

IDC 2016 Inaugurated



Roadmap Towards Smart Dentistry



Prof Dr Mahesh Verma
Organizing Chairman

Dear Friends,

It gives us immense pleasure to welcome you to the 69th Indian Dental Conference being held from 19th to 21st February 2016, in New Delhi. With the theme "Roadmap towards Smart Dentistry", the conference aims to spruce up discussions for the growth and development in the field of dentistry and the dental sector in India. The conference is an academic feast



Dr JR Sabharwal
Organizing Secretary

(Cont'd on pg. 2...)

A New Era for Restorative Dentistry: Tooth Preservation

Ever since GV Black developed his widely adopted principals for cavity preparation, which were developed after years of experimentation with restorative materials in the later part of the 19th century, evidence has emerged showing that caries can be controlled and treated using conservative or tooth preservation methods. GV Black, just before his death, recognized the need and urgency for investigating "enamel caries". The concepts developed over 100 years ago are no longer suitable for the 21st century. The International Caries



Dr Amid I Ismail
USA

(Cont'd on pg. 2...)

Management of Periapical Pathosis



Dr Chad P Gehani
New York

- Proper diagnosis is very important.
- No bacteria, no endodontic problems.
- It is NOT what you put in, it is what you take out?
- Proper irrigation with pulp tissue solvent and antibacterial.
- Endodontic periapical pathosis is manageable by conservative root canal therapy regardless of the size of pathosis.

Dental Caries: A Disease of Modern Civilization?

- Oral diseases are caused or influenced by the same preventable risk factors as over 151 noncommunicable diseases.
- Dental caries is one of the infectious diseases that has been observed in human remains retrieved from archaeological excavations. Untreated tooth decay accounts for the most common condition among 291 diseases study.
- Worldwide 60-90% of children are affected by tooth decay.



Prof SG Damle
Chandigarh

(Cont'd on pg. 2...)

Mutilated Dentition: What is the Best Approach in Resolving the Problem?



Dr Rekha Gehani
New York

- Proper diagnosis and treatment planning of the case is very essential.
- Know the limitations in planning of your patient's treatment. Please get informed consent from your patients before you start any treatment.
- Please incorporate other specialties as needed to achieve perfect result.

(Cont'd on pg. 2...)

Trends in the Clinical Practice of Dentistry

Dentistry is a rapidly changing field of hi-tech healthcare provision. The rate of introduction of new concepts, technologies and management strategies in the clinical practice of dentistry is set to continue to increase. Trends in this dynamic environment range from the development of the dental team and skill mix to increasing sophistication of models of care and operative techniques. Many of these trends are linked to changing needs and expectations, increasing longevity and older people retaining more teeth throughout life. The implications of the anticipated changes in the clinical practice of dentistry are many and typically far-reaching. Overall, trends in the clinical practice of dentistry are



Dr Naim Wilson
President, British Dental Association, UK

(Cont'd on pg. 2...)

Zika Virus Update

- RT-PCR test would remain the standard diagnostic test.
- As of now, there is no commercially available test for Zika virus disease.
- Serological tests are not indicated.
- NCDC (Delhi) and NIV (Pune) have the capacity to provide lab diagnosis of Zika virus.
- Ten more laboratories are being added to the loop.
- Kerala, Tamil Nadu and Pondicherry are the states where Dengue transmission is currently going on. In the month of January, 438 cases were recorded in Tamil Nadu and 226 in Kerala.
- Integrated Disease Surveillance Program (IDSP), through its



Prof Dr KK Aggarwal
Group Editor-in-Chief, IJCP Group, eMediNews and eMediNexus

(Cont'd on pg. 2...)

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TMD



Dr Curtis Westersund
Canada

- The days are past, where we can look at any part of the body to be separate from the rest of the body.
- Occlusion has profound effects on the structural, muscular, neural, and respiratory function of our patients.
- It is not the temporomandibular joint (TMJ) we treat. It is the cervical cranial mandibular complex that is affected by occlusion.

- My patients learn to never trust a healthcare provider that states he or she can provide all treatments required by themselves.
- Occlusion is a consequence of epigenetics: The factors of growth upon the genetic potential of the patient.
- The largest epigenetic component upon occlusion is the ability to breathe nasally. Mouth breathing creates short, narrow palates that alter the entire body's function through life.
- Occlusion is the most sensitive and fastest of the neural loops from teeth to the brainstem to the jaw and neck muscles.
- Humans can sense a change in occlusion down to 30-50 microns.
- Ultra low frequency transcutaneous electrical nerve stimulation is a therapy that can help restore physiologic muscle function to help create a physiologic occlusal pattern.

Bio-aerosol Contamination "Recognize, Prevent, Minimize"

- Cross infection during healthcare delivery has concerned healthcare professionals for centuries. Universal infection control procedures have hence gained prime importance while treating patients.
- In recent years, ultrasonics and high speed power driven hand pieces have become an integral part of the dentist's armamentarium.
- The dental operatory hence has become a rich source of contaminated bio-aerosol, which plays a vital role in cross infection.
- The Centers for Disease Control and Prevention (CDC) recommends addressing aerosol contamination to control cross infection.



Dr Praveen Kudva
Jaipur

Use of Alternate Diagnostic Markers in the Diagnosis of Oral Squamous Cell Carcinoma



Dr Gareema Prasad
Mumbai

- Five-year survival following diagnosis of oral malignancy - 15-50%.
- Increase in survival rates and decrease in morbidity associated with the treatment of oral cancer is expected, if lesions are detected at an early stage, or preferably if the potentially malignant lesion is discovered.

- Currently, the gold standard in diagnosis of malignant and potentially malignant oral mucosal lesions is incisional biopsy and histopathological assessment but there are problems associated with histology and there is a need for a more accurate system to predict progression of lesions to cancer.
- Although many clinical aids (toluidine blue, chemiluminescent light, VELscope) and biomarkers (DNA ploidy, chemokines, IHC markers and microRNAs) have been researched till date, no single or multiple markers have been identified that routinely identify progression of a lesion towards malignancy and can serve as an alternative to histology.



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...Zika Virus Update (Cont'd from pg. 1)

community and hospital-based data, has advised all State and District Level Units to look for clustering of cases of microcephaly amongst newborns and reporting of Guillain-Barre syndrome. 100 hospitals have been identified to screen for microcephaly.

- All cases of microcephaly among newborns in India will be notified.
- At present, India has quarantine facility in airports at Delhi, Mumbai, Kolkata, Tiruchy, Cochin and Chennai. Amritsar has Airport and Border quarantine facility.
- Though, the maximum risk of Zika virus is in the first trimester, it can also be transmitted through blood transmission 0-28 days, sexual contact, mother to the baby at the time of delivery or mother to healthcare worker through infected and amniotic fluid. Zika virus cannot be transmitted through breastfeeding.

...Mutilated Dentition: What is the Best Approach in Resolving the Problem? (Cont'd from pg. 1)

- Proper occlusion is the key to success.
 - Lastly, believe in yourself! You provide the best possible treatment and you deserve the best rewards as well!!!!
- Enjoy!!

...Dental Caries: A Disease of Modern Civilization? (Cont'd from pg. 1)

- Despite a low mortality rate associated with dental diseases, they have a considerable impact on self-esteem, eating ability, nutrition and over all well-being of an individual.
- Although rarely life-threatening, dental diseases are a major problem for health service providers in both developed and developing countries because of their high prevalence and high treatment costs.
- Therefore, a proper understanding of the pathological process and a coherent knowledge of the preventive measures is of utmost importance.
- Dental surgeons play a pivotal role in the early diagnosis and timely management of the carious process.

...A New Era for Restorative Dentistry: Tooth Preservation (Cont'd from pg. 1)

Classification and Management System (ICCMS) was developed to bring the best current science to promote an integrated model for caries management. ICCMS is built on the following key principals: (1) Staging of caries to allow for identification of needed nonsurgical or surgical restorative care; (2) risk assessment and management to prevent the development of new caries lesions; (3) treatment plans that identify the needs for prevention, control of initial lesions, surgical restorative care and recall for caries prevention and (4) assessment of outcomes of care to promote oral health.

Using this approach would most likely achieve the ICCMS' mission, which is to "preserve tooth structure and restore only when indicated".

Dental caries is a disease where social, general health and educational factors impact the micro-environment surrounding a tooth structure leading to loss of structure. Dental caries is a chronic and prevalent disease that has been managed, by large, through restorative care. The current understanding of caries is changing. The emergence of microbiome ecology as a determinant of caries will lead to new therapies including behavioral and natural therapies to shift the oral microbiome to become noncariogenic. We are at a new transformational point in caries management that will challenge and change the current paradigm.

...Trends in the Clinical Practice of Dentistry (Cont'd from pg. 1)

considered to be positive, with the prospect of oral healthcare provision being increasingly recognized to make an important contribution to general health and well-being - a change in attitude and thinking, which may transform considerations of oral healthcare economics.

If you have been encouraged, surprised or impressed by recent trends in dentistry, then be ready to be amazed by future trends and the ways in which they may transform clinical practice.

...Roadmap Towards Smart Dentistry (Cont'd from pg. 1)

with a galaxy of international and national faculty, sharing their knowledge, expertise and contribute to the development of future trends in dentistry. There is a huge exhibition with more than 150 booths and 300 exhibitors wherein participants have the chance to be updated to the latest Dental Technologies and Equipments. New Delhi, the capital city of India, has unlimited choices to explore, from prehistoric monuments to contemporary shopping malls; it is a great opportunity to see the grandeur and beauty of our capital city. The Venue - The Leela Ambience Convention Hotel (Formerly Kempinski Ambience Hotel) is the 'new' capital of luxury with a total meeting space of 70,000 sq.ft. We welcome the diverse dental community to New Delhi, which is brimming with attractions and flavors, fabulous eating places and bustling markets in the cool weather of February, for an unforgettable experience.

Learn Neuromuscular Dentistry



Dr Rajesh
Raveendranathan
Bangalore

- It's high time dentists learn that they are not just "Tooth-Doctors".
- Temporomandibular joint dysfunction (TMJD) is 90% myogenous.
- TMJD can only be correctly treated if the muscles of mastication are in isotonicity.
- Obstructive sleep apnea (OSA) will lead to cardiac problems.

- Not all snorers suffer from OSA.
- Mild OSA sufferers (AHI 5-20) also have bruxing/clenching.
- Sleep appliances, if constructed without muscle relaxation, will end up in facial pain.

Nonsurgical Endodontic Treatment of Teeth Associated with Large Periapical Lesion: A Case Series

To avoid the trauma of surgery to patient and to attain uneventful healing, nonsurgical endodontic treatment must be considered as the treatment of first choice in cases of large periapical lesions. The key to success is:

- Thorough debridement
- Disinfection
- Three-dimensional obturation.



Dr Sanjeev Kunhappan
Chhattisgarh

Integrated Endodontics: Ultrasonics in Endodontics



Dr Anish Naware
Mumbai

- Removal of the tooth structure is a routine procedure in endodontic treatment. One has to be conservative in their approach.
- Endodontic therapy includes removal of tooth structure to reach the apex. Different cutting instrument like air rotor or slow speed diamond cutting instruments are used during endotherapy.

- All of us would accept that we do a lot of tooth destruction while entering the pulp chamber and while locating the canal orifice.
- In case of calcification in the chamber, use of air rotor has chances of perforation at the furcal area or chances of thinning the floor of the chamber.
- Ultrasonic tips have emerged as an effective and conservative alternative to high-speed instruments.
- Ultrasonics are safe, conservative and less accident prone.

Posterior Maxilla: A Challenge in Implant Dentistry

- The posterior maxilla is always a challenge to the dentist due to the quality and quantity of bone available post-extraction.
- Pneumatization of the maxillary sinus also causes a challenge with the bone height available for implant placement thus warranting the sinus lift procedure, or subantral augmentation. The technique was developed in the mid-1970s.



Dr Ashish Kakar
New Delhi

- It is a well-accepted technique to treat the loss of vertical bone height in the posterior maxilla.
- A lateral window technique and an osteotome sinus floor elevation technique are two approaches to achieve this procedure by placing bone-graft material in the maxillary sinus to increase the height and width of the available bone.
- Experience in the rehabilitation of severely resorbed maxilla is growing.
- Various bone-grafting materials have been studied for use in maxillary sinus grafts to accelerate the bone healing process, like: autogenous bone, frozen bone, freeze-dried bone, xenogeneic bone demineralized freeze-dried bone, and b-TCP and hydroxyapatite.
- Also trans-crestal osteotome technique without any graft has also been employed and widely studied and is found to be successful.
- An ideal maxillary sinus bone-grafting material should provide biologic stability, ensure volume maintenance and allow the occurrence of new bone infiltration and bone remodeling.
- Over time, bone-grafting materials and implants should achieve osseointegration. After the restoration of the implant has been completed, there should be no bone loss and the materials should be stable; there should be a predictable success rate.

Accelerated Orthodontic Tooth Movement: A Frontier in Orthodontics



Dr Madhavi Naidu
Bangalore

The current methods such as piezocision, lasers and vibration have reduced or eliminated the invasive nature of previous procedures used to achieve the regional acceleratory phenomenon. Also, they come with additional advantages such as reduced rates of relapse, reduced orthodontic pain and reduced root resorption.

Intraoral Welding: A New Paradigm in Implant Dentistry

- The average age of population is increasing with enhanced expectation from the restorative dentists. With increased expectations, oral rehabilitation of edentulous jaw becomes a challenge, especially if we want to place a fixed dental prosthesis and that also in immediate function.
- Originally the implants were considered as a two phase modality where the implants were loaded after a period of 3-6 months of osseointegration.
- With our greater knowledge of implants, and the need by our patients for immediate function, immediately loaded implants have proved to provide the same success as delayed loaded implants.
- The greatest challenge in immediate loading is passive fitting of the prosthesis, long-term durability of the prosthesis, reconstruction and delivery of the prosthesis on the day or maximum within 2 days of surgery.
- All these challenges were met with welding all the implants intraorally and constructing the prosthesis with resin and delivering the prosthesis on the day of surgery. This helps us to develop a passive suprastructure and a titanium reinforced resin prosthesis, which has proved to be fairly durable and which can be easily repaired.
- Intraoral welding has opened new vistas to rehabilitate edentulous jaw and provide long-term durable prosthesis in a single day.



Dr GK Gupta
New Delhi

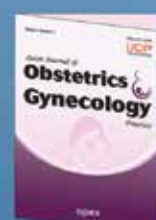


Dr Porus Turner
Germany

Implant Supported Full Mouth Rehabilitation

Tissue supported removable dentures, frequently due to resorption of bone, lead to loss of retention and function, thus severely affecting the quality-of-life. On the other hand, with only 4 implants in the upper and lower jaw, the ridges are preserved which and leads to superior esthetic, function and confidence in patients.

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Immediate Implant Placement and Loading: From Single Implant to the Edentulous Jaw



Dr Alexandros Manolakis
Greece

- Immediate implant placement offers more comfort for the patient due to a shorter overall treatment duration.
- Healing of sockets after extraction is unpredictable.
- Avoid immediate implant placement in the esthetic zone on a high smile line (gums visible).
- Immediate implant placement and loading (Fast and Fixed Concept) is backed by long-term literature.
- Primary stability of implant is crucial.
- Occlusal adjustments of immediate restorations are crucial.

Key Factors for Success in Dental Implantology and GBR: A Major Change in Paradigms, Scientific Standards and Clinical Application

- Bone regeneration in guided bone regeneration (GBR) follows exactly the same biological mechanisms as bone healing of every mammal bone.
- Without proper immobilization, no bone healing/regeneration/osseointegration can start.
- Immobilization of GBR sites is mandatory prerequisite for proper vascularization.
- Periosteum and endosteum are the sole carriers of bone healing, bone regeneration and osseointegration and have to be kept intact at any surgical procedure.
- Piezotome surgery preserves vital periosteum and endosteum by its explicit precision and bone-healing-stimulating ultrasonic pulses.
- Self-hardening biomaterials can replace autologous bone-blocks.
- aPRF increases vascularization of the GBR site significantly.
- Combined use of piezotome surgery, self-hardening biomaterials and aPRF lead to significant better GBR results, less patient morbidity and predictable long-term success-rates.
- Piezotome surgery leads to less post-surgical patient morbidity regarding pain and swelling.



Prof Dr Angelo Troedhan
Austria

Role of Oral Surgeon in Comprehensive Management of Oral Cancer



Dr Saidul Islam
Kolkata

Oral cancer is the sixth most common cancer worldwide, with a very high prevalence in India. Tobacco and alcohol consumption remain the most dominant etiologic factors; however, HPV has been recently implicated in oral cancer. Surgery is the most well-established mode of initial definitive treatment for a majority of oral cancers. The factors that affect choice of treatment are related to the tumor and the patient.

As our understanding of the biology and natural history of malignant tumors of oral and maxillofacial region increases, efforts at preservation or restoration of form and function become increasingly important in surgical treatment of malignant tumors of this region. Classic example is mandible sparing approaches for oral cancer, modification in neck dissection.

The understanding of the mechanism of tumor invasion of the mandible has enabled the development of mandible sparing approaches. These include: 1) Marginal mandibulectomy, 2) mandibulotomy for gaining access to large and posteriorly located tumors of the oral cavity.

The understanding of the biological progression of metastatic disease from primary site in the oral and maxillofacial region to cervical lymph nodes has allowed the development of several modification of the classical radical neck dissection to reduce morbidity and maintain therapeutic efficacy. Advances in skull base surgery have significantly improved the survivorship of patients with malignant tumors of the paranasal sinuses approaching or involving the skull base.

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Facial Pain: Unlocking the Secrets

- Orofacial pain is not an uncommon condition.
- The dental healthcare professional should be able to identify the symptoms correctly.
- It is vital to diagnose various types of facial pain, which may be a bit tricky.
- Institution of appropriate therapy based on history, symptoms and diagnostic tests is the key for successful management of facial pain.



Dr Ramakrishna Shenoai
Nagpur

Invisible Orthodontics



Prof Dr Sanjay Labh
Ghaziabad

- Absolutely invisible braces bonded on lingual surface of tooth.
- Bracket of every patient and for every tooth has to be customized.
- Indirect bonding is done.
- Adult of any age can be treated.

The Golden Era of Root Canal Instrumentation

As is said in the cleaning and shaping of root canals - if hand files do not, rotary files cannot!

The use of a variety of scouting files from stainless steel K-files, Profinders and Pathfiles ranging to the newest Progliders should be emphasized, in order to achieve a smooth transition to the anatomic apex.



Dr Vivek Hegde
Pune

Redefining Disinfection in Endodontics



Dr Mandar Pimprikar
Pune

- Understand the complex nature of root canal system.
- Making the irrigating solution available in inaccessible areas.
- Techniques to activate the irrigating solutions.
- Choosing the right disinfection protocol for optimum results.
- Introduction to newer irrigation devices.
- What is the right protocol of root canal disinfection?

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