

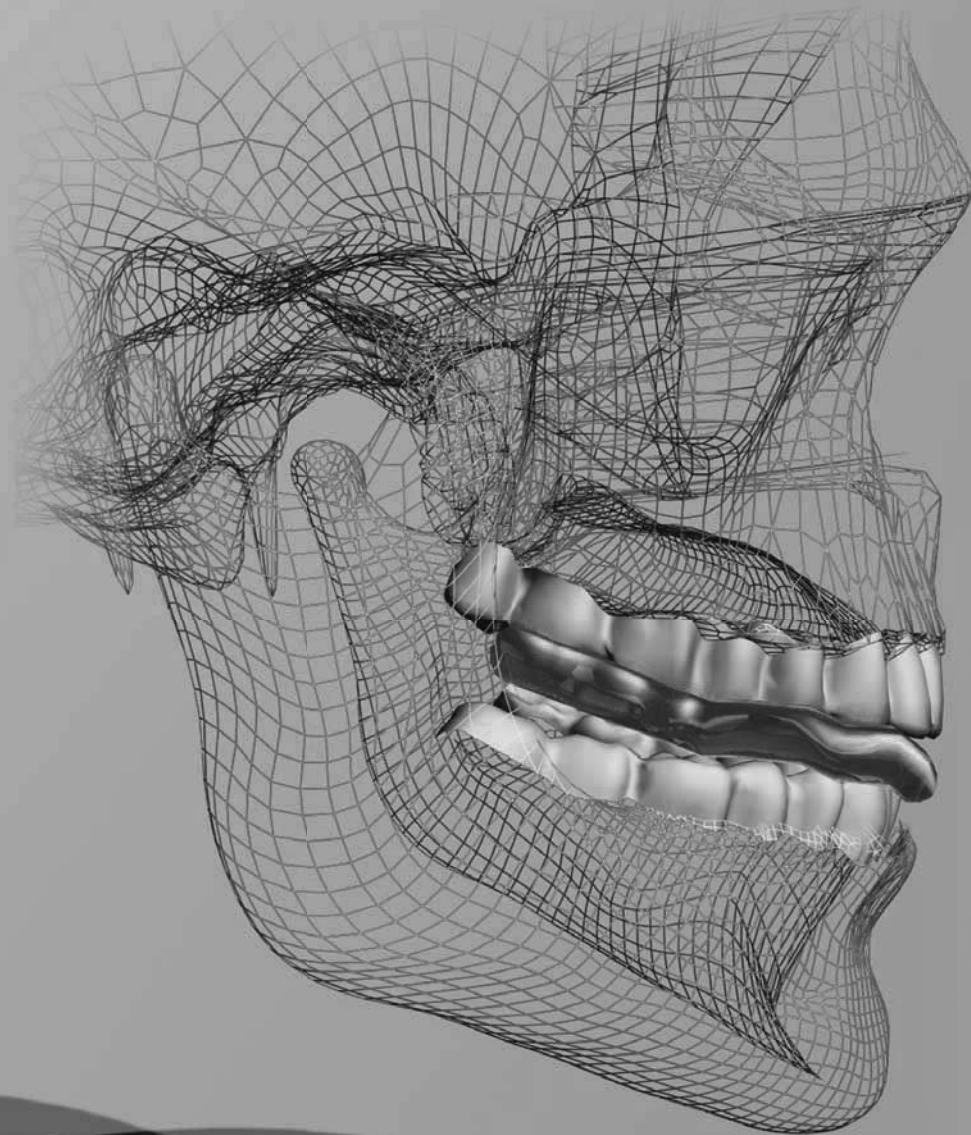
ISSN : 0974 - 9098

Volume 44, Number 4 October - December, 2010

Jios

The Journal of

Indian Orthodontic Society



The JIOS is the
Official Publication of the Indian
Orthodontic Society

ios[®]
www.iosweb.net

The Journal of Indian Orthodontic Society
 Official publication of Indian Orthodontic Society (Reg. No. 16920/68)
 Published quarterly : March, June, September, December

Editor

Dr. Lodd Mahendra

Associate Editor

Dr. P. Janardhanam

Consultant Editors

Dr. M.R. Balasubramaniam
 Dr. Ashima Valiathan
 Dr. K. Jyothindra Kumar
 Dr. M.K. Prakash
 Dr. K. Sadashiva Shetty
 Dr. N.R. Krishnaswamy

Assistant Editors

Dr. Ashwin M. George
 Dr. S. Venkateswarn
 Dr. G. Shivaprakash

Committee for reviews and abstracts

Dr. Chetan V. Jayade
 Dr. Santha Sundari
 Dr. Sridevi Padmanabhan
 Dr. A. Nandakumar
 Dr. P. Navaneetha Krishnan
 Dr. M.S. Rani

Journal Committee

Dr. R.B. Sable
 Dr. Sanjay Ganeshkar
 Dr. Jayesh Rahalkar
 Dr. Jayaram Mailankody
 Dr. K. Ketan Vakil
 Dr. Rabindra S. Nayak
 Dr. P. Ganesh
 Dr. Sarojini Joseph
 Dr. M.S. Ravi
 Dr. Sandhya Jain
 Dr. Divakar Karanth
 Dr. Nikhil S. Vashi
 Dr. Vinod Krishnan
 Dr. K. Ravi
 Dr. Krishnaraj
 Dr. Girish Karandikar
 Dr. Joseph Varghese
 Dr. Rittu Dugai
 Dr. K. Uma Shankar

Journal Consultative Board

Dr. V.P. Jayade
 Dr. S. Rangachari
 Dr. V. Surendra Shetty
 Dr. A.S. Kalha
 Dr. Akhter Hussain
 Dr. O.P. Kharbanda

INDIAN ORTHODONTIC SOCIETY®

Office Bearers (2009-10)

President

Dr. Girish Karandikar

Hon. Secretary

Dr. E.T. Roy

President - Elect

Dr. N. Kumar Ahuja

Immediate Past President

Dr. O. P. Kharbanda

Vice President

Dr. Gurkeerat Singh

Hon. Joint Secretary

Dr. G. Sivaprakash

Hon. Treasurer

Dr. Kishore M.S.V.

Ex-officio (Chairman IBO)

Dr. Mani K. Prakash

Executive Committee Members

| | |
|--------------------------|-------------------------|
| Dr. Amish Mehta | Dr. Nikhilesh R. Vaid |
| Dr. Anand K. Patil | Dr. Pradeep C. Shetty |
| Dr. Anil Singla | Dr. Pradeep Jain |
| Dr. Anup B. Kanase | Dr. Rajiv Ahluwalia |
| Dr. Ashish Gupta | Dr. Rani M.S. |
| Dr. Balvinder S. Thakkar | Dr. Ravi Bhutani |
| Dr. Chandra Sekhar G. | Dr. Rohan Mascarenhas |
| Dr. Joseph Varghese | Dr. Sridevi Padmanabhan |
| Dr. Keluskar M. | Dr. Vinay S. Dua |
| Dr. Kohli Virinder S. | |



www.iosweb.net

- ☞ The Journal of Indian Orthodontic Society (JIOS) Welcomes, contributions both from India and abroad. It's aim is to publish clinical, research and review articles of interest to Orthodontists in India and throughout the world. The Journal is published by the Indian Orthodontic Society.
- ☞ No part of this publication may be reproduced, stored in a retrieval system, or transmitted in any form or by any means, electronic, mechanical photocopying, recording or otherwise, without the prior permission of the Editor.
- ☞ Statements and opinions expressed in the articles and communications herein are those of the authors and not necessarily those of the Editor, Publisher or Association. The Editor, Publisher or Association do not endorse any product or service advertised in this publication, also they do not guarantee any claim made by the manufacturer of such product or service.
- ☞ Applications for advertising space / position should be addressed to the Editor JIOS.

INDIAN BOARD OF ORTHODONTICS



Founded in 1999 by
 The Indian Orthodontic Society

Board of Directors

Dr. M.K. Prakash
Chairman
 Dr. K. Sadashiva Shetty
Vice Chairman
 Dr. R.B. Sable
Secretary - Directors
 Dr. Vinod Verma
Director
 Dr. C.S. Ramachandra
Director

Editorial Office : 48, 4th Street, Padmanabha Nagar, Adyar
 Chennai - 600 020. E-mail : editorjios@gmail.com

CONTENTS

| | |
|--|-----|
| Editorial | 3 |
| A cephalometric evaluation of increase in lip dimensions during growth | 4 |
| Case Report : Combined orthodontic and surgical management of class III malocclusion with asymmetric mandibular prognathism | 15 |
| Managing Class II Malocclusions with Miniscrew implants — Case Reports | 20 |
| “Predicting lower lip and chin response to mandibular advancement with genioplasty — A cephalometric study” | 29 |
| The applicability of bolton’s tooth size ratios to the assamese population | 38 |
| Comparison of in-vitro bond strengths between orthodontic light cure composite resin and resin modified glass ionomer cement after fluoride application using custom made bond strength measuring device | 39 |
| Molar Tube Welding — A Novel Method | 45 |
| An innovative treatment strategy to counteract retroactive forces in bimaxillary dentoalveolar cases | 47 |
| An Intra Oral Screw for Space Closure — A case Report | 54 |
| Effective human pulpal blood flow changes during brief intrusive force application and continuous orthodontic force application using laser Doppler Flowmetry | 55 |
| Direct bonding of lingual retainers — A simplified approach | 62 |
| Dental and skeletal characteristics of individuals with normal, Class II and Class III occlusions — A cephalometric evaluation using tetragon analysis | 63 |
| Innovative approaches to increase arch length | 72 |
| Contemporary orthodontic diagnosis of symptomatic TMD | 82 |
| “The Dreaded Black Triangle”- Orthodontics: The Choice | 89 |
| Mix and Match!!! Combination of P.E.A. and BEGG Appliance in the Treatment of Class II Division 1 Malocclusion — A case report | 94 |
| Guidelines for Contributors | 100 |