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PRIMARY JOURNALS IN THE FIELD OF PEDIATRIC DENTISTRY (2000-2019)

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ABSTRACT

This paper presents the primary journals in the field of Pediatric Dentistry. The analysis is based on a bibliometric technique i.e. Bradford's law. The records in the literature in the field of Pediatric Dentistry as indexed in the MEDLINE data covered in PubMed for the period from the year 2000 to 2019 considered for this study. It is found from the study that there are 19037 numbers of records as indexed in the above-said database in the area of Pediatric Dentistry. It was found that 57.25% of publication type is journal articles, 17.83% of publication type is Research Support, Non U.S. Gov't, 7.66% of publication type is Review, and Randomized Controlled Trial of publication type is 3.53%. The literature published as other publication types are 13.73%. The result shows that only thirteen journals fell into zone-1 and published 3671 journal articles, zone-2 consist of 80 journals and published 3666 journal articles, while 93.25% of the journals cited fell in zone-3 and published 3561 journal articles. A total of 93 journals were identified as primary journals in the field of Pediatric Dentistry. The United States published 28 primary journals out of 93 primary journals in the first position; followed by England published 22 primary journals, India published 7 primary journals, Germany published 5 primary journals, and also remaining countries in the study of primary journals analysis published below 4 to 1 primary journal.

Keywords: Primary journals, Pediatric Dentistry, Bradford's law.

INTRODUCTION

This paper presents the primary journals in the field of Pediatric Dentistry. The analysis is based on a bibliometric technique i.e. Bradford's law. The records in the literature in the field of Pediatric Dentistry as indexed in the MEDLINE data covered in PubMed for the period from the year 2000 to 2019 considered for this study. There are a huge number of publications that is being published in the research work in the area of Pediatric Dentistry. Since there are continuous publications in the field of Pediatric Dentistry, it is needed to study quantitatively the output of literature by applying bibliometric techniques. In this paper, an effort has been made to find the primary journals in the field of Pediatric Dentistry as indexed in the MEDLINE data which is covered in PubMed.

PEDIATRIC DENTISTRY

Pediatric dentistry, previously pedodontics in American English or paedodontics in Commonwealth English is the branch of dentistry dealing with children from birth through adolescence. Pediatric dentists promote the dental health of children as well as serve as educational resources for parents.[1]

LITERATURE REVIEW

Numerous studies on mapping have analyzed allied health journal citations to determine lists of primary journals in their fields and also studies are conducted in large numbers by analyzing and used the bibliometric technique i.e. Bradford's law.[2-9] The review of literature in the bibliometrics studies showed that so far, no quantitative study in the literature in the field of Pediatric Dentistry. Hence the present study is conducted.

OBJECTIVES

The objectives of this paper are:

- To examine the quantum of literature in the field of Pediatric Dentistry.
- To classify the publication types covered by literature in the field of Pediatric Dentistry.
- To identify the primary journals in the field of Pediatric Dentistry. ; and,
- To find the country of publication of primary journals in the field of Pediatric Dentistry.

METHODOLOGY

The records covered during the year 2000 to 2019 in the field of literature on Pediatric Dentistry as indexed in MEDLINE data which are covered in PubMed[10] were searched and publication-types details were collected. The retrieved records were loaded in SPSS for the determination of analysis. The keyword Pediatric Dentistry has been used for extracting the number of records available in the above-said database. In order to decide the primary journals in the field of Pediatric Dentistry, Bradford's law[11] of scattering has been used to bring the primary journals in the field of Pediatric Dentistry.

QUANTUM OF PEDIATRIC DENTISTRY RESEARCH PRODUCTIVITY

The year-wise distribution of literature in the field of Pediatric Dentistry according to source database is shown in Table-1. It is found that there are 19037 numbers of records in the area of Pediatric Dentistry. It is also found that the maximum number of 2124 records was published in the year 2019, followed by 2052 records in the year 2018 and 1957 records in the year 2017. It is observed that from the year 2000 onwards there is a growth of literature in the field of Pediatric Dentistry research productivity every year except for the three years i.e. 2001, 2009, and 2010 in the study period and where the records were less than the previous year. (Fig.1)

Table-1: Quantum of Literature published in Pediatric Dentistry

Year	No. of records	%	Cumulative No. of records	Cumulative %
2000	391	2.05		
2001	367	1.93	758	3.98
2002	420	2.21	1178	6.19
2003	436	2.29	1614	8.48
2004	453	2.38	2067	10.86
2005	527	2.77	2594	13.63
2006	529	2.78	3123	16.40
2007	549	2.88	3672	19.29
2008	730	3.83	4402	23.12
2009	649	3.41	5051	26.53
2010	696	3.66	5747	30.19
2011	730	3.83	6477	34.02
2012	861	4.52	7338	38.55
2013	960	5.04	8298	43.59
2014	1326	6.97	9624	50.55
2015	1503	7.90	11127	58.45
2016	1777	9.33	12904	67.78
2017	1957	10.28	14861	78.06
2018	2052	10.78	16913	88.84
2019	2124	11.16	19037	100.00
Total	**19037**	**100.00**		

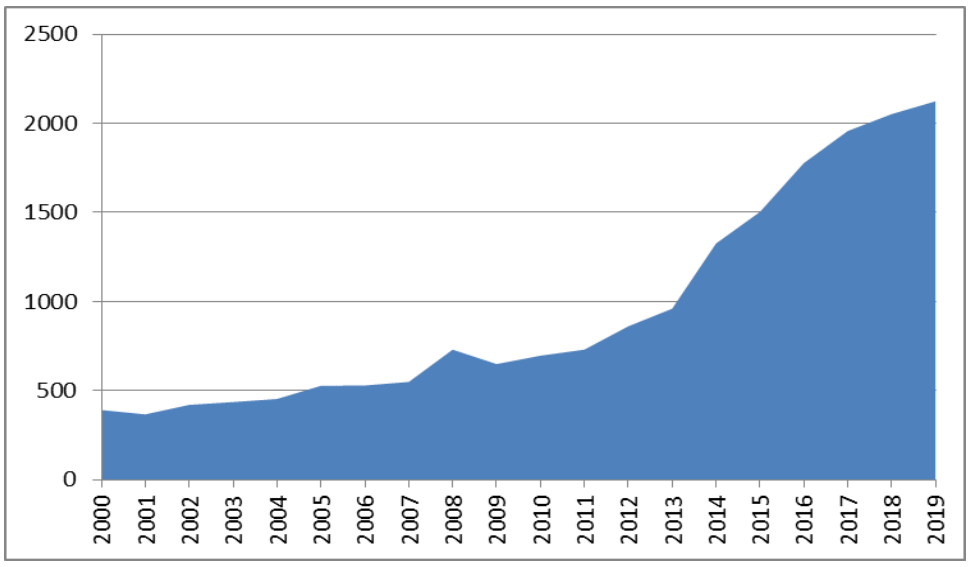

Figure-1: Year-wise Productivity of Pediatric Dentistry Research

PUBLICATION TYPES DISSEMINATION OF PEDIATRIC DENTISTRY RESEARCH:

Table-2 reveals the dissemination of the Pediatric Dentistry research output according to various publication types that were mentioned in the MEDLINE database. It was found that 57.25% of publication type is journal articles, 17.83% of publication type is Research Support, Non U.S. Gov't, 7.66% of publication type is Review, and Randomized Controlled Trial of publication type is 3.53%. The literature published as other publication types are 13.73%. (Fig.2)

Table-2: Publication Types of Pediatric Dentistry Research

Publication Types	No. of records	%	Cumulative No. of records	Cumulative %
Journal Article	10898	57.25	10898	57.25
Research Support, Non U.S. Gov't	3394	17.83	14292	75.07
Review	1458	7.66	15750	82.73
Randomized Controlled Trial	672	3.53	16422	86.26
Systematic Review	457	2.40	16879	88.66
Case Reports	367	1.93	17246	90.59
Research Support, N.I.H., Extramural	325	1.71	17571	92.30
Research Support, U.S. Gov't, P.H.S.	273	1.43	17844	93.73
Practice Guideline	186	0.98	18030	94.71
Editorial	175	0.92	18205	95.63
Comment	156	0.82	18361	96.45
Validation Study	134	0.70	18495	97.15
Letter	126	0.66	18621	97.81
Observational Study	83	0.44	18704	98.25
Multicenter Study	73	0.38	18777	98.63
Published Erratum	47	0.25	18824	98.88
Research Support, U.S. Gov't, Non P.H.S.	45	0.24	18869	99.12
Introductory Journal Article	31	0.16	18900	99.28
Portrait	25	0.13	18925	99.41
Meta Analysis	23	0.12	18948	99.53
Overall	23	0.12	18971	99.65
News	13	0.07	18984	99.72
Congress	9	0.05	18993	99.77
Interview	8	0.04	19001	99.81
Video Audio Media	7	0.04	19008	99.85
Twin Study	6	0.03	19014	99.88
Historical Article	4	0.02	19018	99.90
Retracted Publication	4	0.02	19022	99.92

Address	3	0.02	19025	99.94
Personal Narrative	2	0.01	19027	99.95
Research Support, N.I.H., Intramural	2	0.01	19029	99.96
Book Chapter	1	0.01	19030	99.96
Clinical Trial	1	0.01	19031	99.97
English Abstract	1	0.01	19032	99.97
Lecture	1	0.01	19033	99.98
Patient Education Handout	1	0.01	19034	99.98
Periodical Index	1	0.01	19035	99.99
Pragmatic Clinical Trial	1	0.01	19036	99.99
Retraction of Publication	1	0.01	19037	100.00
Total	**19037**	**100.00**		

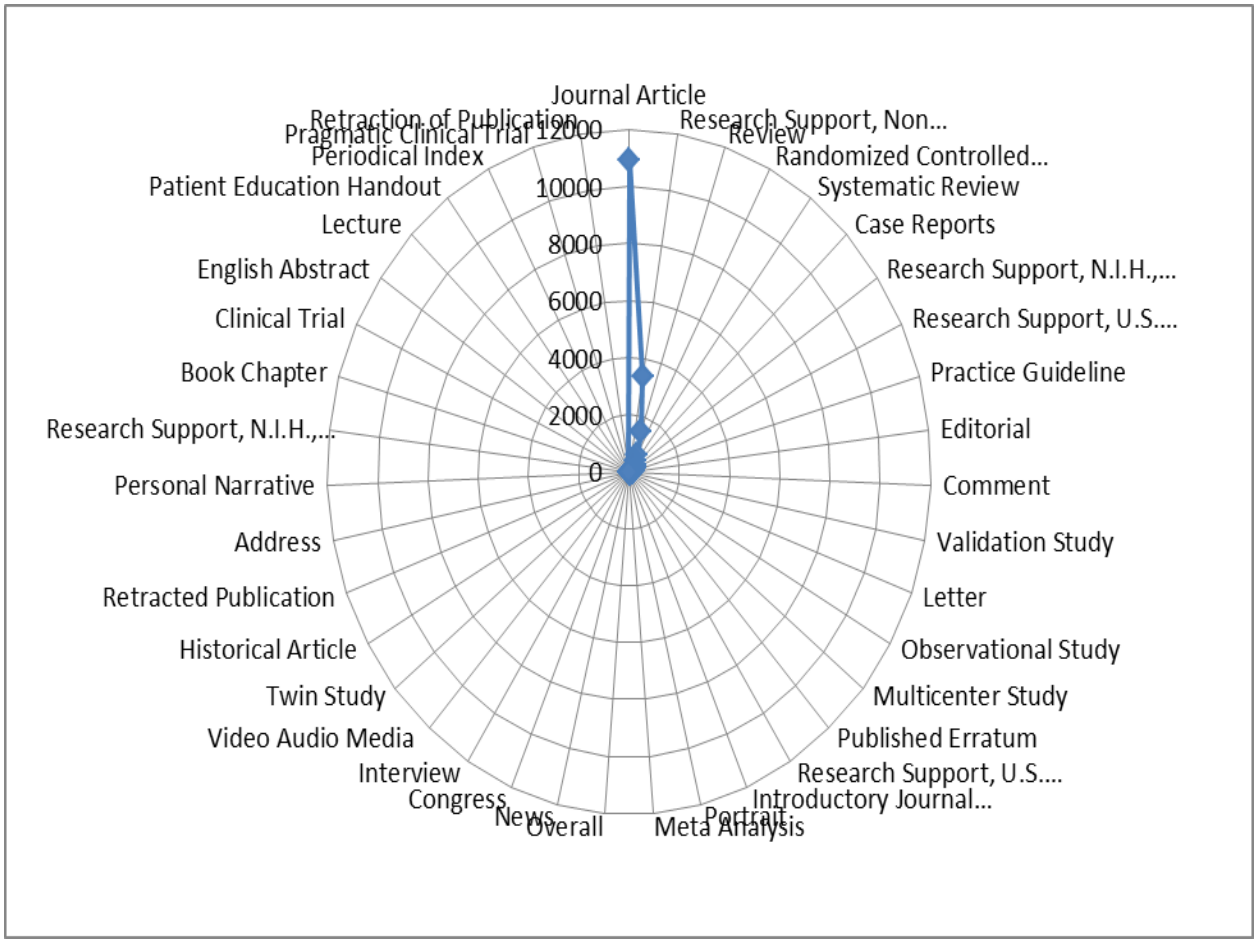

Figure-2 Publication Types of Pediatric Dentistry Research

DISSEMINATION BY ZONE OF CITED JOURNALS & JOURNAL ARTICLES IN THE FIELD OF PEDIATRIC DENTISTRY

To determine the primary journals, Bradford's law of scattering has been used. Three zones are their marked off. Each zone includes one-third of the total records. Journals in zone-1 are cited most frequently, those in zone-2 are cited less repeatedly, and those in zone-3 are cited least. The journal articles only selected for this study as per Bradford's Law. So, a total of 10898 journal articles were used to analyze this study. The cited 1377 journals published the 10898 journal articles that were divided into three zones. The result shows that only thirteen journals fell into zone-1 and published 3671 journal articles, accounting for 33.69% of the total number of journal articles, zone-2 consist of 80 journals and published 3666 journal articles, while 93.25% of the journals cited fell in zone-3 and published 3561 journal articles, as shown in Table-3. A total of 93 journals in the Zone-1 & 2 journals were identified as primary journals in the field of Pediatric Dentistry. (Fig.3)

Table-3: Dissemination by Zone of Cited Journals and Journal articles in the field of Pediatric Dentistry

Zone	No. of Journals		No. of journal articles		Cumulative No. of journal articles
	No.	(%)	No.	(%)	
Zone-1	13	0.94	3671	33.69	3671
Zone-2	80	5.81	3666	33.64	7337
Zone-3	1284	93.25	3561	32.68	10898
Total	**1377**	**100.00**	**10898**	**100.00**	

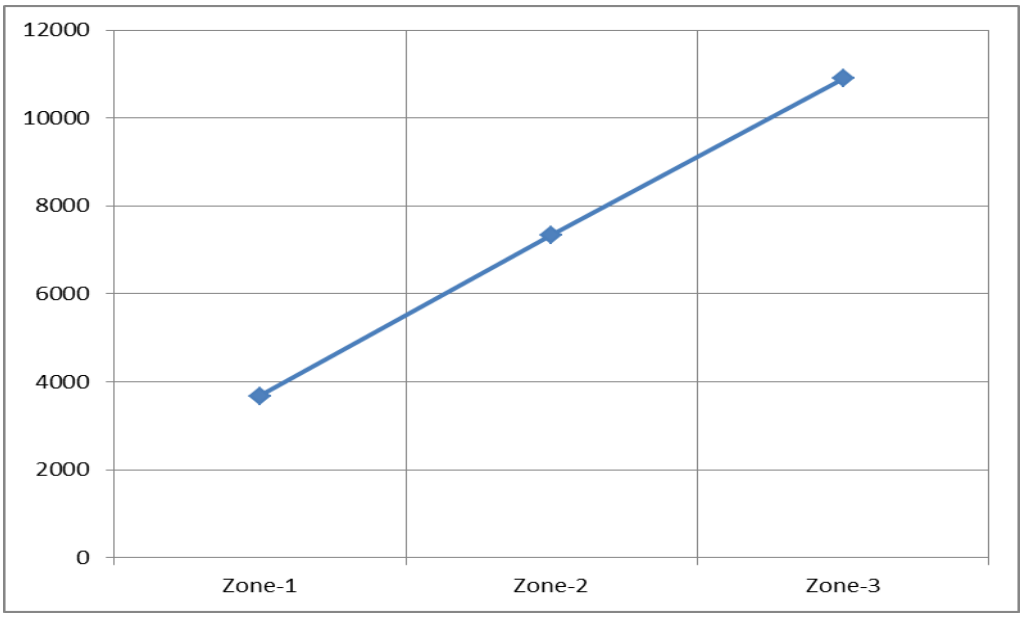

Figure-3 Dissemination of Journals by Zones

PRIMARY JOURNALS IN THE FIELD OF PEDIATRIC DENTISTRY

There are 93 primary journals identified in the field of Pediatric Dentistry which are presented in Table-4. The list of the primary journals showed that the journals i.e. Pediatric Dentistry, International Journal of Paediatric Dentistry, The Journal of Clinical Pediatric Dentistry, European Archives of Paediatric Dentistry, European Journal of Paediatric Dentistry, Journal of Dentistry for Children (Chicago, Ill.), Journal of the Indian Society of Pedodontics and Preventive Dentistry, Dental Traumatology, Journal of Dental Education, The Journal of Contemporary Dental Practice, Clinical Oral Investigations, American Journal of Orthodontics and Dentofacial Orthopedics, and Archives of Oral Biology are the top thirteen journals which are presented in the Zone-1 as far as the Pediatric Dentistry research concerned.

Table-4: Primary Journals in the field of Pediatric Dentistry

S.No.	Name of the Journal	No. of Records	Country of Publication	%
1.	Pediatric Dentistry	1178	United States	10.81
2.	International Journal of Paediatric Dentistry	332	England	3.05

S.No.	Name of the Journal	No. of Records	Country of Publication	%
3.	The Journal of Clinical Pediatric Dentistry	324	United States	2.97
4.	European Archives of Paediatric Dentistry	275	England	2.52
5.	European Journal of Paediatric Dentistry	255	Italy	2.34
6.	Journal of Dentistry for Children (Chicago, Ill.)	240	United States	2.20
7.	Journal of the Indian Society of Pedodontics and Preventive Dentistry	222	India	2.04
8.	Dental Traumatology	206	Denmark	1.89
9.	Journal of Dental Education	159	United States	1.46
10.	The Journal of Contemporary Dental Practice	127	India	1.17
11.	Clinical Oral Investigations	125	Germany	1.15
12.	American Journal of Orthodontics and Dentofacial Orthopedics	117	United States	1.07
13.	Archives of Oral Biology	111	England	1.02
14.	Brazilian Oral Research	106	Brazil	0.97
15.	International Journal of Clinical Pediatric Dentistry	101	India	0.93
16.	Brazilian Dental Journal	99	Brazil	0.91
17.	Special Care in Dentistry	99	United States	0.91
18.	British Dental Journal	92	England	0.84
19.	European Journal of Dentistry	90	Germany	0.83
20.	Journal of Clinical and Experimental Dentistry	82	Spain	0.75
21.	BMC Oral Health	77	England	0.71
22.	Journal of Dentistry	76	England	0.70
23.	Journal of Endodontics	75	United States	0.69
24.	European Journal of Orthodontics	68	England	0.62
25.	Journal of Dentistry (Tehran, Iran)	68	Iran	0.62
26.	Case Reports in Dentistry	63	Egypt	0.58
27.	PloS one	63	United States	0.58
28.	Dental Research Journal	62	Iran	0.57
29.	Journal of International Society of Preventive & Community Dentistry	62	India	0.57
30.	Journal of Oral and Maxillofacial Surgery	62	United States	0.57
31.	Journal of Applied Oral Science : Revista FOB	58	Brazil	0.53
32.	Journal of the American Dental Association (1939)	57	England	0.52
33.	Contemporary Clinical Dentistry	56	India	0.51
34.	The Angle Orthodontist	55	United States	0.50

S.No.	Name of the Journal	No. of Records	Country of Publication	%
35.	Acta Odontologica Scandinavica	54	England	0.50
36.	Journal of Dental Research, Dental Clinics, Dental Prospects	53	Iran	0.49
37.	American Journal of Dentistry	51	United States	0.47
38.	ASDC Journal of Dentistry for Children	51	United States	0.47
39.	General Dentistry	51	United States	0.47
40.	Nigerian Journal of Clinical Practice	51	Nigeria	0.47
41.	Zhonghua Kou Qiang Yi Xue Za Zhi = Zhonghua Kouqiang Yixue Zazhi = Chinese	50	China	0.46
42.	Oral Diseases	49	Denmark	0.45
43.	Shanghai Kou Qiang Yi Xue = Shanghai Journal of Stomatology	49	China	0.45
44.	The Journal of Craniofacial Surgery	48	United States	0.44
45.	BMJ Case Reports	47	England	0.43
46.	Oral Surgery, Oral Medicine, Oral Pathology, Oral Radiology, and Endodontics	46	United States	0.42
47.	Biomed Research International	44	United States	0.40
48.	The Saudi Dental Journal	44	Saudi Arabia	0.40
49.	International Endodontic Journal	43	England	0.39
50.	Journal of Clinical and Diagnostic Research : JCDR	42	India	0.39
51.	Lasers in Medical Science	42	England	0.39
52.	Hua Xi Kou Qiang Yi Xue Za Zhi = Huaxi Kouqiang Yixue Zazhi = West China Journal	41	China	0.38
53.	European Journal of Oral Sciences	40	England	0.37
54.	Compendium of Continuing Education in Dentistry (Jamesburg, N.J. : 1995)	38	United States	0.35
55.	International Journal of Dentistry	38	Egypt	0.35
56.	European Journal of Dental Education	37	England	0.34
57.	The Cleft Palate	37	United States	0.34
58.	Indian Journal of Dental Research	36	India	0.33
59.	Dental Materials Journal	35	Japan	0.32
60.	Folia Medica	35	Bulgaria	0.32
61.	Caries Research	34	Switzerland	0.31
62.	The Journal of Evidence	34	United States	0.31
63.	Community Dentistry and Oral Epidemiology	33	Denmark	0.30
64.	Evidence	33	England	0.30
65.	Journal of Public Health Dentistry	33	United States	0.30

S.No.	Name of the Journal	No. of Records	Country of Publication	%
66.	Quintessence International (Berlin, Germany : 1985)	33	Germany	0.30
67.	Dental Materials	32	England	0.29
68.	Journal of Oral Science	32	Japan	0.29
69.	Orthodontics & Craniofacial Research	32	England	0.29
70.	Beijing Da Xue Xue Bao. Yi Xue Ban = Journal of Peking University. Health	31	China	0.28
71.	The Journal of the Michigan Dental Association	31	United States	0.28
72.	Journal of Orthodontics	30	England	0.28
73.	Journal of Cranio	29	Scotland	0.27
74.	Journal of Esthetic and Restorative Dentistry	29	England	0.27
75.	Journal of Periodontology	29	United States	0.27
76.	Microscopy Research and Technique	29	United States	0.27
77.	Anesthesia Progress	28	United States	0.26
78.	Cranio : The Journal of Craniomandibular Practice	28	England	0.26
79.	Journal of Orofacial Orthopedics = Fortschritte Der Kieferorthopadie :	28	Germany	0.26
80.	Scientific Reports	28	England	0.26
81.	Community Dental Health	27	England	0.25
82.	Journal of Dental Research	27	United States	0.25
83.	Journal of Dental Sciences	26	Netherlands	0.24
84.	Journal of Investigative and Clinical Dentistry	26	Australia	0.24
85.	Oral Surgery, Oral Medicine, Oral Pathology and Oral Radiology	26	United States	0.24
86.	Australian Dental Journal	25	Australia	0.23
87.	Journal of Clinical Orthodontics : JCO	25	United States	0.23
88.	Journal of Dentistry (Shiraz, Iran)	25	Iran	0.23
89.	Forensic Science International	24	Ireland	0.22
90.	JDR Clinical and Translational Research	24	United States	0.22
91.	Journal of Dental Anesthesia and Pain Medicine	24	Korea (South)	0.22
92.	Journal of Oral Pathology & Medicine	24	Denmark	0.22
93.	Oral Health & Preventive Dentistry	24	Germany	0.22

DISSEMINATION OF JOURNALS BY COUNTRY-WISE IN ZONES IN THE FIELD OF PEDIATRIC DENTISTRY

The dissemination of journals by country of publication in zone-1 is presented in Table-5 and Zone-2 is presented in Tables-6 and the Primary Journals are presented in Table-7 respectively.

Dissemination of Journals by Country in the First Zone in the Field of Pediatric Dentistry

The United States is the main contributions in zone-1, published 5 (38.46%) journals out of 13 (100%) journals followed by England published 3 (23.08%) journals in the second position. India in the third position published 2 (15.38%) journals, and the fourth position shared by the countries i.e. Denmark published 1 (7.69%) journal, Germany published 1 (7.69%) and Italy published 1 (7.69%) journal. (Fig.4)

Table-5: Dissemination of Journals by country in the First Zone

Country of origin	Total No. of Journals	%	Cumulative Total	Cumulative %
United States	5	38.46	5	38.46
England	3	23.08	8	61.54
India	2	15.38	10	76.92
Denmark	1	7.69	11	84.62
Germany	1	7.69	12	92.31
Italy	1	7.69	13	100.00
Total	**13**	**100.00**		

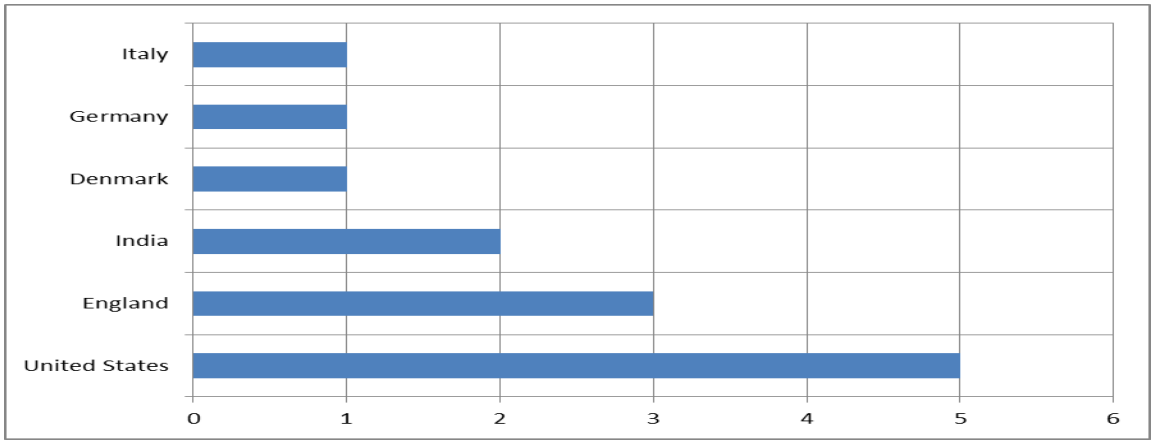

Figure-4: Dissemination of Journals by country in the First Zone

Dissemination of Journals by Country in the Zone-2 in the Field of Pediatric Dentistry:

The dissemination of journals by country of publication in zone-2 has shown in the Tables-6. In zone-2, the United States published 23 journals out of 80 journals; followed by England published 19 journals, India published 5 journals, China published 4 journals, Germany published 4 journals, Iran published 4, Brazil published 3 journals, Denmark published 3 journals, Australia published 2 journals, Egypt published 2 journals, Japan published 2 journals, Bulgaria published 1 journal, Ireland published 1 journal, Korea (South) published 1 journal, the Netherlands published 1 journal, Nigeria published 1 journal, Saudi Arabia published 1 journal, Scotland published 1 journal, Spain published 1 journal, and Switzerland published 1 journal. (Fig.5)

Table-6: Dissemination of Journals by country in the Second Zone

Country of origin	Total No. of Journals	%	Cumulative Total	Cumulative %
United States	23	28.75	23	28.75
England	19	23.75	42	52.5
India	5	6.25	47	58.75
China	4	5	51	63.75
Germany	4	5	55	68.75
Iran	4	5	59	73.75
Brazil	3	3.75	62	77.5
Denmark	3	3.75	65	81.25
Australia	2	2.5	67	83.75
Egypt	2	2.5	69	86.25
Japan	2	2.5	71	88.75
Bulgaria	1	1.25	72	90
Ireland	1	1.25	73	91.25
Korea (South)	1	1.25	74	92.5
Netherlands	1	1.25	75	93.75
Nigeria	1	1.25	76	95
Saudi Arabia	1	1.25	77	96.25
Scotland	1	1.25	78	97.5
Spain	1	1.25	79	98.75
Switzerland	1	1.25	80	100
Total	**80**	**100**		

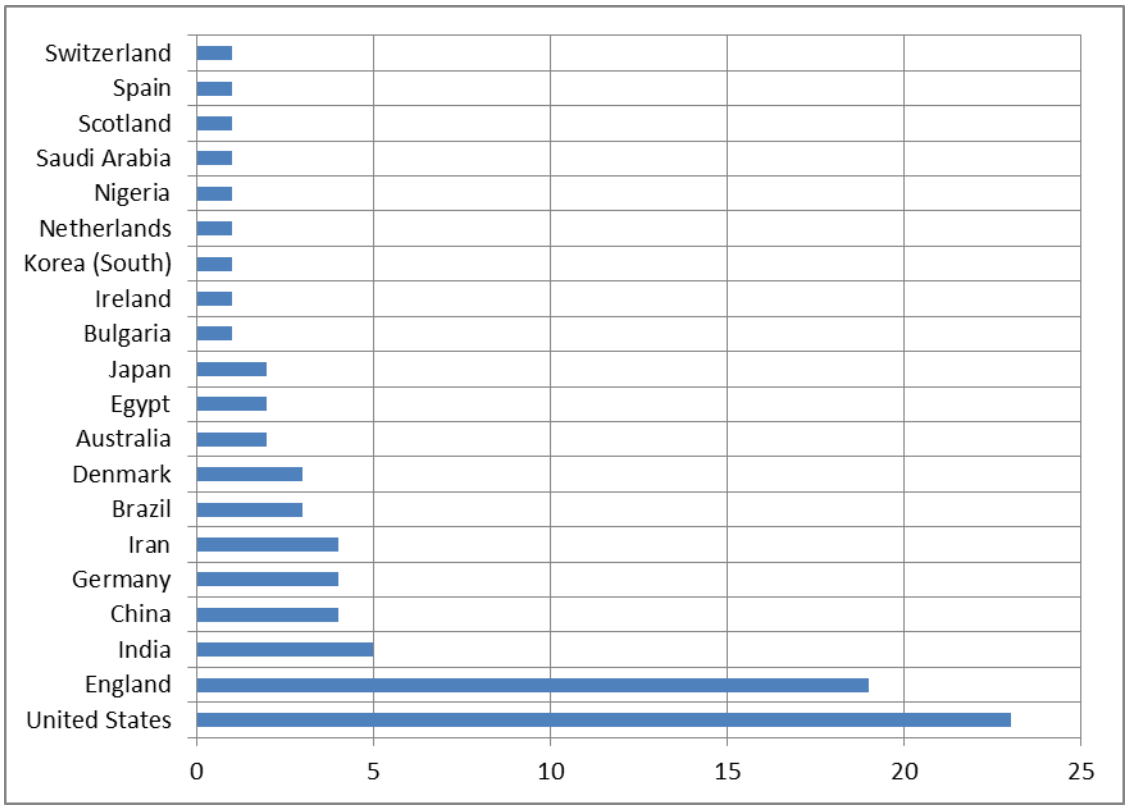

Figure-5: Dissemination of Journals by country in the Zone-2

Dissemination of Journals by Country in the Primary Journals in the Field of Pediatric Dentistry

The journals by country of publication in zone-1 and zone-2 combined have been presented in the Tables-7. The journals are presented in zone-1 and zone-2 combined have been identified as primary journals in the field of Pediatric Dentistry. It has been presented that the United States published 28 primary journals (30.11%) out of 93 (100%) primary journals in the first position; followed by England published 22 primary journals, India published 7 primary journals, Germany published 5 primary journals, China published 4 primary journals, Denmark published 4 primary journals, Iran published 4 primary journals, Brazil published 3 primary journals, Australia published 2 primary journals, Egypt published 2 primary journals, Japan published 2 primary journals, Bulgaria published 1 primary journal, Ireland published 1 primary journal, Italy published 1 primary journal, Korea (South) published 1 primary journal, the Netherlands published 1 primary

journal, Nigeria published 1 primary journal, Saudi Arabia published 1 primary journal, Scotland published 1 primary journal, Spain published 1 primary journal, and Switzerland published 1 primary journal. (Fig.6)

The above-said countries are the primary publishers of literature in the field of Pediatric Dentistry. The study may be supposed as the research in the field of Pediatric Dentistry may be motivated in these countries. Of course, it may be the MEDLINE database has concealed more journals published from these countries in the field of Pediatric Dentistry.

Table-7: Dissemination of Journals by country in Primary Journals in the field of Pediatric Dentistry

Country of origin	Total No. of Journals	%	Cumulative Total	Cumulative %
United States	28	30.11	28	30.11
England	22	23.66	50	53.76
India	7	7.53	57	61.29
Germany	5	5.38	62	66.67
China	4	4.30	66	70.97
Denmark	4	4.30	70	75.27
Iran	4	4.30	74	79.57
Brazil	3	3.23	77	82.80
Australia	2	2.15	79	84.95
Egypt	2	2.15	81	87.10
Japan	2	2.15	83	89.25
Bulgaria	1	1.08	84	90.32
Ireland	1	1.08	85	91.40
Italy	1	1.08	86	92.47
Korea (South)	1	1.08	87	93.55
Netherlands	1	1.08	88	94.62
Nigeria	1	1.08	89	95.70
Saudi Arabia	1	1.08	90	96.77
Scotland	1	1.08	91	97.85
Spain	1	1.08	92	98.92
Switzerland	1	1.08	93	100.00
Total	**93**	**100.00**		

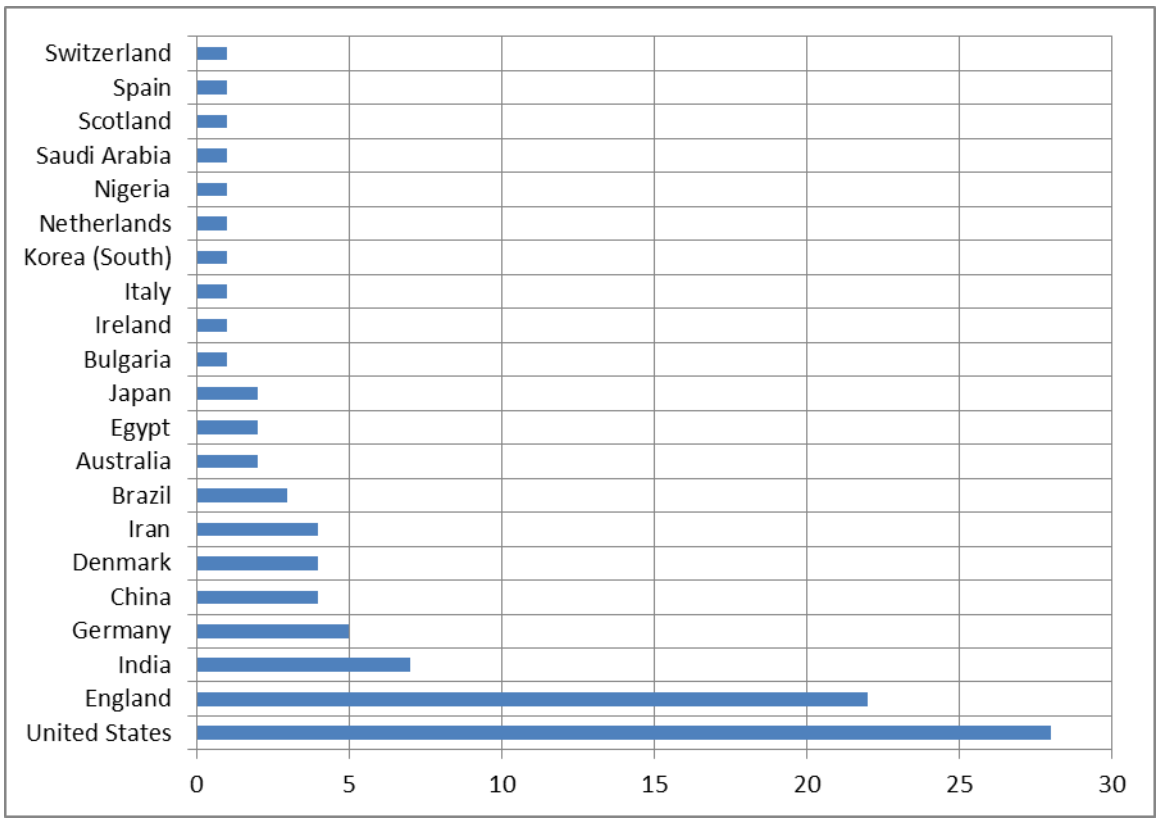

Figure-6: Dissemination of Journals by country in Primary Journals

CONCLUSION

It is found that a total of 19037 records covered in the literature on Pediatric Dentistry which is covered in the MEDLINE data. It was found that the maximum number of records covered in the database is journal articles. A total of 93 journals were identified as primary journals in the field of Pediatric Dentistry. The United States has published 28 primary journals out of 93 primary journals in the first position; followed by England, India, Germany, China, Denmark, Iran, Brazil, Australia, Egypt, Japan, etc.

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