

today



Inside today

You will find an overview about the UAE International Dental Conference & Arab Dental Exhibition—AEEDC 2012, new developments and trends in the world of dentistry as well as information on dental products and the industry.

»Page 2



Dental products in focus

The UAE International Dental Conference & Arab Dental Exhibition 2012 will be an excellent opportunity to see the most up-to-date technologies and achievements in the field of dental medicine.

»Page 10



Plan ahead

You will find the latest update of the exhibitors list of this year's UAE International Dental Conference & Arab Dental Exhibition in our service section.

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AEEDC UAE International Dental Conference & Arab Dental Exhibition

Date

31 January–2 February, 2012

Venue

Dubai International
Convention and Exhibition Center

Exhibition Opening Hours

Daily: 10:00–18:00

Organised by

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Fax: + 971 4 362-4718
E-Mail: index@emirates.net.ae
Web: www.index.ae
www.aeedc.com

In cooperation with

Government of Dubai
Dubai Health Authority

AEEDC is member of the World
Dental Exhibitions Alliance.

For more information please also
visit www.dental-tribune.com

International dental community gathers in Dubai

AEEDC 2012 to present the latest in dental materials and technology



Roberto Chicano/Shutterstock.com

Under the patronage of the Deputy Ruler of Dubai, Sheikh Hamdan Bin Rashid Al Maktoum, the 16th UAE International Dental Conference & Arab Dental Exhibition is currently being held at the Dubai International Convention & Exhibition Centre in Dubai. According to the organiser, the meeting is expected to be visited by almost 30,000 dental professionals from the region and abroad over the next three days.

Last year's edition was one of the largest since the meeting was first inaugurated in 1996. Besides 850 trade exhibitors, the event drew

more than 27,000 dental professionals to the World Trade Centre in Dubai.

While being the largest meeting of its kind in the region, AEEDC has also become the third largest dental meeting in the world in terms of size and business volume, the organisers said. It is a founding member of the World Dental Exhibition Alliance, an international network of dental trade shows set up in 2010 in order to promote dental business throughout the world. It includes large meetings like the Greater New York Dental Meeting in New York or Sino-Dental in Beijing.

AEEDC 2012 is presenting the latest advancements in dental materials and techniques from clinicians and manufacturer's around the globe. The conference programme offers educational courses presented by over 100 dental specialists and ranging from topics like the enhancement of treatment with lasers to strategic business planning in dental practices. Advanced specialty courses covering different fields of dentistry are also being held throughout the event.

"We have been working hard since last year to prepare a more engaging and educational pro-

gramme, which is a challenge by itself considering the exceptional success of AEEDC 2011," says Conference Chairman Dr Nasser A. Malik. "We are proud to present a diverse programme again this year that suits the interest of all professionals involved in dentistry."

For the first time, continuing education session were held prior to the congress. Labelled as Dubai World Dental Meeting, this programme has received support by re-known manufacturers like Ivoclar or SybronEndo.

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AD



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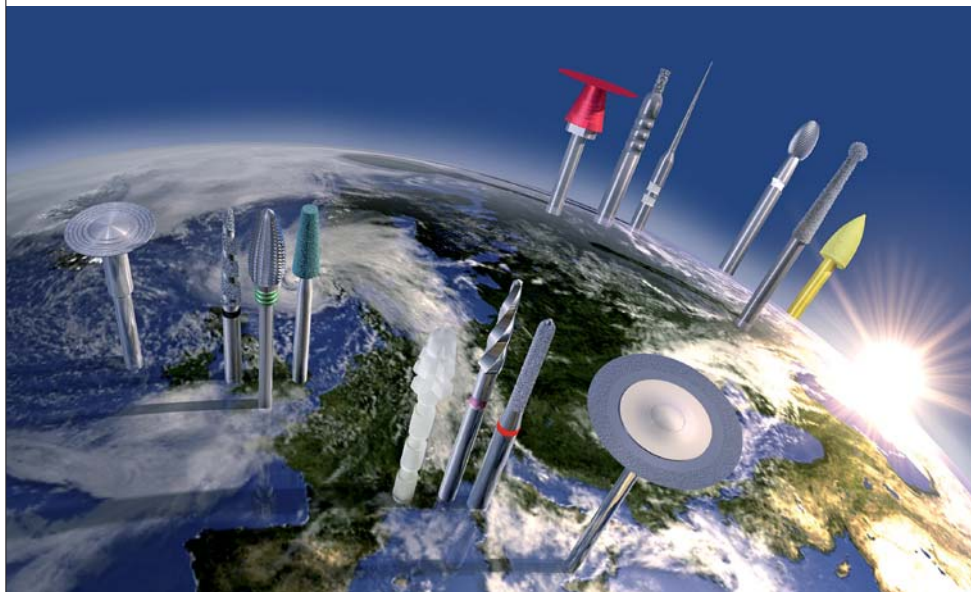
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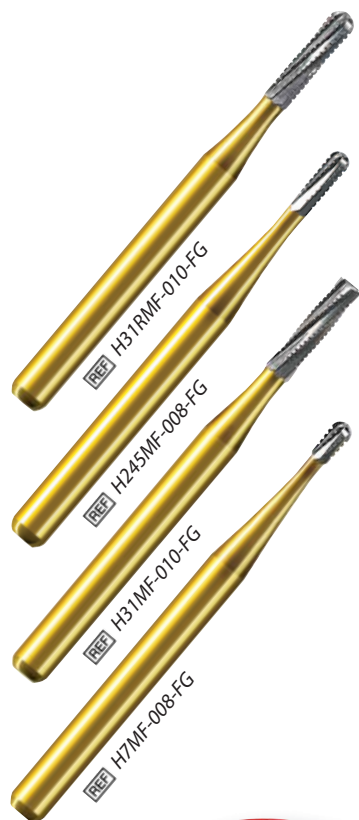
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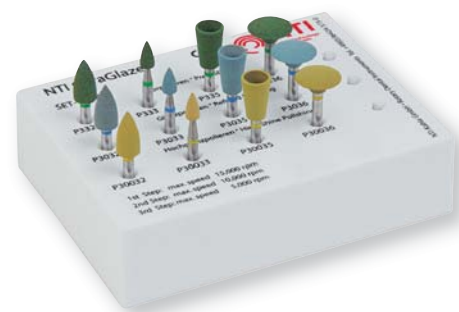


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Hall 7**

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welcome

today

2

A platform to discuss the latest advances in dentistry

Welcome message by Qadhi Saeed Al Murooshid, Director General of the Dubai Health Authority

■ On behalf of the Dubai Health Authority (DHA), I would like to invite you to the 16th edition of the UAE International Dental Conference and Arab Dental Exhibition—AEEDC, which will be held from the 31 January—2 February, 2012, in the city of Dubai in the UAE.

Dubai is a city with a huge prospects and a strong ambition. Over the last few years, the city has seen a phenomenal growth of the health sector owing to the vision of our leader, His Highness Sheikh Mohammed bin Rashid Al Maktoum, UAE Vice President, Prime Minister and Ruler of Dubai, who has placed much importance to the health sector in the Dubai 2015 strategic plan.

At DHA, to host, attend and speak at conferences such as this one is part of our strategic vision. We are proud to have hosted esteemed international confer-

ences and well aware of the important role these conferences play in bringing together the very best of international and local talents. This conference, in particular, is one of the biggest in the region and we are proud to be able to host it in Dubai. Last year, approximately 27,000 dental professionals and trade visitors from 120 countries and around 850 exhibitors representing 70 countries participated in AEEDC. The scientific programme attracted more than 6,000 conference delegates.

This congress is a platform where international speakers will get an opportunity to discuss and learn about the latest advances in dentistry.

I wish you all the best and I look forward to your participation in the congress!



Transform scientific knowledge for the best of all

Welcome Message by DrTariq Khoory, Honorary Chairman of AEEDC

■ On behalf of the entire AEEDC Dubai team, I extend a warm and cordial welcome to all participants, visitors, exhibitors and distinguished guests.

Keeping dental professionals and personnel's updated through Continuing Education is an important factor for the quality of services provided by dental specialists for the general public. AEEDC Dubai is becoming an effective platform and one of the most valuable sources for Continuing Education in the dental field through its rich offering of lectures, advanced workshops, poster sessions as well as a dental exhibition.

I firmly believe that the feedback of our

participants and visitors will always make a difference to us and will help us in the distribution of the latest information and technology in the field of dentistry.

AEEDC Dubai has been presenting new and better scientific programmes with each edition held throughout the years. As organisers, we feel elated that our initiatives not only advance the field of dentistry but also help to transform scientific knowledge for the best of all.

I sincerely looking forward to an active participation at AEEDC Dubai 2012.



AEEDC Dubai unfolds a new chapter for dentistry

Welcome message by Abdul Salam Al Madani, Executive Chairman AEEDC

■ It gives me immense pleasure to welcome all of you to the 16th edition of the UAE International Dental Conference and Arab Dental Exhibition—AEEDC Dubai 2012.

On this occasion, I would like to express my heartfelt gratitude to all those who contribute to AEEDC Dubai and have helped the event become a resounding success globally, both scientifically and networkingwise. The industry and visitors eagerly await the developments that come to light as AEEDC Dubai unfolds a new chapter for dentistry and its innovations with every consecutive year.

AEEDC Dubai 2012 will yet again supersede its previous record numbers and achievements by delivering another outstanding event. The conference programme has been designed in such a way that facilitates the dissemination of scientific infor-

mation to the global dental fraternity and encourages innovations. Moreover, a dental exhibition featuring all global key players presents an excellent opportunity for decision makers from the industry to indulge in brainstorming and an exchange of industry techniques and advancements which often lead to joint collaborations and other profitable ventures.

On behalf of the organizers of AEEDC Dubai and its team members, I would like to extend my warm welcome to all dental specialists, members of the oral health community, and encourage them to make use of this opportunity in order to benefit from the latest advancements in dentistry.

I look forward to seeing you all at AEEDC Dubai 2012.



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Colgate-Palmolive and DT Study Club launch new Oral Health Network

■ Dental consumables manufacturer Colgate-Palmolive has announced the launch of the Colgate Oral Health Network for Professional Education and Development—a new online resource dedicated to helping dental professionals improve the oral health and well-being of their patients. Through a partnership with the *Dental Tribune Study Club*, the Colgate Oral Health Network provides access to some of the latest information and developments in oral health.

Since December last year, den-

tal professionals are able to access the free benefits of the Colgate Oral Health Network. It will offer educational resources such as live online webinars and on-demand seminars, the company said.

“Colgate has been a long-standing partner of dental professionals worldwide,” said Barbara Shearer, Director of Scientific Affairs at Colgate Oral Pharmaceuticals. “The launch of the Colgate Oral Health Network marks an expansion of our commitment to oral health education as we continue to help

keep the profession connected with up-to-date news and e-learning opportunities.”

By offering these resources online, the Colgate Oral Health Network also serves as an interaction platform for dental professionals worldwide by incorporating various cultures and new perspectives into the educational mix, Shearer added.

More information are available at www.colgateoralhealthnetwork.com.

Study finds DNA vaccine to inhibit caries formation

■ Researchers from the Chinese Academy of Sciences in Beijing are reporting to have found a vaccine containing genetically modified DNA to be effective in preventing tooth decay. By injecting lab rats with a protein derived from *Salmonella*, they found evidence that it promoted the formation of antibody molecules that have the potential to inhibit the colonization of *Streptococcus mutans* and the development of caries lesion.

Being a relatively new concept, nucleic acid vaccines have been under examination for their use in forming antibodies against a number of diseases and systematic conditions including cancer. It's potential to influence the formation of caries lesions was first examined by scientists almost 30 years ago. The new results build on previous research from the Beijing research group with the so-called pGJA/VAX vaccine and are the most convinc-

ing so far in having found an effective mucosal adjuvant candidate for intranasal immunization of an anti-carries vaccine, the authors said.

They admitted that low immunogenicity which is the ability to provoke an immune response is still relatively low in the vaccine.

“Animal experimentation with this vaccine and route of administration have been reported over the past several years,” explains Dr Daniel Smith, an immunology specialist and member of the Forsyth Institute in the US, to *Dental Tribune Asia Pacific*. “The new feature here is the use of flagellin as an adjuvant which seems to give a modest improvement in antibody levels.”

Other substances currently in pre-clinical experimentation for use as a caries vaccine are other recombinant proteins and glucan-protein conjugates. According to Smith, human trials however cannot be expected to be realised anytime soon.



Dental researchers bite into spinal cord injury rehabilitation

■ In recent years, dental stem cells have increasingly been investigated for their use in medical applications, including the rehabilitation of lost or damaged biological function. Scientists from the Nagoya University in the Nagasaki Prefecture in Japan have reported that they could possibly help to repair injuries of the spinal cord, a leading cause of paralysis and disability.

Having transplanting human dental pulp stem cells into lab rats with severe spinal cord injury (SCI), they found that the animals regained significantly more limb function than through a transplant of human bone marrow stromal cells or skin-derived fibroblasts.

According to the researchers, the cells not only inhibited the death of nerve cells, but also promoted the regeneration of severed nerves and replaced lost support cells with new ones, two main factors essential for functional rehabilitation.

“Spinal cord injury often leads to persistent functional deficits due to the loss of neurons and glia and to limited axonal regeneration,” they stated in the study published in the *Journal of Clinical Investigation* last week. “Our data demonstrate that tooth-derived stem cells may provide therapeutic benefits for treating SCI through both cell-autonomous and paracrine neuroregenerative activities.”

Investigating different types of stem cells for their potential in SCI rehabilitation has a long track record in science. This September, for example, researchers from the Medical College of Wisconsin reported that they had begun to implant foetal neural cells into SCI patients. The Nagoya study is the first to have shown a rehabilitation effect in SCI cases with stem cells derived from dental tissue.

Classified by the grade of impairment, SCI can have mild to severe health effects on patients, including total loss of biological function. Common therapies include surgery, long-term physical therapy and other rehabilitation efforts.

Researchers investigate caries using nanotechnology

■ Researchers at the University of Basel and the Paul Scherrer Institute, the largest research centre for natural and engineering sciences within Switzerland, have successfully demonstrated how caries affects human teeth at a nano-level. Their study offers new possibilities for the treatment of tooth damage.

Dentine consists mainly of inorganic elements but a fifth is composed of organic material. It was previously hypothesised that these organic components—especially certain endogenous structural proteins (collagen)—were unaffected by damage to the dentine and that their structure could offer a basis for remineralisation. To test this hypothesis, the research team, led by Prof. Bert Müller at the Biomaterials Science Center at the University of Basel, used X-ray scattering to compare the density of collagen in healthy and carious tooth spots.

The researchers cut both

healthy and carious teeth into thin slices of 0.2 to 0.5 mm and examined them using small-angle X-ray scattering, a technique used for the structural characterisation of solid and fluid materials in the nanometre range.

They observed that carious bacteria initially destroy the ceramic components of the outer enamel and the subjacent dentine. In contrast, in the early to mid-carious state, a significant part of the dental collagen network, remains practically unaffected.

Hence, the researchers suggest that in the future their method will allow the development of biometric dental fillings and cavity treatments that are based on an undamaged dental collagen network, and allow the remineralisation of damaged dentine, for example, with nanoparticles.

The study was published online in the *Nanomedicine Journal* in September.

Scientists focus on brain for treatment of swallowing disorders

■ Magnetic brain stimulators could help stroke patients overcome life-threatening swallowing difficulties, Australian scientists have reported. In a clinical study conducted at the University of Adelaide (UA) in South Australia, researchers are currently investigating how the process of transcranial magnetic stimulation, non-invasive electromagnetic stimulation of cerebral nerve cells, could help to regain control of mouth and throat muscles damaged by cerebrovascular accidents.

According to UA speech pathologist and lead researcher Dr Sebastian Doeltgen, swallowing disorders affect more than 50 per cent of patients suffering from the effects of a stroke. In Australia, for example, 35,000 stroke patients per year temporarily lose their ability to control their swallowing.

If untreated, the condition can lead to severe health conditions like silent aspiration, dehydration or even pneumonia, which can be life threatening, especially for elderly patients.

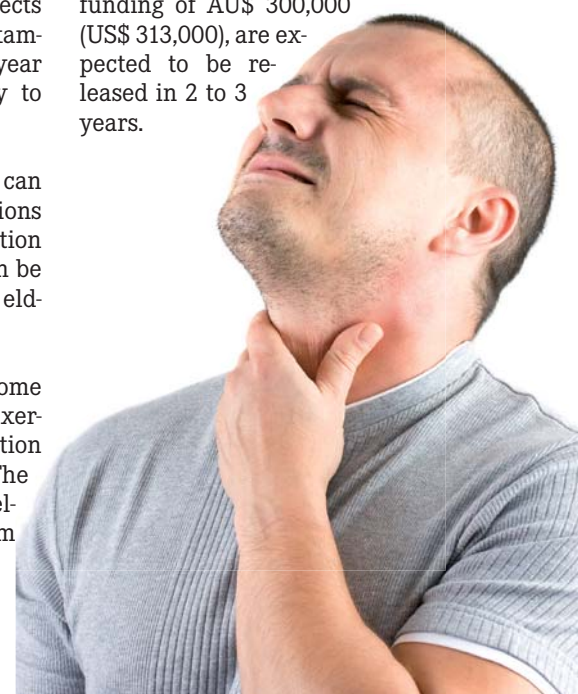
Common therapies to overcome the problem include physical exercises to improve the coordination of mouth and throat muscles. The new therapy approach developed by Doeltgen and his team

uses magnetic stimulation to create electric currents in the brain that stimulate the nerve cells that the scientists believe control the complex process of swallowing.

Similar techniques were successfully used by German researchers earlier this year to stimulate cerebral nerve cells in rats.

“When people have a stroke, the parts of their brain that control the muscles in the mouth and throat are often damaged and we have to find ways to reactivate these regions,” Doeltgen said.

The initial results of the study, which has received governmental funding of AU\$ 300,000 (US\$ 313,000), are expected to be released in 2 to 3 years.



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Congress programme AEEDC 2012

Tuesday, 31 January, 2012

Chairpersons:

Mohd Mansoor, Rashid Al Abed

09:30–10:15

The Endodontic success:
How to access, shape and clean

10:15–11:00

Endodontic re-treatment:
Achieving success the second time (Part 1)

11:00–11:15

Break

11:15–12:00

Endodontic re-treatment:
Achieving success the second time (Part 2)

12:00–12:45

Cytotoxicity of dental resins-containing
restorative materials

Sponsored by Listerine

Chairpersons: Ferzad Mohd Al Awadhi,
Mohammed Suleiman

09:30–10:00

Limits of GBR in oral implantology

10:00–11:00

Peri-implant complications: A periodontal
perspective

AD

11:00–11:15

Break

11:15–12:15

Oral antiseptics:
Impact on health

12:15–12:45

Enhancing dental treatment
with lasers

Sponsored by Crest

Chairpersons: Mohammed Koleilat,
Manuel S. Thomas

09:30–10:15

Advances and challenges in
cranio-maxillofacial trauma management

10:15–11:15

Orthognathic Surgery Alters Jaw-Neck
Motor Behaviour

11:00–11:15

Break

11:15–12:00

Biomimetics
in Oral Rehabilitation

12:00–12:45

"Composite in perfection" –
Implementable retoration concept for daily
practice

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Chairpersons:
Moosa Abu Zaida, Sasil Poonnen

09:30–10:00

Laminated veneer in the lab

10:00–11:00

Non-prep veneers: Possibilities and limita-
tion

11:00–11:15

Break

11:15–12:00

Review of treatment modalities for the over
closed vertical dimension, i.e. correcting
deep overbites and improving brachy-facial
profiles

12:00–12:45

Outpatient surgical-orthodontics

Chairpersons:

Saffeena Azeez, Laila El Habashy

14:00–14:45

Revascularization therapy of permanent
tooth with immature roots

14:45–15:30

Recent trends in the management of trau-
matic injuries to primary teeth

15:30–16:00

Space maintenance as interceptive trend

16:00–17:00

Occlusal Asymmetries: Aetiology, preva-
lence, diagnosis and treatment (Part 1)

17:00–17:30

Whitening, the foundation of aesthetic den-
tistry

Sponsored by Listerine

Chairpersons:
Khalid Farghali, Yaser Alasousi

14:00–14:30

Contemporary view of caries and what con-
stitutes treatment

14:30–15:00

New indications in aesthetic dentistry:
Closing diastemas with minimally invasive
techniques

15:00–15:30

Local haemostasis technics after tooth ex-
tractions and minor oral surgeries in pa-
tients with blood coagulation disorders

15:30–17:30

Composite & restorations: can everyday
dentistry be...aesthetic?

Presented by Crest

Chairpersons: Anwar Alkhaja,
Rukaya Abdulraouf Al Awar

14:00–14:45

Precautions, Concepts and Discussions Re-
quired Prior to Third Molar Extraction Sur-
gery

14:45–15:15

How much caries should be removed for a
filling

15:15–16:00

Pulp repair or regeneration: New strategies

16:00–16:45

Regenerative Medicine: Status and future
potential

16:45–17:30

Bisphosphonates associated avascular
Osteochemonecrosis of the jaw:
Prevention and treatment are no more a
medical enigma

Presented by Colgate

Chairpersons:
Sufian Abusalim, Ahmed Halim Ayoub

14:00–14:45

Clinical indications of bone graft in peri-
odontal practice

14:45–15:30

Immediate implant: Basic concepts and cur-
rent clinical applications

15:30–16:00

Contemporary digital and aesthetic implant
dentistry: Using technology to improve
practice

16:00–16:45

Bone regeneration at dehiscence-type
defects with a novel PEG-technology
membrane impact of successful re-genera-
tion for long-term peri-implant stability

16:45–17:30

Practical approach to implant dentistry:
From diagnosis to delivery

Wednesday, 1 February, 2012

Chairpersons:

Ziad Salameh, Khaile Al Gergawi

09:00–10:00

Chairside and labside CAD/CAM systems:
Possibilities and limitations

10:00–10:30

Are all zirconia frameworks the same?

10:30–11:00

The way to a beautiful zirconia veneered
restorations

11:00–11:15

Break

11:15–12:00

How to achieve long-lasting full-ceramic
restorations using a CAD/CAM system at
chair-side

12:00–12:45

Zirconia in CAD/CAM dentistry

Sponsored by Listerine

Chairpersons:
Mir Asad, Zameera Mohammed

09:00–10:00

Gingival Recessions:
From aetiology to treatment

10:00–11:00

New trends and proven concepts for chal-
lenging cases in therapy with implants
from single tooth replacement to edentu-
lous case restoration

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**11:15–12:15**

The bone ring technique:
New augmentation perspectives in implant
dentistry. Method and 5-year clinical obser-
vations

12:00–12:45

Potentially malignant disorders

Sponsored by Crest

Chairpersons:
Neeraj Khanna, Emad Abu Sirdana

09:00–09:45

Evaluation of imaging modalities for the
diagnosis of bisphosphonate-related osteo-
necrosis of the jaws

09:45–10:15

Pregnancy and dental X-rays

10:15–11:00

New technologies in dentistry

11:00–11:15

Break

11:15–12:00

Interceptive orthodontic treatment in the
mixed dentition

12:00–12:45

Occlusal asymmetries: Aetiology, preva-
lence, diagnosis and treatment (Part 2)

Sponsored by Colgate

Chairpersons:
Shoaib H. Siddiqui, Ayman Balshe

09:00–9:30

Alternative therapeutic approach to Tem-
poromandibular Joint Disorder

09:30–10:00

Overcome neck & upper back pain: Prevent-
ing neck & upper back pain in dental profes-
sionals

10:00–11:00

Contemporary approaches for managing
dentin hypersensitivity

11:00–11:15

Break

11:15–12:15

Systemic health and the management of
gingival inflammation through the use of
anti-bacterial and anti-inflammatory agents

12:15–12:45

Contributions and limits of endodontic ther-
apy in the treatment of radicular cysts and
peri-apical lesions

Chairpersons:

Jumana Sabbarini, Moustapha Saad

14:00–14:30

Primary and secondary surgery in cleft lip
and palate deformity

14:30–15:30

Anticipatory guidance and management of
patients with cleft lip and palate from in-
fancy through adolescence(joint lecture)

15:30–16:00

Challenges in paediatric dentistry

16:00–16:45

Advanced gingival aesthetic

16:45–17:30

The art of the complete exam:
Implementing digital photography & diag-
nostic records for predictable success

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Chairpersons: Najiya Ayoob
Hassan, Nadia Mohd Saleh

14:00–14:45

Sterilization best practices

14:45–15:30

Building a dental practice business plan

15:30–16:15

How to mould every technology aspect to
bringing your clinic to the new era

16:15–17:00

Anterior maxillary restorations

17:00–17:30

Tooth discolouration: Aetiology & manage-
ment

Sponsored by Crest

Chairpersons:
Dina Debaybo, Robert Edwab

13:45–14:15

Facial prostheses

14:15–14:45

Laser—the modern tool for selective caries
removal, painless cavity preparation and
CAD/CAM techniques in aesthetic den-
tistry

14:45–15:30

The clinical application of lasers and princi-
ple-based patient care

15:30–16:30

Intraoral imaging: A comparison of systems
in the identification of root fractures

16:30–17:30

Who needs conscious sedation in dentistry?
—A novel assessment tool

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Chairpersons:
Kaveh Seyedan, Boukais Hamid

14:00–14:45

Contemporary all-ceramic restorations:
Decision making

14:45–15:30

The use of electrobond improves microten-
sile bond strength and reduces nanoleak-
age expression of dental adhesives

15:30–16:15

What's new in endo instruments

16:15–16:45

The endodontist vs. the implantologist
—A tug of war

16:45–17:30

Modern microsurgical endodontics: Raising
the bar

Thursday, 2 February, 2012

Chairpersons:

Saad Al Bayatti, N. Santana

09:00–09:30

Global trends in caries epidemiology

09:30–10:15

Blood-borne exposures in dentistry

10:15–11:00

The blessing of mother nature:
A herbal revolution

11:00–11:15

Break

11:15–11:45

Health behaviour and public dental health

12:00–12:45

Critical review of Matrix systems for poste-
rior composite restorations

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Chairpersons: Fuad Al-Dowikat,
Ahmed Adam Moneim

09:00–09:30

Cosmetic gingival surgeries

09:30–10:15

Nasoalveolar molding (NAM) therapy in in-
fants born with clefts of the lip, alveolus,
nose and palate

10:15–11:00

Traumatic injuries to permanent teeth:
A paediatric dentist's perspective

11:00–11:15

Break

11:15–12:00

Dental sleep medicine & Temporomandib-
ular Disorders: The medical/dental connec-
tion

12:00–12:45

Computer-controlled local anaesthesia de-
livery: New state-of-the-art technology and
dental injections

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Chairpersons:
Steen Sindet-Pedersen, Paul Tipton

09:00–09:40

Conservative dentistry, endodontics
and prosthodontics applications with
Er,Cr:YSGG

09:40–10:20

Soft tissue and perio pocket with
Er,Cr:YSGG

10:20–11:00

Minimally invasive laser oral surgery

11:00–11:10

Break

11:10–13:10

Interdisciplinary Approach for Better
Aesthetic Results

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Chairpersons: Hasan Ahmad Al Seed,
Zuhair Al Khatib

09:00–09:45

Endodontics:
High-Tech or Appropriatech?

09:45–10:15

The Endodontic-Peridontic Lesion,
A Clinical Dilemma

10:15–10:45

Crestal Bone Loss Around Dental Implants,
Follow-Up 1 To 5 Years Of Functional Load-
ing

10:45–11:15

The Inman Aligner

11:00–11:15

Break & Exhibition Visit

11:15–12:00

How Can We avoid Implant aesthetic com-
plications

12:00–12:45

Combing Invisalign
with Dental Implants

Chairpersons:

Khaldoon A Sharaa, Reem A. Hallak

14:00–14:45

Treatment options for the wear case

14:45–15:30

Smile design from a new aspect

15:30–16:00

Oral health survey methodology

16:00–16:45

Inside the cosmetic world up-to-date

16:45–17:30

Harmonious communication between den-
tists and laboratory for best prosthetic result

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Chairpersons:
Rachwan Koutoby, Basim Bo Hawas

14:00–15:00

Latest concepts of Minimally Invasive
aesthetic dentistry in the 21st century

15:00–15:45

Different materials and techniques in
cosmetic veneers

15:45–16:45

Computer-guided implantology:
The New Deal

16:45–17:30

The use of PRF in reconstructive dental
implant surgery

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Chairpersons: Ibtisam Al-Hashimi,
Donald Ferguson

14:00–14:45

Periodontal corrective considerations

14:45–15:30

Better orthodontic results with the right
bracket selection: Essential hints and tips to
make the prescription work for you

15:30–16:15

“Papacarie”—A new chemo-mechanical
means of caries removal in children

16:15–16:45

Alternative interventions to formocresol as a
pulpotomy medicament in primary dentition

16:45–17:30

CT-scan based guided implant surgery us-
ing a relined denture during the osseointe-
gration period: A prospective study

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Chairpersons:
Viday M. Dodwad, Shamma Al Ali

14:00–14:45

Applied strategic planning—A recipe for
success

14:45–15:15

WHO policies for public health action to
improve oral health—global and regional
perspectives

15:15–16:00

Tempromandibular Joint—What we have to
know?

16:00–16:45

Functional Occlusion: The fundamentals of
predictable dentistry

16:45–17:30

Physical and biotechnological means in re-
generative dentistry

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