

September-October 2018 Volume 11 Number 5 ISSN 0974-7052

Editor-in-Chief

Nikhil Marwah (India)

Associate and Managing Editors

KJ Toumba (UK)

Charles Lekic (Canada)

Assistant Editors

Satish Vishwanathaiah
(Kingdom of Saudi Arabia)

Ravi GR (India)

International Journal of
**Clinical
Pediatric Dentistry**



www.jaypeebrothers.com
www.jaypeejournals.com

International Journal of Clinical Pediatric Dentistry

1. Aims and Scope

The aims and objectives of this journal are as follows:

- To promote the practice, education and research specifically related to the specialty of pediatric dentistry.
- To advance the science and art of pediatric and preventive dentistry.
- To promote the exchange of current and innovative procedures as well as basic and clinical research in all areas.
- Focus on clinical research to enable researchers and scientists to communicate their findings to the rest of the community.
- To promote student research in pediatric dentistry.
- To promote optimal oral health and oral health care for children.

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 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 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 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 0974-7052

eISSN 0975-1904

• **Subscription rates**

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

subscriptions@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@jaypeebrothers.com

Back volumes. Prices are available on request.

5. Electronic Media

An electronic edition of this journal is available at www.jaypeejournals.com

Manuscripts can be submitted online at www.ijcpd.com

6. Advertisement

For advertisement queries, please contact:
Journals Department

Jaypee Brothers Medical Publishers (P) Ltd.
e-mail: advertisements@jaypeejournals.com

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

For editorial queries, please contact:
chetna.malhotra@jaypeebrothers.com

The journal is printed on acid free paper.

Copyright

©2018 **Jaypee Brothers Medical Publishers (P) Ltd.**

www.jaypeebrothers.com

www.jaypeejournals.com

Editor-in-Chief

Nikhil Marwah

Professor and Head, Department of Pediatric Dentistry
Mahatma Gandhi Dental College, Jaipur, Rajasthan, India

Associate and Managing Editors

KJ Tumba

Professor, Department of Pediatric Dentistry
Leeds Dental Institute
Leeds, England, United Kingdom

Charles Lekic

Division Head, Pediatric Dentistry
Faculty of Dentistry
University of Manitoba, Canada

Assistant Editors

Satish Vishwanathaiah

Associate Professor, Department of Pedodontics
Division of Preventive Dental Sciences
College of Dentistry, Jazan University
Jazan, Kingdom of Saudi Arabia

Ravi GR

Consultant Pedodontist
Vijayawada, Andhra Pradesh
India

Founding Editor

Usha Mohan Das

Past President, Indian Society of Pedodontics and Preventive Dentistry
Ex-Dean, Professor and Head
Department of Pediatric Dentistry, VS Dental College and Hospital
Bengaluru, Karnataka, India

Publishing Center

Publisher

Jitendar P Vij

Associate Director

Chetna Malhotra Vohra

Managing Editor

Nikita Sondhi

National Editorial Board

Ameet J Kurthukoti

Dental Health Officer, Department of Health and Family Welfare
Government of Karnataka
Virajpet, Karnataka

Anoop Panda

Professor and Head, Department of Pedodontics
College of Dentistry, Ahmedabad, Gujarat

Anshula Deshpande

Professor, Department of Pedodontics
KM Shah Dental College, Baroda, Gujarat

AR Prabhakar

Professor and Head, Department of Pediatric Dentistry
Bapuji Dental College and Hospital
Devangere, Karnataka

Arathi Rao

Professor and Head, Department of Pedodontics
Manipal College of Dental Sciences
Mangaluru, Karnataka

Bal Gopal Varma

Professor and Head, Department of Pediatric Dentistry
Amrita School of Dentistry
Kochi, Kerala

Mandeep Singh

Professor and Head, Department of Pedodontics
PDM Dental College
Bahadurgarh, Haryana

Mridula Goswami

Professor and Head, Department of Pediatric Dentistry
Maulana Azad Dental College
New Delhi

N Sivakumar

Professor and Head, Department of Pediatric Dentistry
Narayana Dental College
Nellore, Andhra Pradesh

Neeraj Gugnani

Professor, Department of Pedodontics
DAV (C) Dental College
Yamunanagar, Haryana

Nikhil Srivastava

Professor and Head, Department of Pedodontics
Subharti Dental College
Meerut, Uttar Pradesh

Priya Verma

Reader, Department of Pediatric Dentistry
ITS Dental College
Muradnagar, Gaziabad, Uttar Pradesh

Puneet Goenka

Associate Professor, Department of Pedodontics
Mahatma Gandhi Dental College and Hospital
Jaipur, Rajasthan

Rama Krishna Yelluri

Professor, Department of Pediatric Dentistry
Kanti Devi Dental College
Mathura, Uttar Pradesh

Rupinder Bhatia

Professor, Department of Pedodontics
DY Patil Dental College
Mumbai, Maharashtra

Sharath Asokan

Professor, Department of Pediatric Dentistry
KSR Institute of Dental Sciences
Tiruchengode, Tamil Nadu

Srinivas Namineni

Professor and Head, Department of Pedodontics
Sri Sai Dental College
Vikarabad, Telangana

Sukhdeep Singh

Professor and Head, Department of Pedodontics
Sharada University
Noida, Uttar Pradesh

Vijayprakash Mathur

Professor, Department of Pedodontics
All India Institute Medical Sciences
New Delhi

International Editorial and Advisory Board

Nigel M King

Professor, Department of Pediatric Dentistry
University of Hong Kong
Hong Kong

Nik Noriah Nik Hussein

Professor, Department of Children's Dentistry and Orthodontics
Faculty of Dentistry, University of Malaya
Malaysia

Noshir R Mehta

Professor and Chairman, Department of General Dentistry
Director, Craniofacial Pain Center
Assistant Dean, International Relations
Tufts University School of Dental Medicine, Boston

Paul S Casamassimo

Professor, Pediatric Dentistry
The Ohio State University College of Dentistry
Chief, Pediatric Dentistry
Nationwide Children's Hospital, Columbus, Ohio

Ronald Kulich

Clinical Psychologist, Craniofacial Pain Center
Tufts University School of Dental Medicine
Boston

Rouble Rana

Consultant Pedodontics
DDS Dental Care Sanghai
China

S Thikkurissy

Assistant Professor, Pediatric Dentistry
The Ohio State University College of Dentistry
Nationwide Children's Hospital
Columbus, Ohio

Samaranayake Lakshman P

Chair Professor in Microbiology
Faculty of Dentistry
University of Hong Kong
Hong Kong

Shams Moopen

Chairman, Dental Health Care Limited
Northampton, England, UK

Stanley Alexander

Professor, Pediatric Dentistry
Tufts University School of Dental Medicine
Boston

Vijay C Pruthi

Professor, University of Manitoba
Canada

Vineet Dhar

Associate Professor
University of Maryland
Baltimore, USA

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, +91-9717528877
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@jaypeebrothers.com
ashwani.shukla@jaypeebrothers.com

For Website Queries

Phone: +91-11-43574357
e-mail: contact@jaypeejournals.com

International Journal of Clinical Pediatric Dentistry

September-October 2018 Volume 11 Number 5

Contents



LETTER TO THE EDITOR

- **Letter to the Editor**357-358
Saravana K Balasubramanian, Ishwarya Gurucharan, Mahalaxmi Sekar

RESEARCH ARTICLES

- **Prevalence of Dental Caries in Children of Age 5 to 13 Years in District of Vaishali, Bihar, India**.....359-364
Puneet Goenka, Samir Dutta, Nikhil Marwah, Aditi Sarawgi, Mitakshara Nirwan, Pooja Mishra
- **Prevalence of Dental Caries and Fissure Sealants in the First Permanent Molars among Male Children in Riyadh, Kingdom of Saudi Arabia**365-370
Mohammed S Aldossary, Abdullah A Alamri, Sattam A Alshiha, Mohammed A Hattan, Yazeed K Alfraih, Hessa M Alwayli
- **Incidence and Demographic Patterns of Orofacial Clefts in Mysore, Karnataka, India: A Hospital-based Study**.....371-374
Praveen Kumar PS, Kanika S Dhull, Lakshmikantha G, Nikita Singh
- **Assessment of Knowledge and Attitude of Medical Practitioners Towards Pediatric Dental Care in Raichur District, Karnataka, India—A Survey**375-381
Dhanu G Rao, Shamama Sheereen, Raghavendra Havale, Shrutha S Prakasha, Manva M Zulfikar
- **Parental Knowledge and Awareness of the First Permanent Molar**.....382-385
Alireza Heydari, Mahdi Shahrabi, Maryam Shafieezadeh, Elnaz A Anaraki, Mostafa Aref
- **Evaluation of Root Canal Filling in Primary Teeth by Volumetric Analysis: *In Vitro* Study**386-392
Prachi Sijeria, Rahul Bhartia, Nanjunda Swamy KV, Sadanand Kulkarni, Shilpy Singla
- **Evaluation of Biodentine Pulpotomies in Deciduous Molars with Physiological Root Resorption (Stage 3)**.....393-398
Hitaf N Nasseh, Balsam El Noueiri, Charles Pilipili, Fouad Ayoub

ORIGINAL ARTICLES

- **A Comparative Evaluation of the Sedative Effects of Nitrous Oxide-oxygen Inhalation and Oral Midazolam–Ketamine Combination in Children**399-405
Ilasrinivasan, Jyothsna V Setty, Shyamachalam, Priya Mendiretta
- **Assessment of Coronal Leakage with Two Intracanal Medicaments After Exposure To Human Saliva—An *In Vitro* Study**406-411
Selva Balaji, Krishna Kumar, Ramesh Venkatesan, Shantham Krishnamoorthy, Vidya Manoharan, Senthilkumar Marimuthu

- **Evaluation of the Efficacy of Play Therapy among Children Undergoing Dental Procedure through Drawings Assessed by Graphological Method: A Clinical Study**412-416
Shital DP Kiran, Aayushi Vithalani, Devdatt J Sharma, Megha C Patel, Rohan Bhatt, Mohit Srivastava
- **A Comparative Evaluation of the Effect of Sports and Fruit Drinks on the Surface Roughness of Nanofilled Composite and Light Cure GIC–An *In Vitro* Study**.....417-424
Hemalatha, Priya Nagar
- **Comparison and Evaluation of Attitude and Knowledge Towards the Management of Dental Injury in School Teachers Before and After Oral Health Education**.....425-429
Neha Nashine, Arpana Bansal, Parimala Tyagi, Manish Jain, Ankur Jain, Utkarsh Tiwari
- **Comparative Clinical Evaluation of Resin-based Pit and Fissure Sealant and Self-adhering Flowable Composite: An *In Vivo* Study**430-434
Saakshe Wadhwa, Ullal A Nayak, Damodhar Kappadi, Deepesh Prajapati, Reena Sharma, Apurva Pawar
- **Knowledge, Attitude, and Practice of Mothers towards Infant Oral Healthcare**435-439
Kanika S Dhull, Brahmananda Dutta, Indira M Devraj, PV Samir

REVIEW ARTICLES

- **Survival of Bonded Space Maintainers: A Systematic Review**440-445
Shantanu S Deshpande, Vikas D Bendgude, Vivian V Kokkali
- **Lesion Sterilization and Tissue Repair – Current Concepts and Practices**.....446-450
Shaniya Sain, Reshmi J, Anandaraj S, Sageena George, Jyoti S Issac, Sheen A John

CASE REPORT

- **Double Lip–An Atypical Facial Anomaly: Two Case Reports**.....451-455
Namita Kalra, Rishi Tyagi, Amit Khatri, Amita Poswal, Gaurav Panwar, Kopal Garg