Pflege	6	0.18	Switzerland	33
116.	The Journal of asthma	6	0.18	England	33
117.	The Journal of neuroscience nursing	6	0.18	United States	33
118.	The Journal of pediatrics	6	0.18	United States	33
119.	Transplantation proceedings	6	0.18	United States	33
120.	Worldviews on evidence-based nursing	6	0.18	United States	33
121.	Australian nursing & midwifery journal	5	0.15	Australia	34
122.	BMC pediatrics	5	0.15	England	34
123.	Clinical nursing research	5	0.15	United States	34
124.	CMAJ open	5	0.15	Canada	34
125.	Congenital heart disease	5	0.15	United States	34
126.	Critical care medicine	5	0.15	United States	34
127.	Emergency medicine journal : EMJ	5	0.15	England	34
128.	Frontiers in pediatrics	5	0.15	Switzerland	34
129.	International journal of nursing practice	5	0.15	Australia	34
130.	International journal of nursing studies	5	0.15	England	34
131.	JMIR mHealth and uHealth	5	0.15	Canada	34
132.	Journal of Korean Academy of Nursing	5	0.15	Korea (South)	34
133.	Journal of nursing scholarship	5	0.15	United States	34
134.	Journal of the Pediatric Infectious Diseases	5	0.15	England	34

S.No.	Name of the Journal	No. of Records	%	Country of origin	Rank
	Society				
135.	Nursing and midwifery studies	5	0.15	Netherlands	34
136.	Nutrition in clinical practice	5	0.15	United States	34
137.	Oncotarget	5	0.15	United States	34
138.	Rehabilitation nursing	5	0.15	United States	34
139.	Revue de l'infirmiere	5	0.15	France	34
140.	Simulation in healthcare : journal of the Society for Simulation in Healthcare	5	0.15	United States	34
141.	The Canadian nurse	5	0.15	Canada	34
142.	The journal of maternal-fetal & neonatal medicine	5	0.15	England	34
143.	The journal of nursing research : JNR	5	0.15	China (Republic : 1949-)	34

6.6 RANKING OF COUNTRY OF JOURNALS IN PEDIATRIC NURSING

RESEARCH

Out of the 143 journals produced 2254 journal articles in the literature of Pediatric Nursing, United States is dominating the first position with 76 journals, England is in the second position contains 23 journals, Iran contributes 7 journals and in the third position, Australia contributes 5 journals and in the fourth position and Brazil contributes 4 journals and in the fifth position. (Table-6).

Table-6: RANKING OF COUNTRY IN PEDIATRIC NURSING RESEARCH

S.No.	Name of the Country	No. of Journals	%	Cumulative Percent	Rank
1.	United States	76	53.15	53.15	1
2.	England	23	16.08	69.23	2
3.	Iran	7	4.9	74.13	3
4.	Australia	5	3.5	77.63	4
5.	Brazil	4	2.77	80.4	5

S.No.	Name of the Country	No. of Journals	%	Cumulative Percent	Rank
6.	Canada	3	2.1	82.5	6
7.	France	3	2.1	84.6	6
8.	Netherlands	3	2.1	86.7	6
9.	Switzerland	3	2.1	88.8	6
10.	China (Republic : 1949-)	2	1.4	90.2	7
11.	Germany	2	1.4	91.6	7
12.	Korea (South)	2	1.4	93	7
13.	Scotland	2	1.4	94.4	7
14.	Egypt	1	0.7	95.1	8
15.	India	1	0.7	95.8	8
16.	Ireland	1	0.7	96.5	8
17.	New Zealand	1	0.7	97.2	8
18.	Poland	1	0.7	97.9	8
19.	Singapore	1	0.7	98.6	8
20.	South Africa	1	0.7	99.3	8
21.	Thailand	1	0.7	100	8
Total		143	100.00		

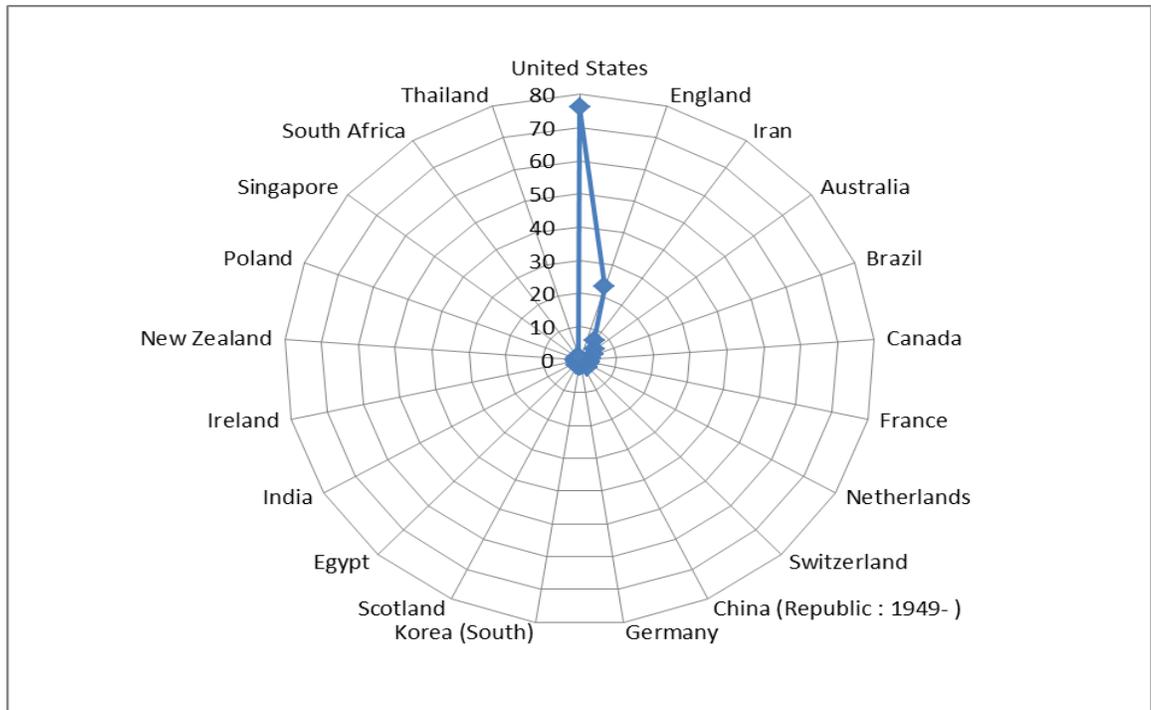


Figure 6 Ranking of Country in Pediatric Nursing Research

8. CONCLUSION:

In the field of Nursing, the results show that increasing trend of records in Pediatric Nursing research productivity. It also shows that maximum number of records covered by journal articles in the field of Pediatric Nursing. United States covered maximum numbers of records in the field of Pediatric Nursing literature followed by England, Iran, Australia and Brazil.

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