

July-September 2011 Volume 23 Number 3 ISSN 0972-1363

**Editor-in-Chief**  
Anil G Ghom (India)

Journal of Indian Academy of  
*Oral Medicine  
and Radiology*



An Official Publication of Indian Academy of  
Oral Medicine and Radiology



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

# Journal of Indian Academy of Oral Medicine and Radiology

## 1. Aims and Scope

The journal is official publication of the *Indian Academy of Oral Medicine and Radiology*, India. Issues are published quarterly in the last week of March, June, September and December. Journal follows the broad guidelines for good publications practice brought out by the committee on publication ethics (COPE) and recommendations of World Association of Medical Editors.

All the rights are reserved. Apart from any fair dealing for the purposes of research or private study, or criticism or review, no part of the publication can be reproduced, stored, or transmitted, in any form or by any means, without the prior permission of the Editor, Journal of Indian Academy of Oral Medicine and Radiology.

Journal of Indian Academy of Oral Medicine and Radiology and/or its publisher cannot be held responsible for errors or for any consequences arising from the use of the information contained in this journal.

The appearance of advertising or product information in the various sections in the journal does not constitute an endorsement or approval by the journal and/or its publisher of the quality or value of the said product or of claims made for it by its manufacturer.

The journal is published and distributed by Jaypee Brothers Medical Publishers. Copies are sent to subscribers directly from the publisher's address. It is illegal to acquire copies from any other source. If a copy is received for personal use as a member of the association/society, one can not resale or give-away the copy for commercial or library use.

## 2. Ethical Considerations

Investigation and surgery on human subjects should conform to the guidelines noted in the World Health Organization Chronicle 1976; 30: 360-362.

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 publications 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, 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. 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 needs 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 acknowledgement 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 0972-1363  
eISSN 0975-1572

### • **Subscription rates**

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

[journals@jaypeebrothers.com](mailto:journals@jaypeebrothers.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)

**Back volumes.** Prices are available on request.

## 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.jiaomr.com](http://www.jiaomr.com)

## 6. Advertisement

For advertisement queries please contact:

Journals Department  
Jaypee Brothers Medical Publishers  
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)

Editor-in-Chief

**Anil G Ghom**

Associate Editors

**FM Debta**

**Abhijeet Deoghare**

Assistant Editor

**Pranoti Pradhan**

Publishing Center

Publisher

**Ankit Vij**

Senior Manager

**Chetna Vohra**

Managing Editor

**Ekta Aggarwal**

Editorial Associate

**Pankaj K Singh**

Creative Designer

**Sumit Kumar**

Editorial Board

Rajendra N Mody  
Punjab Wanjari  
Ramhari Sathwane  
Ajay Bhoosreddy  
S Jayachandran  
Vijeev Vasudevan  
Sishir Yadav  
Ranjeet Patil  
Sunil Sahuji  
Vaishali Keluskar  
Shashikant MC

Review Board

Gopakumar  
Shirish Degwekar  
Anjana Bagewadi  
Sonal Vahanwala  
Sunita Gupta  
Hemant Umarji  
Venkatesh N  
Manjula Marthla  
Chatra Laximikant

Advisors

H Dhooria  
N Gnanasundaram  
D Koteeswaran  
CV Mohan  
A Bhowar  
D Bailoor

Office Bearers

**President**

Sathawane RS

**Hon. Gen. Secretary**

K Sri Krishna

**President Elect**

S Sunderraj

**Imm. Past President**

DB Gandhi Babu

**Vice Presidents**

Selvamuthu Kumar SC

Sandeep Pagare

Daya Jangam

**Joint Secretary**

AS Parihar

**Treasurer**

Sunali Khanna

**Editor-in-Chief**

Anil G Ghom

**Executive Committee**

**Member**

MK Sunil

Mandeep Kaur

Neeraj Taneja

Basavaraj Kalalli

Appaji Athota

Preeti Nair

**Regd Office at Bengaluru**

**Secretary** – Sowmya Krishna

**Treasurer** – T Ramamurthy

Editorial Office

Anil G Ghom

Professor and Head, Department of Oral

Medicine and Radiology, Chhattisgarh Dental

College and Research Institute, Sundra

Rajnandgaon, Chhattisgarh-491441, India

Phone: 09993684365

e-mail: sanvil@rediffmail.com

dranil.ghom@gmail.com

anil\_ghom@yahoo.com

Production Office

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: journals@jaypeebrothers.com

Advertisements

Rakesh Sheoran

Phone: +91-9971020680

e-mail: advertisements@jaypeejournals.com

rakesh.sheoran@jaypeebrothers.com

Subscriptions/Reprints

Abhinav Kumar

Phone: +91-9810279794

e-mail: subscriptions@jaypeejournals.com

abhinav.kumar@jaypeebrothers.com

Website Manager

Rohit Gorawara

Phone: +91-9871855331

e-mail: contact@jaypeejournals.com, rohit.gorawara@jaypeebrothers.com

## SUBSCRIPTION INFORMATION

### Annual Subscription

Individual:	₹ 2000.00	(National)
	\$ 120.00	(International)
Institutional:	₹ 3500.00	(National)
	\$ 200.00	(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: [journals@jaypeebrothers.com](mailto:journals@jaypeebrothers.com)

This journal is published quarterly in a year, i.e. March, June, September and 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  
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: **3828**
6. Amount to be Transferred  
in the Name of: JAYPEE BROTHERS MEDICAL  
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

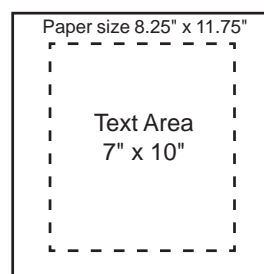
### Single Issue

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	8.5 x 11.5 inches
Print size	7 x 10 inches
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 March, June, September and December.

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 favour "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)

# Journal of Indian Academy of Oral Medicine and Radiology

July-September 2011 Volume 23 Number 3

## Contents

---

### RESEARCH ARTICLES

- **Efficacy and Accuracy of ABO Blood Group Determination from Saliva** ..... 163-167  
*Pawan Motghare, Lata Kale, Aarti S Bedia, Sonal Charde*
- **Comparison of Oral Health Indicators in Type 2 Diabetes Mellitus Patients and Controls** ..... 168-172  
*Rohit Sharma, S Sunder Raj, K Vinod, Y Giridhar Reddy, Vela Desai, Durgesh Bailoor*
- **Palatal Rugae Pattern as an Aid for Personal Identification: A Forensic Study** ..... 173-178  
*Kamala R, Neha Gupta, Amol Bansal, Abhishek Sinha*
- **Determination of Sex by Discriminant Function Analysis of Lateral Radiographic Cephalometry** ..... 179-183  
*Raj Kumar Badam, M Manjunath, MS Rani*
- **A Comparative Evaluation of Efficacy of Tacrolimus and Triamcinolone Acetonide in the Management of Symptomatic Oral Lichen Planus** ..... 184-189  
*Swarna YM, Ali IM, Rajeshwari G Annigeri, Devarasa GM*
- **Various Treatment Modalities and Visceral Organ Involvement (Cardiac) in Oral Submucous Fibrosis: A Clinical Study** ..... 190-194  
*S Manoj Kumar, S Shanmugam, M Ramalakshmi, Suman Jaishankar*

---

### ORIGINAL ARTICLES

- **Dimorphism of Mandibular Canine Index Establishing in Sex Identity** ..... 195-198  
*Shaliputra P Magar, PV Wanjari, Tushar Phulambrikar, SP Mosby, Shilpa S Magar*
- **Pattern of Oral Lesions in Tuberculosis Patients: A Cross-sectional Study** ..... 199-203  
*SC Selvamuthukumar, Nalini Aswath, V Anand*
- **Rapid Detection of HIV-1 and 2 Antibodies by using Oral Fluid: A Multicentric Pilot Study in India** ..... 204-207  
*Nallan CSK Chaitanya, Pinakapani R, Pavan Kumar, Rajeshwari Annigeri, G Raghu Rama Rao, A Amareswar, Veena Ramanna*
- **Dental Health of Patients Undergoing Hemodialysis (A Study)** ..... 208-210  
*Vinay Mohan, Sonal Gupta*

## REVIEW ARTICLES

- **Osteoporosis: Dental Implications** ..... 211-215  
*Veena S Narayanan, Ashok L*
- **Leprosy Specific Orofacial Aspects** ..... 216-220  
*Vathsala Naik, Raghavendra Kini, Smit Singla, Anjali Shetty*
- **Advanced Diagnostic Aids in Endodontics** ..... 221-224  
*Ajay S Saxena, Bhaskar Patle, Praveen Lambade*
- **Fusion Imaging: The Double Impact** ..... 225-228  
*Savita Ghom, Anil Ghom, FM Debta, Abhijeet Deoghare, Rajkumar Diwan, Sarbani Deb Sikdar, Anshul Khandelwal, Manjari Gupta, Bharani Devi*
- **Role of Radiology in Forensic Dentistry** ..... 229-231  
*T Chandrasekhar, P Vennila*
- **Recurrent Aphthous Stomatitis: Current Concepts in Diagnosis and Management** ..... 232-236  
*Vivek V, Bindu J Nair*

## CASE REPORTS

- **Hallermann-Streiff Syndrome: A Rare Case Report** ..... 237-240  
*Vibha Jain, Upasana Sethi, Shilpa Dua, Anshuman Ahuja, Greeshma Wali B*
- **Primary Sonographic Diagnosis of Subcutaneous Cysticercosis** ..... 241-244  
*Shivu ME, K Jayanthi*
- **Psoriatic Arthritis of TMJ Presenting as a First Articular Complaint in Psoriasis** ..... 245-247  
*B Vijay Kumar, A Vijay Kumar, Uday Shankar*
- **Marfan Syndrome: A Report of Two Cases and Review** ..... 248-251  
*Vinay Kumar Reddy K, Venkata Satya Ramesh T, Koteeswaran D, Jayakiran M, Sivaranjani Y*
- **Intranasal Tooth—An Ectopic Eruption of Mesiodens in Nasal Cavity: A Case Report and Review** ..... 252-255  
*Guru Prasad R, Preeti P Nair, Harshkant Gharote, Karthik Hegade, Kavita Agarwal, Arpit Jain*
- **Non-Hodgkin's Lymphoma of Parotid Gland** ..... 256-258  
*Sanat Kumar Bhuyan, Ruchi Bhuyan, Chowberg Naik*
- **Central Odontogenic Fibroma (WHO Type): A Case Report and Review of Literature** ..... 259-262  
*Subrata Talukder, Rahul Agarwal, Prashant Gupta, Santosh BS, Deepankar Misra*
- **Pemphigus Vulgaris: Application of Occlusal Soft Splint with Topical Steroid in the Treatment** ..... 263-266  
*G Vivekanandh Reddy, G Ramlal, K Jitendar Reddy, K Swetha, A Madhavi*
- **Moebius Syndrome: A Rare Case Report** ..... 267-270  
*M Srinivasa Raju, GN Suma, Ravi Prakash, Sumit Goel*
- **Ewing's Sarcoma of the Mandible: A Rare Case Report and Review of Literature** ..... 271-274  
*Sanki Reddy Shailaja, Marthala Manjula, Manika, Chappidi Vani, Ainampudi Bhargavi Krishna, Gannepalli Asha Lata*
- **Regional Odontodysplasia: Report of Two Cases** ..... 275-278  
*K Sridevi, Sri Krishna K*

- 
- **Unilateral Aplasia of Mandibular Condyle: A Rare Case Entity** ..... 279-281  
*Anil G Ghom, FM Debta, Abhijeet Deoghare, Sarbani Das Sikdar, Anshul Khandewal, Savita Ghom, Raj Diwan, Manjari Gupta, Bharani Devi, Prashant Gupta, Shantala Naik*
  - **Unveiling What Lies Beneath! Intraglandular Sialolith: A Clinical Dilemma** ..... 282-285  
*Vishal Mehrotra, Parvathidevi, Thimmarasa VB, Avanti Aggarwal*
  - **Pleomorphic Adenoma of the Palate: Clinico-radiological Case Report** ..... 286-288  
*Manu Dhillon, PG Agnihotri, Srinivasa M Raju, Manisha Lakhanpal*
  - **Osteomyelitis of the Mandible Secondary to Impacted Third Molar** ..... 289-290  
*Appaji Athota, Rama Raju, Prabath, Ratnakar, Nagendra S Chunduri*
  - **Lymphangioma of the Tongue** ..... 291-292  
*Siddharth Gopal, Vijay Raghavan, Shilpashree HS, Pallavi Srivastava*
  - **Iatrogenic Pulpal Injury Masquerading as Atypical Odontalgia** ..... 293-294  
*Praveena Tantradi*



**JAYPEE**

**Advertising & Marketing**

# Dedicated to Mark Your Presence in Medical Fraternity

*We Extend Our Effectual Support in Form of:*

**Advertisement | Bulk Subscription | Reprints | e-Prints  
Online Advertisement | Customization | CME | Endorsements**

- Our tactical and conversant publishing team owns a targeted approach to aid you in designing customized market solutions to make you reach key markets and also enjoy business proliferation with our competitive pricing.
- Being world's leading, extensive medical publishers, our state-of-art products and services developed under the close association of local and international medical experts meet your marketing and educational program requirements productively.
- Our growing international associations give you a platform to experience campaign on global front.
- Our PER division includes a team of renowned doctors and specialists to undertake content management for your products and services.

Explore more at:

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



**Jaypee Brothers Medical Publishers Pvt. Ltd.**

**Domestic & Overseas Operations**

Ahmedabad • Bengaluru • Chennai • Chandigarh • Guwahati • Hyderabad • Kochi • Kolkata  
• Lucknow • Mumbai • Mangalore • Nagpur • Patna • Pune • Vijayawada  
• London (UK) • Panama City (Panama)

**Corporate Office**

4838/24 Ansari Road, Daryaganj, New Delhi 110 002, India

Phone: 91-11-43574357

e-mail: [journals@jaypeebrothers.com](mailto:journals@jaypeebrothers.com)