



**67<sup>th</sup>**  
**MDA AGM / FDI WORLD DENTAL**  
**International Scientific Convention & Trade Exhibition**



Malaysian Dental Association



FDI World Dental Federation



**NEW TREND, NEW TECHNOLOGY, NEW IMPACT in DENTISTRY**

**Guest of Honour: YB Dato' Seri Liow Tiong Lai**  
**The Honorable Minister of Health Malaysia**

**Main Conference**

**20** CPD Points  
**31** SDC CPE Points

**IAP Symposium**

**6** CPD Points  
**8** SDC CPE Points

**Venue : Kuala Lumpur Convention Centre**  
**Date : 10 - 13 June 2010**

Main Organizer:



Malaysian Dental Association

Co-Organizer:



MINISTRY OF HEALTH MALAYSIA  
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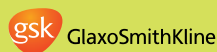


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**MESSAGE FROM YB DATO' SERI LIOW TIONG LAI  
THE HONORABLE MINISTER OF HEALTH MALAYSIA**



Salam 1 Malaysia.

It is my great pleasure to be invited again for the 67th MDA AGM & MDA/FDI International Scientific Convention & Trade Exhibition. I am pleased that the Malaysian Dental Association Council has taken up the challenge to go international for this Convention. The dynamism and commitment of the MDA President Dr Lee Soon Boon and President Elect cum Organizing Chairman Dr How Kim Chuan has convinced me that this would be one of the best Dental Conventions and Trade Exhibitions ever organized in Malaysia.

The Ministry of Health is pleased to be the Co-organizer of this international convention and would give our full support for the Malaysian Dental Association in their maiden venture to be a major player in international dental congress and trade exhibition. We are also pleased that other government agencies, namely the Malaysia Convention & Exhibition Bureau, Tourism Malaysia, and Kuala Lumpur City Hall are also in full support for this MDA vision.

It is our vision to develop Malaysia as a centre of excellence for medical and dental services in the Asia Pacific Region. I am confident that the innovative scientific and social programme of this Convention would offer you a good learning experience while enjoying the unique Malaysian culture and hospitality. For the local and overseas dental exhibitors, this would be a golden opportunity to display the latest dental technology and innovation.

I wish you every success. For the overseas delegates, welcome to Malaysia, we wish you an enjoyable stay and fruitful learning experience.

YB Dato' Seri Liow Tiong Lai  
The Honorable Minister Of Health Malaysia

**MESSAGE FROM THE PRESIDENT OF THE  
MALAYSIAN DENTAL ASSOCIATION**



Salam 1 Malaysia and 1 MDA and warmest greetings to all,

As the largest perennial dental congress and exposition organizer in Malaysia and among the biggest in this region of South East Asia, the Malaysian Dental Association feels it has an obligation to members and exhibitors to excel in hosting a conference that highlights the latest clinical technique, procedures and products that modern dentistry has to offer. This year, the 67th MDA AGM & MDA/FDI International Scientific Convention & Trade Exhibition scheduled to be on from 10th to 13th June 2010 promises to be the best and most exciting dental conference ever held in Malaysia.

The Malaysian Dental Association Council always ensures that new, innovative programs are created and developed each year to enhance the convention. To that effect, multiple new programs and corporate symposiums with 18 local as well as international renowned speakers have been planned meticulously by the dynamic Organizing Chairman, Dr How Kim Chuan and his able team to make this 67th MDA AGM & MDA/FDI Scientific Convention and Trade Exhibition truly the finest and the most comprehensive in every aspect.

We are truly honored and wish to thank the Honorable Minister of Health Malaysia, Yang Berhormat Dato' Seri Liow Tiong Lai for his esteemed consent for the Ministry of Health Malaysia to be the co-organizer of this 67th MDA AGM & MDA/FDI International Scientific Convention. This is a remarkable testimony of the trust and confidence Yang Berhormat has in the Malaysian Dental Association. In addition, I am also taking pride in informing our foreign dental colleagues, particularly the Singapore-based dental practitioners that this convention CPD credit points are recognized by the Singapore Dental Council and Singapore Ministry of Health.

Last but not least, I am confident the 67th MDA AGM & MDA/FDI International Scientific Convention and Trade Exhibition will leave you with fond memories, enhanced clinical knowledge and a fulfilling weekend holiday in Kuala Lumpur, Malaysia.

Do register early to enjoy discounted convention fee and I look forward to welcoming you to the best organized dentistry in Malaysia.

Best regards,

Dr Lee Soon Boon  
President  
Malaysian Dental Association

## MESSAGE FROM THE ORGANIZING CHAIRMAN



As we celebrate our 67th years of excellence in dental education and development of the Malaysian Dental Association, we would be coming together again to learn and share new ideas, acquire new skill, technique and technology in the world class Kuala Lumpur Convention Centre from 10-13 June 2010.

Throughout these years, the Malaysian Dental Association maintains its dedication to the highest standards in patient care, continuing dental and professional development. This remains the reason so many professionals have made the decision to ally themselves with this leading organization. The mission of the Organizing Committee is to advance science and arts of oral health and dental technologies by disseminating state-of-the-art clinical and scientific knowledge of dentistry.

Our theme this year is “New Trend, New Technology, New Impact in Dentistry”. We chose this theme because we have made many bold and decisive moves to make this Convention the best and finest organized so far. Firstly, we respond to the challenge of our Honorable Minister of Health YB Dato’ Seri Liow Tiong Lai to make our maiden venture into the international arena. We are truly grateful to our Honorable Minister of Health for his trust and confidence in us in bringing this International Convention to a new height. We are also excited that the Ministry of Health has consented to be our Co-Organizer and the Malaysia Convention & Trade Exhibition Bureau (MyCEB), Tourism Malaysia, Kuala Lumpur City Hall (DBKL) are also four square behind us in ensuring our success in this maiden international venture.

We are grateful that Singapore Dental Council fully recognizes our Continuing Professional Development Points (CPD) and the Federation Dentaire Internationale (FDI), the Chinese Stomatological Association (CSA) as well as other regional National Dental Associations have pledged to support our 67th MDA AGM & MDA/FDI International Scientific Convention & Trade Exhibition.

On the Scientific Programme, we are excited that there are 18 local as well as international renowned Speaker would be speaking at our Main Podium which has a capacity of 3000 seats. For the first time, there would also be special topics addressed by the Keynote Speakers on the Limited Attendance Lecture; Breakfast with the Speakers on the Clinical Round Table Discussion as well as learning new skills and techniques from the Speakers on the Clinical Hands-on Workshop. Another new innovation in our programme is the special symposium conducted by the Dental Corporate, for instance, Colgate Symposium, 3i Symposium etc.

This Convention would also continue with the tradition of promoting professional excellence and fellowship. To this end, there are many other programmes organized concurrently. The Oral and Poster Competition, Dental Student Congress, Informal Night Dinner, Grand Opening Ceremony, cumulating to the Grand Finale - The 1 Malaysia MDA Gala Banquet.

We are also going to stage a huge Trade Exhibition of international standards. We are confident to attract many local and international dental as well as non-dental traders to exhibit in our International Convention.

The Organizing Committee has pledged to deliver the best and the finest Convention for our local and international delegates. We aspire to break the records in all aspects in this coming Convention. We sincerely welcome you to this Convention and be part of the legacy of our history making venture.

Yours humbly,  
 Dr How Kim Chuan  
 President Elect & Organizing Chairman of the 67th MDA AGM & MDA/FDI International Scientific Convention & Trade Exhibition

## MESSAGE FROM FDI - WORLD DENTAL FEDERATION



The FDI World Dental Federation (FDI) is honored to be a partner of the Malaysian Dental Association (MDA) in organizing the Scientific Program for the 67th MDA AGM & MDA / FDI International Scientific Convention & Trade Exhibition in Kuala Lumpur Convention Centre this year.

We are living in an era of not only knowledge explosion but also technology explosion. Those who actively practice Dentistry know that we find new discoveries in the areas of dental material, equipment as well as clinical technique everyday. This is the result of a concerted effort from research among the academic and dental industry. As new discoveries become available, clinicians find out through a process of knowledge transfer.

Knowledge transfer is conventionally achieved through journals and magazines. Today, although we can have the convenience of sitting in our office or home and searching for information through the internet, we also can obtain new knowledge by attending study groups, scientific courses, meetings and conventions like this one. Therefore there should be no excuses for anyone of not having the opportunities to pursue new knowledge. In fact, every dental practitioner should be committed to continuing professional development as a commitment to his/her patients.

As I collaborate with the leaders of the MDA over the years, I come to notice their strong commitment in providing continuing education opportunities for its members. The FDI is proud to support the MDA's effort in its 67th MDA AGM & MDA / FDI International Scientific Convention & Trade Exhibition this year by recommending and sponsoring a number of distinguished speakers from different parts of the world. I wish to congratulate the Organizing Chairman – Dr How Kim Chuan for achieving yet another milestone for the MDA. Dr How has immense energy and vision; he is a very talented leader who would bring the MDA to a greater height in the national as well as international arena. I also wish to thank the generous support of the dental industry for their kind support. Last but not the least; this Convention cannot be successful without your participation. I am confident that you will acquire a great deal of new knowledge from your attendance and be able to bring it back to your practice.

William Cheung, D.M.D., F.A.G.D., F.A.D.I.  
 CE Programme Manager for Asia Pacific  
 FDI World Dental Federation

**Orthodontics**



**Dr Peter Miles (Australia)**

Dr. Miles is in private practice in Caloundra, Australia, and a senior lecturer in orthodontics at the University of Queensland. He is a reviewer for several international orthodontic journals and has conducted and published over 30 articles and book chapters on several topics including self-ligating brackets, indirect bonding, retention, and treatment efficiency.

**Topic: Self-ligating brackets – Unravelling the Da Vinci Code**

This lecture will examine the evidence regarding self-ligating brackets and other aspects of treatment efficiency that can be applied to achieve evidence based orthodontic treatment.

**Learning objectives**

- Evaluate the current evidence regarding self-ligating brackets
- Incorporate this knowledge with other evidence to allow us to improve treatment efficiency



**Dr Chris Chang (Taiwan)**

Dr. Chris Chang received his PhD degree in bone physiology and Certificate in Orthodontics from Indiana University in 1996. Dr. Chang is a well-respected private practitioner in Taiwan. In addition, He is a professional instructor and lectures on a wide range of topics, including the Damon system, OrthoBoneScrews, excellent finishing, clinic management and effective presentations. As a publisher of News & Trends in Orthodontics, he has been actively involved in the design and application of orthodontic bone screws. His most recent focus of practice is to apply orthodontic bone screws to the treatment of the impacted cuspids.

**Topic: Tough Orthodontic Cases Made Easy with Damon & OrthoBoneScrew**

The management of skeletal discrepancy has changed dramatically over the past decade. The combined application of the Daman system and orthodontic bone screws has turned those tough cases into easy ones. This lecture will discuss the treatment sequences & mechanic designs in detail. Six complicated cases will be presented as further proofs.

**Learning Objectives:**

1. Understand the basics of how to apply orthodontic bone screws in your treatment.
2. Adopt skills to increase efficiency in utilizing the Damon system.
3. Master keys to excellent finishing.

**Oral Maxillofacial Surgery**



**Professor St John Crean (United Kingdom)**

- Director of Dental Research and Knowledge Transfer from October 2009
- Acting Head of the Institute of Post Graduate Dental Education in Jan 2010 at University of Central Lancashire (UCLan).
- He previously held the post of Associate Director of Undergraduate Dental Studies and Year 3 Lead at Peninsula Dental School for 2 years.
- Has held posts of Senior Lecturer in Oral and Maxillofacial Surgery at University of Cardiff School of Dentistry before being appointed as Professor of Oral and Maxillofacial Surgery at Queen Marys, Barts and the London School of Medicine and Dentistry in 2003.
- In 2005 he was appointed as Consultant in Oral Maxillofacial Surgery to North Glamorgan NHS Trust with NHS duties at Royal Glamorgan and Prince Charles Hospitals whilst holding an Honorary Professorship at University of Cardiff School of Dentistry.
- Currently the Robert Bradlaw advisor in the Faculty of Dental Surgery at the Royal College of Surgeons of England.
- Associate Clinical Professor for the MSc in Dental Implantology at the University of Warwick and is current President of the British Society of Oral Implantology.
- Holds numerous examinerships at home and abroad advising on the establishment of many dental undergraduate courses.

**Topic: Medical Emergencies In Dental Practice**

Dental Practice in the 21st century continues to challenge care providers with the same array of treatment dilemmas such as caries, periodontal disease, exodontias and reconstruction/replacement. Techniques have become more evidence based and approaches have, despite financial restraints and changes, remained contemporary. The profile of patients has also changed. Individuals are living longer, again not really because of changes in lifestyle but in medicines' ability to treat symptoms with surgery and medication. Thus the Dental Care professional is challenged to keep abreast of their patients' medical status and thus must possess an ability to recognise deterioration in their condition and where appropriate provide initial response care which will increase the chances of survival

**Topic: Role of bacteria in oral cancer development**

The majority of cases of oral cancer have been related to tobacco use and heavy alcohol consumption. However, the incidence of oral cavity carcinoma appears to be increasing in many parts of the world in a manner that it is difficult to explain with traditional risk factors alone. Meanwhile, interest in the possible relationships between microorganisms and the different stages of cancer development has been rising and numerous mechanisms by which bacteria and yeast may initiate or promote carcinogenesis are currently under investigation. In particular, a persuasive body of evidence suggests a possible etiological role involving the metabolism and production of carcinogenic products, such as acetaldehyde. Other suggested mechanisms include the induction of chronic inflammation and direct interference with eukaryotic cell cycle and signaling pathways. This session aims to summarize the known associations between microbial infection and cancer and draw attention to how they may relate to oral carcinoma.

**Implantology**



**Dr Nadine Brodala (Germany)**

Dr. Nadine Brodala is an Assistant Professor in the Department of Periodontology at UNC. She received her DDS degree from the Philipps Universität Marburg, Germany. In 2002, she graduated from UNC with a Certificate and MS in Periodontology. Dr. Brodala received the coveted Orban Prize granted by the American Academy of Periodontology for her research thesis. She received the degree of Doctor Medicinae Dentariae (Dr med dent) for her dissertation from the Philipps-Universität Marburg. Dr. Brodala became a Diplomate of the American Academy of Periodontology in 2004. She has maintained a clinical practice through the Dental Faculty Practice since 2003.

**Topic: Dental Implantology and Piezosurgery: Benefits of a minimally invasive technology as an adjunctive in Implant Dentistry**

Dental Implantology encounters new techniques and technologies. Piezoelectric Surgery presents one of them and offers an array of adjunctive procedures, which benefit the surgical site and our patients. Thus, the clinician will find this technology to be a valuable addition for the comprehensive treatment of the implant patient.



**Dr Marcus Dagnelid (Sweden)**

In 2003 he obtained his degree at the Faculty of Odontology, University of Gothenburg, Sweden. The same year he started working as a dentist and partowner in Team Dagnelid Implant and Dental Health Care Center, TDIC and Team Dagnelid Competence Center, TDCC. TDIC is one of the leading clinics in Scandinavia regarding implant therapy. The clinic, with specialists in both prosthodontics and periodontics, has been part of the ongoing research in implantology together with Nobel Biocare for many years.

The team including Professor Ingvar Ericsson, and prosthodontists Christer Dagnelid and Pelle Pettersson, are responsible for the clinical development of the NobelGuide™ concept. Marcus Dagnelid joined the NobelGuide™ concept at the launch in June 2005. Today he is a Procera® Software specialist, responsible for the education in computer based surgery during all NobelGuide™ courses at Nobel Biocare Training Center in Gothenburg.

**Topic: Guided Surgery in Implantology - Biology with Technology Creates New Dimensions**

During this session the concept of guided surgery will be discussed from initial examination and case selection, to finished prosthetic reconstruction. During the last ten years the art of computer-guided implantology has changed the way we approach an implant treatment.

Today diagnostic information is extended to new dimensions as we approach both simple and complex procedures with the use of CT scans and 3-D imaging. By combing the prosthetic- and surgical viewpoints, a safer and more reliable treatment result can be achieved.

The registrant will get an insight into the planning software's such as SimPlant from Materialise and guided surgery systems for example Navigator from Biomet3i. Different clinical scenarios will be dealt with during the session and different loading protocols will be discussed regarding research and techniques.

**Cone Beam Computed Tomography (CBCT) in Dentistry**



**Dr Martin D. Levin (USA)**

Dr. Levin earned his degree in dental medicine from the University of Pennsylvania in 1972 and received a Certificate in Endodontics in 1974. He is in private practice in Chevy Chase, Maryland and is a Diplomate of the American Board of Endodontics, a member of the College of Diplomates and Omicron Kappa Upsilon Honor Society. Dr. Levin is listed as a Distinguished Practitioner in the National Academies of Practice in Dentistry. At the University of Pennsylvania, Dr. Levin is Chair of the Board of Overseers. He received Penn Dental Medicine's Alumni Award of Merit in 2000.

Dr. Levin serves as an Adjunct Assistant Professor, Postgraduate Endodontics, Nova Southeastern University. In addition to numerous peer-reviewed articles, he is a contributor to the 8th and 9th editions of "Pathways of the Pulp" and the 6th edition of "Endodontics."

**Topic: Digital Technologies in Dental Practice**

Dental offices rely on words, numbers, and images to communicate with patients, assess patient status, evaluate treatment options, provide treatment and determine outcomes. Many dental offices already use computer-based programs to manage patient demographic and financial information; the electronic oral health record (EOHR) is the next logical step in the journey to the paperless office. Although EOHRs are now widely available, integration of this information with an electronic health record (EHR) to create a unified, scalable, searchable, and secure patient database documenting the current health status and lifetime medical history of each patient is now achievable. Additionally, 2- and 3-dimensional digital radiography, digital impressions and other patient assessment modalities are becoming commonplace. In a broader sense, the real challenge is to understand dental informatics and the ways the collective efforts of the profession can be applied to improve patients' health care.

The goals of this lecture are to

- (1) to improve the dental care delivery organization's understanding of dental informatics and
- (2) to devise a strategic plan to help design office systems that use the latest computer, digital radiographic, photographic, charting, restorative and management tools to improve treatment outcomes.

Once this strategic guide has been implemented, continual upgrading based on best-recommended practices is important to ensure continued success.



**Endodontics**



**Professor Syngcuk Kim (USA)**

- Louis I. Grossman Professor and chairman of the Department of Endodontics at the School of Dental Medicine, University of Pennsylvania.
- Earned his dental degree and certificate in Endodontics from the School of Dental and Oral Surgery at Columbia University in New York.
- Received his Ph.D. degree in circulatory physiology from the Department of Physiology at the Medical School, Columbia University.
- In 2002 he received an Honorary Medical Doctor degree from the University of Graz, Austria.
- Well known and respected for his research in dental pulp physiology and microcirculation..
- The AAE has awarded him the Louis I. Grossman Award for outstanding research and the Ralph F. Sommer Award as principal author of "publications of significance in the science and art of endodontics."
- He is also the 1991 recipient of the Endodontic and Pulp Biology Research Awards from the IADR.
- An editorial board member of the International Journal and the Journal of Endodontics, as well as the Journal of Oral Surgery, Oral Medicine, Oral Biology.
- He served as Guest Editor in the Dental Clinics of North America series, published in July 1997 and 2004
- Co-author of Endodontology, a Color Atlas of Dental Medicine, Thieme Co., Germany 2000. In addition, he is the primary author of the "Color Atlas of Microsurgery in Endodontics" published in 2000 by the Saunders Co.

**Topic: Modern Technology and New Trend in Endodontics and Their Impact on Clinical Dentistry**

Modern endodontic therapy uses both surgical and nonsurgical approaches. In the past, the surgical aspect, aka apicoectomy, was mainly practiced by oral surgeons, many of whom marginalized this treatment method. With the advent of microsurgical methods, using microscopes, ultrasonic tools and new filling materials, the modern surgical approach results in a 90% of success rate in teeth with pure periapical lesions.. Together with the more advanced nonsurgical approach, clinical endodontics results in extremely high treatment success and retention. This session illustrates the most modern approaches in clinical endodontics taught at the University of Pennsylvania.

The last part of the course will be reserved for an honest debate about implants and endodontics and a comparison of treatment success or the respective survival rates of each of these two treatment approaches. An important clinical dilemma results when the tooth has to be extracted and an implant is placed. Implants are the 21st century wonders of dentistry, and the carefully considered use of this system together with modern endodontic treatment approaches are our clinical goal.

**Course Objectives;**

At the conclusion of the course participants must

1. understand the differences between the 'Traditional' and 'Modern' endodontic surgery in terms of materials, instruments, concepts and outcome.
2. be familiar with the true indications for nonsurgical and/or surgical approaches in failed endodontics cases
3. be familiar with evidence based outcome assessment comparing the implants and endodontic treatment



**Professor Dr Benjamín Briseño Marroquín (Germany)**

- Achieved degree in dental surgery from the National Autonomous University of Mexico (Universidad Nacional Autónoma de México) in 1974
- Attended an endodontic tutorial conducted by Dr. Franklin Pineda for 2 years (1975-1976), after which he dedicated himself exclusively to Endodontics for 8 years in México D. F.
- Academic counselor at the Ludwig Maximilian University - Faculty of Dentistry – in Munich, Germany, where he also achieved the doctoral degree in endodontics (Dr. med. dent.) in 1985.
- Since 1993, he has been an academic director and assistant director of the Surgery Department
- Conducted the endodontic program at the Johannes Gutenberg University of Mainz, Germany
- Achieved the degree of Dr. med. dent. habil. from the same university in 1995
- In 1997 he obtained the highest possible academic degree in Germany ("Universitätsprofessor"). In the same year, he obtained the degree of Master of Dentistry (Maestro en Odontología) from the National Autonomous University of Mexico
- Published 3 books and more than 90 scientific articles
- Held more than 100 scientific conferences and endodontic courses all over the world

**Topic: Successful and systematic preparation and bio mechanical obturation of the root canal system. Current concepts based on practical and scientific evidence**

The presentation raises the problems related to the morphology of the physiological foramen by means of a study made on more than 1900 teeth. The form and the diameter of the physiological foramen have both clinical implications during the determination of the working length, of the root canal viability and its dimensions in order to establish the final preparation diameter without committing iatrogenic mistakes, inherent to the problems presented before. One of the possible mistakes is straightening the curved canals while attempting to prepare the physiological foramen to the adequate diameter. Therefore, it is necessary to implement rotary instruments systems, such as Mtwo, by means of which this is possible without making mistakes that would otherwise compromise the success of the endodontic treatment.

Taking into consideration the results obtained in the previously mentioned study, it is difficult to create a clinical recommendation for finishing the preparation of the physiological foramen. Nevertheless, in spite of the inherent morphological problems, which apparently cannot be solved for now, it is necessary to take into account that, according to the existent evidence, the endodontic successful cases have presently increased from 85% to 95%.

In the endodontic literature, it hasn't been demonstrated yet that the thermoplastic methods are more efficient than the classical obturation of the root canal system by lateral condensation. However, there is a tendency to consider that the first are easier to use once the technique is mastered, that the lateral canals are more frequently obturated and that the adaptation of the obturation materials into the curvatures, typical of the morphology of the root canals, is better. One of the most widely used thermoplastic obturation method is the vertical condensation, introduced by Schilder in the 70s and modified by various authors. This basic method and its variations will also be discussed as well as the problems inherent to the heat transfer with gutta-percha. There is a general belief that the heat can be applied at a distance of 3 to 5 mm from the point where the gutta-percha suffers reversible thermoplastic changes. It is also believed that the temperature applied by means of various devices present on the market is appropriate. These points, essential for this obturation method, will be discussed also relying on various researches made within our academic institution.



**Preventive Dentistry**



**Professor Stephen H. Y. Wei (Hong Kong)**

- Professor Emeritus and Former Dean, Faculty of Dentistry, University of Hong Kong
- 1967-1983 Professor and Chairman of the Department of Paedodontics, University of Iowa
- 1978-1982 Editor Emeritus and Founding Editor-in-Chief of Paediatric Dentistry, The Journal of the American Academy of Paediatric Dentistry
- 1983-1984 Professor and Chair of Paediatric Dentistry Vice-chairman of the Department of Growth and Development, University of California, San Francisco
- 1984-1998 Chair Professor and Head of the Department of Children's Dentistry and Orthodontics, University of Hong Kong
- 1989-1997 Director of the Prince Philip Dental Hospital
- 1993-1994 President of the International Association for Dental Research
- 1993-1994 President of the South East Asian Association of Dental Educators
- Founding President of the College of Dental Surgeons of the Hong Kong Academy of Medicine
- President of the Hong Kong Society of Paediatric Dentistry
- Editor-in-Chief of the Hong Kong Dental journal of the HKDA
- Maintains part-time private practice in Central, Hong Kong

**Topic: Managing Patients with Dental Erosion in Clinical Practice: The Ideal Solution**

Tooth wear encompasses erosion, abrasion, attrition, and abfraction. Erosion or acidic risk factors can be found in many patients with tooth wear and the chemical softening of surface enamel caused by acid erosion. Patients with acid erosion frequently complain of dentine hypersensitivity.

Dentin hypersensitivity is a very prevalent condition among patients due to the exposure of root dentin and gingival recession resulting from abrasion or periodontal disease. Patients often complain of very sharp pain which may be short, intermittent, transient, in response to thermal, tactile, osmotic or chemical stimuli. According to Brannstrom's hydrodynamic theory, the pain is a result of the triggering of pressure changes in the dentin fluid. Current methods of treatment include two major classes of products; those that occlude the dentinal tubules and those that interfere with transmission of nerve impulses. For example, fluoride varnish that contain 22,500 ppm F, and prescription level fluoride toothpaste and gel that contain 5000 ppm F, have an occluding effect and can provide some transient sensitivity relief. To interrupt neural response to pain stimuli, potassium based dentifrices have also been recommended. The treatment of last resort is to cover the exposed root dentin with dental restorations.

Recently, a novel occlusion technology has been developed that has been shown to provide more effective, faster acting and lasting treatment relief. This technology is called Pro-Argin and is based upon a patented formula containing 8% arginine ( a protective component of saliva) and calcium carbonate. Several randomized, double blind, clinical trials have shown evidence that support the conclusion that the in- office desensitizing paste containing Pro-Argin provides an immediate and lasting relief of dentin hypersensitivity. These positive clinical trials have been validated by extensive laboratory studies using the latest technical research tools showing convincing evidence that the Pro-Argin treatment results in physical plugging and seal of the exposed dentinal tubules.

In order to extend this positive benefit from this new technology to the masses, it would be best that the sensitivity relief can be achieved using a toothpaste. Therefore, additional studies have been extended to include clinical trials which showed that the new toothpaste formulation containing 8% Arginine, calcium carbonate and 1450 ppm fluoride as sodium monofluorophosphate offered a significantly increased efficacy in reducing sensitivity compared to a positive control toothpaste which was a market leading toothpaste containing 2% potassium salt. The same mechanisms appear to be present with the new dentifrice formulation in reducing of sensitivity as the dentinal tubules were shown to be sealed

by plugs which are resistant to acid challenge and thereby effectively reducing the fluid movement within dentinal tubules

This presentation will show clearly the significant positive evidence that were achieved in these double blind clinical trials by using the new dentifrice formulation.



**Periodontics**



**Professor Mark Bartold (Australia)**

He received his Bachelor of Dental Surgery from the University of Adelaide in 1979. In 1980 he received his Bachelor of Science in Dentistry with First Class Honours and in 1983 graduated Doctor of Philosophy. He qualified for Fellowship of the Royal Australasian College of Dental Surgeons in the Special Stream of Periodontics in 1991. In 1996 he qualified for the degree of Doctor of Dental Science on the basis of a collection of published research papers. He is a Fellow of the Academy of Dentistry International and the International College of Dentists.

**Topic: Periodontal Disease and Systemic Diseases**

In recent years there has been considerable interest in the interrelationship between periodontal health and systemic health. In particular suggestions have been made that periodontal health and diseases are intimately associated with diabetes, cardiovascular disease, pulmonary disease, preterm low birth weight babies and rheumatoid arthritis. This lecture will explore the evidence available to allow us to make a valued judgment on these relationships and how they might impact on our practice.

**Learning Objectives:**

From this presentation participants will understand:

- that periodontal inflammation impacts significantly on systemic health
- the effects of periodontal inflammation on general health
- that reduction of periodontal inflammation can impact on many systemic diseases



**Aesthetic Dentistry**



**Dr Marc Bachmann (Switzerland)**

**Education**

1989-1994	University of Zürich
1994	DMD
1994-1995	Doctoral theses at the University of Zürich with Prof. Peter Schärer about adhesive technologies
1995-2002	private practice emphasizing periodontics and reconstructive dentistry (Dr. Peter Burkhardt)
since 2003	private practice in association with Dr. Peter Burkhardt in Landquart/Switzerland
since 1995	continued education emphasizing endodontology, periodontics and adhesive dentistry

**Topic: Composite Artistry: a closer look**

There are many techniques to restore direct veneers. There are multi-layers, artistic techniques that offer beautiful outcomes but take more chair time, more investment in materials and probably are harder to understand. The outcomes may be more beautiful, but they are limited only to "high end" practices. The hands-on course is designed to provide participants with a more simplified layering technique that uses simple materials but achieves substantially good esthetic results. The result is fast, simple, economic and beautiful smile.

**Practice Management**



**Dr William Cheung (Hong Kong)**

Dr. Cheung maintains a multi-specialty dental practice in the Central business district of Hong Kong since 1982

**Education**

- Doctor of Dental Medicine (D.M.D.) Univ. of Pennsylvania, U.S.A., 1981
- Master of Science (M.S.) Cornell University, U.S.A., 1978
- Bachelor of Science (B.S.) Wilkes University, U.S.A., 1976

**Honors**

- Honorary Associate Professor, University of Hong Kong Faculty of Dentistry
- Honorary Lecturer, University of Pennsylvania School of Dental Medicine
- Fellow, Academy of General Dentistry (F.A.G.D.)
- Fellow, Academy of Dentistry International (F.A.D.I.)
- International Who's Who of Professionals, 2001

**Professional Services**

- FDI World Dental Federation Continuing Education Programme Manager for Asia Pacific (2006–present)
- Founding Chairman, Patient Complaints Mediation Committee, Hong Kong Dental Association (2002-2008)
- Member, Professional Education Committee, Hong Kong Dental Association
- Member, American Dental Association
- Over 10 publications in various professional journals
- Numerous lectures given worldwide including the FDI World Dental Congress in 2006 & 2010, Asia-Pacific Dental Congress in 2006 & 2009
- International Editorial Board, Journal of the American Dental Association (JADA)
- Associate Editor, Hong Kong Dental journal (HKDJ)
- Editorial Advisor Board: Dental Journal (Indonesia), Dental Asia and Dental Practice News

**Other Services**

- Member, Board of Trustees, University of Pennsylvania, U.S.A.
- Chairman, Board of Overseers, University of Pennsylvania School of Dental Medicine, U.S.A.
- Member, Alumni Board, University of Pennsylvania, U.S.A.
- Member, Working Group on English Alliance, Standing Committee on Language Education & Research (SCOLAR), the Government of Hong Kong SAR, Hong Kong, 2008-2009
- Member, Hong Kong Society of Experts

**Topic: Teamwork on Oral Health Prevention**

Dr. Cheung will discuss how to incorporate a prevention philosophy within a dental practice. Since prevention of oral disease is a team effort, various members of the team and their role in prevention will be discussed. He will also discuss how a preventive-oriented practice will benefit both the patient and the practice to increase patient referral and profitability.

**Restorative Dentistry**



**Professor Shanker Iyer (USA)**

**Education**

- 1999 - 2002: Certificate in Graduate Prosthodontics Advanced Education in Prosthodontics and Occlusion New York University College of Dentistry, NY
- 1992 - 1994: Doctor of Dental Surgery New York University, New York
- 1988 - 1990: Master of Dental Surgery (Prosthetic Dentistry) Bombay, India
- 1983 - 1987: Bachelor of Dental Surgery Annamalai University, India

**Current Positions:**

- General Chairman, World Congress of Oral Implantology 8, New Delhi
- Program Chairman: 61st Annual Meeting of the American Academy of Implant Dentistry
- Course Director: Implant Mini-Residency, New Jersey
- Editor-in-Chief: International Journal of Clinical Implant Dentistry
- Trustee: American Academy of Implant Dentistry
- President: Smile USAR, Center for Reconstructive Dentistry, New Jersey
- President: Jersey Smiles, New Jersey
- Course Director: AAID – Implant MaxicourseR, Asia ( Abu Dhabi, New Delhi, Malaysia)
- Editorial Board – Journal of Oral Implantology
- Course Director: Removable Partial Denture, Lit Review, AEPP, NYUCD
- Surgical Faculty: Advanced Education in Prosthodontics, NYUCD
- Asst. professor: Implant Fellowship program, UMDNJ, New Jersey
- Hon. Professor and Visiting Faculty: Maulana Azad Institute of Dental Sciences, New Delhi, India

**Topic: Occlusal Principles in Restorative Dentistry**

Occlusion has always been restorative dentist's nemesis. Whether it is quadrant dentistry or full mouth rehabilitation, one is faced with the problem of performing confirmative dentistry or incorporating fancy occlusal concepts learned over a two day course with adjustable articulators. How does one decide what is right for the patient? What diagnostic techniques are to be utilized to treatment plan cases? How do we know which occlusal schemes are to be utilized? Can one ideal technique work for all patients? Should we restore all our patients to Dawson's principle of Centric Relation? Are we opening or restoring a patient's occlusion. How should we communicate with the laboratory to achieve the results we desire? What materials are suitable for restoring patients occlusion? Why do porcelain fractures occur even when following correct mechanical principles? The plethora of questions that come to our minds frustrate us not only in daily practice and often we leave it to our technicians to solve the mishaps and end up blaming their materials and techniques. This course is designed to address these perplexing problems and will create clarity in examination, diagnosis and treatment planning.



**Prosthodontics**



**Dr Christopher Evans (Australia)**

Dr Evans graduated BDS at the University of Queensland and completed his MDSc in Prosthodontics at the University of Melbourne.

He is in specialist prosthodontic practice in Brighton, Melbourne and has a branch practice in Albury, NSW. He has presented both locally and internationally on restorative and implant related topics. His research interests include implant aesthetics. He is a member of the Australian and New Zealand Academy of Prosthodontists and is an ITI Fellow.

**Topic: Implant aesthetics for the new decade - What's new and What works ?**

This presentation will review the important Biologic parameters which influence the ability to achieve an ideal implant retained restoration in the esthetic zone. The relevance of published literature in relation to these parameters will be discussed and reviewed. Various clinical techniques such as immediate loading and immediate implant placement will be compared to conventional strategies based on clinical retrospective reviews.

Finally the lecture will conclude by reviewing the prosthetic aspects and handling issues for various system designs together with the clinical outcomes.



**Stress Management**



**Dato' Professor Dr Hashim Yaacob (Malaysia)**

- Vice-Chancellor (2003-2006), Deputy Vice Chancellor(2001-2003), Dean, Faculty of Dentistry (1987-1989 and 1994-2001), Professor of Oral Pathology and Oral Medicine (1987-2007), at the University of Malaya. Vice-President of Malaysian Dental Council (1993-1994). Published 100 scientific papers, 144 conference paper presentations in dentistry.
- Winner of 17 medals (5 gold, 9 silver, 3 bronze) for scientific inventions.
- Engineered the recognition by the General Dental Council of the United Kingdom for the Bachelor of Dental Surgery Degree from the University of Malaya (1997). Engineered the setting up of the FDSRCS Dental Specialist Qualification ( Fellow in Dental Surgery, of the Royal College of Surgeons of England) in Kuala Lumpur (1987). Engineered the placing of the University of Malaya among THE-QS 200 best world universities (2004-2006). Chairman of Panel, for the setting up of the Kelantan University of Malaysia (2006).
- Chairman of Panel, for the setting up of the International University College of Nursing, Malaysia (2007).
- Captain, of the Malaysian Royal Navy Reserve Division (1987-2009).
- Advisor, Times Higher Education-QS (THE-QS) University World Ranking Organization (2007-2010)
- Awarded the 'Lifetime Professional Integrity Award' by Balai Ikhtisas Malaysia and Rotary International, (2009).
- Honorary awards: FDSRCS Ad Eundem, FFOP (RCPA), CBiol, FASc, Member of The Association for Dental Research, Excellent Scientist Award (Saintis Cemerlang) by the Ministry of Higher Education, Hadiah Sastera Perdana Malaysia.

**Topic: Overcoming Life's Shortcomings**

When things do not go your way, and disappointment rules the day; dreams seem to shatter; betrayal abounds and trust thrown to the wind; children fail to meet expectations; opportunities and promotions slip through the fingers; desertions stare in the face; loneliness and the feeling of uselessness grip the soul; and the world seems to darken and forsakes you, what would you do?

One's life does not have to be like the dried leaf in the sun. One must be ready for the life that awaits oneself, and not to succumb to the failed life that one had planned.

One must grasp one's life firmly into one's own hand and move forward. Leave the darkness behind and head for the light. I shall present to you how you could do it.



**Oral Medicine and Oral Pathology**



**Professor Dr Khoo Suan Phaik (Malaysia)**

Dr. Khoo Suan Phaik graduated with a Dental Degree from Faculty of Dentistry, Universiti Malaya in 1987. Soon after she completed her Master's in Oral Pathology at the Eastman Dental Institute, University of London, UK . She went on to obtain her Fellowship in the Oral Medicine specialty from the Faculty of Dentistry, Royal College of Surgeons of Ireland. Dr. Khoo started her academic career at the Universiti Malaya and became Associate Professor in Oral Pathology and Oral Medicine in 1998. Recently Dr. Khoo obtained a PhD from the National University of Singapore. In 2008 she joined the International Medical University (IMU) to become one of the founding members of the School of Dentistry in IMU. Dr. Khoo is currently the Professor of Oral Pathology and Oral Medicine at IMU. She has published in various peer-reviewed local and international journals and has lectured and conducted numerous workshops locally and overseas. She is currently the President-Elect for the IADR (Malaysian Section). Her research interests are in the area of TMD/Orofacial pain and oral mucosal diseases.

**Topic: INFLAMMATORY ORAL MUCOSAL DISEASE : Diagnosis and Management**

The oral mucosa is commonly affected by a number of reactive, inflammatory , infective and immunologically-mediated disorders, each with a specific etiology. Whilst some of these diseases are localized, others are associated with systemic changes within the body.

Distinguishing between them can be very challenging. This presentation will highlight the etiopathogenesis, essential diagnostic features and management of oral mucosal inflammatory diseases of interest to dental practitioners.



**International Community Dental Service**



**Col. Dr. Amarandran Dass (Malaysia)**

**Qualification:**

Bachelor of Dental Surgery ( BDS ) University of Punjab, Lahore, Pakistan (1988-92)

Bachelor of Science (Bsc ) University of Punjab , Lahore, Pakistan (1989-1991 )

Master in Clinical Dentistry (M Clin Den) University of Malaya (2000-2004)

**Missions:** Commanding Officer UN mission -Minurso Western Sahara (May 09 - Nov09)

Dental Officer - Battagram, Pakistan -earthquake mission ( Oct 05 - Feb 06)

**Conferences :**

Speaker Asia Pacific Defence Forces Dentistry Commission , Jakarta, Indonesia 2007 Speaker World Military Dental Congress New Delhi, 2004

**Topic: United Nation Mission: Dental Services of Malaysian Armed Forces Experiences**

UN peacekeeping is growing in importance and in recent years there have been more operations than before. UN peacekeeping in today's setting is not solely a military operation. It includes civilian aid and humanitarian assistance thus making the contribution of the dental team all the more vital.

Ever since our team accompanied the Malaysian contingent with UNTAG at Namibia in 1989, DSMAF have been a regular feature in most operations. DSMAF was involved in missions in Cambodia (1992-1994), Somalia (1993-1995), Bosnia Herzegovina (1993-1998), Timur Leste (2006-2007), Western Sahara (2006- today) and most recently in Lebanon.

The endeavor to study and imbibe the experience and updating the training contents and methodo-gies has been a never ending effort on the part of DSMAF. The professional competence of DSMAF and the dedication while performing the assigned task couple with humane touch has been a major factor for it becoming an integral and indispensable element of all Malaysian Peacekeeping contingent in UN missions. This presentation will highlight the roles, objectives and the challenges faced by

DSMAF while carrying out it's noble duty under the auspices of United Nations .

**Hands - On Workshop Speakers**



**Dr Marc Bachmann (Switzerland)**

**Topic: It`s a shining composite world!**

The seminar content will focus on the construction of natural-looking restorations by utilizing shade selection and composite resin layering techniques. More specifically, Dr Bachman will demonstrate how the observation of natural teeth, tooth morphology, surface texture, optical properties of light and the four dimensions of color (hue, chroma, value, and translucency) can be applied to create restorations with optimal esthetic and functional qualities.

Each attending clinician will:

- Contemporary post and core build ups
- Learn new concepts for placement of direct bonded restorations
- Learn time-saving techniques that also reduce stress, increase profitability, and improve predictability
- Create natural esthetic restorations through better material management
- Understand the layering concepts to create imperceptible restorations
- Preparation design for anterior and posterior teeth
- When selecting a direct, when an indirect approach
- Achieving more polished composite restorations in less chair time
- Experience a hands on workshop with Amelogen Plus composite — each participant will create his own tooth in a multi layering technique

TIME	PROGRAM
9.00 - 10.00am	Lecture
10.00 - 10.30am	Tea Break
10.30 - 12.30pm	Hands-on Workshop
12.30pm	Session end



**Dr Chris Chang (Taiwan)**

**Topic: 3D Level Arm & OrthoBoneScrew Typodont Practice**

Orthodontic bone screws are skeletal anchorage for the 21st century. This lecture will discuss the rationale for the use of bone screw anchorage in contemporary orthodontic practice. A new protocol will be presented for the treatment of severe sagittal discrepancy, open bite, high angle and tough impacted cuspids. Dr. Chang will share with the audience the pearls that he has learned, which can help doctors avoid the common mistakes when using skeletal anchorage to fix those difficult cases.

**Learning Objectives**

1. Learn an easy way to insert bone screws
2. Understand the design of force systems to treat complicated cases
3. Learn to fabricate a 3-D lever arm as an aid to bone screws

TIME	PROGRAM
9.00 - 10.20am	Location analysis of bone screw implantation How to insert bone screw?
10.20 - 10.40am	Tea Break
10.40 - 12.00pm	How to design the force system? How to fabricate a 3-D Level Arm?
12.00pm	Session end

Participants to bring along

1. Bird Beak
2. Wire Cutter



**Dr How Kim Chuan (Malaysia)**

- Graduated with BDS from Singapore in 1991
- Obtained Master Degree in Orthodontics in London in 1993. He is also well qualified in Oral Surgery.
- Possesses a number of post graduate qualifications, namely, Master in Orthodontics, Fellowship in Dental Surgery from The Royal College of Surgeons of England and The Royal College of Surgeons of Edinburgh, i.e. FDS RCS (England) , FDS RCSEd (Edinburgh)
- Obtained the Membership in Orthodontics MORTH RCS (England) & MORTH RCSEd (Edinburgh) from The Royal College of Surgeons of England and The Royal College of Surgeons of Edinburgh respectively
- Obtained the Certificate in Oral Implantology from the University of Frankfurt and University of Berne
- A Fellow as well as a Diplomate for the International Congress of Oral Implantologists (ICOI).
- A Fellow of the Academy of Medicine of Malaysia.
- The Key Opinion Leader for Straumann in Malaysia as well as the Course Director for Osstem implant system in Malaysia
- The Founding member as well as the Vice-President for the Malaysian ITI Society
- A Fellow of the World Clinical Laser Institute as well as a Certified Laser Trainer for Biolase.
- Currently the President-Elect of the Malaysian Dental Association. In the international arena, he is the Vice President for the Commonwealth Dental Association.

**Topic: The Biolase Laser Hands-on Workshop**

Waterlase Dentistry combines laser energy and a spray of water to gently cut teeth, gums and even bone without generating heat, vibration or pressure that can cause discomfort or damage. The system’s laser handpiece never touches the tooth during procedures such as removing dental decay, eliminating the grinding and heat associated with the drill along with the pain triggered by nerves reacting to heat and vibration. The system also helps preserve teeth by eliminating vibrations that can create small cracks and fissures in the surrounding healthy tooth surface.

In procedures such as gum surgery, the Waterlase system uses only the energy of the laser to cut and the water to cool as the tip gently touches the tissue. The laser energy helps reduce or eliminate bleeding.

Waterlase devices have been approved by the FDA for preparing cavities for filling, root canals, bone surgery and a variety of other procedures, and are now used by thousands of dental professionals throughout the U.S.

This Laser Workshop will familiarize you with the features and benefits of the Waterlase MD and EZLase. We will demonstrate Soft Tissue procedures, eg, gingivectomy, frenectomy, gingivoplasty, crown lengthening, troughing for impression implant second stage surgery etc and Hard Tissue procedures such as cavity preparation, Osseous procedure using the laser. We would also demonstrate Laser Endodontic and discuss its clinical efficacy.

There would be demonstration as well as Hands-on practice on extracted teeth and animal jaw to illustrate specific clinical application of laser and then spend some time explaining how to get the most out to improve your clinical results.

TIME	PROGRAM
9.00-9.30am	Laser Physics, Laser safety, Laser Tissue interaction
9.30-12.00pm	Clinical Laser application on soft tissue and periodontal treatment <ul style="list-style-type: none"> <li>• Debridement and removal of inflamed and infected tissue in periodontal pockets to promote reattachment</li> <li>• Open flap periodontal surgery, including flap designs</li> <li>• Gingivectomy and gingivoplasty</li> <li>• Removal of granulation tissue from bony defects (furcation)</li> <li>• Frenectomy</li> <li>• Troughing for impression</li> <li>• Crown lengthening</li> </ul>
12.00-1.00pm	Lunch
1.00-2.30pm	Clinical Laser application on hard tissue - teeth and bone <ul style="list-style-type: none"> <li>• Class I cavity preparation</li> <li>• Class V cavity preparation</li> <li>• Root amputation</li> <li>• Osseous cutting and contouring to assist with implant placement</li> <li>• Osseous periodontal surgery, including bone and resection for grafting</li> </ul>
2.30-4.00pm	Laser Endodontic on extracted tooth <ul style="list-style-type: none"> <li>• Debridement</li> <li>• disinfection</li> </ul>
4.00-4.30pm	Q&A
4.30-5.00pm	Course Complete and Presenting the Course Certificate

( Goat Jaw and extracted teeth would be used)



**Assoc. Professor Dr Wong Foot Meow (Malaysia)**

- Graduated with BDS (Mal) under a Malaysian Armed Forces Scholarship and obtained Fellowship in Dental Surgery from the Royal College of Physicians and Surgeons (Glasgow) in 1981.
- Consultant Oral Surgeon at Armed Forces Hospital Terendak from 1982 - 1989 with the rank of Lieutenant Colonel.
- Awarded membership of Academy of Medicine (Malaysia) in 1995 and made Fellow of the International College of Oral Implantologists in 1996.
- Currently in private practice since 1989. Dr Wong has special interest in minor oral surgery in private practice, cleft lip and palate surgery, ameloblastoma and dental implants.
- Very active in the Malaysia Dental Association (MDA), he was President of MDA for 2 terms in 1996/97 and 2006/2007.
- The Secretary General of the local organizing committee of FDI Annual World Dental Congress 2001
- President of Malaysia Private Practitioners' Association (MPDPA) for 3 terms from 2001-2003.
- Appointed Malaysian Dental Council (MDC) member from 1998 -2003
- Received the MPDPA Outstanding Service Award for 2005.
- The prolific author of the long running popular clinical series of CDE Self Assessment in Clinical Dentistry in the MDA News published since 1995 spanning 13 years and 28 articles.

**Topic: Essential Practical Tips On Third Molar Surgery (Live Surgery)**

This hands-on course will attempt to cover the important clinical aspects of lower wisdom teeth removal covering :

1. History taking
2. Examination
3. Investigation
4. Surgical technique
5. Post-operative care

**Aim**

Assoc Prof (Dr )Wong will attempt to share with participants the salient aspects of lower wisdom teeth removal gleaned from over 32 years of minor oral surgical experience. This course will benefit junior dental practitioners embarking on minor oral surgery and for the experienced clinician intending to pick up clinical pointers to further enhance their clinical methodology and acumen.

**Contents**

The course will comprise of 2 components.

1. The first component will be theoretical in the form of 2 lectures of 45 minutes each on the various aspects of lower wisdom teeth removal covering diagnosis and Xray techniques, minor oral surgery armamentarium, infection control, suturing materials and techniques, medication protocol, local anaesthesia, principles of minor oral surgery and the surgical management of the impacted lower third molar.
2. The second will be a live surgical demonstration on the removal of lower wisdom tooth in a clinical setting with a real-time running commentary to explain the various intricacies, clinical anatomy, armamentarium and rationale of the technique used.

The following questions and points will be covered over the duration of the hands-on course as follows:

1. Important features of intraoral examination.
2. What views of radiographs should be taken and why.
3. Indications for surgical removal of wisdom teeth.
4. Ability to decide whether extraction of a particular lower wisdom tooth is within your ability and how difficult a particular patient's case is likely to be.
5. Possible complications of wisdom teeth surgery and their relative frequency.
6. Antibiotic cover, postoperative antibiotics and analgesics.
7. What would be an appropriate surgical technique to use for any given case
8. Pre and postoperative warnings about wisdom teeth removal to cover any eventualities

TIME	PROGRAM
8.00 - 8.30am	Registration
8.30 - 9.30am	Lecture -Clinical anatomy related to wisdom tooth removal
9.30 - 10.00am	Teabreak
10.00 - 11.00am	Lecture-Wisdom tooth removal in private practice setting
11.00 - 1.00pm	Live demonstration of wisdom tooth removal
1.00 - 2.00pm	Lunch
2.00 - 3.00pm	Live demonstration –Part II

Participants to bring along

1. Scalpel handle and blade No.15
2. Scissors
3. Toothed dissecting forceps
4. Needle holder
5. PF 6 Plastic Instrument



**Dr Marcus Dagnelid (Sweden)**

**Topic: Computer-Guided Implant Therapy – A Hands-On Workshop in 3-D Digital Implant Dentistry**

The goals of this session will be to give registrants first-hand experience in the application of 3D – imaging and guided surgery into their clinical practice. Demonstrations will show how these systems aid in the diagnosis as well as surgical- and prosthetic planning. Program includes an overview of everything from initial examination through CT-scan and virtual planning, to implant surgery with various surgical guides.

This three hour workshop also offers hands-on training bringing understanding of the sophisticated planning software's and guided surgery instruments. The participant will have the opportunity to try placing implants on models with the use of surgical guides.



**Dr Chan Siew Luen (Singapore)**

Dr S L Chan has a private practice restricted to Oral and Maxillofacial Surgery based in Mount Elizabeth Medical Centre, Singapore. He teaches part-time in the National University of Singapore's Graduate Diploma in Dental Implantology and holds Consultant posts in Oral and Maxillofacial Surgery with Raffles Hospital, Singapore and the Military Medicine Institute, Singapore Armed Forces.

Dr Chan has held many leadership positions in the profession including being the President of the Association of Oral and Maxillofacial Surgeons(Singapore). and the Chairman, Chapter of Dental Surgeons, Academy of Medicine, Singapore. He is currently an appointed member of the Singapore Dental Council as well as the Dental Specialist Accreditation Board of the Ministry of Health, Singapore.

Dr Chan has conducted many lectures and workshops in Dental Implantology and Orthognathic Surgery locally and internationally.



**Dr Peter Miles (Australia)**

**Topic: Practicing evidence-based clinical orthodontics**

This lecture will cover various clinical topics including predictable direct and indirect bonding, answers to the treatment of asymmetries, efficient treatment mechanics, retention and more. The literature will be examined for evidence to identify areas where treatment efficiency can be improved and examine the literature that has influenced the speakers own clinical practice



**Dr Marcus Dagnelid (Sweden)**

**Topic: Guided surgery with Simplant and Navigator – When, why and how to use different loading – and provisionalisation techniques**

During this session the guided surgery concept will be discussed from initial examination and case selection, to finished prosthetic reconstruction. The focus will lie on demonstrating the computer-guided approach to implant planning and placement, with use of the planning software Simplant and guided surgery system Navigator.

Different clinical scenarios will be dealt with during the session and different loading protocols compared regarding research and techniques. Various ways of creating functional- and esthetic provisional reconstructions will be demonstrated.



**Dr Martin D. Levin (USA)**

**Topic: Focused Field Cone Beam Computed Tomography in Endodontic Practice**

Endodontic therapy depends on diagnostic radiographs and image-guided treatment. Periapical and panoramic radiography have been augmented by the recent introduction of high-resolution focused field cone beam computed tomography (CBCT). These advanced imaging modalities allow three-dimensional assessment of odontogenic and non-odontogenic lesions, root canal morphology, root and alveolar fractures, resorptive lesions and anatomy prior to surgery. This lecture will highlight the advantages of CBCT imaging in light of recent research demonstrating a significant increase in lesion visualization and associated anatomy when compared to two-dimensional radiography.



**Professor Dr Benjamín Briseño Marroquín (Germany)**

**Topic: Successful and systematic preparation and bio-mechanical obturation of the root canal system. Current concepts based on practical and scientific evidence**



**Professor Syngcuk Kim (USA)**

**Topic: Endodontic Microsurgery; Theory and Practice**

Modern endodontic practice must provide both nonsurgical and surgical treatment options. It has been our observation that there are too many nonsurgical retreatments of cases that should have been treated micro-surgically. To clarify why certain cases will never heal, no matter how many non-surgical retreatments are done, we will demonstrate the reasons for the failures and the basics of endodontic microsurgery, so that more endodontists will consider this option when faced with retreatment.

Endodontic microsurgery is fundamentally different from the old apical surgery in terms of instruments, materials, biological principles and, most importantly, the success rate. In this presentation I will illustrate 8 basic steps in microsurgery, so that the participants will have a clear understanding of the surgical procedures. These 8 steps are: esthetic flap management, effective hemostasis, a small osteotomy, skillful management of the mental nerve and the sinus, identification of complex root canal anatomy visible on the resected root surface, precise root-end preparation with ultrasonic tips and root-end filling with MTA and flap closure with microsutures.

**Course Objectives: At the conclusion,**

1. Participants should be able to describe the differences between the old fashion apical surgery and modern microsurgery
2. Participants should be able to list the biological reasons why Mineral Trioxide Aggregate (MTA) is the best root-end filling material
3. Participants should be also able to describe the 8 basic steps in endodontic microsurgery



**Dr Chris Chang (Taiwan)**

**Topic: Maximize the power of orthodontic bone screws: advanced course**

During this three-hour session, ten ways of applying orthodontic bone screws will be discussed in details. A new protocol involving skeletal anchorage will be presented for the treatment of Class II, Class III, buccal cross-bite, deep bite, open bite, and bi-maxillary protrusion without patient cooperation. After this lecture, your perception of tough cases will be completely changed.

**Learning Objectives:**

1. Understand multiple application techniques for the use of orthodontic bone screws in your practice
2. Be able to adopt this innovative method as your major clinical strategy
3. Know ways to avoid those common errors in skeletal anchorage



**Dr Marc Bachmann (Switzerland)**

**Topic: Succeed your posterior composite restorations each time!**

A comprehensive systematic approach for restoring the posterior segmentum using composite materials will be presented. Step by step procedures for direct and indirect restorative procedures will be shown.



**Professor W. Keung Leung (Hong Kong)**

Keung Leung is Professor, Director of Polyclinics, BDSI Course Director, Associate Dean (Research and Discovery), Faculty of Dentistry. He is also Honorary Associate Professor, Department of Physiology, LKS Faculty of Medicine, The University of Hong Kong. He qualified in Hong Kong and was awarded master degree (Oral Medicine) in the University of Hong Kong. He later earned his doctoral degree at Faculty of Dentistry, University of British Columbia, Canada. He started serving the Discipline of Periodontology, Faculty of Dentistry, HKU at 1995 where he later finished his specialist training there. His research interests include human periodontal microbial ecology and virulence; effects of altered human oral physiology on

the corresponding microbial ecology; clinical trials of periodontal care strategies including anxiety modulation. He has authored more than 70 peer reviewed publications. He is currently Honorary Consultant, Dental Clinic, Diabetes Centre, Tung Wah Eastern Hospital, Tung Wah Group of Hospitals, Hospital Authority; Editorial Board Member, Hong Kong Medical Journal; Editorial Advisory Board, Journal of Investigative and Clinical Dentistry; Council Member, The College of Dental Surgeons of Hong Kong; Specialty Board Member (Periodontology) The College of Dental Surgeons of Hong Kong; Examiner, the Dental Council of Hong Kong; Council Member, Hong Kong Society of Immunology; President, Hong Kong Society of Periodontology and Implant Dentistry; and President-elect, Southeast Asian Association for Dental Education.

**Topic: Periodontitis risks revisited**

## Round Table Discussion Speakers



**Dr Martin D. Levin (USA)**

**Topic: Using Focused Field Cone Beam Computed Tomography (CBCT) to Evaluate Extraradicular Invasive Cervical Root Resorption**

Among the most common complications of dento-alveolar trauma are pulp necrosis, pulp canal obliteration, periapical pathosis and root resorption. One of the most common types of resorption is extraradicular invasive cervical resorption (EICR). Focused field computed tomography has enabled clinicians to assess EICR in order to determine the treatment complexity and expected outcome based on the location and extension of the root defect. This discussion will highlight the benefits of focused field 3D technology in visualizing this condition.



**Dr Chris Chang (Taiwan)**

**Topic: Management of Impacted Canine and surgical technique**

Key steps of of treating for impacted cuspids will be presented and discussed with photos and videos to ensure participants have a thorough understanding. All important tips will also be reviewed in details. After this round table discussion, your ability to handle tough impacted cuspids will never be the same.

Learning Objectives:

1. Gain a complete understanding of treating impacted cuspids with orthodontic bone screws.
2. Be able to design multiple mechanic force systems for various types of impacted teeth.
3. Adopt an easy method to perform surgical procedures for impacted teeth.



**Professor St John Crean (United Kingdom)**

**Topic: Developing an Undergraduate curriculum to be fit for purpose**

Research in dental education is a notoriously difficult area. Long have the ideologies of teaching and learning been kept separate by issues indigenous to the established educational facilities and their traditional delivery approach. Institutional focus upon research, publication and grant awards has relegated teaching aspirations to a lesser standing amongst educational faculty hierarchies. Recent changes, however, in educational focus has aimed to address these differences, such that in recent times great strides have been made in the design of complete curriculum profiles especially in those institutions unhindered by historical protocol and statute. Current trends recognise the need for up to date and “fit for purpose” curriculums which have been developed after an assessment of local health population needs ,allowing the formulation of a core skills bank. These developments have tended to focus upon the skills required to deliver the core material but the question still remains as to the actual content of the curriculum needed to deliver this fit for purpose clinician? This session will describe a method of designing an undergraduate curriculum evidenced by the needs of the patient base rather than that of the educational faculty.



**Professor Syngcuk Kim (USA)**

**Topic: Everything you wanted to know about Endodontics**  
This unique session will be run in a Question and Answer format about endodontics



Dr Marcus Dagnelid (Sweden)



Professor W. Keung Leung (Hong Kong)

**Topic: Breakfast one-on-one: Guided Surgery – A Tool For Creating Success With Your Patients**

During this session participants will have an exclusive discussion within the field of Guided Surgery. Due to the limited attendance, participants will be given the chance to bring their own cases for a round- the – table conversation.

**Topic: Periodontal therapy: how to pick the best regimen for my patients?**

SCIENTIFIC PROGRAM		Friday 11 June 2010
Kuala Lumpur Convention Centre		Plenary Hall, Level 1
TIME	SPEAKERS	TOPICS
7.30 - 8.00am		<b>REGISTRATION</b>
8.00 - 9.30am	Dr Nadine Brodala	Dental Implantology and Piezosurgery: Benefits of a minimally invasive technology as an adjunctive in Implant Dentistry
9.30 - 10.00am		<b>TEA BREAK/TRADE EXHIBITION</b>
10.00 - 11.30am	Dr Marcus Dagnelid	Guided Surgery in Implantology - Biology with Technology Creates New Dimensions
11.30 - 1.00pm	Professor Dr Benjamín Briseño Marroquín	Successful and systematic preparation and bio-mechanical obturation of the root canal system. Current concepts based on practical and scientific evidence
1.00 - 2.00pm		<b>LUNCH/ TRADE EXHIBITION / FRIDAY PRAYER</b>
2.00 - 3.30pm	Dr Martin D. Levin	Digital Technologies in Dental Practice
3.30 - 4.00pm		<b>TEA BREAK/ TRADE EXHIBITION</b>
4.00 - 6.00pm		<b>SCODOS MEETING</b> <b>"EVERYTHING MATTERS, EVERYONE MATTERS"</b> <b>VENUE: ROOM 302&amp;303</b>
4.00 - 5.30pm	Professor Mark Bartold	Periodontal Disease and Systemic Diseases
7.30 - 11.00pm		<b>MDA INFORMAL NITE</b>

SCIENTIFIC PROGRAM		Friday 11 June 2010
Kuala Lumpur Convention Centre		Plenary Theatre, Level 3
TIME	SPEAKERS	TOPICS
7.30 - 8.00am		<b>REGISTRATION</b>
8.00 - 9.30am	Professor St John Crean	Role of bacteria in oral cancer development
9.30 - 10.00am		<b>TEA BREAK/TRADE EXHIBITION</b>
10.00 - 11.00am	Professor Dr Khoo Suan Phaik	INFLAMMATORY ORAL MUCOSAL DISEASE: Diagnosis and Management
11.00 - 12.00pm	Col Dr Amarandran Dass	United Nation Mission: Dental Services of Malaysian Armed Forces Experiences
12.00 - 1.00pm	Dr William Cheung	Teamwork on Oral Health Prevention
1.00 - 2.00pm		<b>LUNCH/ TRADE EXHIBITION / FRIDAY PRAYER</b>
2.00 - 3.30pm	Professor Shanker Iyer	Occlusal Principles in Restorative Dentistry
3.30 - 4.00pm		<b>TEA BREAK/ TRADE EXHIBITION</b>
4.00 - 6.00pm		<b>SCODOS MEETING</b> <b>"EVERYTHING MATTERS, EVERYONE MATTERS"</b> <b>VENUE: ROOM 302&amp;303</b>
4.00 - 5.30pm	Dr Chris Chang	Tough Orthodontic Cases Made Easy with Damon & OrthoBoneScrew

**SCIENTIFIC PROGRAM**  
Kuala Lumpur Convention Centre

**Saturday 12 June 2010**  
Plenary Hall, Level 1

TIME	SPEAKERS	TOPICS
8.00 - 9.30am	Professor St John Crean	Medical Emergencies in Dental Practitice
9.30 - 10.30am	Professor Stephen H. Y. Wei	Managing Patients with Dental Erosion in Clinical Practice: The Ideal Solution
10.30 - 12.00pm	<b>OPENING CEREMONY</b>	
12.00 - 1.00pm	67th MDA AGM	
1.00 - 2.00pm	LUNCH/TRADE EXHIBITION	
2.00 - 5.00pm	67th MDA AGM	
5.00 - 5.30pm	TEA BREAK/ TRADE EXHIBITION	
8.00 - 12.00am	1 MALAYSIA MDA GALA BANQUET	

**SCIENTIFIC PROGRAM**  
Kuala Lumpur Convention Centre

**Sunday 13 June 2010**  
Plenary Hall, Level 1

TIME	SPEAKERS	TOPICS
8.00 - 9.30am	Dr Peter Miles	Self-ligating brackets – Unravelling the Da Vinci Code
9.30 - 9.45am	Dr Marlynda Ahmad	Announcement of Oral and Poster Presentation's Winner
9.45 - 10.00am	TEA BREAK/ TRADE EXHIBITION	
10.00 - 11.30am	Dr Marc Bachmann	Composite Artistry: a closer look
11.30 - 1.00pm	Dr Christopher Evans	Implant aesthetics for the new decade - What's new and What works ?
1.00 - 2.00pm	LUNCH/ TRADE EXHIBITION	
2.00 - 3.30pm	Dato' Professor Dr Hashim Yacob	Overcoming Life's Shortcomings
3.30 - 4.00pm	TEA BREAK/ TRADE EXHIBITION	
4.00 - 5.30pm	Professor Syngcuk Kim	Modern Technology and New Trend in Endodontics and Their Impact on Clinical Dentistry

**Dental Student Congress**  
Kuala Lumpur Convention Centre

**Saturday 12 June 2010**  
Plenary Theatre, Level 3

TIME	
8.30 - 9.00am	Registration
9.00 - 10.30am	Dental Student Congress
10.30 - 12.00pm	<b>OPENING CEREMONY</b>
12.00 - 1.00pm	Dental Student Congress - Continue
1.00 - 2.00pm	LUNCH/TRADE EXHIBITION
2.00 - 5.00pm	Dental Student Congress - Workshop
5.00	End session

**International Association of Periodontology(IAP) Symposium**  
Healthy Mouth Healthy Body

**Sunday 13 June 2010**  
Plenary Theatre, Level 3

TIME	PROGRAME	INVITED SPEAKERS
8.30-9.00am	Registration, gift set collect	
9.00-9.30am	Opening remarks- IAP short introduction	Professor Mark Bartold
9.30-10.00am	Tea Break and Trade Exhibition	
10.00-11.30am	Impact of periodontal inflammation to systemic health	Professor Mark Bartold
11.30- 1.00pm	Bio-film management for healthier life	Professor Dr W. Keung Leung
1.00- 1.30pm	Discussion	Professor Mark Bartold Professor Dr W. Keung Leung

**Corporate Symposium**
**Sunday 13 June 2010**

TIME	VENUE	SPEAKERS
1.00 - 2.00pm	Room 302	Nicolas Sondaz (Ultradent Products Inc)

**HANDS - ON WORKSHOP  
MAHSA University College**
**Thursday 10 June 2010**

TIME	VENUE	SPEAKERS	TOPICS
9.00 - 12.30pm	Seminar Room Block E, Level 6	Dr Marc Bachman	It's a shining composite world!
9.00 - 12.00pm	Seminar Room Block E, Level 6	Dr Chris Chang	3D Level Arm & OrthoBoneScrew Typodont Practice
9.00 - 5.00pm	Computer Laboratory, Block A	Dr Marcus Dagnelid Dr Chan Siew Luen	Computer-Guided Implant Therapy – A Hands-On Workshop in 3-D Digital Implant Dentistry
8.00 - 3.00pm	Seminar Room, Block E, Level 6 & Dental Surgery	Dr Wong Foot Meow	Essential Practical Tips on Third Molar Surgery (Live Surgery)
9.00 - 5.00pm	Seminar Room, Block E, Level 6	Dr How Kim Chuan	The Biolase Laser Hands-on Workshop ( Goat Jaw and extracted teeth would be used)

**ROUND TABLE DISCUSSION  
Kuala Lumpur Convention Centre**
**Saturday 12 June 2010**

TIME	VENUE	SPEAKERS	TOPICS
8.30 - 9.30am	Room 401	Dr Marcus Dagnelid	Breakfast one-on-one: Guided Surgery – A Tool For Creating Success With Your Patients
8.30 - 9.30am	Room 401	Dr Chris Chang	Management of Impacted Canine and surgical technique
8.30 - 9.30am	Room 402	Dr Martin D Levin	Using Focused Field Cone Beam Computed Tomography (CBCT) to Evaluate Extraradicular Invasive Cervical Root Resorption
8.30 - 9.30am	Room 402	Professor Syngcuk Kim	Everything you wanted to know about Endodontics
8.30 - 9.30am	Room 401	Professor Leung Wai Keung	Periodontal Therapy: How to pick the best regimen for my patients
11.30 - 12.30am	Room 402	Professor St John Crean	Designing a curriculum to be fit for purpose

**LIMITED ATTENDANCE LECTURE  
Kuala Lumpur Convention Centre**
**Friday 11 June 2010**

TIME	VENUE	SPEAKERS	TOPICS
<b>8.00 - 9.00am</b>			<b>REGISTRATION</b>
9.00 - 12.00pm	ROOM 302	Dr Peter Miles	Practicing evidence-based clinical orthodontics
9.00 - 12.00pm	ROOM 303	Dr Chris Chang	Maximize the power of orthodontic bone screws: advanced course
9.00 - 12.00pm	ROOM 304	Dr Marc Bachmann	Succeed your posterior composite restorations each time!
9.00 - 12.00pm	ROOM 305	Dr Martin D. Levin	Focused Field Cone Beam Computed Tomography in Endodontic Practice
<b>10.00 - 10.30am</b>			<b>TEA BREAK/TRADE EXHIBITION</b>
<b>12.00 - 2.00pm</b>			<b>LUNCH/ TRADE EXHIBITION</b>
2.00 - 5.00pm	ROOM 302	Dr Marcus Dagnelid	Guided surgery with Simplant and Navigator – When, why and how to use different loading – and provisionalisation techniques
2.00 - 5.00pm	ROOM 303	Professor Syngcuk Kim	Endodontic Microsurgery; Theory and Practice
2.00 - 5.00pm	ROOM 304	Professor Dr Benjamín Briseño Marroquín	Successful and systematic preparation and bio-mechanical obturation of the root canal system. Current concepts based on practical and scientific evidence
2.00 - 5.00pm	ROOM 305	Professor Leung Wai Keung	Periodontitis risks revisited
<b>4.00 - 4.30pm</b>			<b>TEA BREAK/ TRADE EXHIBITION</b>

Disclaimer: The Organizing Committee reserves the right to change or cancel the programme without any prior notice if circumstance dictates

" Early Bird Registrants before 1 May, 2010 will be awarded an opportunity to win a 3D/2N convention stay at the Traders Hotel, KL worth RM1100.00" \*

Disclaimer: This lucky draw will be conducted by the promotion committee of the 67th AGM organising committee after 1 May, 2010. Only the winner will be contacted and the decision of the committee shall be final. The lucky draw prize is not exchangeable with cash or any other items.

## Grand Opening Ceremony

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Date: 12 June 2010 Time: 10:30am

Venue: Main Plenary Hall, Kuala Lumpur Convention Centre

## Scientific Programme

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- 1) Main Podium Keynote Lecture ( 1500-3000 pax)
- 2) Limited Attendance Lecture (100pax)
- 3) Round Table Clinic (10 pax)
- 4) Hands-on Workshop (30 pax)
- 5) Oral and Poster Research Competition
- 6) Corporate Symposium (100 pax)

## Social Programme

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- 1) Informal Night ( 500 pax)  
*(Ticketed - RM 50 for Adults, RM 30 for Children 12-18 yrs old, Children below 12 not allowed)*
- 2) 1 Malaysia MDA Gala Banquet (800 pax)  
*(Ticketed - RM 130 per ticket)*
- 3) One Day City Tour (100 pax) \* prior bookings need to be made
- 4) Pre and Post Conference Tour \* prior bookings need to be made

## Dental Student Programme

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- 1) Dental Student Congress

## Public Dental Education Programme

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- 1) Free Public Dental Education Talk
- 2) Free Public Dental Screening
- 3) MDA Charity Programme

## Dental Trade Exhibition

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### Malaysian Dental Association

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# 67TH MDA AGM/ FDI INTERNATIONAL SCIENTIFIC CONVENTION ORAL & POSTER PRESENTATION COMPETITION

## Guidelines for Abstract Submission

1. All abstracts must be submitted in English.
2. Title should be written in CAPITAL letters.
3. Abstract should not exceed 250 words.
4. Font: Calibri, Size 11, Single space.
5. Initials written under the title should follow authors' surnames. (Surname A.B)
6. Name of the author who is to present the paper is marked by an asterisk. (Surname\* A.B)
7. Name of institution(s) should follow the name of author(s) on a separate line.
8. If there is more than one institution, use numbers (**Arabic and Superscript**) to match institution to author.
9. The abstract should be arranged in structured fashion: **Objectives, Methods, Results and Conclusion**.
10. Please include 3 Keywords at the end of the abstract.

Please email your abstract to Scientific Presentation Chairman,  
**Dr. Marlynda Ahmad at poster\_oral@yahoo.com**

## Deadline for submission

The deadline for submission is **16 April 2010**. No abstract will be accepted after this date. Acceptance or rejection will be notified by email on **23 April 2010**. Please note that the PRESENTER of an ACCEPTED abstract must register and pay the registration fee for the Conference by **1 May 2010 for early registration (RM380)**. Only qualified dentist is eligible to enter this competition.

Please provide the Scientific Presentation Committee with the following information:

1. Presenter's full name:
2. Name of institution/clinic:
3. Email address:
4. Contact number:
5. The mode of presentation: Oral/Poster

## THE INFLUENCE OF NANO-FILLED AND UNFILLED RESIN SURFACE COATING AGENTS ON THE STAIN RESISTANCE OF PROVISIONAL RESTORATIONS.

Chong C.W<sup>1</sup>, Wong C.S<sup>1</sup>, Ahmad M<sup>1\*</sup>, Seow L.L<sup>2</sup>, Tarib N.A<sup>1</sup>

<sup>1</sup>Faculty of Dentistry, Universiti Kebangsaan Malaysia

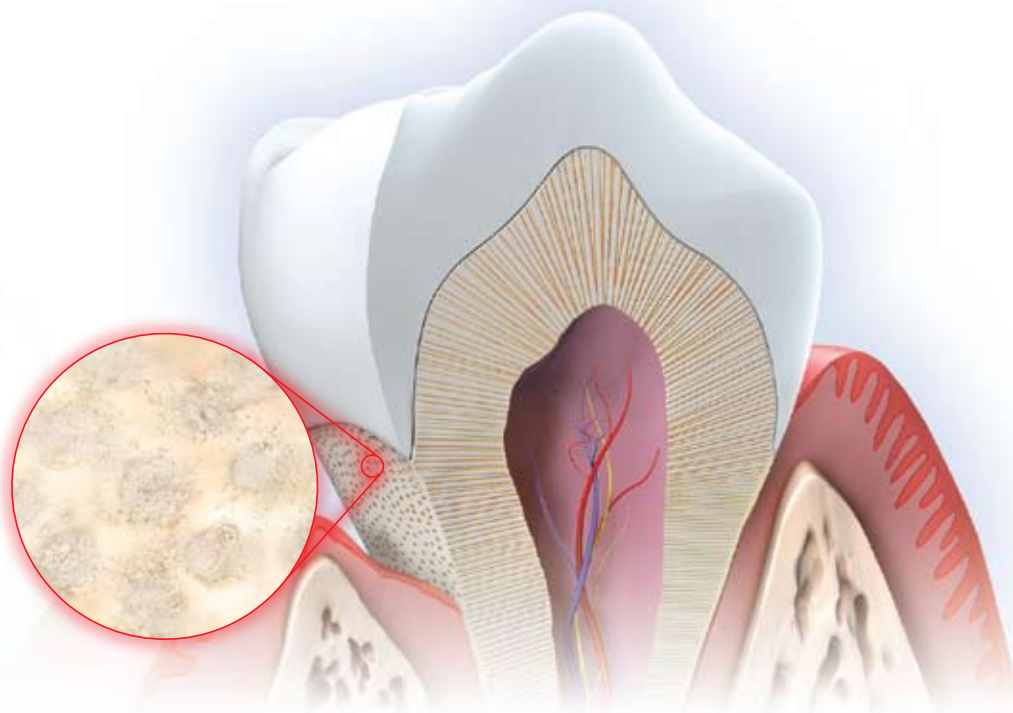
<sup>2</sup>Faculty of Dentistry, International Medical University

**Objectives:** The purpose of the present study was to evaluate the efficacy of surface coating agents in reducing extrinsic stain of two provisional materials. **Materials and methods:** Three different types of surface coating agents, nanofilled resin [G-Coat PLUS (GC)] and two unfilled resins [Permaseal<sup>®</sup> (Ultradent) and OptiGuard (Kerr)] were examined. The specimens discs were prepared with bis-acryl composite (Protemp<sup>™</sup> 4) and ethyl-methacrylate resin (Bosworth Trim<sup>®</sup>). Only Bosworth Trim<sup>®</sup> specimens were polished with Sof-lex discs. Surface coating agents were applied. Control groups were left uncoated. The specimens were immersed in a coffee solution for 72 hours at 37 ° Celsius. The colour at baseline and post-immersion were measured with reflection spectrophotometer (Datacolor international, Dataflash 100). Color change ( $\Delta E$ ) was calculated and data were analyzed with two-way ANOVA and the Tukey multiple comparisons test. **Results:** Colour change was most pronounced after immersion in a coffee solution, exceeding the clinical acceptance discoloration threshold value of  $\Delta E^*=3.3$  with the exception of the Bosworth Trim<sup>®</sup> control group,  $\Delta E^*=1.58$ . Surface coating agents significantly increased the colour changes of Bosworth Trim<sup>®</sup>. Nano-filled resin [G-Coat PLUS (GC)] improved stain resistance of bis-acryl composite Protemp<sup>™</sup> 4 3M ESPE. **Conclusions:** Application of nanofilled resin significantly improved stain resistance of bis-acryl composite. Ethyl-methacrylate resin reveals the greatest stain resistance.

**Keywords:** surface coating agent, colour changes, stain resistance.

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1 Nathoo S et al J Clin Dent 2009; 20 (Spec Iss): 123-130  
2 Ayad F et al J Clin Dent 2009; 20 (Spec Iss): 115-122  
3 Schiff T et al J Clin Dent 2009; 20 (Spec Iss): 131-136

4 Docimo R et al J Clin Dent 2009; 20 (Spec Iss): 17-22  
5 Ayad F et al J Clin Dent 2009; 20 (Spec Iss): 10-16  
6 Docimo R et al J Clin Dent 2009; 20 (Spec Iss): 137-143

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