

July-December 2016 Volume 8 Number 2 ISSN 2230-8695

**Editors-in-Chief**

Vandana KL  
Nagaveni NB

**CODS**  
*Journal of Dentistry*

*An Official Publication of College of Dental Sciences and  
Alumni Association, Davanagere*



[www.jaypeebrothers.com](http://www.jaypeebrothers.com)  
[www.jaypeejournals.com](http://www.jaypeejournals.com)

## 1. Aims and Scope

The journal concentrates on basics, epidemiology, etiology, treatment, advances and research oriented scientific dissemination of knowledge of all disciplines of Dentistry and current general topics of science. It also focus on clinical research to enable the budding dentists and researchers to communicate and propagate their results to other disciplines of the community. The inculcation of new scientific knowledge and promoting the exchange of innovative thoughts and suggestions is also encouraged.

## 2. Ethical Considerations

Manuscripts submitted for publication must comply with the following ethical considerations:

### **Informed Consent**

Informed consent of the patients must be taken before they are considered for participation in the study. Patient identifying information, such as names, initials, hospital numbers or photographs, should not be included in the written descriptions. Patient consent should be obtained in written and archived with the authors.

### **Protection of Human Subjects and Animals in Research**

When conducting experiments on human subjects, appropriate approval must have been obtained by the relevant ethics committees. All the procedures must be performed in accordance with the ethical standards of the responsible ethics committee both (institutional and national) on human experimentation and the Helsinki Declaration of 1964 (as revised in 2008). When reporting experiments on animals, authors must follow the institutional and national guidelines for the care and use of laboratory animals.

## 3. Copyright

Following guidelines must be followed before submission of the manuscript:

The articles must represent original research material, should not have been published before, and should not be under consideration of publication elsewhere. This, however, does not include previous publication in form of an abstract or as part of published literature (review or thesis). It is the duty of the author to obtain the necessary permissions for extensive quotations, tables, illustrations, or any other copyrighted material they are using in the paper before a paper can be considered for publication. Copyright of the article gets transferred to Jaypee Brothers Medical Publishers (P) Ltd., once the article has been accepted for publication. The author would be asked to sign the "Copyright Transfer Form" before his/her article is considered for publication. Once the Copyright Transfer statement has been signed by the corresponding author, no change in authorship or in the order of the authors listed on the article would be accepted by Jaypee Brothers Medical Publishers (P) Ltd. Also by signing the above-mentioned form, the author reassigns the rights of copublishing, or translation if considered necessary in future to the publisher. In the advent of occurrence of any dispute, the matter would be resolved within the jurisdiction of New Delhi court.

While all care has been taken to provide accurate and correct information in accordance with the date of publication, neither the authors/editors nor the publisher takes any legal responsibility for any unintentional omission or error. The publisher makes no expressed or implied warranty with respect to the information contained herein. The published material cannot be photocopied for the following purposes: general distribution, promotion, new works or resale. If this is required, specific written permission requires to be obtained from the publisher. Exclusive rights to reproduce and distribute the articles in this journal have been protected by copyright. This also covers the rights to reproduce or distribute the article as well as the translation rights. No material published in this journal can be reproduced in digital format or stored in form of electronic databases, video disks, etc.

Both the conflict of interests and financial disclosure need to be handled well while conducting the research study. Disclosure of such relationships is also important in connection with all articles submitted for publication. Both of these have also been included in the Copyright Transfer Form. Authors should give due acknowledgment to the individuals who provide writing or other

assistance while conducting the research study and also disclose the funding source for the research study.

## 4. Subscription Information

ISSN 2230-8695

### • **Subscription rates**

For information on subscription rates and the other journal-related enquiries, please contact:

[subscriptions@jaypeejournals.com](mailto:subscriptions@jaypeejournals.com)

### • **Orders**

Journals Department  
Jaypee Brothers Medical Publishers (P) Ltd.  
4838/24, Ansari Road, Daryaganj  
New Delhi 110 002, India  
Phone: +91-11-4357 4357  
Fax: +91-11-4357 4314  
e-mail: [subscriptions@jaypeejournals.com](mailto:subscriptions@jaypeejournals.com)

## 5. Electronic Media

An electronic edition of this journal is available at [www.jaypeejournals.com](http://www.jaypeejournals.com)  
Manuscripts can be submitted online at [www.codsod.com](http://www.codsod.com)

## 6. Advertisement

For advertisement queries, please contact:  
Journals Department  
Jaypee Brothers Medical Publishers (P) Ltd.  
e-mail: [advertisements@jaypeejournals.com](mailto:advertisements@jaypeejournals.com)

For any queries regarding online submission, please e-mail us at: [help-desk@jaypeejournals.com](mailto:help-desk@jaypeejournals.com)

For editorial queries, please contact:  
[chetna.malhotra@jaypeebrothers.com](mailto:chetna.malhotra@jaypeebrothers.com)

The journal is printed on acid-free paper.

Copyright  
© Jaypee Brothers Medical Publishers (P) Ltd.

[www.jaypeebrothers.com](http://www.jaypeebrothers.com)  
[www.jaypeejournals.com](http://www.jaypeejournals.com)

## Editors-in-Chief

Vandana KL  
Nagaveni NB

## Assistant Editor

Bharath KP

## Patrons

Sri Shamanur Shivashankarappa  
Sri SS Mallikarjuna

## Chief Advisor

VV Subba Reddy

## President

Vasundhara Shivanna

## Vice President

Roopa KT

## Executive Committee Members

Anupama Kalappanavar

Hombesh

Naveen Shamnur

Poornima

Pradeep Somannavar

Saraswathi Naik

Shashikumar

Sushanth

## Hon Treasurer

Prashant GM

## Hon Secretary

Praveen S Basandi

## Joint Secretary

Prasanna BG

## CDE representative

Neetha Harisha

## CDH representative

Allama Prabhu

## Regional Representatives

Ajay Praveen Tamil Nadu

Atul Gupta North India

Hari S S Kerala

Naga Lakshmi Seemandra

Satish Yadav Bengaluru

Shekar K Telangana

## Publishing Center

Publisher

Jitendar P Vij

Associate Director

Chetna Malhotra Vohra

Managing Editor

Akash Mishra

## EDITORIAL BOARD

### International

Abdel Latif Abid, Tunisia, Africa

Hemanth Kemkar UK

Kiran Nayak, New Zealand

Lakshmayya Kesavalu USA

Muhammad Ahmed Gad, Egypt

Nagamani Narayana Nebraska, USA

Raghunath CV Australia

Roshan NM Kingdom of Saudi Arabia

Sakinabi Basha Kingdom of Saudi Arabia

Shashi Rekha Mohan USA

Sudheer Babu, Australia

Yasaswi Vanga USA

Zakirulla Meer Kingdom of Saudi Arabia

### National

Amir S Sheik

Anupama N Kalappanavar

G Shivaprakash

GP Mamatha

Jasmeet Singh Sodhi

Joann Pauline George

Kiran HY

Krishnamurthy Bonanthaya

Kunal Dhingra

Madhushankari GS

Manish Khatri

Nandini DB

Nandini S Nelivigi

Poornima P

PG Naveen Kumar

Rajendra Desai

Rajeshwari G Annigeri

Roopa KT

Sapna Nadigar

Shobha Prakash

Sivabharani KSN

Sangeetha Dhir

Vasundhara Shivanna

Veena S Prakash

Vinay Kumar G

## Editorial and Production Office

PS Ghuman

Journals Department

Jaypee Brothers Medical Publishers (P) Ltd.

4838/24, Ansari Road, Daryaganj

New Delhi-110 002, India

Phone: +91-11-43574357, +91-9958882255, +91-9717528877

Fax: +91-11-43574314

e-mail: journals@jaypeebrothers.com

ps.ghuman@jaypeebrothers.com

## Advertisements/ Subscriptions/ Reprints

Ashwani Shukla

Phone: +91-8447136447

e-mail: advertisements@jaypeejournals.com

e-mail: subscriptions@jaypeejournals.com

ashwani.shukla@jaypeebrothers.com

## For Website Queries

Phone: +91-11-43574357

e-mail: contact@jaypeejournals.com

# CODS Journal of Dentistry

July-December 2016 Volume 8 Number 2

## Contents



### ORIGINAL ARTICLES

- **Evaluation of Curcumin 10 mg (Curenex<sup>®</sup>) as Local Drug Delivery Adjunct in the Treatment of Chronic Periodontitis: A Clinical Trial** ..... 59-63  
*Priyanka Shivanand, Kangowkar V Vandana, Kharidhi L Vandana, Shobha Prakash*
- **Comparison of Diode Laser and Scalpel Techniques in the Treatment of Gingival Melanin Hyperpigmentation**..... 64-69  
*Bharath G Chandra, Narayan N Walavalkar, Shobha Prakash, NC Praveen*
- **Comparative Evaluation of Antimicrobial Efficacy of Chlorhexidine and Herbal Root Canal Irrigant *Aloe vera* against *Enterococcus faecalis*: An *in vitro* Study**..... 70-73  
*NB Nagaveni, Md Muzammil Khan, P Poornima*
- **Evaluation of Force Decay of Elastomeric Ligatures in Simulated Oral Environment**..... 74-77  
*Mala R Manohar, Gajendra Bhansali*
- **Effect of Different Occlusal Loads on Periodontium: A Three-dimensional Finite Element Analysis**..... 78-90  
*Shaima Muneer, Kharidhi L Vandana*
- **Knowledge, Attitude, and Practices of Interdental Aids among Dental and Medical Malaysian Students in Davangere District, Karnataka, India** ..... 91-99  
*Kharidi L Vandana, Jing Y Hey, How Z Yuan, Hoovinalli P Vivek, Nazam Lakhani*
- **To compare the Incidence of Dentinal Cracks after Instrumentation with Rotary, Reciprocating Twisted File Adaptive System** ..... 100-103  
*R Ambika Kumari, Madhudi S Vishwas*
- **Microhardness Test to evaluate the Effect of Chelating Agents on the Superficial Layer of Root Canal Lumen Dentin**..... 104-107  
*Vasundhara Shivanna, Sharil Pottanchaliyil*

### REVIEW ARTICLE

- **Gingival Thickness: Critical Clinical Dimension of Periodontium** ..... 108-120  
*Kharidhi L Vandana, Pragya Goswami*

### CASE REPORT

- **Idiopathic Congenital Agenesis of Primary Teeth: A Report of Two Cases with Review of Literature** ..... 121-126  
*NB Nagaveni, P Poornima, Anila Valsan, Mebin G Mathew*

# Editorial

---

## Power of Publication

In Europe, Denis de Sallo published the earliest academic journal, *Journal des savants*. The content of this journal included church history, legal reports, and obituaries of famous men.<sup>1</sup> The first issue appeared as a 12-page pamphlet on Monday,<sup>2</sup> January 5, 1665.<sup>3</sup>

There has been a growth in academic publishing in developing countries as they became more advanced in science and technology. Iran, China, India, Brazil, and South Africa were the only developing countries among 31 nations that produced 97.51% of the most cited scientific articles in a study published in 2004. The remaining 162 countries contributed less than 2.5%.<sup>4</sup>

The dissemination of knowledge that occurs through publications is the mainstream to improve the existing information on basic aspects of any subject. Those were the times when scientists had quality time to explore the science with minimum technology. They were successful in leaving a track behind forever through their publication.

In an academic setup, there are two groups of clinico-academicians: one group goes with research on clinical and non-clinical issues, ignores the publication of their research projects, and deprives the academic population learning from their study outcomes. Contrastingly, the second group shares their research study outcomes through publications continuously to disseminate knowledge to improve existing darkness in various aspects of any topic.

The construction of a paper is an arduous job and the authorship is a challenging task. There are more authors who get their authorship through their position and power in an academic institution than they deserve. And the “true” authors are always the force behind the paper publication. And it is the most difficult task to get the publication work done from the graduates or colleagues who actually become authors passively and enjoy the citations actively!

Nonetheless, the power of publication is always long-lived to enrich the author’s academic contribution at personal and institutional levels. For any scientific awards and institution upgrading from the scientific/social committees, the published research papers add an enormous effect in scoring the grades at national and international levels. One such situation for College of Dental Sciences, Davangere, Karnataka, India, is through the research paper—“The 50 most cited manuscripts by Indian periodontists: A citation analysis of PubMed database. *Journal of Oral Health and Dental Management* 2014;13(1):137-145.” This paper was awarded the 4th place at the national level through the publication of Dr KL Vandana, senior professor of periodontics; editor, *CODS Journal of Dentistry*; former associate dean academics (National Assessment and Accreditation Council), and the team of periodontics at the institution. It is an honor and pride moment for her and her group of authors to have secured such a position which could happen once in a lifetime. Secondly, all the hard work and dedication to construct papers awarded Dr KL Vandana 4th place at the national level.

Thus, it is the “power of publication” which is silently enhancing one’s academic growth and which speaks aloud through publication itself as a “God-sent” phenomenon.

## References

1. The Amsterdam printing of the *Journal des savants*, Dibner Library of the Smithsonian Institution (Wikipedia).
2. Brown H. History and the learned journal. *J Hist Ideas* 1972 Jul;33(3):365-378.
3. Hallam H. Introduction to the literature of Europe in the fifteenth, sixteenth, and seventeenth centuries. New York: Harper & Brothers; 1847.
4. Dickson D. China, Brazil and India lead southern science output. *Nature* 2004;430:311.

**KL Vandana**

Senior Professor

Department of Periodontics, College of Dental Sciences

Davangere, Karnataka, India

**NB Nagaveni**

Professor

Department of Pedodontics and Preventive Dentistry, College of Dental Sciences

Davangere, Karnataka, India

## SUBSCRIPTION INFORMATION

### Annual Subscription:

|                |           |                 |
|----------------|-----------|-----------------|
| Individual:    | ₹ 3000.00 | (National)      |
|                | \$ 200.00 | (International) |
| Institutional: | ₹ 6500.00 | (National)      |
|                | \$ 350.00 | (International) |

Subscription can be sent to

**M/s Jaypee Brothers Medical Publishers (P) Ltd.**

Journals Department

Jaypee Brothers Medical Publishers (P) Ltd.

4838/24 Ansari Road, Daryaganj

New Delhi 110 002, India

Phone: +91-11-43574357

Fax: +91-11-43574314

e-mail: [subscriptions@jaypeejournals.com](mailto:subscriptions@jaypeejournals.com)

This journal is published twice in a year, i.e. January-June and July-December. Dollar rates apply to subscribers in all the countries except India where INR price is applicable. All subscriptions are payable in advance and all the rates include postage. Journals are sent by air to all the countries except Indian subcontinent. Subscriptions are on an annual basis, i.e. from January to December. Payment will be made by dollar cheque, credit card or directly through our bank account at the following address:

|  |   |
|--|---|
| 1. Our Banker's Name:                          | Canara Bank, Netaji Subhash Marg<br>Darya Ganj, New Delhi 110 002 |
| 2. Telephone No:                               | 011-23273015, 011-23273849  |
| 3. Fax No:                                     | 011-23255606  |
| 4. Telex No:                                   | 3166291   |
| 5. Our Current A/c No:                         | <b>3828</b>   |
| 6. Amount to be Transferred<br>in the Name of: | JAYPEE BROTHERS MEDICAL<br>PUBLISHERS (P) LTD., NEW DELHI         |
| 7. Swift Code No:                              | CNRB IN BB DFM  |

For further queries, please do not hesitate to contact at [subscriptions@jaypeejournals.com](mailto:subscriptions@jaypeejournals.com)

## ADVERTISEMENT RATES

(For the Print Issues)

### Page

### Single Issue

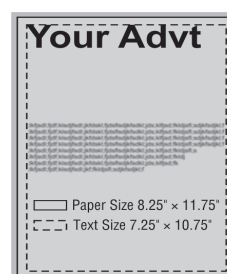
|                          |          |            |
|--------------------------|----------|------------|
| Back cover—color         | ₹ 50,000 | \$ 1000.00 |
| Inside front cover—color | ₹ 40,000 | \$ 800.00  |
| Inside back cover—color  | ₹ 35,000 | \$ 700.00  |
| Inside full page—color   | ₹ 30,000 | \$ 600.00  |

Special position: **Price on request**

### Technical Details

|                     |                                   |
|---------------------|-----------------------------------|
| Paper size          | 8.25" x 11.75"                    |
| Text size           | 7.25" x 10.75"                    |
| Digital file format | EPS on CD (at 300 dpi resolution) |

Printed on art paper using offset printing.



### Schedule

Issues are published in the months of January, May and September.

Advertisement material along with purchase order and payment should reach us at least four weeks prior to the scheduled print date.

### Payment Details

- Payment should be in favor of "Jaypee Brothers Medical Publishers (P) Ltd." and should be payable at New Delhi, India.
- Payment to be done at the time of submitting the advertisement material/booking the advertisement. Please send your advertisement request, payment and advertisement material to the address given above. Editorial board reserves the right to accept or decline the advertisement.

For further queries, please contact [advertisements@jaypeejournals.com](mailto:advertisements@jaypeejournals.com)