EXPLORING THE PROSTHODONTIC PUBLICATIONS AND AUTHORSHIP CHARACTERISTICS FROM INDIAN INSTITUTIONS IN FOUR MAJOR INTERNATIONAL PROSTHODONTIC JOURNALS- A COMPARATIVE ANALYSIS OF TEN-YEAR PERIOD

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ABSTRACT

BACKGROUND

Over the past decade, several studies have evaluated the quantity and quality of biomedical research publications produced around the world. Specific bibliometric analyses have been conducted on published research in several biomedical fields. However, there has been limited application of the technique to assess trends in global oral health research. Global trends in prosthodontics research activity have not been evaluated.

The aim of this study was to investigate the changes in the amount, the research type of articles reported by authors from Indian institutions (Indian articles) over 10-year time span and to analyse the types of articles and authorship characteristics of Indian authors among four prosthodontics journals published in 2006 and 2015.

MATERIALS AND METHODS

This descriptive study articles published in the Journal of Prosthetic Dentistry (JPD), International Journal of Prosthodontics (IJP), Journal of Prosthodontics (JP) and Gerodontology in 2006 and 2015 were reviewed. Abstracts, Letters to the Editor and Book Reviews were not included in the investigation. The authorship characteristics included number of authors, educational qualification, academic ranks of first and last author and their geographic origin to be included. For each article, number of authors, degrees of all authors, academic ranks of first and last authors and geographic origin were recorded. Descriptive analyses was used as appropriate.

RESULTS

A total of 464 articles met the inclusion criteria from the 4 selected journals for the years studied. A total of 2 articles for the year 2006 and 17 articles for the year 2015 were published by Indian authors. It was found that 0.75% and 3.6% belonged to Indian institutes among the total publications in the year 2006 and 2015 respectively. Publications tripled in ten years from 2006 to 2015. However, in the International Journal of Prosthodontics in both years studied, no publications written by Indian authors was found. Across all 3 journals, the mean number of authors per article increased significantly from 2006 to 2015. The mean number of authors per article increased steadily from few states of India. A steady increase of authors with higher degrees was observed. There was a significant increase in the proportion of senior-ranking faculty as last author over time. The contributions from Uttar Pradesh, Karnataka and Maharashtra increased over time.

CONCLUSION

The number of articles by Indians increased in 2015 compared to 2006. Among them, rate of original research and case reports increased in the same period, while technical reports and reviews decreased. The number of authors per article, the number of authors with higher educational degrees and the percentage of senior-ranked faculty as last authors steadily increased in the prosthodontic literature from 2006 to 2015.

KEY WORDS

Authorship, Academics, Geographic, Publications, Research.

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BACKGROUND

Prosthodontic research is not necessarily congruent with the field of study within which a prosthodontist earned his or her academic degree. The emerging paradigm redefines prosthodontic research as a translational science, concerned with the transformation of fundamental knowledge into treatments. The study of measures to move specific aspects of knowledge into widespread availability as quickly as possible or measures of the feasibility and utility of treatments including applicable aspects of well-being, health economics and health disparity.¹

In recent years advances in applications, techniques and procedures have resulted in a notable increase in research. One of the main purposes of scientific articles in all fields of dentistry is to evaluate interventions and reach valid conclusions about recommended treatment modalities. With the rising number of journals worldwide, dentists showing a positive upward interest in the broader research work, the characteristics of the publications may reveal current trends. E.g. Authorship demographics, constituent components of affiliation, origin, basic or applied research and other variables.²

To assess the research contributions of countries around the world, biomedical research publication has been used as an index for health research productivity.3 Over the past decade, several studies have evaluated the quantity and quality of biomedical research publications produced around the world.4-10 Specific bibliometric analyses have been conducted on published research in several biomedical fields.6-10 However, there has been limited application of the technique to assess trends in global oral health research.10-12 Global trends in prosthodontics research activity have not been evaluated. Therefore, the purpose of this study was to evaluate the quantity and quality of prosthodontic literature produced from all the states of India in four prosthodontic journals in 2015 and comparing to publications in 2006 which gives us the comparative changes seen over the 10year period. In addition, to examine the trends in authorship in prosthodontics by-

- 1. Identifying the contributing factors for authorship trend;
- 2. Exploring the prevalence of co-authored articles;
- Reviewing the characteristics of authorship in the prosthodontic journals including the educational degree and academic rank of authors.

MATERIALS AND METHODS

A descriptive study hand search of 4 peer-reviewed prosthodontic journals were performed for articles published in 2006 and 2015 in Indian Institutions. This period was chosen, because they represent a 10-year observation time for the analysis of prosthodontics publications from India.

Selection of Journals

The journals selected were based on published impact factors and they are most representative of the specialty and of the prosthodontic organisations. Selected journals were-

- 1. Journal of Prosthetic Dentistry (JPD).
- 2. Journal of Prosthodontics (JP).
- 3. International Journal of Prosthodontics.
- 4. Gerodontology.

Selection of Period and the Articles Type

Evaluated time periods were from January 2006 to December 2006 and from January 2015 to December 2015. Abstracts, Letters to the Editor and Book Reviews were not included. Classification by research type with method reported as by Kanavakis et al.¹² After modification namely- [1] Technical report; [2] Case report; [3] Original research; and [4] Review was used.

Parameters

For each of the included articles specific parameters collected were number of authors, educational degrees of all authors, academic ranks of first, last and remaining authors, and geographic origin of the article. With respect to number of authors based on Rosenzweig et al, the articles were grouped as having 1, 2, 3, 4, 5, 6 or more authors. The categories of the educational degrees of all authors BDS, MDS and PhD and others (MBA, MD, M Tech and MSc) were considered.

The academic ranks of first and last authors were classified as student/ resident, junior faculty, senior faculty or other/ unidentified and the classification of academic ranks was according to Drenth with modification. Classifications were simplified from the proposed 8 categories namely Instructor, Lecturer and Assistant Professor were grouped as Junior Faculty, whereas Associate Professor, Professor and Administrative Heads were classified as Senior Faculty. The geographic origin of the article was categorised by states: Karnataka, Andhra Pradesh, Tamilnadu, Uttar Pradesh, Gujarat, Rajasthan, New Delhi, Jammu and Kashmir. If more than one geographic origin of the study was listed, the state of the corresponding author was selected.

Data were recorded and coded into a software database (Microsoft Excel 2003).

RESULTS

A total of 464 articles met the inclusion criteria from the 4 selected journals for the year 2015 and 395 articles for the year 2006 studied. Table I shows the changes in the number of total articles by time in relation to journals and research type. In the year 2006 of the 395 articles published 255 articles were original research, 55 case reports, 41 reviews and 44 technical reports, and in the year 2015 of the 464 articles published 307 articles were original research, 91 case reports, 34 reviews and 32 technical reports.

The number of articles included from each journal varied by year. In the year 2006, 52.9% of the articles were from JPD, 24.5% were from JP, 13.6% were from JP and 8.86% were from Gerodontology. In the year 2015, 49.5% of the articles were from JPD, 18.5% were from JP, 22.1% were from JP and 9.6% were from Gerodontology. Overall for a tenyear period, publication showed a rise of 17.25%, in which research publications increased to 20.39% and the case reports increased by 65%, but the reviews decreased by 21% and technical reports decreased by 22%.

Table II shows the changes in the number of Indian articles by time in relation to journals and research type. A total of 17 articles for the year 2015 and 2 articles for the year 2006 were published by Indian authors. This was 0.75% of the total publications for the year 2006 and 3.6% for the year 2015. The publications tripled in ten years from 2006 to 2015. During the 10 years, there was no publication in International Journal of Prosthodontics from Indian Institutions. Even though there were less publications in the year 2006, the number of publications has increased since 10 years.

Table III shows the proportion of academic ranks of First (F) and Last (L) authors over time in India. Across all 3 journals, the number of authors per article increased significantly in 2006 to 2015. Journal of Prosthetic Dentistry had a greater number of authors than Journal of Prosthodontics and Gerodontology.

With regard to geographic origins, the number of authors per article increased steadily from 2006 to 2015. There was a

significant difference in the number of authors per article among some states of India in 2006 and 2015. The proportion of authors from Uttar Pradesh was higher compared to all other states in 2015. In 2006, only authors from Karnataka and Tamilnadu had published articles. The proportion of single-author articles were none over time for all journals. Publications with two or three authors increased three-fold and four times from 2006 to 2015. The proportion of four-author articles were more (47%) over time for all journals (Table 6 and Table 7).

Among all first authors, there was difference in the proportion of academic ranks over the years and across the journals. In contrast, there was a significant five-fold increase in the proportion of junior ranking faculty as first author over time. In contrast, the percentage of senior-ranking faculty as last author was more than 50% over time periods measured. 21% of the last authors were of other degrees like (MBA, MD, M Tech and MSc) (Fig. 3).

Among the first and last authors, over this time period a steady increase in authors with higher educational degrees was observed. Across all journals, 0.76% of the authors held both dental and PhD degrees in 2015. Authors holding both dental and PhD degrees were none in 2006 and it was increased to one author over time. For first, last and other authorship, from 2006 to 2015 there was increase in MDS degrees holding authors. There was 11% increase in first authors with BDS degree (Fig. 4).

The distribution of publications by states and educational degrees of all authors over the reported years is presented in Table VII. The authors holding a PhD degree were none for other states, except New Delhi in 2015. Of authors holding MDS as highest degree hailing from Uttar Pradesh increased from 2006 to 2015. In these journals in 2006 only Karnataka and Tamilnadu authors published the articles and in 2015 there was major contribution from Uttar Pradesh followed by Karnataka, Maharashtra, New Delhi, Orissa and Goa authors. There was equal contribution from Rajasthan, Punjab and Jammu and Kashmir.

JP	D]	IJP		JP	Gerod	ontology		Total
2006	2015	2006	2015	2006	2015	2006	2015	2006	2015
0	3	0	0	0	0	0	0	0	3
0	4	0	0	0	3	0	0	0	7
1	1	0	0	0	4	0	2	1	7
0	0	0	0	0	0	1	0	1	0
1	8	0	0	0	7	1	2	2	17
		0 3	2006 2015 2006 0 3 0	2006 2015 2006 2015 0 3 0 0	2006 2015 2006 2015 2006 0 3 0 0 0	2006 2015 2006 2015 2006 2015 0 3 0 0 0 0	2006 2015 2006 2015 2006 2015 2006 0 3 0 0 0 0 0	2006 2015 2006 2015 2006 2015 2006 2015 0 3 0 0 0 0 0 0	2006 2015 2006 2015 2006 2015 2006 2015 2006 0 3 0 0 0 0 0 0 0

	Jl	PD		IJP	JP		Gerodo	ntology	Total		
	2006	2015	2006	2015	2006	2015	2006	2015	2006	2015	
Technical Report	35	29	3	1	6	4	0	0	44	34	
Case Report	39	46	8	14	6	25	2	6	55	91	
Original Research	121	142	75	62	28	70	31	33	255	307	
Review	14	13	11	9	14	4	2	6	41	32	
Total	209	230	97	86	54	103	35	45	395	464	
Table	2. Chang	es in the A	Amount of	^f Total Art	icles by Tin	ne in relatio	on to Journa	ls, Researc	h Type		

		2006	201	5				
	First Author	Last Author	First Author	Last Author				
Senior Faculty	1	0	3	8				
Junior Faculty	0	0	10	2				
Student/ Resident	0	0	3	1				
Other	0	0	1	4				
No Info	1	2	2	4				
Table	Table 3. Proportion of Academic Ranks of First (F) and Last (L) Authors over time in India							

Number of Publications **Author Numbers**

Table 4. Prevalence of Published Articles having 1, 2, 3, 4 and 5 or More Authors Per Article over time in India

0

0

0

0

0

JΡ

IJΡ

Dogmood	First A	Author	Last A	Author	All		
Degrees	2015	2006	2015	2006	2015	2006	
BDS	2	0	1	0	3	0	
MDS	14	2	11	2	28	1	
PhD	0	0	0	0	1	0	
Others (MBA, M Tech, MD, MSC)	1	0	5	0	5	0	
No Info	()		0	1 0 5 0		
Table 5. Proportion of	Educational De	egrees of First	(F), Last (L) an	d All (A) Author	s over time in Ind	lia	

Year	Karnataka	Tamilnadu	Maharashtra	Uttar Pradesh	Orissa	New Delhi	Punjab	Goa	J and K	Madhya Pradesh
2006	1	1	0	0	0	0	0	0	0	0
2015	3	0	3	9	1	2	0	1	0	0
Journal										
IPD	0	1	2.	5	0	1	0	0	0	0

0

Gerodontology	2	0	0	1	0	0	0	0	0
Tal	ble 6. Number	of Published A	Articles and their	r Geograph	ic Origin i	by Year o	and by Jou	rnal in	India

Year	2006					2015				
Geographic Origin	BDS	MDS	Ph D	Other	No Info	BDS	MDS	Ph D	Other	No Info
Karnataka	0	3	0	0	0	0	8	0	2	0
Tamilnadu	0	2	0	0	0	0	0	0	0	0
Maharashtra	0	0	0	0	0	0	7	0	1	0
Orissa	0	0	0	0	0	0	4	0	1	0
Uttar Pradesh	0	0	0	0	0	4	27	0	4	0
New Delhi	0	0	0	0	0	0	5	1	2	0
Punjab	0	0	0	0	0	1	0	0	0	0
Rajasthan	0	0	0	0	0	0	0	0	1	0
Goa	0	0	0	0	0	1	2	0	0	0
Jammu and Kashmir	0	0	0	0	0	0	1	0	0	0
Tabl	e 7. Autho	rs' Educa	tional De	grees by Ye	ar, Journa	l and Geo	graphic O	rigin in Ind	lia	



0

0

Figure 1. Changes in Percentage of Publications in Indian Articles

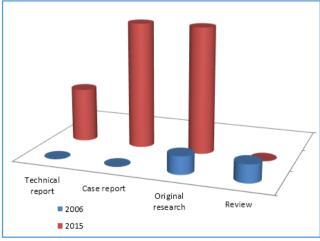
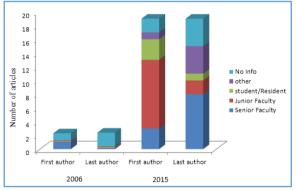


Figure 2. Changes in Percentage of Indian Articles out of Total Articles by Research Type during 10 Years



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Figure 3. Proportion of Academic Ranks of First (F) and Last (L) Authors Over Time

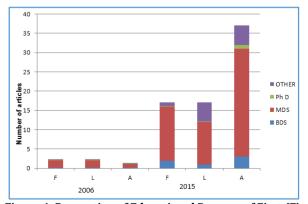


Figure 4. Proportion of Educational Degrees of First (F), Last (L) and All (A) Authors Over Time

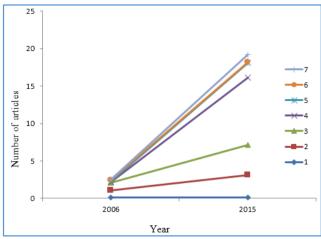


Figure 5. Prevalence of Published Articles having 1, 2, 3, 4 and 5 or More Authors per Article Over Time

DISCUSSION

The present study includes a longitudinal set-up comparing four major prosthodontics journals over a period of 10 years. Comparing the contribution from Indian authors, it appears that the publications have almost increased 8.5 times the number of papers in the four journals analysed in 2006 and in 2015 year (Fig. 2).

The Journal of Prosthetic Dentistry and Journal of Prosthodontics Journals were showing a significant increase in publications by the Indian authors from 2006 to 2015. At the same time, the percentage of case reports and original research articles have increased in the JPD and JP by the Indian authors, but in International Journal of Prosthodontics there were no contribution from Indian authors in both the years. Whereas, overall the Case Reports and Original Research Publications were increased in all the 4 journals, but in the Gerodontology Journal the review numbers were also increased in this interval. In other three journals like JPD, JP, IJP showed decrease in number of Review and Technical Report publications. Faculties were more concerned on Original Research Work.

This study demonstrated that multiple authorship has become more prevalent in the prosthodontic literature. The number of authors per article increased significantly over time (Fig. 1). In contrast, the proportion of articles by a single author has decreased dramatically over time. These trends are similar to previous trends reported for the medical literature.¹²⁻²³

Tables 6 and 7 show that Uttar Pradesh was the main contributor to this increase. Articles from other states were likewise increased. On the other hand, fewer articles from Karnataka state were published in both 2006 and 2015 years. These results are in accordance with the findings of a bibliometric study on prosthodontics literature. The present study also revealed an increasing number of authors.

In comparison with non-academic centres and non-prosthodontics units, academic prosthodontic departments contributed to the publications to a higher extent. This might reflect the fact that specialty educational programs have enhanced their research programs because of an increased competitiveness in attracting research grants as a means of financial security as well as employment of prosthodontic faculty with substantial research background.²⁴

The proliferation of authorship has been documented since the 1930s. ¹⁴ Weeks et al ¹⁹ found the average number of authors per article increased from 4.5 in 1980 to 6.9 in 2000 in 4 medical journals. Podolsky et al ¹⁶ noted an increase in the number of authors per article from 1.1 in 1972 to 2.6 in 1981. Others have reported a steady increase in the proportion of articles with 6 or more authors. ^{14,17,19,20}

In the present study a steady increase in authors with higher educational degrees was observed, while an increase in senior ranked faculty and a great surge in dental and PhD degrees for last authorship were noted. This observation may confirm a trend shown in previous studies^{13,18} that seniorranking faculty now usually hold higher educational degrees. In addition with more faculty obtaining advanced training, it could be construed that there is more proficiency and interest in performing research. This observation may indicate a promising future for the specialty.

This may also indicate that individuals who have achieved academic stature are still capable of publication, because they have established themselves and thereby continue to receive the funding that ensures their future as investigators. In contrast, younger faculty members may have less time to participate in research due to heavier teaching loads. Few younger faculty members may be provided with adequate dedicated time for research investigations.

In the current study, it was observed that the contributions from Uttar Pradesh. Karnataka Maharashtra had a multi-fold increase and this mirrors the Internationalisation trends in in the medical literature. 12,14,25,26 Publications from the rest of the globe represent the positive impact that prosthodontics has on the advancement of knowledge. Diverse contributions to the literature. broadened readership and International collaboration are outcomes of increased globalisation which may be measured through the impact factors and reputations of journals.14,26,27

The current study has identified some notable findings regarding geographic origin and its association with authorship. Author from New Delhi has demonstrated an increasing trend in dual degrees (Dental and PhD degrees). It may be speculated that more authors have received advanced research training and education over the years; thus, more authors with advanced degrees are emerging in publications. The contributions from Uttar Pradesh had a higher number of authors per article compared to other states over the same period. This could be due to the nature of the article, complexity of the research or culture of authorship. The publications with four authors were more followed by three authors and five authors publications (Table 4, Fig. 5).

One of the limitations in this study was that this result was obtained from four sample journals and two sample periods. There may be publication bias because of selection of only four journals (JPD, JP, IJP and Gerodontology). For the more exact conclusion, further research that includes more sample articles and sample periods are required.

CONCLUSION

The number of Indian articles increased in 2015 compared to the number in 2006. The rate of Original Research and Case Report increased in the same period, while technical reports and reviews decreased. This demonstrates the current scenario, which shows the upward trend in quality and quantity of publications.

Within the Limitations of this Study, the following Conclusions were drawn-

- 1. The number of authors per article in the prosthodontic literature has steadily increased from 2006 to 2015.
- 2. The number of authors with higher educational degrees has increased, especially from Uttar Pradesh, Karnataka, New Delhi and Maharashtra.
- 3. The percentage of senior-ranking faculty as last author was higher and has increased 42% over time.

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