

# Bibliometric Analysis of Dentistry Related Articles Published in three Pubmed Indexed Ayurveda Journals from India

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## ABSTRACT

**Introduction:** There is paucity of information about the dentistry related articles published in pubmed indexed Ayurveda journals in India. **Aim:** This study aimed to audit the dentistry related articles published in three pubmed indexed Ayurveda Journals from India. The journals considered for this study were AYU, Ancient Science of Life(ASL) and Journal of Ayurveda and Integrative Medicine(JAIM). **Materials and methods:** A retrospective bibliometric analysis of issues of AYU, ASL and JAIM from 2010 to 2015 was performed using web-based search from Pubmed Central. The articles published were analyzed for type of article and individual topic of dentistry. The articles published were also evaluated to identify whether the study was a funded research project or not. The following parameters were also studied: a. Author mapping, b. International collaborations, c. Number of authors, d. Study types, e. Number of articles published in each year, f. Author's parent speciality (ayurveda/dental/medical) and collaborations. The data were analysed using descriptive statistics. **Results:** A total of 21, 10 and 7 articles were retrieved from AYU, ASL and JAIM respectively. For the type of the articles, originals articles form a major share in AYU and ASL where as review articles form a major share in JAIM. Among the dentistry related articles, oral cancer and gingivitis form the major attraction of the contributors of AYU whereas taste sensation and oral health form the major attraction of the contributors of ASL and JAIM respectively. The highest number of dentistry related articles was published in 2014 with 6 in AYU, 4 in ASL and 3 in JAIM. Funded research project articles of dentistry were published only in AYU in 2015 with 2 and 2014 with 1 article. Statewise, majority of the dentistry related articles in AYU were received from Gujarat and ASL and JAIM published majority of articles from Karnataka. Majority of the published articles related to dentistry in AYU, ASL and JAIM were authored by 3 authors, 2 authors and 5 authors respectively. Major study types in AYU, ASL and JAIM were clinical research. Facultywise, majority of articles in AYU, ASL were contributed by ayurveda and JAIM published majority of articles from dental and medical collaboration. **Conclusion:** A total of 38 articles pertaining to dentistry was retrieved from the 3 pubmed indexed ayurveda journals from India. This paper may be considered as a baseline study for the bibliometric information regarding the dentistry related articles published in pubmed indexed Ayurveda journals in India.

**Keywords:** Dentistry, Pubmed, Bibliometric analysis, Ayurveda journals, India.

## INTRODUCTION

Dentistry is specialised under ayurveda curriculum as branch of Shalaky Tantra.<sup>[1]</sup> Bibliometric information

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about dentistry related articles in medical and dental journals are evident in the literature.<sup>[2],[3],[4]</sup> There is paucity of information about the dentistry related articles published in pubmed indexed ayurveda journals in India. The ayurveda journals which attained international acceptance among scientific scholars were AYU, Ancient Science of Life (ASL) and Journal of Ayurveda and Integrative Medicine(JAIM).<sup>[5]</sup> AYU is an international quarterly journal of research in Ayurveda, published by Institute for Post Graduate Teaching and Research in Ayurveda, Gujarat Ayurved University, Jamnagar. ASL is a quarterly multi-disciplinary scientific research journal in Ayurveda, published by The Ayurvedic Trust, Coimbatore and JAIM is a quarterly journal published jointly by World Ayurveda Foundation and Trans-Disciplinary University,

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Bengaluru. This study aimed to audit the dentistry related articles published in three pubmed indexed ayurveda Journals from India. The journals considered for this study were AYU, ASL and JAIM.

## MATERIALS AND METHODS

A retrospective bibliometric analysis of issues of AYU (AYU Vol 31:1 2010- AYU Vol 36:2 2015), ALS (ASL Vol 29:3 2010- ASL Vol 35:2 2015) and JAIM (JAIM Vol 1:1 2010- JAIM Vol 6:4 2015) from 2010 to 2015 was performed using web-based search from Pubmed Central. (Last accessed August 24, 2016)

The articles published were analyzed for type of article (original article, review article, case report, short communication and letter to editor) and individual topic of dentistry. The articles in press (articles that are not yet assigned to an issue) and supplement about conference proceedings in 3 ayurveda journals were excluded from the study. The following criterion was used for the study. The topic or content of the article should be the only criterion for allotment of dental subject heading as the author may be from any speciality (ayurveda, dental or medical) and may be publishing on a very different topic. The articles published were also evaluated to identify whether the study was a funded research project or not. The following parameters were also studied: a. Author mapping, b. International collaborations, c. Number of authors, d. Study types, e. Number of articles published in each year, f. Author's parent speciality (ayurveda/dental/medical) and collaborations. The data were analysed using descriptive statistics.

## RESULTS

The dentistry related articles published in AYU, ASL and JAIM from 2010 to 2015 are summarized in Table 1, Table 2 and Table 3 respectively.

## DISCUSSION

This bibliometric study about the dentistry related articles is carried out in 3 pubmed indexed Ayurvedic journals (AYU, ASL and JAIM) from India. These 3 journals are representatives for the global propagation of Ayurveda. A total of 21, 10 and 7 articles were retrieved from AYU, ASL and JAIM respectively. From this study, it was interpreted that original articles (16) take a major share and review articles (4) and letters to the editor (1) form the remaining share of the dentistry related articles published in AYU. In ASL, original articles (5) take a major share and letters to the editor (2), review article (1), case report (1) and short communication (1) form the remaining share of the

dentistry related articles. In JAIM, review articles (3) take a major share and original articles (2) and short communications (2) form the remaining share of the dentistry related articles. For the type of the dentistry related articles, originals form a major share in AYU and ASL where as review articles form a major share in JAIM.

Among the dentistry related articles published in AYU, oral cancer (5) followed by gingivitis (4), taste sensation (2), dental caries (2), gingivitis (2) and periodontitis (2) form the major attraction of the contributors. Among the dentistry related articles published in ASL, taste sensation (2) followed by dental caries (2), periodontitis (2), oral health (2) and dental plaque (2) form the major attraction of the contributors. Among the dentistry related articles published in JAIM, oral health (3) followed by gingivitis (1), periodontitis (1), oral submucous fibrosis (1) and candida (1) form the major attraction of the contributors. Among the dentistry related articles, oral cancer and gingivitis form the major attraction of the contributors of AYU whereas taste sensation and oral health form the major attraction of the contributors of ASL and JAIM respectively.

The highest number of dentistry related articles was published in 2014 with 6 in AYU, 4 in ASL and 3 in JAIM. In AYU, the highest number of dentistry related articles was published in 2014 with 6 followed by 2011 and 2015 with 4 articles each and 2010 with 3 and the least published year was 2012 and 2013 with 2 articles each. In ASL, the highest number of dentistry related articles was published in 2014 with 4 followed by 2012 with 3 articles each and 2013 with 2 and the least published year was 2011 with 1 article. In JAIM, the highest number of dentistry related articles was published in 2014 with 3 followed by 2012 with 2 and the least published year was 2011 and 2015 with 1 article each.

Funded research project articles of dentistry were published only in AYU in 2015 with 2 and 2014 with 1 article. State-wise, majority of the articles in AYU were received from Gujarat (9), Uttar Pradesh (5), Karnataka (3), Maharashtra (1), Kerala (1) and Uttarakhand (1). In AYU, there was only 1 contribution from outside India i.e., Sri Lanka and from 2010 to 2015, AYU had published 2 dentistry related articles with international collaborations (Kerala and France (2014); Gujarat and Sri Lanka (2013)).

State-wise, majority of the articles in ASL were received from Karnataka (3), Rajasthan (2), Gujarat (1), and Andhra Pradesh (1). In ASL there were 3 contributions from outside India i.e., Thailand (2) and Iran (1) and from 2010 to 2015, ASL had published only 1 article with international collaboration (Thailand and China (2013)). State-wise, majority of the articles in JAIM were received from Karnataka (2), Madhya Pradesh (1), Himachal Pradesh (1) and Uttar Pradesh (2). In JAIM, there was only 1 contribution from outside India i.e., Australia. State-wise, majority of

**Table 1: The dentistry related articles published in AYU from 2010 to 2015.**

Sl. No	The dental sciences related articles published in AYU from 2010 to 2015	Topic of dentistry-type of article-source of funding- author mapping-international collaborations- number of authors-study types - Author's parent speciality (ayurveda/dental/medical) and collaborations
1	AYU Vol 31:1 2010	
1	Kumar A, Singhal T, Upadhyay BN. Prevalence of touch sensation (sparshanendriya-vyapaktva). Ayu. 2010 Jan; 31(1):111-3.	Taste sensation-review article-no source of funding- Uttar Pradesh, India- no international collaborations- three -systematic review- Ayurveda
2	AYU Vol 31:2 2010	
1	Mansuri M, Rajagopala M, Bavalatti N. A clinical study on Krimidanta with reference to dental caries and its management with Jatipatradi Gutika and Yavanadi Churna. Ayu. 2010 Apr; 31(2):223-7.	Dental caries-original article- no source of funding – Gujarat, India- no international collaborations-three- clinical research -Ayurveda
3	AYU 31:4 2010	
1	Vyas P, Thakar A B, Baghel M S, Sisodia A, Deole Y. Efficacy of Rasayana Avaleha as adjuvant to radiotherapy and chemotherapy in reducing adverse effects. Ayu 2010 Oct;31(4):417-23	Oral cancer- original article- no source of funding – Gujarat, India- no international collaborations-five- clinical research - Ayurveda and medical collaboration
4	AYU Vol 32:2 2011	
1	Das D, Agarwal SK, Chandola HM. Protective effect of Yashtimadhu (Glycyrrhiza glabra) against side effects of radiation/chemotherapy in head and neck malignancies. Ayu. 2011 Apr; 32(2):196-9.	Oral cancer- original article- no source of funding – Gujarat, India- no international collaborations-three- clinical research - Ayurveda and medical collaboration
2	Unadkat R, De S, Manjusha R. Clinical efficacy of “Bhadra Mustadi Paste” and “Nagaradi Kwatha Gandusha” in Shitada (Gingivitis). Ayu. 2011 Apr; 32(2):218-24.	Gingivitis - original article- no source of funding – Gujarat, India- no international collaborations-three- clinical research - Ayurveda
3	Saini R, Sharma S, Saini S. Ayurveda and herbs in dental health. Ayu. 2011 Apr; 32(2):285-6.	Oral health–letters to the editor - no source of funding – Maharashtra, India- no international collaborations-three- commentary- dental
5	AYU Vol 32:4 2011	
1	Kadam A, Prasad BS, Bagadia D, Hiremath VR. Effect of Ayurvedic herbs on control of plaque and gingivitis: A randomized controlled trial. Ayu. 2011 Oct; 32(4):532-5.	Gingivitis –original article- no source of funding – Karnataka, India- no international collaborations-four-clinical research -ayurveda and dental collaboration
6	AYU Vol 33:2 2012	
1	Ediriweera ER, Premarathna NY. Medicinal and cosmetic uses of Bee's Honey - A review. Ayu. 2012 Apr; 33(2):178-82.	Teething pain-review article- no source of funding –Sri Lanka- no international collaborations-two-systematic review- Ayurveda
2	Gupta VK, Malhotra S. Pharmacological attribute of Aloe vera: Revalidation through experimental and clinical studies. Ayu. 2012 Apr; 33(2):193-6.	Aloe vera in dentistry-review article- no source of funding- Uttar Pradesh, India- no international collaborations-two-systematic review- -dental
7	AYU Vol 34:1 2013	
1	Peiris KP, Rajagopala M, Patel N. A comparative study of Dashana Samskara Choorna Pratisarana and Dashana Samskara paste application in the management of Sheetada (Gingivitis). Ayu. 2013 Jan; 34(1):63-9.	Gingivitis-original article-no source of funding-Srilanka, Gujarat, India-international collaboration-three -clinical research- Ayurveda and dental collaboration
8	AYU Vol 34:4 2013	
1	Shetty S, Thomas B, Shetty V, Bhandary R, Shetty RM. An in-vitro evaluation of the efficacy of garlic extract as an antimicrobial agent on periodontal pathogens: A microbiological study. Ayu. 2013 Oct; 34(4):445-51.	Periodontitis – original article- no source of funding- Karnataka, India-no international collaborations-five -Pharmacological study - dental and medical collaboration
9	AYU Vol 35:1 2014	
1	Atara AG, Manjusha R, Shukla VJ, Vaghela DB, Rooparalia B. Clinical evaluation of Krimidanta Pratishedha (anti-caries) activity of Triphaladi Gandusha in high risk dental caries patients. Ayu. 2014 Jan; 35(1):42-5.	Dental caries- original article- no source of funding- Gujarat, India-no international collaborations-five -clinical research- ayurveda

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**Table 1: Cont'd.**

2	Kudalkar MD, Nayak A, Bhat KS, Nayak RN. Effect of <i>Azadirachta indica</i> (Neem) and <i>Aloe vera</i> as compared to subantimicrobial dose doxycycline on matrix metalloproteinases (MMP)-2 and MMP-9: An in-vitro study. <i>Ayu</i> . 2014 Jan; 35(1):85-9.	Periodontitis – original article- no source of funding- Karnataka, India-no international collaborations- four-pharmacological study– dental and medical collaboration
10	AYU Vol 35:2 2014	
1	Sinha DJ, Sinha AA. Natural medicaments in dentistry. <i>Ayu</i> . 2014 Apr; 35(2):113-8.	Ayurvedic endodontic medicaments –review article- no source of funding- Uttar Pradesh, India-no international collaborations-two- systematic review- dental
2	Panara KB, Acharya R. Consequences of excessive use of <i>Amlarasa</i> (sour taste): A case-control study. <i>Ayu</i> . 2014 Apr; 35(2):124-8.	Taste sensation – original article- no source of funding- Gujarat, India-no international collaborations-two- clinical research- ayurveda
3	Deshpande A, Tandon S, Deshpande N. Low resource screening method of pre-cancerous lesions and its reversal by <i>Triphala</i> in teen-age Indian population. <i>Ayu</i> . 2014 Apr; 35(2):160-7.	Oral cancer – original article- no source of funding- Uttar Pradesh, Karnataka, India-no international collaborations-three-clinical research –dental and medical collaboration
4	Ravindran D, Hariharan I, Muwonge R, Kumar RR, Pillai MR, Ramadas K. Efficacy of <i>Varunadi Ghrita</i> (polyherbal compound) in treated head and neck cancer cases as a biological response modifier. <i>Ayu</i> . 2014 Apr; 35(2):168-74.	Oral cancer-original article-funding by Kerala State Council for Science Technology and Environment, Government of Kerala- Thiruvananthapuram, Kerala, France- international collaborations-six clinical research -medical
11	AYU Vol 36:1 2015	
1	Kachare KB, Kar AC. Assessment of prognostic aspects of cancer by <i>Taila Bindu Pariksha</i> . <i>Ayu</i> . 2015;36(1):18-22	Oral cancer –original article-funding by Faculty of Ayurveda, IMS, BHU, Varanasi- Uttar Pradesh, India-no international collaboration-two- survey study-Ayurveda
2	Patel KR, Rajagopala M, Vaghela DB, Shah A. A pilot study on Ayurvedic management of oral submucous fibrosis. <i>Ayu</i> . 2015 Jan; 36(1):34-40.	Oral submucous fibrosis –original article-funding by IPGT and RA, Gujarat Ayurved University, Jamnagar- Gujarat, India- no international collaboration-four-clinical research-Ayurveda and medical collaboration
12	AYU Vol 36:2 2015	
1	Kandwal A, Mangain RK, Mangain P. Comparative evaluation of turmeric gel with 2% chlorhexidine gluconate gel for treatment of plaque induced gingivitis: A randomized controlled clinical trial. <i>Ayu</i> . 2015 Apr; 36(2):145-50.	Gingivitis –original article-no source of funding- Dehradun, Uttarakhand, India-no international collaborations-three-clinical research- Ayurveda and dental collaboration
2	Brahmkshatriya HR, Shah KA, Ananthkumar GB, Brahmkshatriya MH. Clinical evaluation of <i>Cissus quadrangularis</i> as osteogenic agent in maxillofacial fracture: A pilot study. <i>Ayu</i> . 2015 Apr; 36(2):169-73.	Maxillomandibular fractures–original article-no source of funding- Vadodara, Gujarat, India-no international collaborations-four-clinical research -dental

the dentistry related articles in AYU were received from Gujarat and ASL and JAIM published majority of articles from Karnataka.

Majority of the published articles related to dentistry in AYU were authored by 3 authors (8) followed by 2 authors (5), 4 authors (4), 5 authors (3) and 6 authors (1). Majority of the published articles related to dentistry in ASL were authored by 2 authors (3) and 4 authors (3) followed by 1 authors (1), 3 authors (1), 7 authors (1) and 8 authors (1). Majority of the published articles related to dentistry in JAIM were authored by 5 authors (2) followed by 1 author (1), 2 authors (1), 3 authors (1), 4 authors (1) and 7 authors (1). Majority of the published articles related to dentistry in AYU, ASL and JAIM were authored by 3 authors, 2 authors and 5 authors respectively.

The study types in AYU were depicted in the form of clinical research (13), pharmacological study (2) and survey study (1) for original article, systematic review (4) for review articles, commentary (1) for letters to the editor. The study types in ASL were depicted in the form of clinical research (5), pharmacological study (1) for original article and short communication, systematic review (1) for review articles, case study (1) for case reports, commentary (2) for letters to the editor. The study types in JAIM were depicted in the form of clinical research (4) for original article and short communication and systematic review (3) for review articles.

Facultywise, majority of articles in AYU were contributed by ayurveda (7), dental (4), ayurveda and medical collaboration (3), ayurveda and dental collaboration (3),

**Table 2: The dentistry related articles published in Ancient Science of Life from 2010 to 2015.**

Sl. No	The dental sciences related articles published in Ancient Science of Life from 2010 to 2015	Topic of dentistry-type of article-source of funding-author mapping-international collaborations- number of authors- study types - Author's parent speciality (ayurveda/dental/medical) and collaborations
1	ASL Vol 31:2 2011	
1	Kote S, Kote S, Nagesh L. Effect of pomegranate juice on dental plaque microorganisms (streptococci and lactobacilli). <i>Anc Sci Life</i> . 2011 Oct; 31(2):49-51.	Dental plaque-original article-no source of funding- Davangere, Karnataka, India- no international collaborations- three – clinical research –dental and medical collaboration
2	ASL Vol 31:4 2012	
1	Wiwanitkit S, Wiwanitkit V. Pomegranate juice on dental plaque microorganisms. <i>Anc Sci Life</i> . 2012 Apr; 31(4):208.	Dental plaque-letter to the editor- no source of funding – Thailand- no international collaborations-two- commentary -medical
3	ASL Vol 32:2 2012	
1	Ramesh G, Nagarajappa R, Madhusudan AS, Sandesh N, Batra M, Sharma A, Patel SA. Estimation of salivary and tongue coating pH on chewing household herbal leaves: A randomized controlled trial. <i>Anc Sci Life</i> . 2012 Oct; 32(2):69-75.	Oral health- original article- no source of funding – Udaipur, Rajasthan, India- no international collaborations-seven- clinical research –dental
2	Vijayalakshmi N. Role of Sadyo Vamana in dental abscess (danta arbuda). <i>Anc Sci Life</i> . 2012 Oct; 32(2):104-6.	Dental caries- case report- no source of funding – Hyderabad, Andra Pradesh, India- no international collaborations-one- case study -Ayurveda
4	ASL Vol 32:3 2013	
1	Yasri S, Wiwanitkit V. Sadyo Vamana for dental abscess. <i>Anc Sci Life</i> . 2013 Jan; 32(3):178.	Dental caries-letter to the editor- no source of funding –Thailand, China- international collaborations-two- commentary- medical
5	ASL Vol 32:4 2013	
1	Warad SB, Kolar SS, Kalburgi V, Kalburgi NB. Lemongrass essential oil gel as a local drug delivery agent for the treatment of periodontitis. <i>Anc Sci Life</i> . 2013 Apr; 32(4):205-11.	Periodontitis –original article- no source of funding – Bagalkot, Karnataka, India- no international collaborations-four-clinical research –dental
6	ASL Vol 33:3 2014	
1	Pushpan R, Nishtewsar K. Rasa Nirdhāra (assessment of taste) of <i>Leonotis nepetifolia</i> (L.) R. Br.: A preliminary study in healthy volunteers. <i>Anc Sci Life</i> . 2014 Jan; 33(3):186-91.	Taste sensation-short communication-no source of funding- Gujarat, India-no international collaboration-two -clinical research-Ayurveda
7	ASL Vol 33:4 2014	
1	Rath SK, Panja AK, Nagar L, Shinde A. The scientific basis of rasa (taste) of a substance as a tool to explore its pharmacological behavior. <i>Anc Sci Life</i> . 2014 Apr-Jun; 33(4):198-202.	Taste sensation – review article- no source of funding- Jaipur, Rajasthan, India-no international collaborations-four – systematic review -ayurveda
2	Shafiee HA, Motamedi MH, Mina M, Taheri JB, Azimi S, Joharchi K, Yadegari Z, Rasouli HR. Evaluation of cytotoxic effects of Anbarnesa on fibroblast L929: Can it be used as a mouthwash? <i>Anc Sci Life</i> . 2014 Apr-Jun; 33(4):203-7.	Periodontitis - original article- no source of funding- Iran-no international collaborations-eight –pharmacological study- dental and medical collaboration
8	ASL Vol 34:2 2014	
1	Ajay Rao HT, Bhat SS, Hegde S, Jhamb V. Efficacy of garlic extract and chlorhexidine mouthwash in reduction of oral salivary microorganisms, an <i>in vitro</i> study. <i>Anc Sci Life</i> . 2014 Oct-Dec;34(2):85-8.	Oral health –original article- no source of funding- Mangalore, Karnataka, India-no international collaborations-four- clinical research –dental

**Table 3: The dentistry related articles published in Journal of Ayurveda and integrative medicine from 2010 to 2015.**

Sl. No	The dental sciences related articles published in Journal of Ayurveda and integrative medicine from 2010 to 2015	Topic of dentistry-type of article-source of funding- author mapping-international collaborations- number of authors-study types- Author's parent speciality (ayurveda/dental/medical) and collaborations
1	JAIM Vol 2:2 2011	
1	Singh A, Purohit B. Tooth brushing, oil pulling and tissue regeneration: A review of holistic approaches to oral health. J Ayurveda Integr Med. 2011 Apr; 2(2):64-8.	Oral health-review article-no source of funding- Bhopal, Madhya Pradesh, India- no international collaborations- two –systematic review–dental
2	JAIM Vol 3:2 2012	
1	Somu CA, Ravindra S, Ajith S, Ahamed MG. Efficacy of a herbal extract gel in the treatment of gingivitis: A clinical study. J Ayurveda Integr Med. 2012 Apr;3(2):85-90.	Gingivitis –original article- no source of funding – Hassan, Karnataka, India- no international collaborations-four- clinical research-dental and medical collaboration
3	JAIM Vol 3:4 2012	
1	Dahiya P, Kamal R, Luthra RP, Mishra R, Saini G. Miswak: A periodontist's perspective. J Ayurveda Integr Med. 2012 Oct;3(4):184-7.	Oral health- review article- no source of funding – Himachal Pradesh, India- no international collaborations-five- systematic review -dental
4	JAIM Vol 5:1 2014	
1	Shetty PJ, Hegde V, Gomes L. Anticandidal efficacy of denture cleansing tablet, Triphala, Aloe vera, and Cashew leaf on complete dentures of institutionalized elderly. J Ayurveda Integr Med. 2014 Jan;5(1):11-4.	Candida -short communication- no source of funding – Mangalore, Karnataka, India- no international collaborations-three- clinical research –dental and medical collaboration
5	JAIM Vol 5:2 2014	
1	Gupta D, Bhaskar DJ, Gupta RK, Karim B, Jain A, Singh R, Karim W. A randomized controlled clinical trial of Ocimum sanctum and chlorhexidine mouthwash on dental plaque and gingival inflammation. J Ayurveda Integr Med. 2014 Apr; 5(2):109-16.	Periodontitis –original article- no source of funding – Uttar Pradesh, India- no international collaborations-seven-clinical research –dental and medical collaboration
6	JAIM Vol 5:4 2014	
1	Cohen MM. Tulsi - Ocimum sanctum: A herb for all reasons. J Ayurveda Integr Med. 2014 Oct-Dec;5(4):251-9.	Oral health-review article- no source of funding –Australia- no international collaborations-one-systematic review–medical
7	JAIM Vol 6:1 2015	
1	Srivastava A, Agarwal R, Chaturvedi TP, Chandra A, Singh OP. Clinical evaluation of the role of tulsi and turmeric in the management of oral submucous fibrosis: A pilot, prospective observational study. J Ayurveda Integr Med. 2015 Jan-Mar; 6(1):45-9.	Oral submucous fibrosis-short communication-no source of funding- Varanasi, Uttar Pradesh, India-no international collaboration-five -clinical research- Ayurveda and dental collaboration

dental and medical collaboration (3) and medical (1). Facultywise, majority of articles in ASL were contributed by ayurveda (3), dental (3), dental and medical collaboration (2) and medical (2). Facultywise, majority of articles in JAIM were contributed by dental and medical collaboration (3), dental (2), ayurveda and dental collaboration (1) and medical (1).

### Limitations

The main limitation of this study is that the topic related to individual dentistry related topic is made by the author himself after scrutinizing the content of the published article.

The another limitation of this study is the data pertaining to dentistry related articles in 3 pubmed indexed ayurveda journals may not reflect the overall dentistry related research output from India.

### Recommendations

The ayurveda journals in India should focus on the comprehensive appraisal of Triphala and turmeric and their several applications in dentistry.<sup>[6],[7]</sup> The ayurveda journals should encourage more collaborative research articles related to dentistry from other disciplines (medical and dental).

## CONCLUSION

To conclude, a total of 38 articles pertaining to dentistry was retrieved from the 3 pubmed indexed ayurveda journals from India. This paper may be considered as a baseline study for the bibliometric information regarding the dentistry related articles published in pubmed indexed Ayurveda journals in India.

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