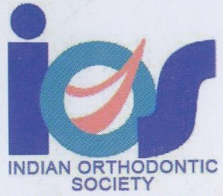


**'Clinical and Biological Research in
Orthodontics'**
April 21 to 23, 2018



Dear Colleagues,

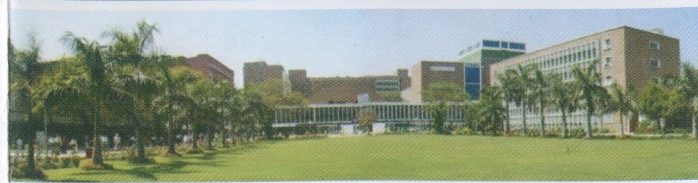
Centre for Dental Education and Research, All India Institute of Medical Sciences, New Delhi, in collaboration with Indian Orthodontic Society is holding the workshop "Clinical and Biological Research in Orthodontics" from April 21-23, 2018 for Orthodontists in India for training in research methodology in the field of Orthodontics and Craniofacial Deformities.

The workshop is specifically intended for Orthodontic professionals, researchers, academics, teachers and clinicians, willing to become actively involved in the clinical and basic sciences research. Despite the introduction of powerful research designs such as randomized clinical trials, these methods have not been widely adopted for Orthodontic clinical research. The case report (study containing fewer than 10 patients with no control nor comparison group) continues to be the most frequently published format. Clinicians should become aware of the inherent weakness in the research designs generally used and recognize the limited information that can be obtained from such methods. Support for high quality research needs to be greatly expanded if the more powerful type of study required to provide valid and reliable clinical information is to be continued.

The workshop will be a mixture of presentations, interactions, and hands-on-sessions. **Looking forward to welcome you in person.**

Dr. O.P. Kharbanda
Chairman Organizing Committee
Chief, CDER, AIIMS, New Delhi, India

For details contact
ORTHO.AIIMS2018@gmail.com



CDER CDE Series 14
For details contact
ORTHO.AIIMS2018@gmail.com



Centre for Dental
Education & Research,
AIIMS New Delhi



Prof. G. Chandra Sekhar
President, Indian Orthodontic Society
(2016-17)



Prof. O. P. Kharbanda
Organizing Chairman
CHIEF, Professor & Head,
Orthodontics



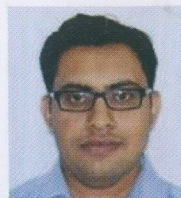
Prof. Shailesh Deshmukh
President Elect,
Indian Orthodontic Society
(2017-18)



Dr. Ritu Duggal
Professor, Orthodontics



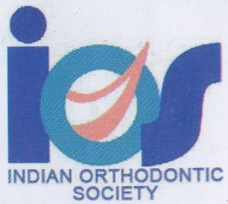
Prof. C. Deepak
Hon. Secretary,
Indian Orthodontic Society



Dr. Vilas Samrit
Asst. Prof, Orthodontics

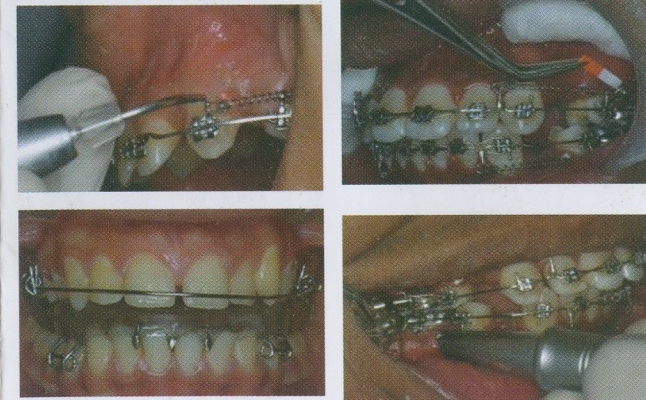


Dr. Prabhat Chaudhari
Asst. Prof, Orthodontics



Centre for Dental Education & Research,
All India Institute of Medical Sciences, New Delhi
&
Indian Orthodontic Society

**'Clinical and
Biological Research
in Orthodontics'**
April 21 to 23, 2018



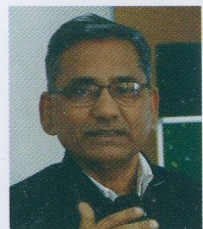
Course Faculty



Prof. O.P. Kharbanda
Chief, Professor and Head,
Orthodontics, Centre for Dental
Education and Research,
AIIMS, New Delhi,



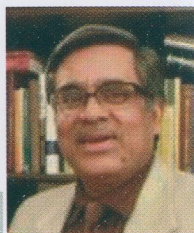
Prof. Kevin O'Brien
Professor, Orthodontics, Division of
Dentistry, Manchester University,
U.K.
Topic: Orthodontics specific study
design (via videoconferencing)



Prof. R.M. Pandey
Head of Department,
Biostatistics, AIIMS,
New Delhi,
Topic: Sample size
computation



Prof. Kameshwar Prasad
Director of Clinical
Epidemiology, AIIMS,
New Delhi
Topic: Clinical Trials,
Systematic Review &
Meta-analysis



Prof. Nalin Mehta
Professor, Physiology,
AIIMS, New Delhi
Topic: Ethics in Research



Prof. S.N. Dwivedi
Professor, Biostatistics, AIIMS,
New Delhi
Topic: Trial methodology



Prof. V. Sreenivas
Professor, Biostatistics, AIIMS,
New Delhi
Topic: Study performa, data
management



Dr. Sumit Malhotra
Assoc. Professor, Community
Medicine, AIIMS, New Delhi
Topic: Research question &
hypothesis



Prof. Ashok Jaryal
Professor, Physiology, AIIMS,
New Delhi
Topic: Literature search



Department of Orthodontics and Dentofacial Anomalies Centre for Dental Education & Research, All India Institute of Medical Sciences, New Delhi & Indian Orthodontic Society

'Clinical and Biological Research in Orthodontics'
April 21 to 23, 2018

21/04/2018 schedule
Venue: Board Room, CDER, AIIMS

8:30 am onwards	Registration
9:00 am – 9:30 am	Introduction of speakers & inaugural remarks
9:30 am – 10:00 am	TEA BREAK
10:00 am – 11:00 am	Formulating a research question and hypothesis (Dr. Sumit Malhotra & team)
11:00 am – 12:30 pm	Study designs and literature search from database (Prof. Ashok Jaryal)
12:30 pm – 1:00 pm	Clinical perspectives in Orthodontic Research (Prof. O.P. Kharbanda)
1:00 pm – 2:00 pm	LUNCH
2:00 pm – 5:00 pm	Clinical Trials (Prof. Kameshwar Prasad & Orthodontics Faculty)
5:00 pm – 5:30 pm	Participant Discussion

22/04/2018 schedule
Venue: Board Room, CDER, AIIMS

8:30 am – 9:00 am	Participant Discussion
9:00 am – 11:00 am	Sample size computation (Prof. R.M. Pandey)
11:00 am – 1:00 pm	Methodology Section: selection of participants, bias and confounding, association and causation, measures of association (Prof. S.N. Dwivedi)
1:00 pm – 2:00 pm	LUNCH
2:00 pm – 3:00 pm	Development of study performa (CRF), data management and descriptive statistics (Prof. V. Sreenivas)
3:00 pm – 3:30 pm	TEA BREAK
3:30 pm – 4:30 pm	Ethics In Research (Prof. Nalin Mehta)
4:30 pm – 5:30 pm	Participant Discussion

23/04/2018 schedule
Venue: Board Room, CDER, AIIMS

8:30am – 9:00 am	Participant Discussion
9:00 am – 11:00 am	Registration of clinical trial protocol on CTRI (Dr. Amit Kumar, Post-Doc, Neurology, AIIMS, New Delhi, India)
11:00 am – 1:00 pm	TEA BREAK
11:00 am – 1:00 pm	Systematic review and meta-analysis (Prof. Kameshwar Prasad)
1:00 pm – 2:00 pm	LUNCH
2:00 pm – 4:00 pm	Orthodontics specific study design (Prof. Kevin O'Brien – via videoconferencing)
4:00 pm – 4:30 pm	Participant Discussion
4:30 pm – 5:00 pm	Valediction and Distribution of certificates