



# IAPD

## Athens

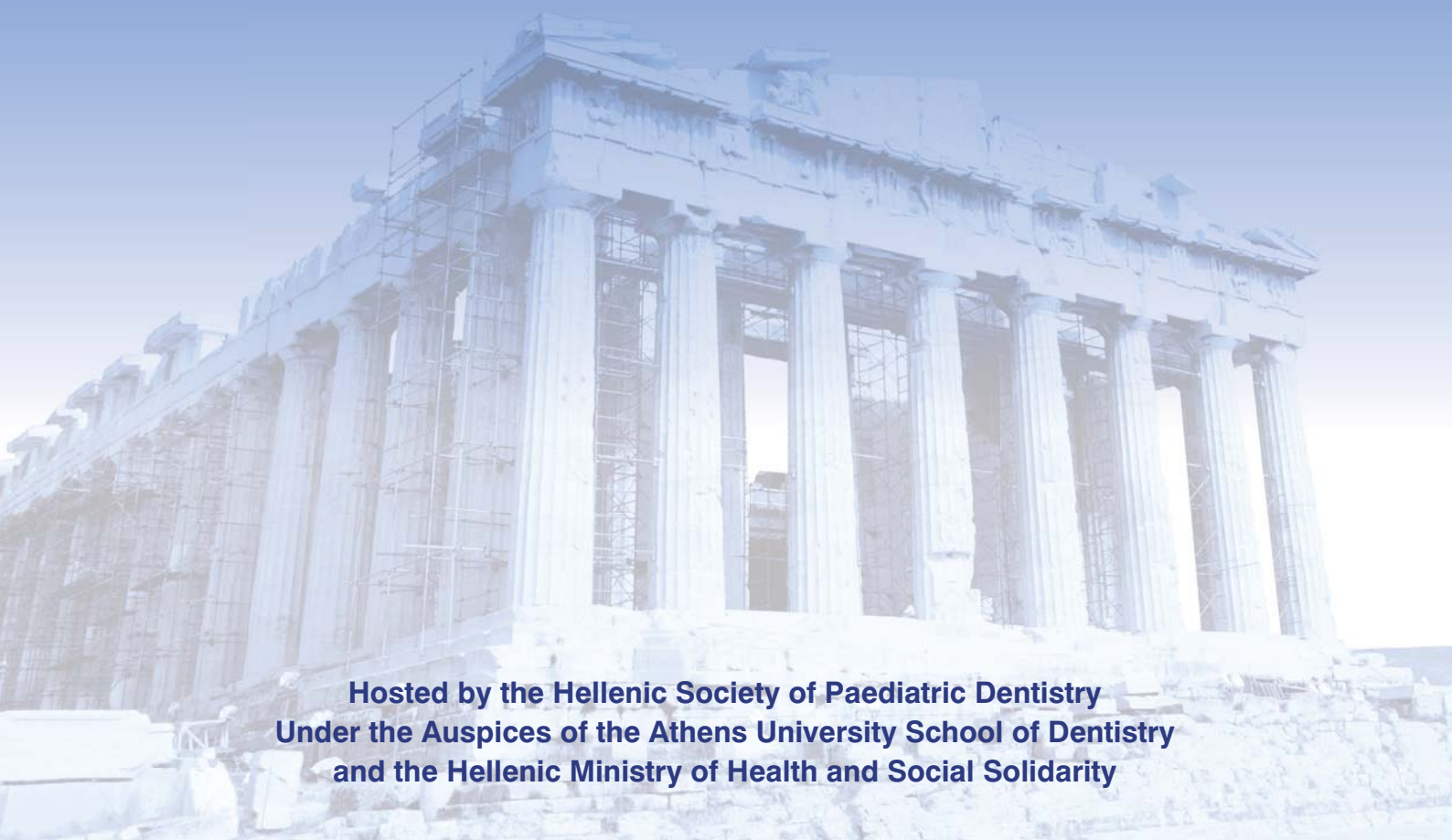
### 2011

June 15-18, 2011 Athens, Greece

Main Theme:

**Interdisciplinary Approach to Paediatric Dentistry**

## PROGRAM



Hosted by the Hellenic Society of Paediatric Dentistry  
Under the Auspices of the Athens University School of Dentistry  
and the Hellenic Ministry of Health and Social Solidarity

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IAPD  
Athens  
2011



23rd Congress of the International Association of Paediatric Dentistry

June 15 - 18, 2011  
Athens, Greece

## PROGRAM

Chair Local Organizing Committee  
**Prof. Lisa Papagiannoulis**

UNDER THE AUSPICES OF



Ministry  
of Health



Athens University  
School of Dentistry



City of  
Athens



Hellenic Dental  
Association



Athens Dental  
Society

<sup>1</sup>) Van der Weijden GA et al. J. Dent. Res. 2006; 85 (Spec. Iss. B): Abstract No. 2266





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As a leading innovator in dental products, 3M™ ESPE™ Stainless Steel Crowns provide reliable solutions that dentists have trusted for decades.

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*“I know of no dental restorative product that has more “clinical sense” built into it than the 3M ESPE Preformed Stainless Steel Crowns. The axial contours, occlusal anatomical form, full range of sizes, and remarkable value, make these crowns **one of the best restorative products ever produced** for dentists. When used with RelyX™ Luting Cement from 3M ESPE, I have had great success with these crown forms and **consider them indispensable.**”*

Theodore P. Croll, D.D.S.

3M™ ESPE™  
Stainless Steel Crowns



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# Όλα γίνονται παιχνίδι!



Το Θεραπευτικό Πρόγραμμα "Clown Doctors" του Σωματείου "Φίλοι Κοινωνικής Παιδιατρικής - Ανοιχτή Αγκαλιά" είναι ένα πρόγραμμα υποστήριξης νοσηλευόμενων παιδιών που λειτουργεί σε παιδιατρικά νοσοκομεία του Λεκανοπεδίου Αττικής.

Πρωταγωνιστές του προγράμματος, οι Clown Doctors, εξειδικευμένοι επαγγελματίες οι οποίοι σε συνεργασία με τις νοσηλευτικές ομάδες, μεταδίδουν το χαμόγελο και τη χαρά μέσα από στιγμές παιχνιδιού, τόσο στα παιδιά όσο και στους γονείς τους.

Η Alpha Bank, επί σειρά ετών, στηρίζει το πρόγραμμα "Clown Doctors" με στόχο να επεκταθεί και στις ακριτικές περιοχές της χώρας.

**Μαζί, ο κόσμος γίνεται καλύτερος.**



ΚΟΙΝΩΝΙΚΗ ΕΥΘΥΝΗ  
ALPHA BANK



**ALPHA BANK**



# Effective total health care of the child: How to establish healthy tooth brushing in your child patients

## 23rd IAPD Athens, 15 - 18 June 2011



### BRUSH DAY + NIGHT

### Visit the Stand

## AIM

Visit us in Unilever Booth at Level 0 - Muses  
Foyer for more information and material

### Lunch and Learn Session

**"Brush Day and Night:**  
Effective Ways to Deliver  
the Message in Practice"

HALL MC3  
Saturday 18<sup>th</sup> June  
13.30-14.15

Speaker: **Andreas Agouropoulos DDS, MSc**

It is very well documented that brushing with fluoridated toothpaste is an effective and safe method for caries prevention. Although this is very well known, data show that children do not brush their teeth appropriately. Changing habits can be very challenging in every day practice, for dentists who treat children. Using the tools under the theme **"Brush day and night"** by Unilever, the message can be delivered easier, in a more fun way. This can be done at a one to one basis in the dental office, or at the community with outreach programs. In this presentation, practical problems in delivering the message **"Brush day and Night"** will be discussed and solutions for overcoming them will be suggested using the appropriate tools.



BRUSH  
DAY + NIGHT



FDI recognizes that twice daily brushing with a fluoride toothpaste is beneficial to oral health



## WELCOME MESSAGES





On behalf of the Board of Directors, it is with great pleasure that I welcome you to the 23rd Congress of The International Association of Paediatric Dentistry, hosted by the Hellenic Society of Paediatric Dentistry in Athens, Greece.

The IAPD is an organisation which has grown significantly over the last few years and represents the interests of all members of the dental team who are interested in the oral and dental health of children.

Every two years we host a congress and this gives all members of the Association the opportunity of assembling in one place to listen to wide range of lectures and presentations from keynote speakers from around the world, as well as the many hundreds of presentations and posters from members of our association. At the time of writing there are almost 1300 registrants and over 700 papers. This is a fantastic endorsement for us and demonstrates that our discipline is healthy and vibrant. A large proportion of the participants are students and junior dentists in training. It is important that our trainees have the opportunity to take part in these congresses since they are the future of our discipline.

The local organisation team have worked extraordinarily hard to make this a memorable congress. The scientific programme is designed to satisfy the interests of all of us, and also to give us time to continue the discussions in less formal surroundings. The team have also put on a wide range of social events which give us all the opportunity of mixing and catching up with old friends as well as the best opportunity of making new friends.

Enjoy the congress, and over the next few days I hope to be able to meet and speak to as many of you as possible.

**Professor Mark Hector**  
**President of the International Association of Paediatric Dentistry**



Dear Participants of the Athens 23rd IAPD Congress

It is my great pleasure to welcome you on behalf of the National and Kapodistrian University of Athens, the oldest Higher Education Institution in Greece.

I consider a great honor for the Athens University that the International Association of Paediatric Dentistry (IAPD) has decided to hold its 23d biennial Congress in Athens, recognizing the excellent level of pediatric dentistry in this Country, a level to which our Athens Dental School has contributed immensely.

The Hellenic Society of Paediatric Dentistry (HSPD), who was trusted with the organization of this congress and is doing so in collaboration with the Department of Paediatric Dentistry of our University, was founded in 1961. This year this Society celebrates 50 years of active presence in the field of oral health care for children, adolescents and special patients in our Country.

The long and uninterrupted contribution of HSPD in the improvement of the oral health of children and adolescents has been recognized by The Academy of Athens who awarded the Society their diploma of Honor.

The good collaboration of the Department of Paediatric Dentistry with the HSPD had as a result Paediatric dentists and general practitioners to improve significantly the oral health of children's population in Greece as it was found in a recent epidemiological survey.

Our University is very proud for the education level of the Athens Dental School. The Dental School has been evaluated twice by an international committee and is accredited as one of the best Dental Schools in Europe. Furthermore the Post Graduate program of the Department of Paediatric Dentistry has been evaluated according to the Post - Graduate Education standards of EAPD and is recognized as an accredited specialist education program in Paediatric Dentistry from 2002 up to 2015.

The 23rd IAPD Congress has a very interesting scientific program which has been designed in a way that the obtained knowledge could be directly incorporated into the everyday clinical practice.

I wish you a very profitable participation in the Congress and a very pleasant stay in Athens.

**Professor Theodosios Pelegrinis**  
**Rector of the National & Kapodistrian University Of Athens**





It gives me indeed real pleasure but also great honor, as President of the Hellenic Society of Paediatric Dentistry, to welcome you all in Athens for the 23rd Congress of IAPD.

Athens, being one of the most historical and beautiful capitals in Europe, is one more time ready to offer all our guests unique and exciting feelings. History, culture, science and academia, mediterranean character, entertainment and gastronomy, tradition and modernization, natural scenery by the sea and world known hospitality, would combine resulting to an unforgettable experience.

The scientific program of the Congress, including the most contemporary and 'hot' subjects of our specialty presented by internationally distinguished colleagues would significantly advance our scientific knowledge. In addition to the guided program, 766 abstracts, the greatest ever number for such an event, would keep up updated with new developments all over the world in areas related to our profession.

All the above were made possible following the unprecedented effort of the sixteen members of the local organizing committee, under the inspiring leadership of Professor Lisa Papagiannoulis and the touching response from all our colleagues and friends all over the world. I wish to thank them all.

This year together with the 23rd IAPD Congress, the Hellenic Society celebrates its 50th anniversary, as it was founded in 1961 and 5 years later in 1966, it became one of the founding member-Societies of IAPD. Since then and under the enlightened guidance of distinguished colleagues, the Society plays the most important role for our specialty in our country. Organization of International and European Congresses, National Congresses, annual and seasonal Seminars of continuous education, publications including a scientific Journal, collaborations with other international societies, public and community activities, participation to national Health committees and professional support are some of the activities that have established the Society, both nationally and internationally. Nowadays, counting more than 400 members, including 200 fully trained paediatric dentists, is regarded as one of the strongest professional bodies in our country. As a result of the previous achievements and our involvement in international affairs, the International Association of Paediatric Dentistry entrusted us for second time, the first being in 1989, the organization of the International Congress. We feel much honored and we declare our determination to organize a memorable event.

On behalf of the hosting Hellenic Society of Paediatric Dentistry, I wish you all an unforgettable stay in Athens enjoying scientific brain storming, travel and leisure experience, meeting friends and above all getting the best of what our country and people really represent.

**Dr. Nick Lygidakis**  
**President of the Hellenic Society of Paediatric Dentistry**



Dear Colleagues and Friends,

It is a great pleasure for me to welcome you to the 23rd IAPD Congress in Athens. All the members of the Organizing Committee would like to thank you for honoring this Congress with your scientific work and your presence.

The extended promotion efforts of the committed Local Organizing Team were reinforced by the warm and enthusiastic response of our colleagues from all the Paediatric Dental Academies and Societies that we visited during the last 2 years. Moreover, despite the difficult economic situation in Greece and worldwide, the commercial companies were convinced by our efforts to contribute adequately to the sponsoring of the Congress.

The most unexpected financial support came from the Australasian Academy and the Australian, New Zealand Society of Paediatric Dentistry who sponsored 3 main Lectures and the IAPD Pre-Congress Clinical Day course, respectively.

This Congress had from the beginning the recognition and generous support of the Dental School of the University of Athens and the Hellenic Ministry of Health and Solidarity. Also, the Hellenic Dental Association and the Athens Dental Society actively supported this Congress from the start.

From the year 2005 in Sydney, when the HSPD was given the responsibility of organizing the present Congress, till now we had the full support of the IAPD Board.

This Congress, within the context of the main theme, Interdisciplinary Approach to Paediatric Dentistry, presents the need that all health professions should work together towards the well-being of the child, the adolescent and the patient with special needs.

This year the Scientific Program includes one Pre-Congress Symposium, two Clinical Continuing Education Hands-on Courses and one Postgraduate Student Workshop.

The main Scientific Program consists of 6 Symposia, 1 Debate and 15 Invited Lectures. More than 60 speakers, distinguished in their area, will cover almost every aspect of the oral health care of the child and encourage the application of the scientific knowledge to the every-day clinical practice.

An important component of the Scientific Program is the oral and poster presentation sections. This year 766 abstracts have been submitted, from those 166 have applied for the BSBF, Morita and Jens Andreasen Awards.

With the help of the experienced coordinators and chairpersons but also with your contribution the Symposia, the Invited Lectures and the Poster Sessions will be interactive, challenging and rewarding.

Finally the Organizing Committee has done its best to plan a social program with a variety of events so to be both entertaining and interesting for you and your accompanying persons.

I wish you a rewarding Congress and an enjoyable stay in Athens.

**Professor Lisa Papagiannoulis**  
**Chair of the Local Organizing Committee**



# i-Kids

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Independent studies show the innovation and effects of the MAM Perfect, developed together with dentists and paediatricians: Its exceptionally thin teat neck and especially soft material were tested in comparisons. The experts personally agree. Less pressure on teeth and jaws supports healthy dental development.

- **Prof. Dr. Hans-Peter Bantleon**, Head of the Department of Orthodontics, Dental University Clinic Vienna, Austria: „Even soothers claiming to be especially tooth friendly demand far more effort than the MAM Perfect.“
- **Prof. Dr. Reinhold Kerbl**, Head of the Department of Paediatrics, Regional Hospital Leoben, Austria: „The jaw spacing with the new MAM Perfect and its especially slim neck and soft material is significantly closer.“
- **Dr. Yvonne Wagner**, Dentist, Jena University Clinic, Germany: „The extra thin and soft teat neck of the MAM Perfect minimises the pressure on baby's jaw. This reduces the risk of malocclusions.“

More information about the studies at [mambaby.com](https://mambaby.com)

\*On average: 53 – 78% thinner / 1.50 – 5.33 times softer than regular silicone soothers



CONFERENCE  
INFORMATION



## Committees

### Organizing Committee

- **Chair:** Prof. Lisa Papagiannoulis
- **President of HSPD:** Dr. Nick Lygidakis
- **Secretary General:** Dr. Anna-Maria Vierrou
- **Executive Secretary General:** Dr. Andreas Agouropoulos
- **Treasurer:** Assoc. Prof. Constantine Oulis

### Scientific Committee

- **Chair:** Assoc. Prof. Constantine Oulis
- **Members:**
  - Prof. Lisa Papagiannoulis
  - Prof. George Eliades
  - Assist. Prof. Katerina Kavvadia
  - Dr. Sotiria Gizani
  - Assoc. Prof. Nick Kotsanos
  - Dr. Andreas Agouropoulos

### Social Program Committee

- Dr. Sofia Geki
- Dr. Andreas Agouropoulos
- Dr. Anna-Maria Vierrou

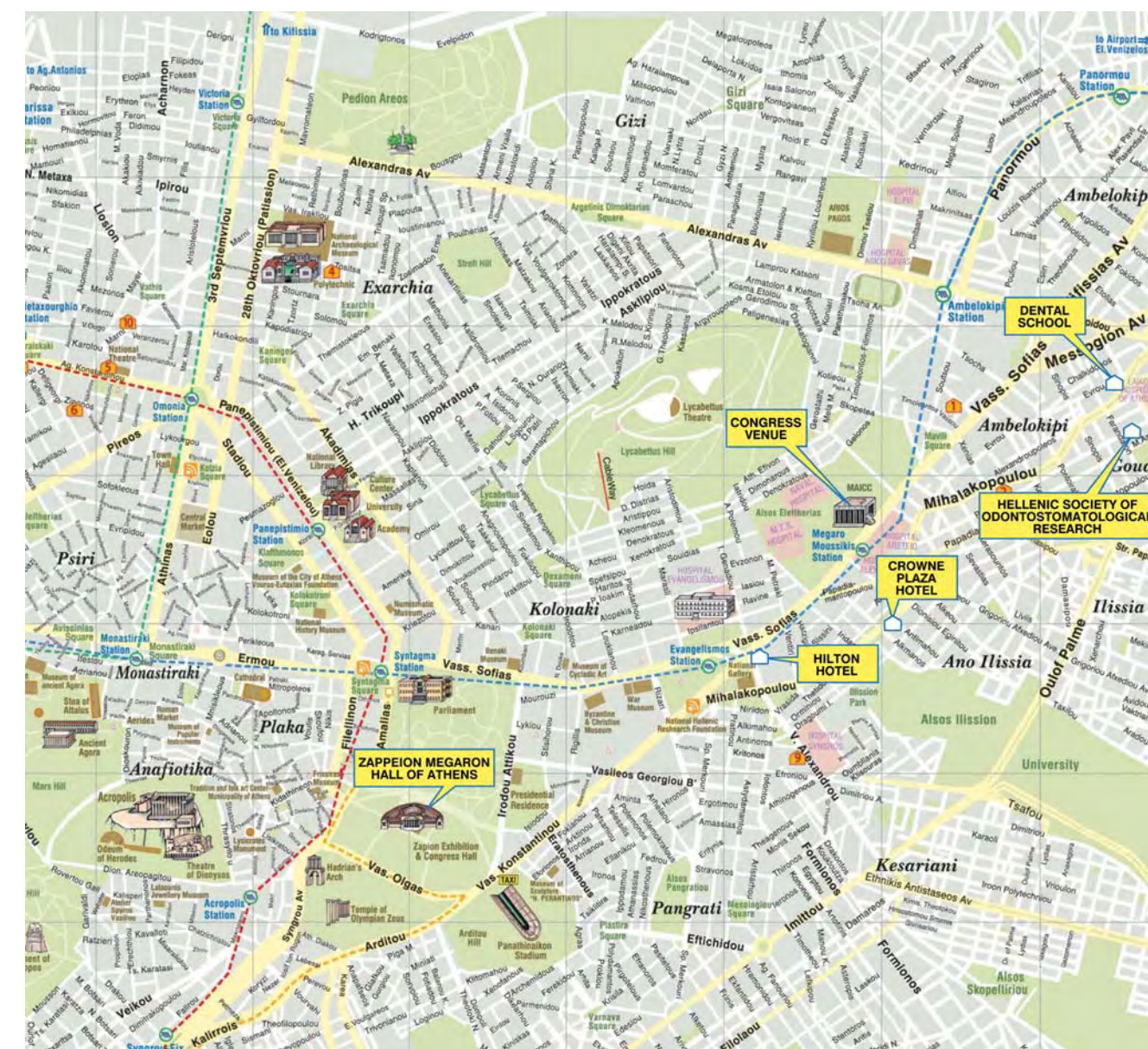
## Conference Organiser



Specialists in association management and international conference organization. The Group provides integrated services in the entire spectrum of conference organization, corporate events and marketing communications. It holds a leading position in Southeast Europe having successfully delivered over 1,900 international events and conferences with participation from 200 to 20.000 delegates.

For more information please visit [www.candc-group.com](http://www.candc-group.com)

## Map





# EXCELLENCE in Dentistry

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► A groundbreaking international conference in the field of restorative dentistry, designed by the leading global experts in Periodontology, Implantology and Aesthetics and produced exclusively for their peers and colleagues to collectively learn from their latest developments and discoveries. Excellence in Dentistry is the annual one-stop-shop for all restorative dentists!

## Why attend?

- Usable innovations & discoveries – cutting-edge findings into clinical practice
- Breaking the mould of boring conferences – novel programmes, formats, structure & delivery
- Capped audiences, lunch with the experts, roundtables and 'hotspot' networking zones
- Book of Abstracts published as a supplement in *Clinical Oral Implants Research* Journal
- Designed & Researched by the global KOLs
- 10 Topic Blocks covering: Aesthetics, Periodontics, Implants, Dental Materials and many more...
- Inter-specialism debates: Looking at how the different facets of dentistry can learn from each other and which approach is best for certain condition



## Year Round Learning

Stay tuned for exclusive interviews, round tables / debates! Soon available at [www.excellence-in-dentistry.org](http://www.excellence-in-dentistry.org)

Deadline for "early bird" registration **2 September 2011**

Deadline for abstract submissions **30 November 2011**



[www.excellence-in-dentistry.org](http://www.excellence-in-dentistry.org)



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Association Management  
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Strategy & Communication

## PROGRAM

## Venue Plan

### LEVEL 1

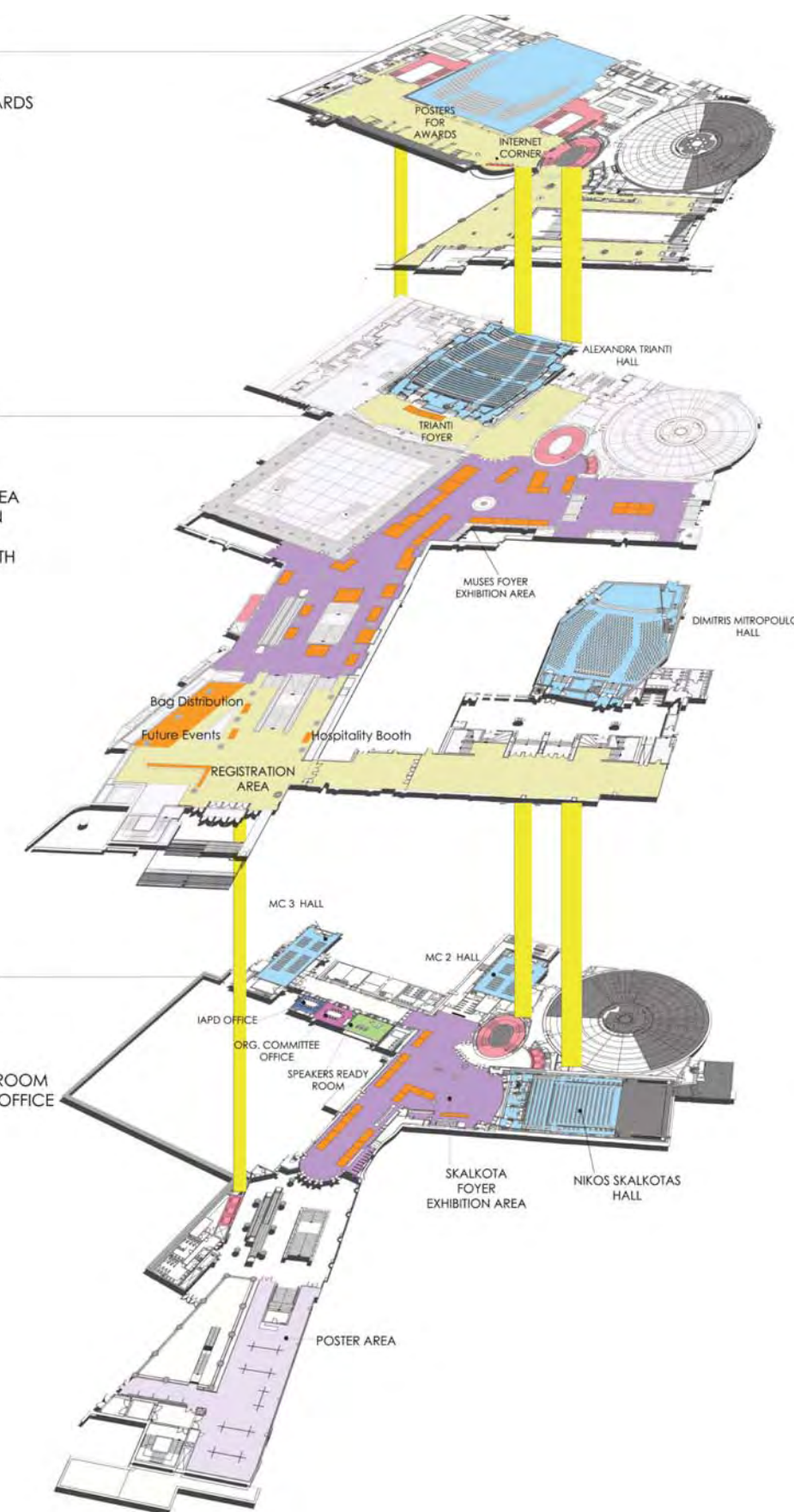
INTERNET CORNER  
POSTERS FOR AWARDS

### LEVEL 0

EXHIBITION AREA  
CONGRESS HALLS  
REGISTRATION AREA  
BAG DISTRIBUTION  
FUTURE EVENTS  
HOSPITALITY BOOTH

### LEVEL -1

EXHIBITION AREA  
CONGRESS HALLS  
POSTER AREA  
SPEAKERS READY ROOM  
ORG.COMMITTEE OFFICE  
IAPD OFFICE



## Important Information

### Congress Venue

Megaron Athens International Conference Centre

Vas. Sofias & Kokkali,

115 21, Athens, Greece

Tel.: +30 210 7282333

### Official Language

The official language of the Congress is English.

### Exhibition

Running alongside the Congress will be a commercial exhibition featuring exhibitors from the international dental and oral health sector.

### Name Badges & Congress Material

Name badges and congress material will be provided on-site to registered delegates at the Congress Registration Desk.

All delegates are kindly requested to wear their name badge during all Congress functions.

### Certificate of Attendance

All registered delegates are entitled to a certificate of attendance. Certificates can be collected at the Congress Secretariat on the last day of the congress upon submission of the evaluation form.

### Continuing Education Credits

All registered delegates should contact the National Dental Association in their country, regarding CE credits for attending the Congress.

### First Aid

First Aid is provided on site. In case of emergency, please notify the Congress Secretariat.

### Liability and Insurance

Delegates are advised to arrange health and accident insurance before travelling to the Congress. The Congress Organiser cannot accept liability for personal injury or loss/damage to property and belongings of delegates during the Congress or their stay in Athens.

### Mobile Phones

Delegates are kindly requested to switch off their mobile phones during the congress sessions.

### Program Changes

Due to circumstances beyond the control of the Congress Organiser, last-minute changes to the programme may be unavoidable. All information included in this programme is accurate until the day of printing, 30 May 2011.

## Social Program

### Opening Ceremony & Welcome Reception

Date: Wednesday, **June 15, 2011**

Time: **19.30**

Venue: **Megaron Athens International Conference Centre**

Hall: **Alexandra Trianti Hall and Foyer**

Dress Code: Casual

Ticket: **All registered delegates are invited to participate**

### Gala Dinner

Date: Friday, **June 17, 2011**

Time: **21.00**

Venue: **Zappeion Hall – the Peristilio** (Vasilissis Olgas Avenue, Athens City Centre)

Dress code: Formal

Ticket: **90€ per person**

*Included: Seated dinner with local wines and drinks, music entertainment.*

Closest Metro Station: Syntagma Station, 400m

*For special food request (vegetarian) please contact the hospitality desk at the registration until Thursday, June 16, 18:00*

### Closing Ceremony

Date: Saturday, **June 18, 2011**

Time: **16.00**

Venue: **Megaron Athens International Conference Centre**

Hall: **Dimitris Mitropoulos Hall**

Ticket: **All registered delegates are invited to participate**

### Farewell Party

Date: Saturday, **June 18, 2011**

Time: **21.00**

Venue: **Grand Resort Lagonissi, Beach 1 & 2** (40th km Athens-Sounion, 190 10 Attica East Coast )

Dress code: Smart casual

Ticket: **55€ per person**

*Included: Transfers to/from Grand Resort Lagonissi, Greek barbeque buffet dinner, music entertainment, dancing and happenings*

**Meeting Point:** Athens Hilton Hotel and Megaron Athens International Conference Centre

**Departure Time:** 20.00



## Registration

You may register on-site at the Congress Secretariat, which will be operating at the following dates and times:

15 June 2011	11:00 - 20:30
16 June 2011	08:00 - 17:30
17 June 2011	08:00 - 17:30
18 June 2011	08:00 - 17:00

### Congress Registration Fees (VAT included)

REGISTRATION TYPE	PARTICIPATION TO THE 23rd IAPD CONGRESS		
	until May 31	ON-SITE Full Registration	ON-SITE Day Pass
IAPD & HDA Members	470€	570€	160€
Non IAPD / HDA Members	590€	690€	190€
Honorary / Senior / Supported Members	290€	380€	100€
Dental Auxiliaries	290€	380€	100€
Postgraduate students	290€	380€	100€
Undergraduate students	130€	130€	60€
Accompanying persons	130€	130€	-

All prices are quoted in Euros (€)

\* Postgraduate or Undergraduate students are kindly requested to provide the Professional Congress Organiser with a proof of their status

### IAPD Clinical Day: Basic Paediatric Dentistry clinical procedures

Free entrance. (Up to 36 attendants)

### Pre-Congress Hands-on Seminar: The use of MTA in primary and permanent teeth

Free entrance. (Up to 40 attendants)

### Pre-Congress Symposium: Management of children with developmental behavior disturbances

Participation fee: 80€ per person (Up to 100 attendants)

### Pre-Congress Postgraduate Student Workshop: Oral medicine, oral pathology

Free entrance. (Up to 80 attendants)

### Lunch and Learn Sessions (free entrance)

Dentsply Detrey (June 16) • 3M (June 17) • Unilever (June 18)

### Registration Entitlements for all types (full registration):

• Participation in all scientific sessions • Entrance to the exhibition area • Participation in the Opening Ceremony • Participation in the Closing Ceremony • Participation in the Welcome Reception • Congress Materials • Coffee Breaks • Light Lunches

### Registration Entitlements for Accompanying persons:

• Entrance to the exhibition area • Participation in the Opening Ceremony • Participation in the Closing Ceremony • Participation in the Welcome Reception

### Registration Entitlements for Day Pass:

• Participation in all scientific sessions of the day • Entrance to the exhibition area • Coffee Breaks • Light Lunches

NOTE: You can pay your registration fee by cash or credit card (Visa, MasterCard). Personal cheques are not accepted.

## Information for Speakers

### Audiovisual equipment

A Speaker's Ready Room will be operating throughout the duration of the Congress (MC 3.2). Speakers are kindly requested to hand in their presentation (USB-key, CD-ROM, DVD) at least one (1) hour before their scheduled presentation time. If your presentation is scheduled early in the morning, you are kindly requested to check your presentation at the Speaker's Ready Room the day before. All versions of MS Power Point are accepted, including Mac. If you are using embedded video clips in your presentation, please remember to submit video files separately. The following equipment will be available:

- PC
- Data video projector (Power Point presentations)
- Laser Pointer

### Oral Presentations

If you are presenting an oral podium presentation, you are kindly requested to observe the following points:

- Please declare any relevant links to industry or other conflicts of interest at the beginning of your presentation
- Please speak slowly and clearly. English is the working language of the conference, but not necessarily the native language of the delegates.

### Poster Presentations

For Posters to be exhibited, please note the following:

- The necessary material for displaying the posters will be available in the poster areas.
- Poster panel numbers will be displayed at the top of the panels.
- The corresponding poster panel number for each poster presented has been provided by the Congress Organisers, along with abstract presentation guidelines.
- As a courtesy to other presenters, participants are kindly requested not to move or remove posternumbers or change the order of the assigned poster boards.
- It is essential that presenters clear their poster board promptly and within the scheduled time. Material left on a poster board after the removal deadline will be discarded.
- The Conference Organisers are not responsible for materials left behind or that are stolen or damaged.

## Mounting and dismantling of posters

### Poster Area: Congress Venue / Skalkotas Glass Level (-1)

**Presentation:** 16 June 2011

**Mounting:** 15 June 2011, 16.00 – 18.00

**Dismantling:** 16 June 2011, 17.30 – 18.00

**Presentation:** 17 June 2011

**Mounting:** 17 June 2011, 07.30 – 08.30

**Dismantling:** 17 June 2011, 17.50 – 18.50

**Presentation:** 18 June 2011

**Mounting:** 18 June 2011, 07.30 – 08.30

**Dismantling:** 18 June 2011, 15.30 – 16.30

POSTER SESSION CATEGORY	FROM POSTER NO.	TO POSTER NO.	DATE & TIME OF PRESENTATION
Orthodontics	P01-1	P01-24	Thursday, 16 - 09:00 - 11:00
Cariology 1	P02-25	P02-48	Thursday, 16 - 09:00 - 11:00
Dental Materials 1	P03-49	P03-72	Thursday, 16 - 09:00 - 11:00
Endodontics 1	P04-73	P04-90	Thursday, 16 - 11:30 - 13:00
Syndromes & Genetics 1	P05-91	P05-108	Thursday, 16 - 11:30 - 13:00
Dental Anxiety and Behaviour Management 1- Special Needs Patients 1	P07-126	P07-137	Thursday, 16 - 14:30 - 15:30
Dental Trauma 1	P08-138	P08-149	Thursday, 16 - 14:30 - 15:30
Special Needs Patients 3	P10-162	P10-179	Thursday, 16 - 16:00 - 17:30
Oral Pathology 1	P11-180	P11-197	Thursday, 16 - 16:00 - 17:30
Dental Materials 3	P13-213	P13-236	Friday, 17 - 09:00 - 11:00
Public Health	P14-237	P14-260	Friday, 17 - 09:00 - 11:00
Prevention 1	P16-281	P16-298	Friday, 17 - 11:30 - 13:00
Oral Medicine and Pathology 3	P17-299	P17-316	Friday, 17 - 11:30 - 13:00
Special Needs Patients 5	P19-335	P19-346	Friday, 17 - 14:30 - 15:30
Dental Anxiety and Behaviour Management 3	P20-347	P20-358	Friday, 17 - 14:30 - 15:30
Epidemiology 1	P22-367	P22-388	Friday, 17 - 16:00 - 17:30
Dental Anomalies 2	P23-389	P23-410	Friday, 17 - 16:00 - 17:30
Cariology 2/Microbiology	P24-411	P24-434	Saturday, 18 - 09:00 - 11:00
Dental Anomalies 3/ Growth & Development 2	P25-435	P25-458	Saturday, 18 - 09:00 - 11:00
Endodontics 2/Dental Trauma 3	P27-483	P27-500	Saturday, 18 - 11:30 - 13:00
Periodontology/Syndromes & Genetics 2/Special Needs Patients 6	P28-501	P28-518	Saturday, 18 - 11:30 - 13:00
Dental Trauma 4/TMJ/ Xrays/Education	P29-519	P29-536	Saturday, 18 - 11:30 - 13:00
Syndromes & Genetics 3	P30-537	P30-548	Saturday, 18 - 14:30 - 15:30
Cariology 4	P31-549	P31-559	Saturday, 18 - 14:30 - 15:30
Anaesthesia & Dental Anxiety and Behaviour Management 4	P32-560	P32-574	Saturday, 18 - 14:30 - 15:30

## Mounting and dismantling of posters submitted for IAPD awards

**Poster Area:** Congress Venue / Trianti Foyer Upper Level

### BSBF

**Mounting:** 15 June 2011, 10.00 - 11.00

**Dismantling:** 18 June 2011, 15.00 - 17.00

### MORITA PRIZE & JENS O. ANDREASEN AWARDS

**Mounting:** 15 June 2011, 16.00 - 18.00

**Dismantling:** 18 June 2011, 15.00 - 17.00

POSTER SESSION CATEGORY	FROM POSTER NO.	TO POSTER NO.	DATE & TIME OF PRESENTATION
Morita Prize 1- Clinical Research - Dental Materials 2, Growth and Development 1, Others	P06-109	P06-125	Thursday, 16 - 11:30 - 13:00
Morita Prize 2- Clinical Research- Dental Anxiety and Behavioural Management 2- Special Needs Patients 2	P09-150	P09-161	Thursday, 16 - 14:30 - 15:30
Morita Prize 1- Case Report - Dental Anomalies- Dental Trauma 2- Others	P12-198	P12-212	Thursday, 16 - 16:00 - 17:30
Morita Prize 2- Case Report- Oral Medicine and Pathology 2- Special Needs Patients 4	P15-261	P15-280	Friday 17 - 09:00 - 11:00
Jens O. Andreasen Awards 1	P18-317	P18-334	Friday 17 - 11:30 - 13:00
Jens O. Andreasen Awards 2	P21-359	P21-366	Friday 17 - 14:30 - 15:30
Morita Prize 2- Clinical Research- Cariology 3- Epidemiology 2- Prevention 2- Other	P26-459	P26-482	Saturday 18 - 09:00 - 11:00



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**SCIENTIFIC  
PROGRAM**

## Program at a Glance

### Wednesday, 15 June 2011

	Hellenic Society of Odontostomatological Research	Crowne Plaza Hotel/ Mezzanine Level - Socrates A' Hall	Athens University School of Dentistry/ Simulation Laboratory	Athens University School of Dentistry/ Lecture Hall	Trianti Foyer Upper Level	MC3	Alexandra Trianti Hall & Foyer
8:30	<b>HANDS-ON SEMINAR</b> The use of MTA in primary and permanent teeth	<b>SYMPOSIUM</b> Management of children with developmental behavior disturbances	<b>IAPD CLINICAL DAY</b> Basic paediatric dentistry clinical procedures	<b>POSTGRADUATE STUDENT WORKSHOP</b> Oral medicine, oral pathology	BSBF Award Competition		
9:00							
9:30							
10:00							
10:30							
11:00							
11:30							
12:00							
12:30							
13:00							
13:30						IAPD Council Meeting	
14:00							
14:30							
15:00							
15:30							
16:00							
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18:00							
18:30							
19:00							
19:30							
20:00							
20:30							
21:00							
22:00							Opening Ceremony & Welcome Reception

### Thursday, 16 June 2011

	Alexandra Trianti Hall	Nikos Skalkotas Hall	MC 2	MC 3	Skalkotas Glass Level -1	Trianti Foyer Upper Level
9:00	PLENARY SYMPOSIUM  Interdisciplinary care of the child before and after birth				POSTER SESSION  Orthodontics Cariology 1 Dental Materials 1	
9:30						
10:00						
10:30						
11:00	COFFEE BREAK					
11:30	SYMPOSIUM  Recent advances in techniques and dental materials	SYMPOSIUM  An up-to-date review in the management of the dental fear	ORAL SESSION  Orthodontics - Growth & Development	ORAL SESSION  Cariology 1	POSTER SESSION  Endodontics 1 Syndromes & Genetics 1	MORITA PRIZE SESSION  Clinical Research
12:00						
12:30						
13:00	LUNCH BREAK  13:30 - 14:15 LUNCH & LEARN by Dentsply Detrey: Cariostatic properties of intelligent restorative materials in modern pedodontic dentistry (MC 3)					
13:30						
14:00						
14:30	LECTURE  Evidence based Class II treatment with headgear and functional appliance	LECTURE  The caries infiltration technique in Paediatric Dentistry	ORAL SESSION  Anaesthesia	ORAL SESSION  Syndromes & Genetics	POSTER SESSION  Dental Anxiety and Behaviour Management 1 - Special Needs Patients 1 Dental Trauma 1	MORITA PRIZE SESSION  Clinical Research
15:00	LECTURE  Advances in orthodontic materials and their impact on clinical practice	LECTURE  DIAGNOcam: Clinical potential of a new optical device for caries detection and diagnosis				
15:30	COFFEE BREAK					
16:00	DEBATE  Management of tooth avulsion in the mixed dentition - The pathway to success	ORAL SESSION  Behaviour Management 1	ORAL SESSION  Cariology 2	ORAL SESSION  Prevention 1	POSTER SESSION  Special Needs Patients 3 Oral Pathology 1	MORITA PRIZE SESSION  Case Report
16:30						
17:00						
17:30						



**Friday, 17 June 2011**

	Alexandra Trianti Hall	Nikos Skalkotas Hall	MC 2	MC 3	Skalkotas Glass Level -1	Trianti Foyer Upper Level
9:00	SYMPOSIUM  Preventive programs in public and private clinics	ORAL SESSION  Oral Pathology 1 / Oral Surgery	ORAL SESSION  Dental Materials	ORAL SESSION  Cariology 3	POSTER SESSION  Dental Materials 3 Public Health	MORITA PRIZE SESSION  Case Report
9:30						
10:00						
10:30		LECTURE  Fungal infections in children				
11:00	COFFEE BREAK					
11:30	PLENARY LECTURES  Craniofacial biotechnology research. What it can tell us.  * Genetic Perspectives in Paediatric Dentistry  * Stem cells-based therapeutics in Paediatric Dentistry  * From pulpl protection and healing to pulp-dentine regeneration	LECTURE  Influence of the neck dimensions of pacifiers on flexibility and intra-oral force distribution			POSTER SESSION  Prevention 1 Oral Medicine and Pathology 3	JENS O. ANDREASEN AWARDS SESSION 1  Dental trauma
12:00		LECTURE  The role of a clinical dietitian in preserving Paediatric Dental Health				
12:30		LECTURE  MIH : a few more pieces of the puzzle?				
13:00						
13:30	LUNCH BREAK  13:30 - 14:15 LUNCH & LEARN by 3M ESPE: The treatment of MIH including the use of Protemp Crowns (MC 3)					
14:00						
14:30	LECTURE  Longevity of restorative materials in primary and permanent dentition	LECTURE  Early diagnosis and treatment of periodontal disease	ORAL SESSION  Periodontology/ Dental Trauma 1	ORAL SESSION  Dental Trauma 2	POSTER SESSION  Special Needs Patients 5 Dental Anxiety and Behaviour Management 3	JENS O. ANDREASEN AWARDS SESSION 2  Dental trauma
15:00	LECTURE  Aesthetic Stainless Steel Crowns	LECTURE  NdYAG laser application for the management of soft and periodontal tissues				
15:30	COFFEE BREAK					
16:00	SYMPOSIUM  Essentials in caries management - risk assessment and fluoride	ORAL SESSION  Epidemiology/ Public Health 1	ORAL SESSION  Behaviour Management 2 / Education	ORAL SESSION  Public Health 2	POSTER SESSION  Epidemiology 1 Dental Anomalies 2	
16:30						
17:00						
17:30						
17:45						
21:00	Gala dinner (Zappeion Megaron Hall of Athens)					

**Saturday, 18 June 2011**

	Dimitris Mitropoulos Hall	MC 2	MC 3	Skalkotas Glass Level -1	Trianti Foyer Upper Level
9:00	<b>SYMPOSIUM</b> Recent advances in the oral care of children with special needs	<b>ORAL SESSION</b> Special Needs Patients 1 / Dental Anomalies	<b>ORAL SESSION</b> Cariology 4 / Prevention 2	<b>POSTER SESSION</b> Cariology 2 / Microbiology Dental Anomalies 3 / Growth & Development 2	<b>MORITA PRIZE SESSION</b>  Clinical Research
9:30					
10:00					
10:30					
11:00	COFFEE BREAK				
11:30	<b>SYMPOSIUM</b>  Oligodontia and ectodermal dysplasia in children and adolescents: diagnosis, rehabilitation, indications for dental implants	<b>ORAL SESSION</b> Endodontics	<b>ORAL SESSION</b>  Special Needs Patients 2	<b>POSTER SESSION</b>  Endodontics 2 / Dental Trauma 3 Periodontology / Syndromes & Genetics 2 / Special Needs Patients 6 Dental Trauma 4 / TMJ / Xrays / Education	
12:00		<b>LECTURE</b>  The use of NiTi rotary instruments in Endodontics: a critical approach			
12:30					
13:00	LUNCH BREAK  13:30 - 14:15 LUNCH AND LEARN by UNILEVER: Brush Day and Night: Effective Ways to Deliver the Message in Practice (MC 3)				
13:30					
14:00					
14:30	<b>LECTURE</b> Child Protection and the Dental Team	<b>ORAL SESSION</b>  Dental Trauma 3	<b>ORAL SESSION</b>  Special Needs Patients 3 / Oral Pathology 2	<b>POSTER SESSION</b>  Syndromes and Genetics 3 Cariology 4 Anaesthesia & Dental Anxiety and Behaviour Management 4	
15:00	<b>LECTURE</b> Athens 2011 Special Olympics Special Smiles				
15:30					
16:00	<b>CLOSING CEREMONY Lecture</b>				
16:30	Educational Programs of IAPD				
17:00	<b>In memoriam Theodoros Koulourides</b> (ceremony)				
17:30	Presentation of Koulourides awards				
18:00					
19:30					
20:00	Departure from Congress Venue and Athens Hilton to Lagonissi Grand Resort (Beach party)				
21:00	Beach party ( Lagonissi Grand Resort)				

## Wednesday, 15 June 2011

### Hellenic Society of Odontostomatological Research

**09:00 – 13:30** **Pre-Congress Hands-on Seminar**  
***The use of MTA in primary and permanent teeth***  
 Coordinators: Evangelos Kontakiotis (GRC), Konstantinos Niamonitos (GRC)

Sponsored by the Hellenic Society of Odontostomatological Research



### Crowne Plaza Hotel / Mezzanine Level – Socrates A' Hall

**09:00 – 14:30** **Pre-Congress Symposium**  
***Management of children with developmental behavior disturbances***  
 Coordinators: June Nunn (IRL), Clive Friedman (CAN)  
*Management of Children with Developmental Behavior Disturbances*  
 Marie-Therese Hosey (GBR)  
*Motivational Interviewing*  
 Don Morrow & Jen Irwin-Morrow (CAN)  
*Dental Care Considerations for Children with Neuropsychiatric Disorders*  
 Gunilla Klingberg (SWE)  
*Clinical Holding in Paediatric Dentistry: A safe and interdisciplinary model for effective delivery of care*  
 Selina Master (GBR)

### Athens University School of Dentistry / Simulation Laboratory

**09:00 – 17:00** **IAPD Clinical Day**  
***Basic paediatric dentistry clinical procedures***  
 Coordinators: Richard Widmer (AUS), Sotiria Gizani(GRC)  
 Coordinator of the hands-on: Peter Gregory (AUS)

Sponsored by the Australian & New Zealand Society of Paediatric Dentistry



### Trianti Upper Level Foyer

**11:30 – 12:30** **BSBF Award Competition**

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### MC3

**13:30 – 16:00** **IAPD Council Meeting**

### Athens University School of Dentistry / Lecture Hall

**08:30 – 16:30** **Pre-Congress Postgraduate Student Workshop**  
***Postgraduate student workshop: Oral medicine, oral pathology***  
 Coordinators: Angus Cameron (AUS), Mike Harrison (GBR), Alexandra Sklavounou- Andrikopoulou (GRC)

Sponsored by the Athens University School of Dentistry



### Alexandra Trianti Hall

**19:30 – 20:30** **Opening Ceremony of the 23rd IAPD Congress Athens 2011**

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### Alexandra Trianti Foyer

**20:30 – 22:00** **Welcome Reception**

## Thursday, 16 June 2011

### Alexandra Trianti Hall

**09:00 – 11:00** **Plenary Symposium**  
***Interdisciplinary care of the child before and after birth***  
 Coordinators: Mark Hector (GBR), Göran Koch (SWE)  
*Fetal Medicine*  
 Kypros Nicolaides (GBR)  
*Effect of maternal oral health during pregnancy on infant health and development*  
 Phoebus Madianos(GRC)  
*Stress vs. Puberty and Adolescence*  
 George Chrousos (GRC)  
*Exploring nature vs. nurture in the oral systemic health relationship*  
 John Timothy Wright (USA)

Sponsored by  **Colgate GABA**  
 Your partner in oral health

### Skalkotas Glass Level (-1)

**09:00 – 11:00** **Poster Sessions**  
 Chairpersons: Giorgos Damanakis (GRC), Panagiotis Skoularikis (GRC)  
***Orthodontics (P01-1 – P01-24)***  
 Chairpersons: Andreas Agouropoulos (GRC), Anna-Maria Vierrou (GRC)  
***Cariology 1 (P02-25 – P02-48)***  
 Chairpersons: Spiros Zinelis (GRC), Christos Rachiotis (GRC)  
***Dental Materials 1 (P03-49 – P03-72)***



**11:00 – 11:30 Coffee Break**
**Alexandra Trianti Hall**
**11:30 – 13:00 Symposium**
**Recent advances in techniques and dental materials**

Coordinators: Anna Fuks (ISR), George Vougiouklakis(GRC)

*The use of glass ionomer cement in minimally invasive pediatric restorative dentistry*  
Kevin Donly (USA)

*Advances in adhesives and sealants*  
George Eliades (GRC)

*In vitro data and clinical results of resin composites restorations*  
*(in comparison to other groups of materials)*  
Reinhard Hickel (DEU)

Sponsored by 
**Nikos Skalkotas Hall**
**11:30 – 13:00 Symposium**
**An up-to-date review in the management of dental fear**

Coordinators: Milton Houpt (USA), W.E. van Amerongen (NLD)

*Treatment of dental anxiety based on cognitive behavioral therapy (CBT)*  
Erik Skaret (NOR)

*World trends in the use of sedation to address dental anxiety*  
Eduardo A. Alcaïno (AUS)

*Reducing dental anxiety by using the ART technique*  
Marcelo Bönecker (BRA)

Sponsored by 
**MC 2**
**11:30 – 13:00 Oral Session**

Chairpersons: Jeng-Fen Liu (TWN), Priya Subramaniam (IND)

**Orthodontics - Growth & Development (O01-1 – O01-9)**
**MC 3**
**11:30 – 13:00 Oral Session**

Chairpersons: Levent Özer (TUR), Justin Lee (KOR)

**Cariology 1 (O02-10 – O02-18)**
**Skalkotas Glass Level (-1)**
**11:30 – 13:00 Poster Sessions**

Chairpersons: Panos Panopoulos (GRC), Leila Bassir (IRN)


**Endodontics 1 (P04-73 – P04-90)**

Chairpersons: Satu Alaluusua (FIN), Saul Martins Paiva (BRA)

**Syndromes & Genetics 1 (P05-91 – P05-108)**
**Trianti Foyer Upper Level**
**11:30 – 13:00 Morita Prize Session**

Chairpersons: Bernadette Drummond (NZL), Effie Syrrakou (GRC)  
**Clinical Research (P06-109 - P06-125)**
**13:00 – 14:30 Lunch Break**
**MC3**
**13:30 – 14:15 Lunch & Learn Session**
**Cariostatic properties of intelligent restorative materials in modern pedodontic dentistry**

Speaker: Agnieszka Pacyk (POL)

Sponsored by 
**Alexandra Trianti Hall**
**14:30 – 15:30 Lectures**

Chairpersons: Athanassios Athanassiou (GRC), Margarita Makou (GRC)

Speaker: **Evidence based Class II treatment with headgear and functional appliance**  
Stella Efstratiadis (GRC)

Speaker : **Advances in orthodontic materials and their impact on clinical practice**  
Theodore Eliades (GRC)

**Nikos Skalkotas Hall**
**14:30 – 15:30 Lectures**

Chairpersons: Nobert Kramer (DEU), Afrodite Kakaboura (GRC)

Speaker: **The Caries infiltration technique in paediatric dentistry**  
Ulrich Schiffner (DEU)

Sponsored by 

Speaker: **DIAGNOcam: Clinical potential of a new optical device for caries detection and diagnosis**  
Jan Kühnisch (DEU)

Sponsored by  Kavo. Dental Excellence.

**MC 2**
**14:30 – 15:30 Oral Session**

Chairpersons: Peter Gregory (AUS), Marie-Cecile Maniere (FRA)  
**Anaesthesia (O03-19 – O03-24)**

## 11:00 – 11:30 Coffee Break

## Alexandra Trianti Hall

## 11:30 – 13:00 Symposium

**Recent advances in techniques and dental materials**

Coordinators: Anna Fuks (ISR), George Vougiouklakis(GRC)

*The use of glass ionomer cement in minimally invasive pediatric restorative dentistry*  
Kevin Donly (USA)

*Advances in adhesives and sealants*  
George Eliades (GRC)

*In vitro data and clinical results of resin composites restorations*  
*(in comparison to other groups of materials)*  
Reinhard Hickel (DEU)

Sponsored by 

## Nikos Skalkotas Hall

## 11:30 – 13:00 Symposium

**An up-to-date review in the management of dental fear**

Coordinators: Milton Houpt (USA), W.E. van Amerongen (NLD)

*Treatment of dental anxiety based on cognitive behavioral therapy (CBT)*  
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*World trends in the use of sedation to address dental anxiety*  
Eduardo A. Alcaïno (AUS)

*Reducing dental anxiety by using the ART technique*  
Marcelo Bönecker (BRA)

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## MC 2

## 11:30 – 13:00 Oral Session

Chairpersons: Jeng-Fen Liu (TWN), Priya Subramaniam (IND)

**Orthodontics - Growth & Development (O01-1 – O01-9)**

## MC 3

## 11:30 – 13:00 Oral Session

Chairpersons: Levent Özer (TUR), Justin Lee (KOR)

**Cariology 1 (O02-10 – O02-18)**

## Skalkotas Glass Level (-1)

## 11:30 – 13:00 Poster Sessions

Chairpersons: Panos Panopoulos (GRC), Leila Bassir (IRN)

**Endodontics 1 (P04-73 – P04-90)**

Chairpersons: Satu Alaluusua (FIN), Saul Martins Paiva (BRA)

**Syndromes & Genetics 1 (P05-91 – P05-108)**

## Trianti Foyer Upper Level

## 11:30 – 13:00 Morita Prize Session

Chairpersons: Bernadette Drummond (NZL), Effie Syrrakou (GRC)

**Clinical Research (P06-109 - P06-125)**

## 13:00 – 14:30 Lunch Break

## MC3

## 13:30 – 14:15 Lunch &amp; Learn Session

**Cariostatic properties of intelligent restorative materials in modern pedodontic dentistry**

Speaker: Agnieszka Pacyk (POL)

Sponsored by 

## Alexandra Trianti Hall

## 14:30 – 15:30 Lectures

Chairpersons: Athanassios Athanassiou (GRC), Margarita Makou (GRC)

Speaker: **Evidence based Class II treatment with headgear and functional appliance**  
Stella Efstratiadis (GRC)

Speaker : **Advances in orthodontic materials and their impact on clinical practice**  
Theodore Eliades (GRC)

## Nikos Skalkotas Hall

## 14:30 – 15:30 Lectures

Chairpersons: Nobert Kramer (DEU), Afrodite Kakaboura (GRC)

Speaker: **The Caries infiltration technique in paediatric dentistry**  
Ulrich Schiffner (DEU)

Sponsored by 

Speaker: **DIAGNOcam: Clinical potential of a new optical device for caries detection and diagnosis**  
Jan Kühnisch (DEU)

Sponsored by  Kavo. Dental Excellence.

## MC 2

## 14:30 – 15:30 Oral Session

Chairpersons: Peter Gregory (AUS), Marie-Cecile Maniere (FRA)

**Anaesthesia (O03-19 – O03-24)**



MC 3

14:30 – 15:30 Oral Session

Chairpersons: Joseph Shapira (ISR), Helen Rodd (GBR)  
**Syndromes & Genetics (O04-25 – O04-30)**

Skalkotas Glass Level (-1)

14:30 – 15:30 Poster Sessions

Chairpersons: Rosamund Harisson (CAN), Nina Wang (NOR)  
**Dental Anxiety and Behaviour Management 1- Special Needs Patients 1 (P07-126 - P07-137)**  
Chairpersons: Evaggelos Kontakiotis (GRC), Vasillios Tzigounakis (CZE)  
**Dental Trauma 1 (P08-138 – P08-149)**

Trianti Foyer Upper Level

14:30 – 15:30 Morita Prize Session

Chairpersons: Ferranti Wong (GBR), Gunilla Klinberg (SWE)  
**Clinical Research (P09-150 – P09-161)**

15:30 – 16:00 Coffee Break

Alexandra Trianti Hall

16:00 – 17:30 Debate

**Management of tooth avulsion in the mixed dentition - The pathway to success**

Coordinators: Lisa Papagiannoulis (GRC), Jamie Lucas (AUS)  
*Acute Management: The art of managing the complete dental injury, the tooth, the soft tissues and the bone*  
Jens Ove Andreasen (DEN)  
*The Avulsed Tooth - Resorption and Revitalization*  
Martin Trope (USA)  
*Delayed presentation - how to maximise success of a compromised case*  
Monty Duggal (GBR)

Nikos Skalkotas Hall

16:00 – 17:30 Oral Session

Chairpersons: Hector Martinez (MEX), Kostas Arapostathis (GBR)  
**Behaviour Management 1 (O05-31 – O05-39)**

MC 2

16:00 – 17:30 Oral Session

Chairpersons: Deery Christopher (GBR), Hubertus Van Waes (CHE)  
**Cariology 2 (O06-40 – O06-48)**

MC 3

16:00 – 17:30 Oral Session

Chairpersons: James Crall (USA), Lihong Ge (CHN)  
**Prevention 1 (O07-49 - O07-57)**

Skalkotas Glass Level (-1)

16:00 – 17:30 Poster Sessions

Chairpersons: Romana Ivancakova (CZE), Selina Master (GBR)  
**Special Needs Patients 3 (P10-162 – P10-179)**  
Chairpersons: George Papavasiliou (GRC), Nikos Nikitakis (GRC)  
**Oral Pathology 1 (P11-180 – P11-197)**

Trianti Foyer Upper Level

16:00 – 17:30 Morita Prize Session

Chairpersons: Mark Cannon (USA), Sophia Geki (GRC)  
**Case Report (P12-198 – P12-212)**

## Friday, 17 June 2011

Alexandra Trianti Hall

09:00 – 11:00 Symposium

**Preventive programs in public and private clinics**

Coordinators: Magne Raadal (NOR), Sotiria Gizani (GRC)  
*Caries risk assessment and prevention among preschool children in a private practice*  
Ernest Cholakakis (CAN) & Carla Cohn (CAN)  
*Caries risk assessment as an evidence-based tool for early diagnosis and intervention for pre-school children*  
Francisco Ramos-Gomez (USA)  
*Improving perinatal and infant oral health*  
Yasmi Crystal (USA)  
*Evidence is global, guidelines are local*  
Svante Twetman (DEN)

Nikos Skalkotas Hall

09:00 – 10:30 Oral Session

Chairpersons: Roger Hall (AUS), Kitae Park (KOR)  
**Oral Pathology 1/Oral Surgery (O08-58 – O08-66)**

**Nikos Skalkotas Hall**

**10:30 – 11:00 Lecture**  
Chairpersons: Roger Hall (AUS), Kitae Park (KOR)  
**Fungal infections in children**  
Speaker: Helen Papadogeorgakis (GRC)

**MC 2**

**09:00 – 11:00 Oral Session**  
Chairpersons: Vann Williams (USA), Qvista Vibeke (DEN)  
**Dental Materials (O09-67 – O09-78)**

**MC 3**

**09:00 – 11:00 Oral Session**  
Chairpersons: Sang-Ho Lee (KOR), Ashima Goyal (IND)  
**Cariology 3 (O10-79 – O10-90)**

**Skalkotas Glass Level (-1)**

**09:00 – 11:00 Poster Sessions**  
Chairpersons: Corinne Tardieu (FRA), Nikos Kostanos (GRC)  
**Dental Materials 3 (P13-213 – P13-236)**  
Chairpersons: Hrvoje Juric (HRV), Gert Stel (NLD)  
**Public Health (P14-237 – P14-260)**

**Trianti Foyer Upper Level**

**09:00 – 11:00 Morita Prize Session**  
Chairpersons: Angus Cameron (AUS), Elias Berdouses (GRC)  
**Case Report (P15-261 – P15-280)**

**11:00 – 11:30 Coffee Break**

**Alexandra Trianti Hall**

**11:30 – 13:00 Plenary Lectures**  
*Craniofacial biotechnology research. What it can tell us.*  
Chairpersons: John Featherstone (USA), Nick Lygidakis (GRC)  
**Genetic perspectives in paediatric dentistry**  
Speaker: Irma Thesleff (FIN)  
**Stem cells-based therapeutics in paediatric dentistry**  
Speaker: Petros Papagerakis (USA)  
**From pulp protection and healing to pulp-dentine regeneration**  
Speaker: Demitrios Tziafas (GRC)

Sponsored by 
**Nikos Skalkotas Hall**

**11:30 – 13:00 Lectures**  
Chairpersons: Nigel King (HKG), Katerina Kavvadia (GRC)  
**Influence of the neck dimensions of pacifiers on flexibility and intra-oral force distribution**  
Speaker: Hans-Peter Bantleon (AUT)

Sponsored by




Speaker: **The role of a clinical dietitian in preserving paediatric dental health**  
Kalliopi-Anna Poulia (GRC)

Sponsored by



Speaker: **MIH: A few more pieces of the puzzle?**  
David Manton (AUS)

Sponsored by 
**Skalkotas Glass Level (-1)**

**11:30 – 13:00 Poster Sessions**  
Chairpersons: Shun-Te Huang (TWN), Vuokko Anttonen (FIN)  
**Prevention 1 (P16-281 – P16-298)**  
Chairpersons: Ourania Nikolatou - Galiti (GRC), Anastasia Mitsea (GRC)  
**Oral Medicine and Pathology 3 (P17-299 – P17-316)**

**Trianti Foyer Upper Level**

**11:30 – 13:00 Jens O. Andreasen Awards Session 1**  
Chairpersons: Ann O' Connel (IRL), Anna Dyster Aas (CHE)  
**Dental Trauma (P18-317 – P18-334)**

**13:00 – 14:30 Lunch Break**

**MC3**

**13:30 – 14:15 Lunch & Learn Session**  
**The treatment of MIH including the use of Protemp Crowns**  
Speaker: Monty Duggal (GBR)

Sponsored by 
**Alexandra Trianti Hall**

**14:30 – 15:30 Lectures**  
Chairpersons: Stephen Wei (CHN), Luc Martens (BEL)  
**Longevity of restorative materials in primary and permanent dentition**  
Speaker: Reinhard Hickel (DEU)

Sponsored by



Speaker: **Aesthetic stainless steel crowns**  
Anna Fuks (ISR)

Sponsored by 



**Nikos Skalkotas Hall**

**14:30 – 15:30 Lectures**

Chairpersons: Ioannis Vrotsos (GRC), Denis Kinane (USA)

**Early diagnosis and treatment of periodontal disease**

Speaker: Dorte Haubek (DEN)

**Nd YAG laser application for the management of soft and periodontal tissues**

Speaker: Ioannis Karoussis (GRC)



**MC 2**

**14:30 – 15:30 Oral Session**

Chairpersons: Antonis Konstantinidis (GRC), Anastasia Kelekis (CAN)  
**Periodontology/Dental Trauma 1 (O11-91 – O11-96)**

**MC 3**

**14:30 – 15:30 Oral Session**

Chairpersons: Vlasta Merglova (CZE), Betul Kargul (TUR)  
**Dental Trauma 2 (O12-97 – O12-102)**

**Skalkotas Glass Level (-1)**

**14:30 – 15:30 Poster Session**

Chairpersons: Kerrod Hallet (AUS), Emmanouil Vardas (GRC)  
**Special Needs Patients 5 (P19-335 – P19-346)**

Chairpersons: Don Morrow (CAN), Inone Mitsuko (JPN)  
**Dental Anxiety and Behaviour Management 3 (P20-347 – P20-358)**

**Trianti Foyer Upper Level**

**14:30 – 15:30 Jens O. Andreasen Awards Session 2**

Chairpersons: Jessica Lee (USA), Kimon Divaris (USA)  
**Dental Trauma (P21-359 – P21-366)**

**15:30 – 16:00 Coffee Break**

**Alexandra Trianti Hall**

**16:00 – 17:45 Symposium**

**Essentials in caries management - risk assessment and fluoride**

Coordinators: Nigel Pitts (GBR), Constantine Oulis (GR)

*Caries: Where are we today?*  
Nigel Pitts (GBR)

*Caries risk assessment: How and when?*  
Svante Twetman (DEN)

*Fluorides- insights in how they work*  
Adrian Lussi (SWZ)

*Clinical success with different intensive fluoridation measures*  
Klaus Pieper (DEU)



**Nikos Skalkotas Hall**

**16:00 – 17:30 Oral Session**

Chairpersons: Eleni Homata (GRC), William Papaioannou (GRC)  
**Epidemiology/Public Health 1 (O13-103 – O13-113)**

**MC 2**

**16:00 – 17:30 Oral Session**

Chairpersons: Jaap Veerkamp (NLD), Luciane Costa (BRZ)  
**Behaviour Management 2/Education (O14-114 – O14-124)**

**MC 3**

**16:00 – 17:30 Oral Session**

Chairpersons: Angela Beatriz Argentieri (ARG), Kzishan Gauba (IND)  
**Public Health 2 (O15-125 – O15-135)**

**Skalkotas Glass Level (-1)**

**16:00 – 17:30 Poster Sessions**

Chairpersons: Argyro Polychronopoulou (GRC), Efthimia Kitrakis (GRC)  
**Epidemiology 1 (P22-367 – P22-388)**

Chairpersons: Joseph Chan (HKG), Stergios Arizos (GRC)  
**Dental Anomalies 2 (P23-389 – P23-410)**

**Zappeion Hall, the Peristilio**

**21:00 Gala Dinner**

**Official Gala Dinner of the 23rd IAPD Congress Athens 2011**

## Saturday, 18 June 2011

### Dimitris Mitropoulos Hall

#### 09:00 – 11:00 Symposium **Recent advances in the oral care of children with special needs**

Coordinators: June Nunn (IRL), Dimitris Emmanouil (GRC)

*Autism Spectrum Disorder- Strategies for Management*  
Nicky Kilpatrick (GBR)

*Lasers in the use of soft tissue disorders in special care children*  
Rita Cauwels (BEL)

*Novel applications of fluorides for the caries-risk patient*  
Kyriacos Jack Toumba (GBR)

*Improving oromotor function in children with Down syndrome*  
Clive Friedman (CAN)

Sponsored by  

### MC 2

#### 09:00 – 11:00 Oral Session Chairpersons: Marie Teresse Hossey (GBR), Figen Seymen (TUR) **Special Needs Patients 1/Dental Anomalies (O16-136 – O16-147)**

### MC 3

#### 09:00 – 11:00 Oral Session Chairpersons: Aliriza Alpöz (TUR), Kareen Mekertichian (AUS) **Cariology 4/Prevention 2 (O17-148 – O17-159)**

### Skalkotas Glass Level (-1)

#### 09:00 – 11:00 Poster Sessions Chairpersons: Sotiris Kalfas (GRC), Shuguo Zheng (CHN) **Cariology 2/Microbiology (P24-411 – P24-434)** Chairpersons: Janice Fearne (GBR), Maeda Takahide (JPN) **Dental Anomalies 3/ Growth & Development 2 (P25-435 – P25-458)**

### Trianti Foyer Upper Level

#### 09:00 – 11:00 Morita Prize Session Chairpersons: Benjamin Perez Peretz (ISR), Mike Harrison (GBR) **Clinical Research (P26-459 – P26-482)**

#### 11:00 – 11:30 Coffee Break

### Dimitris Mitropoulos Hall

#### 11:30 – 13:00 Symposium **Oligodontia and ectodermal dysplasia in children and adolescents: Diagnosis, habilitation and indications for dental implants**

Coordinators: Birgitta Bergendal (SWE), George Vadiakas (GRC)

*Clinical and genetic diagnostics in ectodermal dysplasia*  
John Timothy Wright (USA)

*Multidisciplinary treatment in children with ectodermal dysplasia*  
Johanna Norderyd (SWE)

*Treatment with dental implants in children with ectodermal dysplasia*  
Birgitta Bergendal (SWE)

### MC 2

#### 11:30 – 12:30 Oral Session Chairpersons: Gerald Ferreti (USA), Navneet Grewal (IND) **Endodontics (O18-160 – O18-165 )**

### MC2

#### 12:30 – 13:00 Lecture Chairpersons: Gerald Ferreti (USA), Navneet Grewal (IND) **The use of NiTi rotary instruments in endodontics: a critical approach** Speaker: George Kostouros (GRC)

Sponsored by 

### MC 3

#### 11:30 – 13:00 Oral Session Chairpersons: Christina Stecksén-Blicks (SWE), Dominique Declerck (BLG) **Special Needs Patients 2 (O19-166 – O19-174)**

### Skalkotas Glass Level (-1)

#### 11:30 – 13:00 Poster Sessions Chairpersons: Konstantinos Niamonitos (GRC), Jae Ho Lee (KOR) **Endodontics 2/Dental Trauma 3 (P27-483 – P27-500)** Chairpersons: Terry Gregg (GBR), Alexandra Tsami (GRC) **Periodontology/Syndromes & Genetics 2/Special Needs Patients 6 (P28-501 – P28-518)** Chairpersons: Maria Mielnik – Błaszczyk (POL), Hung-Huey Tsai (TWN) **Dental Trauma 4/TMJ/ Xrays/Education (P29-519 – P29-536)**

#### 13:00 – 14:30 Lunch Break

### MC3

#### 13:30 – 14:15 Lunch & Learn Session **Brush Day and Night: Effective Ways to Deliver the Message in Practice** Speaker: Andreas Agouropoulos (GRC)

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## Dimitris Mitropoulos Hall

## 14:30 – 15:30 Lectures

Chairpersons: Yoshida Shadahiro (JPN), Goran Danlof (SWE)

**Child protection and the dental team**

Speaker: Richard Welbury (GBR)

**Athens 2011 Special Olympics Special Smiles**

Speaker: Steven Perlman (USA)

## MC 2

## 14:30 – 15:30 Oral Session

Chairpersons: Anna-Lena Hallonsten (DEN), Rhea Hausgseth (USA)  
**Dental Trauma 3 (O20-175 – O20-180)**

## MC 3

## 14:30 – 15:30 Oral Session

Chairpersons: Ilija Skrinarić (HRV), Gajanan Kulkarni (CAN)  
**Special Needs Patients 3/Oral Pathology 2 (O21-181 – O21-186)**

## Skalkotas Glass Level (-1)

## 14:30 – 15:30 Poster Sessions

Chairpersons: Sally Hibbert (AUS), Giorgos Bobetsis (GRC)  
**Syndromes & Genetics 3 (P30-537 – P30-548)**

Chairpersons: Guillianio Falcolini (ITA), Taku Fujiwara (JPN)  
**Cariology 4 (P31-549 – P31-559)**

Chairpersons: Srinivas Namineni (IND), Theodore Kouimtzi (GRC)  
**Anaesthesia & Dental Anxiety and Behaviour Management 4 (P32-560 – P32-574)**

## Dimitris Mitropoulos Hall

## 16:00 – 17:00 Closing Ceremony

Including the lecture: **Educational programs of IAPD**

Speaker: Gerald Wright (CAN)

## Dimitris Mitropoulos Hall

## 17:00 – 18:00 In memoriam Theodoros Koulourides (ceremony)

Chairperson: George Vougiouklakis (GRC)

Keynote Speaker: John Featherstone (USA)

**Caries risk assessment & management: How the early work on demineralization and remineralization led to an understanding of the caries process**


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Presentation of Koulourides Awards

Sponsored by Procter&amp;Gamble

## Lagonissi Grand Resort

20:00 Departure from Congress Venue and Athens Hilton to Lagonissi Grand Resort (Beach Party)

## 21:00 Farewell Party

**Farewell beach party: An enjoyable experience with dancing and happenings**

## Abstracts of Symposia &amp; Invited Lectures

## Pre-Congress Courses

## 1. The use of MTA in primary and permanent teeth

Evangelos Kontakiotis - Kostantinos Niamonitos

MTA (Mineral Trioxide Aggregate) is a contemporary filling material used in dental clinic practice. MTA is a bioactive silicate cement. There are several properties of MTA that make it such an ideal material. It has small practical size, alkaline pH when set and slow release of calcium ions. It is well known for its sealing ability and it has also been reported to induce cell proliferation, cytokine release and hard tissue formation. Nowadays, MTA is widely used as a root-end filling material in periradicular surgery as well as repair material in root and pulp chamber floor perforations. MTA may be also used in direct pulp capping and conventional treatment of teeth with incomplete root formation. Topics of this seminar include the most important characteristics of MTA as well as all its applications concerning the clinical field of Endodontology and Paediatric Dentistry; pulp capping, pulpotomy, apical plug, root and pulp chamber floor perforations, root end filling and root canal filling; Conventional applications will be showed on human extracted teeth whereas surgical applications will take place on fresh tissue of pig's jaws.

## 2. Management of children with developmental behavior disturbances

Management of Children with Developmental Behavior Disturbances

Marie-Therese Hosey

The management of these children is a real challenge to the dental team. The advantages and disadvantages of the various techniques will be explored ranging from behavioral management, conscious sedation to the use of general anaesthesia. The evidence, or lack of evidence, for these will be discussed and practical tips and suggestions presented. Ideas for future research and collaboration will be considered. Different countries and cultures may have come up with different solutions: this is an opportunity to share these. Participants are invited to bring along some case scenarios to share and to discuss with the wider audience.

## Motivational Interviewing

Don Morrow &amp; Jen Irwin-Morrow

This experiential hands-on session will focus on the integration of motivational interviewing tools and techniques into private practice for effective patient behavior change and seamless assimilation of alternative therapies into daily regimens. Motivational Interviewing (MI) is formally defined as a "client-centered, directive method for enhancing intrinsic motivation to change by exploring and resolving ambivalence." Grounded in addiction research, motivational interviewing is widely supported in the health care professions and in evidence-based research (including our own research) on its effectiveness within clinical health practices. We firmly believe that every patient – and, in the case of special needs patients, every care-giver can absolutely embrace what the MI creators call a competent world view. Your job within the clinician/care-giver/patient triangle is to tap into their creativity, their resourcefulness, and often their values in order to enhance healthy behavior adherence. And we have found that MI engages patients to collaborate fully and meaningfully in partnership with their health care practitioners in their healing and health-care process. Our session will provide a meaningful overview of MI using our unique system which integrates MI with other impact-ful change behavior practices such as coaching methods and key elements of behavior change theories/applications. Most importantly, we will explore and help you to acquire applied techniques to use with your patients in your day-to-day practice. You will learn how to build motivation with your patients as well as how to transition that enhanced motivation into a strengthened and real commitment to change health behaviors in support of oral health care and management. We will teach you different ways to use such elements as presence, powerful questions, reflective listening, change talk, tagging values onto desired behavior changes, and moving with resistance in service of your patients' and care-givers' balanced health behaviors in lifelong care.

## Dental Care Considerations for Children with Neuropsychiatric Disorders

Gunilla Klingberg

Children with neuropsychiatric disorders do not form a homogeneous group. Several different neuropsychiatric diagnoses and conditions are included and many of the children also have other medical diagnoses. These children are all unique individuals and this should be reflected in the dental care situation. There are several risk factors for impaired oral health mainly owing to behavioral factors, and reports of increased risk of both dental caries and gingivitis. However, reliable surveys on oral and dental health are missing. The basis for all dental care is dental examination, diagnosing and treatment planning. As children with neuropsychiatric disorders often have problems to cooperate to dental treatment, sufficient time should be allocated for stepwise introduction to dental examination and treatment. Communication with children with foremost autism can be enhanced by using photographs or story telling as pedagogic tools. Some patients need several appointments for introduction before they are able to cooperate to even a dental examination. Some patients manage conventional dental treatment, while others need help from sedatives. For a group of patients general anesthesia is required even in order to do a proper examination. As dental treatment can be difficult to carry out, preventive dental care is important. Individually adapted aids and appliances can be used for oral hygiene. Likewise, dental education to parents and caregivers, and a team approach to the patient are favorable. It is essential that resources be allocated to ensure that also people with neuropsychiatric disorders receive dental treatment and can achieve and maintain a good oral health on the same conditions as others.

## Clinical Holding in Paediatric Dentistry: A safe and interdisciplinary model for effective delivery of care

Selina Master

The aim of the presentation is to show how a specific Clinical Holding training programme was developed and implemented within the Special Care Dentistry department in Surrey, England. The Surrey dental team worked together with a specialised and accredited company; Positive Options, to develop an appropriate and effective safe model of physical intervention (clinical holding). Clinical Holding

is now used to assist and support patients to enable them to receive dental treatment in situations where their behaviour might limit the ability of the dental team to effectively deliver dental treatment. The clinical holds were evolved using the 'least restrictive response' strategy which underpins the use of all physical interventions. All approaches were developed within organisational and regulatory guidelines and policies. The presentation will also include an evaluation of the training programme to date and Paediatric case studies to demonstrate the effectiveness of this training in the clinical situation, including induction of a general anaesthetic.

### 3. IAPD Clinical Day: Basic paediatric dentistry clinical procedures

*Richard Widmer, Peter Gregory, Sotiria Gizani*

The IAPD Athens Organizing Committee would like to announce the Pre -Congress Clinical Day. This Clinical Day is the first ever offered by the IAPD as a pre Congress course and will include a morning of basic clinical lectures from expert Teachers followed by an afternoon Hands-on session .The morning lectures will include updates on such topics as primary molar pulp therapy, local anaesthesia and the extraction of primary and permanent teeth in young children. The Hands-on session will cover the preparation and placement of pre-formed metal crowns and anterior strip crowns, as well as pulpotomy techniques for primary molars. Participants will be grouped in six and supervised by expert clinicians from around the World. The Course is primarily aimed at those clinicians who want to upgrade their basic skills, learned in Dental School and apply them in their clinical practice. Participants will be provided with all the laboratory support necessary to do their own strip crowns and pre-formed metal crowns. I would encourage all dental graduates to consider registering for the Course whether they are "old hands "or relatively new graduates.

### 4. Postgraduate student workshop: Oral medicine, oral pathology

*Angus Cameron, Mike Harrison, Alexandra Sklavounou*

The Olympic Rings of Oral Pathology:Red, Yellow, White, Blue, Black and Green lesions in Children. This is the 5th Postgraduate session associated with the IAPD Congress on paediatric oral medicine and pathology. The course is open to all postgraduate students in paediatric dentistry and as well as a stimulating program will give students a chance to meet and work together in problem solving. The program focuses on the processes in diagnosis and treatment planning and then management of oral lesions in children presenting in the different colours of the Olympic rings. Although much oral pathology in children is benign, it is essential to eliminate more serious illnesses. The presentation of pathology in children often differs from that seen in adults and the subtleties of these differences are often important in diagnosis. Additionally, many lesions change in form or extent with growth of the body. While some disorders are confined to the mouth, oral lesions may often be a sign of a systemic medical disorder. The same disease may present in a multitude of ways but equally, one presentation may be representative of many different disorders. These presentations and quizzes will focus on an approach to the diagnosis and management of common, and some uncommon soft tissue lesions in children. As a diagnostic aid, conditions have been grouped according to presentation of colour. The areas covered will include: orofacial infection, oral ulceration, epulides, neoplasm's in children, periodontal disease and the premature loss of primary teeth, gingival enlargements, vascular lesions, and pathology in the newborn.

development. The former includes physical changes in stature and body weight, shape and composition, as well as the process of puberty, and is usually completed by the age of 14-16 years. The latter concerns the psychosocial, intellectual and emotional maturation of the individual, including completion of brain development, and is finished by the age of 24-27 years. "Stress" defined as the "state of threatened or perceived threatened homeostasis" may influence growth and development, producing both concurrent and/or future psychopathology. Stress is associated with activation of the Stress System comprised by the Hypothalamic-pituitary-adrenal Axis and the Arousal/Sympathetic Nervous Systems. The stress system functions in a baseline, circadian fashion or on demand, in response to a stressor, and interacts with other systems of the organism to regulate a variety of behavioral, endocrine, metabolic, immune/inflammatory, and cardiovascular functions. The experience of perceived or real uncontrollable intense and/or prolonged stress is associated with chronic alterations in CRH, catecholamine and cortisol secretion and may lead to a pathologic, harmful homeostasis or cacosstasis, that may result in several behavioral and somatic disorders, including, respectively, anxiety, depression, psychosomatic disorders and substance abuse, and obesity/metabolic syndrome and osteoporosis. It may also produce sleep disturbances, including insomnia and excessive daytime sleepiness, and may impair reproductive and immune functions. Developing children and adolescents are particularly vulnerable to the effects of chronic stress with both behavioral and biologic pathways involved in the connection between chronic stress and obesity and metabolic syndrome. Emotional "comfort" eating, lack of sleep, impulsive behaviors and selection of specific foods often characterize stressed individuals and obese children and adolescents are frequently entangled in a vicious cycle between distress impairing self-image and distorted self-image maintaining and worsening distress. Early life stress may have additional effects on the timing of pubertal manifestations, cognitive and emotional development, immune function and final stature.

### Exploring nature vs. nurture in the oral systemic health relationship

*John Timothy Wright*

In recent years there has been an explosion of interest and new knowledge regarding the relationship of oral and systemic health. Our knowledge on the role of genetics in oral and systemic health also has grown and provides new insights into the risk and resistance to disease. Periodontal disease and dental caries are both complex conditions involving genetic host factors and environmental influences and exposures. There is strong evidence linking maternal periodontal oral health with pre-eclampsia, gestational diabetes mellitus and other prenatal outcomes. Numerous hereditary conditions are associated with periodontal disease and there is growing evidence that polymorphisms in genes important in mediating inflammation and bone homeostasis are important in periodontal health. Indeed, recent evidences suggests that epigenetic changes in certain genes such as E-Cadherin and Cyclooxygenase 2 (COX-2) are associated with increased risk for chronic periodontitis. A variety of studies and experimental approaches indicate that approximately 50% of the risk/resistance for dental caries is genetically determined. Genetic studies indicate that genes associated with tooth formation and taste are associated with caries risk. Many of the genes involved in helping define risk/resistant to periodontal disease and dental caries are engaged in other critical health processes such as inflammation and nutrition. The relationship of oral and systemic health, behavior and psychological health adds an additional layer of complexity to genetic – environment health interplay. Understanding the roles and interactions of genetics and environment in oral and systemic health will ultimately aid clinicians in the diagnosis and prevention of oral disease and their systemic sequelae.

## Symposia

### 1. Interdisciplinary care of the child before and after birth

#### Fetal Medicine

*Kypros Nicolaides*

Major part of formation and development of teeth and oral structures take place early in life. Disturbances during this critical period can result in irreversible complications. Prenatal diagnosis allows today appropriate counselling of the parents and fetal treatment.

#### Effect of maternal oral health during pregnancy on infant health and development

*Phoebus Madianos*

For the last 2 decades researchers have been investigating the association between maternal periodontal disease and adverse pregnancy outcomes (preterm birth; PB, low birth weight; LBW, preterm low birth weight; PLBW, preeclampsia, and gestational diabetes mellitus).Several animal models demonstrate that this association is biologically possible, and several mechanistic pathways have been proposed. Briefly, 1) periodontal bacteria from the gingiva enter the blood circulation and reach the developing fetal-placental unit initiating/exacerbating a local inflammatory response, 2) inflammatory cytokines from the gingiva enter the blood circulation and reach the liver initiating the release of acute phase proteins that may exacerbate an inflammatory response at the feto-placental unit, and 3) a combination of the above.The results from epidemiological studies in humans (cohort, case-control) are inconsistent due to the heterogeneity and limitations of the studies i.e 1) racial differences among sample population, 2) variability of sample size, 3) differences in the definition of periodontal disease and of outcomes and 4) inconsistent adjustment of risk factors.A relatively small number of intervention studies have also led to inconclusive results due to: 1) differences in the severity of the periodontal disease treated, 2) the small sample size, 3) the different time of treatment and treatment modality. Preliminary results from animal studies demonstrate the possibility that periodontal disease of the pregnant mother may affect neonatal survival and also behavioral aspects and the diabetic status of the offspring. This may imply that the periodontal condition of the mother may affect not only the developing fetus during pregnancy, but also the well-being of the individual later in life. Other aspects of dental care such as the use of anesthetics, radiographs and antibiotics, during pregnancy or lactation may also have deleterious effects on the teeth and the overall health/development of the fetus and the offspring.

#### Stress vs. Puberty and Adolescence

*George Chrousos*

Early life, including the fetal, childhood, and puberty/adolescence periods, is characterized by marked changes in growth and

### 2. Recent advances in techniques and dental materials

#### The use of glass ionomer cement in minimally invasive pediatric restorative dentistry

*Kevin Donly*

The use of glass ionomer cements/resin-modified glass ionomer cements are a critical component of contemporary pediatric restorative dentistry. The glass ionomer restorative materials are forgiving in a mildly wet oral environment, secondary to the acid-base setting reaction, and has the advantage of releasing fluoride that can inhibit recurrent caries at restoration margins. Glass ionomer cements can be utilized as a surface protectant/sealant in the primary and permanent dentition. It is also an effective restorative material for Class I and Class II restorations in the primary dentition. Likewise, glass ionomer restorative material can be an effective restorative material for Class III and Class V restorations in the primary and permanent dentition.

#### Advances in adhesives and sealants

*George Eliades*

Three-step adhesive systems have long been considered as reference for bonding to enamel and dentin. Nevertheless, to shorten chairside time and reduce technique sensitivity two-step etch and rinse systems have been introduced. Unfortunately, most of these systems, further increased technique sensitivity, by inadequate infiltration of acid-demineralized dentin, monomer phase separation, differential infiltration and implication with the setting mechanism of slow-setting composites. To overcome these limitations two-step self-etch adhesives were developed, where tissue demineralization was achieved by polymerizable acidic monomers. These materials resulted in a clinical performance matching that of three-step systems, although concerns have been expressed on their enamel etching capacity, increased water uptake and long-term stability. Currently, one-step self etch systems are available, exhibiting contradictory performance and clinical efficacy, mostly related to excessive phase separation and water plasticization in some products. The effectiveness of adhesive systems, apart from their composition, is highly dependent on the type of the substrate. Carious and sclerotic tissues or tissues with developmental defects strongly modify adhesive performance. Several additional steps have been advised for such cases including, removal of the affected tissue, prolonged acid-etching, acid-mediated microabrasion or NaOCl conditioning. The latter should be carefully used, as it may interfere with the bonding mechanism of several adhesives.The developments in the adhesives have been introduced in resin pit and fissure sealants, as well, in an effort to optimize sealing capacity. Several improvements have been documented in vitro for two-step etch and rinse systems. However, phosphoric acid conditioning of uncut enamel surfaces still is considered as the best etching procedure in comparison with self-etch resin monomers. Recently, self-etch adhesives and composites with acid modified monomers have been introduced as sealants, but the laboratory and clinical performance of such products is quite controversial. Finally, there is an increasing concern on the potential adverse biological effects of sealants, which release compounds with estrogenic activity.



### In vitro data and clinical results of resin composites restorations (in comparison to other groups of materials)

*Reinhard Hickel*

In the last 15 years more new filling materials and new groups of materials were introduced than ever before in dental history. On the one side this is a big advantage for the dentist to have the possibility to choose between numerous materials. But on the other side it is difficult to keep the overall view and to know the indications as well as advantages and disadvantages of the numerous materials e.g. compomers, packable and flowable composites, nanofiller composites, siloranes etc. Furthermore the different brands in several groups of materials show a wide range in mechanical properties. The question is how these different materials can be applied best and will behave in long term clinical results in comparison to amalgam or indirect restorations (inlays etc.). Longevity of dental restorations is dependent upon many different factors, that are materials-, patient-, and dentist-related. Clinical results of restorations are not only influenced by the materials itself but also by type of adhesive, light curing and incremental techniques etc. For studies published in the last decade median annual failure rates were calculated for amalgam, composite, and for indirect restorations (ceramic inlays/onlays and gold inlays/onlays). Interestingly the failure modes changed in the last years. But in many publications the study design and the reasons for failures were not sufficiently described. A new recommendation for conducting clinical studies has been published in 2007 (FDI SCIENCE COMMITTEE PROJECT) [Hickel et al. 2007 and 2010] which should allow to improve comparison of studies, too. In general adhesive restorations in posterior teeth can be recommended, especially in small and medium sized cavities. With modern resin composites with different opacities the dentist is also able to restore anterior teeth with excellent esthetics in a direct way. The application of modern filling materials will be shown step by step and frequent failures with advice for improvement will be discussed.

### 3. An up-to-date review in the management of dental fear

#### Treatment of dental anxiety based on cognitive behavioral therapy (CBT)

*Erik Skaret*

Many studies have reported successful cognitive behavioural therapy (CBT) of specific phobias, but often with the use of many treatment sessions. However, randomized clinical trials carried out by Öst and co-workers have shown that many specific phobias such as spider phobia, blood phobia, extra-oral injection phobia, flying phobia and claustrophobia can be treated successfully, and with similar effects, by one or five sessions of CBT (Öst LG, 1989). The main principles of the therapy are based on gradual, controlled, and repetitive exposure in vivo to the feared stimuli, with the patient's consent for every new step. The levels follow in a gradual and manageable order and are determined by co-operation between the patient and the therapist. The lecture will discuss the implementation of these treatment approaches among younger age-groups, with dentists doing the psychological treatment, and how the use of pharmacological methods should be a supplement to the psychological methods in cases where there is a discrepancy between the dental treatment needs and the child's ability to cope. The discussion will be based on results from randomized clinical trials in adults where dental phobia and intra-oral injection phobia are treated in one or five CBT sessions, performed by dentists. Treatment of dental- and injection phobia in children and adolescents is a reasonable approach for bringing fearful children back to ordinary dental treatment and preventing future avoidance of dental care.

#### World trends in the use of sedation to address dental anxiety

*Eduardo A. Alcaino*

It is noted that most children can receive dental care in a normal setting with non-pharmacological techniques to address dental anxiety. However, there are a number of children that suffer from severe anxiety, medical issues or simply cannot cope with dental care in a normal setting. There are also many dental units around the world with increased pressure to deliver dentistry in a more efficient manner and decrease waiting lists for the delivery of dental care. This presentation will review current philosophies in paediatric sedation in dentistry across the world. The services provided in various countries vary enormously as do the drugs and techniques available. Controversy as to what techniques and who delivers sedation in the field of paediatric dentistry is also an area of debate. A summary on the use of sedation techniques will be addressed. Popular techniques include the use of nitrous oxide, oral sedation, and general anaesthesia. Careful patient selection, adequate informed consent, and specific clinical criteria appear to be vital for success. Discharge criteria in children is an area that has received more attention lately given that complications may arise after a child leaves the dental surgery. Knowledge of "red flags for sedation" including child obesity, paediatric conditions associated with a compromised airway, doses of local anaesthesia in children and other anatomical factors must always be considered. General anaesthesia has gained popularity over the years for the delivery of comprehensive dental care. Some aspects of this form of sedation will be addressed. Recommendations and future trends on the use of conscious sedation in Paediatric Dentistry will be discussed. Continuing education and training in paediatric advance life support is encouraged.

#### Reducing dental anxiety by using the ART technique

*Marcelo Bönecker*

ART promotes less discomfort and minimizes pain, contributing to a reduction of anxiety, due to the diminution of sound tissue removal and the absence of the use of local anaesthesia. Development of recent techniques related to ART might improve its restorations longevity and reduce the necessity of re-restorations.

### 4. Management of tooth avulsion in the mixed dentition – The pathway to success

#### Acute Management: The art of managing the complete dental injury, the tooth, the soft tissues and the bone

*Jens Ove Andreasen*

Most luxation injuries involve a trauma affecting both the tooth bone and soft tissues. Present knowledge indicates that especially intrusions and avulsions have the most severe long term prognosis. The lecture will be based on a material of 1000 traumatized permanent

teeth suffering either intrusion, lateral luxation or avulsion and describe how combined bone, and periodontal ligament damage may invite to healing complications. The explanatory factor appears to be the extent of periodontal ligament and bone damage as well as the maturity of bone at the time of injury. These factors determine how severe the damage will be transferred to the periodontium whereby its homeostatic function of the periodontal ligament becomes compromised whereby root resorption may start up.

#### The Avulsed Tooth - Resorption and Revitalization

*Martin Trope*

Success after avulsion is related to resorption complications. This talk will cover the biological aspects of resorption and strategies to limit this complication. Revitalization of an avulsed tooth is routine and now can be performed on a previously infected immature tooth. Also the procedure has great potential in teeth that have undergone resorptive complications. These cases will be presented and discussed.

#### Delayed presentation - How to maximise success of a compromised case

*Monty Duggal*

This presentation will argue the pros and cons of replanting avulsed teeth that are considered not to have a good prognosis in the long term. Should such teeth be replanted at all? What are the ethical issues if teeth with known poor prognosis are replanted thereby committing the child and the family to prolonged and frequent treatment which carries not only a financial cost but also a social cost for the child and the parents? However, the presenter will argue that most avulsed teeth, even those with a hopeless prognosis should be replanted with a view to securing a good outcome for the patient. This can be achieved through a proactive programme for the management of replacement resorption and through that management of the bone in the region. Securing a good quality alveolar bone in the region is essential in order to provide the child with a replacement. The protocol for such cases which is implemented through a multidisciplinary team approach in Leeds will be presented to support the argument that replantation of avulsed teeth, however poor the prognosis, is beneficial. Premolar transplantation into good quality bone secured through such an approach of managed replacement resorption results in an excellent outcome. Some argue against replanting such teeth but a high success rate for our multidisciplinary approach will be reported to support the argument that replantation should more often than not be carried out as a matter of routine as long as proactive bone management in the region is carried out through monitoring of root resorption and infraocclusion and wherever required by prompt decoronation to maintain alveolar bone margins.

### 5. Preventive programs in public and private clinics

#### Carries risk assessment and prevention among preschool children in a private practice

*Ernest Cholakakis & Carla Cohn*

Incorporating a well structured caries risk assessment and preventive model in your private practice will lower the caries risk profile for your young patients. Our clinical experience with our evolving Previstat Model has demonstrated and proven sustainable caries reduction. We will show you how to shift your practice focus from symptom relief to true preventive care. By translating the vast literature for you, into simple workable clinical routines, private practitioners can efficiently: 1) Identify the dominant risk factors 2) Quantify them 3) Prescribe the appropriate preventive treatments. Thus transforming dental offices into cavity free centres. Focus will be risk assessment and prevention for children 0 – 5 years of age.

#### Carries risk assessment as an evidence-based tool for early diagnosis and intervention for pre-school children

*Francisco Ramos-Gomez*

Caries rates in children, especially aged 2-5 years, have increased in recent years. The CAMBRA (Caries Management by Risk Assessment) tool, designed for 0-5 year olds, offers a new disease prevention management model that integrates risk assessment of childhood caries as a vital part of a comprehensive oral health visit. Information obtained through CAMBRA can guide providers on the optimal periodicity schedule and frequency of dental visits based on individual age and risk and allows selection of the best care paths and self management goals (anticipatory guidance) to effectively treat and manage caries disease process. This summary article presents a practical, updated approach to facilitate better oral health for young children and to offer a powerful response to ECC in the US. CAMBRA assists providers in a structured manner to: 1. Assess each child and their caregiver in an individualized manner, based on age and risk at each visit on their dental status and managing risk for disease progression at a very early age, 2. Does allow providers to tailor a specific "care path" or preventive therapeutic management plan, before deciding in a surgical modality of "drill and fill". 3. Plan for timely and specific appropriate periodicity schedule based on risk, and, 4. Ensure in a dual parallel track of "dyads", specific guidance for the caretakers with targeted self-management goals based on the age, risk and need of each individual patient at any given time. In a disease preventive management approach, there are six basic steps in Infant Oral Care comprehensive oral health assessment for the Age One visit as recommended by the American Academy of Pediatric Dentistry (AAPD) and American Academy of Pediatrics (AAP). Caries Risk Assessment or CAMBRA is the first of these six critical steps, giving the provider more information to help them consider the risk and health status of each patient before beginning the exam. Proper positioning of the infant or child is the second key step. For infants and children up to age three, a knee-to-knee position is used. The next steps are, a toothbrush prophylaxis, a clinical exam for early detection of white spot lesions or early enamel demineralization, a Fluoride Varnish application, and finishing with the anticipatory guidance and self-management goals with a brief motivational approach to convey to the caregiver the importance and the value of healthy teeth. The CAMBRA tool or Risk Assessment technique has three specific domains: 1. Risk and or Biological factors such as continual bottle use, sleeping with a bottle, frequency and types of snacks, child taking any medications and some other risk factors; 2. Protective factors with questions such as the use of fluoridated tap water, use of fluoridated toothpaste or the use of xylitol in a continuum basis, 3. Clinical findings where providers can assess the presence of early demineralized enamel surface, or cavities at very early age, presence of plaque, lack of salivary flow, etc.

## Improving perinatal and infant oral health

*Yasmi Crystal*

Early childhood caries and severe early childhood caries continue to be a public health problem for specific communities throughout the world. Colonization of cariogenic bacteria from mother to child has been well documented. Early colonization in infants of mothers with poor oral health, increases the caries risk, the severity and extent of the disease process. The consequences of poor oral health in childhood can have a lifelong impact, so pregnancy and early childhood are particularly important times to access oral health care. Perinatal oral care, early preventive intervention, age one visits and parental education are proven measures for caries prevention on populations at risk, however, establishment of successful programs to implement these measures has proven to be challenging regardless of the system of healthcare delivery in different countries. In the US, the public and many dentists are still unaware of the limited risks compared to the great benefits of delivering dental treatment and maintaining optimal oral health on expectant mothers. The majority of pediatric health care providers are still not referring children to a dentist at age one or when the first tooth erupts. Several organizations have developed programs to address these issues, like the AAPD's "Improving Perinatal and Infant Oral Health Project" which aims to expand availability and raise awareness of prenatal and infant oral health care and the AAP's "Bright Futures" and "Brightening Oral Health" which provide with treatment guidelines and the necessary support for their implementation so pediatric health care providers can incorporate oral health evaluations and pertinent preventive services during well child visits. Other state and local programs that promote access and collaboration between health specialties to improve perinatal and infant oral health in communities at risk will also be discussed.

## Evidence is global, guidelines are local

*Svante Twetman*

It seems to be some confusion concerning the meaning of the terms "scientific evidence", "evidence dentistry" (EBD) and "clinical guidelines". Evidence are based and strictly graded on high -based -quality systematic reviews of controlled clinical trials that are critically assessed according to predefined criteria. Such evidence is valid globally and should form the platform for population-based primary prevention, that is, measures directed to all citizens in a community according to the common risk factor approach. Lack of evidence does not necessarily mean that an intervention or a technique should be disqualified. Moreover, scientific evidence cannot decide the best treatment for each patient and it is here where EDB is coming in. EBD is a process defined as "an approach to oral health care that requires the judicious integration of systematic assessments of clinically relevant scientific evidence, relating to the patient's oral and medical condition and history, with the dentist's clinical expertise and the patient's treatment needs and preferences." Thus, it is important to stress that EBD is an integration of best research evidence with clinical expertise in order to manage the individual patient in an effective and cost-efficient way. Local clinical guidelines or treatment recommendations issued by various organizations are thought to harmonise interventions for groups of patients and should preferable also build on best available evidence. Such guidelines must however be adjusted for national and/or local epidemiology, socioeconomic conditions, traditions, laws and regulations. Guidelines must also deal with the lack of scientific evidence and often issue recommendations based on "good clinical practice", common sense or consensus statements. The cornerstones for population-based as well as individual preventive action are fluoride, fissure sealants and empowerment. The talk will provide some examples of evidence and guidelines for the best professional and self-care methods to prevent caries in children and adolescents.

## 6. Essentials in caries management - risk assessment and fluoride

### Caries: Where are we today?

*Nigel Pitts*

This presentation will provide an overview of recent International joint working and initiatives to promote the standardisation of evidence based approaches to caries terminology, caries classification and caries management. The recent work led by the ICDAS Foundation will be reviewed. This activity started with a clinical visual scoring system which has been developed from a systematic review of earlier systems and is intended for use in dental education, clinical practice, research and epidemiology. ICDAS is designed to lead to: better quality information to inform decisions about appropriate diagnosis, prognosis and clinical management at both the individual and public health levels. The ICDAS Foundation has also been working to provide a framework to support and enable personalised comprehensive clinical caries management for improved long-term outcomes and has developed, with partners, an open International Caries Classification and Management System, the ICCMS™. The ICCMS™ has a number of modules of variable complexity suitable for different applications. The ICCMS™ can be used to help deliver: 1) Epidemiological and Clinical Research, 2) Prevention-focussed Clinical Caries Control for individual patients in dental practice, 3) Population focussed Health Promotion & Prevention in Public Health and 4) Standardized and Evidence Based Cariology Education. This framework provides an overall structure with which to view the important contributions to clinical caries management which can be made by risk assessment and the use of fluorides.

### Caries risk assessment: How and when?

*Svante Twetman*

Risk assessment is an essential component in the decision-making process for the prevention and management of dental caries. Multiple risk factors and indicators based on diet, oral hygiene and past caries experience have been proposed as predictors for future caries, varying with the age group at which they are targeted. How?: Systematic reviews have concluded that there is a strong body of evidence to support that previous caries experience is the single best predictor for future caries development and that the usefulness of additional risk factors is questionable for schoolchildren and adolescents. In preschool children however, prediction models which include a variety of risk factors seem to increase the accuracy of the prediction. Family caries experience, transmission-related behavior, mutans streptococci counts, dietary habits, health beliefs, low family income and inadequate exposure to fluoride are important factors to consider for a comprehensive risk assessment in toddlers and preschool children. Computer-based risk assessment tools such as the Cariogram may be of didactic use for patient's understanding. When?: Longitudinal clearly show that less than half of the children remain in the same risk category over a period of time (2 yrs). Consequently, regular risk assessments are needed in order to make appropriate decisions on recall intervals and to develop an individualized and targeted preventive management plan. The outcome of the risk assessment should be decisive for the interval to the next recall.

## Fluorides--insights in how they work

*Adrian Lussi*

The onset of caries is characterised by only microscopically visible sur-face demineralisation on dental hard tissues. Changes of diet and/or oral hygiene habits in combination with optimal fluoridation may stop the progression of a lesion and even allow its remineralisation. The aim of modern dentistry must be a preventive approach rather than invasive repair of the disease. In this context fluoride has an exceptional position. The role of fluoride in caries prevention represents one of the most successful stories in public health. However, the exact mode of action was not well understood for years and still today there are open questions. This lecture will deal with the mode of action and its implication for daily practice.

## Clinical success with different intensive fluoridation measures

*Klaus Pieper*

Fluorides are applied as low concentrated toothpastes and mouthrinses or as higher concentrated varnishes and gels. A brief review of meta-analyses and Cochrane Reviews illustrates the effects that can be achieved with these measures. In addition, we report our own results out of two studies focusing on the effectiveness of a children's toothpaste (with 500 ppm fluoride) and a fluoride varnish. Study 1: Two- to four-year-old children attending kindergartens were randomly allocated to two groups. Children in the test group participated in daily supervised toothbrushing with 500 ppm fluoride toothpaste. Children in the control group received instruction on toothbrushing three to four times a year. After 30 months, the caries increment of the test group ( $\Delta$  dmf-s=1.55) was 24% lower than that of the control group ( $\Delta$  dmf-s=2.02,  $p=0.043$ ). The results of this study show that a 500 ppm fluoride toothpaste is effective when applied on a daily basis. Study 2: Selective intensified prevention (SIP) including fluoride varnish applications four times per year was introduced at individual schools in underprivileged areas in Marburg County in 1995. The effectiveness of this program was evaluated in sixth graders (mean age: 12.06) in comparison with a control region. Caries was recorded using the ICDAS II. Combining ICDAS scores 3 to 6, children from the control region (mean D3-6MFT: 1.73) showed roughly double the caries seen in the test group (mean D3-6MFT: 0.88,  $p < 0.005$ ). The results indicate a clear effect of frequent fluoride varnish applications in underprivileged children.

## 7. Recent advances in the oral care of children with special needs

### Autism Spectrum Disorder- Strategies for Management

*Nicky Kilpatrick*

Autism Spectrum Disorders (ASD) are a group of neurodevelopmental disorders characterized by communication and social impairments which make day to day activities such as visiting the dentist challenging. It may affect up to 1% of the population and as such is placing increasing demands on educational, health and social service providers. This presentation will summarise the oral health status of individuals with ASD and outline some evidence based strategies for optimizing their oral health and general well being.

## Lasers in the use of soft tissue disorders in special care children

*Rita Cauwels*

Laser application is one of the latest developments in the field of dentistry. Nowadays there is a wide range of lasers with varying wavelengths, with different properties and corresponding purposes. They are not only applied on hard dental tissues, also mucosal lesions can be treated. Soft tissue therapy, by means of wound healing or minor surgery, poses often a challenge to the practitioner. In the special care patient it is important to notice that almost no local anesthesia is required. One of the benefits of laser surgery lies in the fact that it seals capillaries and lymphatic vessels directly while cutting, giving an almost bloodless operation field and better control of bleeding complications, for example in patients with coagulopathies. Thanks to a better control over postoperative edema, less intra- and post-operative pain is known, thus diminishing the need for medication. Moreover, it is documented that the laser creates locally sterile conditions. Also, wound healing does not necessitate wound dressing, and sutures can be avoided. Lasers with low energy are known to have a positive influence on healing by stimulation of metabolic processes in the surgical area. The purpose of this lecture is to inform about laser therapy as an alternative or supportive means to conventional therapies.

## Novel applications of fluorides for the caries-risk patient

*Kyriacos Jack Toumba*

The latest fluoride research is investigating the use of slow-release devices for the long-term intra-oral provision of fluoride. 174 high caries-risk children aged 8 years with fluoride slow-releasing glass devices were shown to develop 67% fewer new carious teeth and 76% fewer new carious surfaces in a 2-year double-blind caries study. There were 55% fewer new occlusal fissure carious cavities showing that occlusal surfaces were also protected by the fluoride released from the devices. The fluoride devices release low levels of fluoride for at least 2 years and have great potential for use in preventing dental caries in high-risk groups and irregular attenders in addition to a number of other applications.

## Improving oromotor function in children with Down syndrome

*Clive Friedman*

Children with Down syndrome have anatomical and physiological anomalies in the oral pharyngeal area that makes it more difficult for them to accomplish oral health related tasks such as eating, chewing, swallowing, drinking and speaking. Although some anatomical differences may be noted some authors contend that these are related to poor early interventions with respect to feeding at birth. Anatomical and physiological differences seen often include small maxillae, high palatal arch, bruxing, flaccid oral musculature. Many also manifest with hyper or hypo sensitive reactions to touch around the oral area. This presentation will look at some of the research that has been done in the adult down population and show how it has been applied in the pediatric population. A combination of approaches that have been used in a private practice setting will be used to highlight some of the alternative approaches to care and subjective responses of parents to these interventions will be discussed. Approaches that will be discussed include sensory integration, extra-oral massage, use of glass ionomers to change the occlusion, and various appliance therapies.



## 8. Oligodontia and ectodermal dysplasia in children and adolescents: Diagnosis, habilitation and indications for dental implants

### Clinical and genetic diagnostics in ectodermal dysplasia

*John Timothy Wright*

The ectodermal dysplasias (ED) are a clinically diverse and genetically heterogeneous group of conditions affecting the development of ectoderm and its derivatives. The current classification makes all conditions with two or more affected ectodermal derived tissues an ectodermal dysplasias. There are currently over 150 conditions classified as ED. The most commonly affected tissues include, hair, teeth, skin, sweat glands, and fingernails. Clinical manifestations also can include cleft lip/palate and limb defects. The oral manifestations of missing and conical shaped teeth can be important in the diagnosis of ED. Since the first ED gene was discovered in 1996, the molecular etiologies of over 50 of the EDs have been reported. Not surprisingly genes leading to different forms of ED are diverse in their function. Mutations in multiple genes in the NF- $\kappa$ B pathway lead to hypohidrotic and other forms of ED. ED can be caused by genes that are involved in cell adhesion, the Wnt pathway, transcription factors and gene expression regulation, and cell communication and signaling pathways. Identifying the genetic mutations and the role of genes such as P63, DLX3, NEMO, EDA, WNT10A, and their associated molecular pathways during development is greatly increasing our understanding of the pathogenesis of the diverse ED conditions. This knowledge is helping us understand how so many diverse EDs can result from allelic mutations in the P63 gene. Recognizing the clinical manifestations of the different ED conditions is the critical first step in diagnosing EDs and to narrow the search for the appropriate genetic analyses.

### Multidisciplinary treatment in children with ectodermal dysplasia.

*Johanna Norderyd*

The severity of the symptoms in ectodermal dysplasia (ED) vary and is for some families a source of daily worries and complications. The paediatric dentist may be the first professional to suggest the diagnosis of ED since delayed eruption of teeth, aberrant tooth shape, and oligodontia are distinct symptoms. Oligodontia may affect chewing ability, speech, and aesthetics, so early treatment is often favourable in order to give the child good oral function and appearance. Oral habilitation in children necessitates consideration of the dental and oral conditions as well as of the growing child's physical and psychological development. It is important to avoid dental fear since the individual with ED is likely to need dental treatment several times during childhood, adolescence and young adulthood and therefore behaviour management methods in combination with the adequate use of sedation and pain control measures are essential. Due to the complexity in treatment planning of children with oligodontia, a multidisciplinary team approach is beneficial and the team should preferably include the disciplines of paediatric dentistry, orthodontics, prosthetic dentistry, and maxillofacial surgery. The patient and parents should always be involved in the treatment planning and be informed about short- and long-term treatment options. Aesthetic improvement of existing teeth should be done early if requested. Removable dentures at an early age may also be beneficial for some children. Treatment with fixed dental prostheses should be evaluated at early school age according to individual needs and indications. The oral care programme for ED suggested by the consensus conference in Jönköping in 1998 will be discussed and examples of multidisciplinary treatment of children with ED will be presented.

### Treatment with dental implants in children with ectodermal dysplasia

*Birgitta Bergendal*

Dental implants are reported to be used mostly in boys with x-linked hypohidrotic ectodermal dysplasia (ED). The only indication for early treatment is anodontia of the lower jaw. In these cases dental implants are generally advocated from age 6 when the median suture of the mandible is closed. In cases of severe oligodontia, where there are some primary teeth, these can be used to support removable as well as fixed prostheses from around three years. Therefore treatment with dental implants can most often be postponed until growth is completed, following general recommendations for implant treatment in young individuals. Until now, half of publications on the use of dental implants in individuals with rare disorders reported on treatment in individuals with EDs, who constituted three-quarters of the treated patients. The only prospective clinical study on implants in EDs, reporting on 51 children and adults, found a survival rate of 91% in the anterior mandible, and 76% in the anterior maxilla. One in four individuals had a failed implant, and most of the failures occurred before second stage surgery. Most other studies report on small materials and single cases. Though most publications report successful results, implant failures have been reported in recent years in young children with hypohidrotic ED. A picture of higher implant failure risk in individuals with hypohidrotic ED is emerging, with early failures before second-stage surgery, why the process of osseointegration seems to be compromised. The EDA gene is expressed by osteoblast secretion during skeletal development and, thus, mutations in this gene may affect also bone formation. Disturbed ectodermal-mesenchymal signalling seem to affect bone tissue, which may help explain higher rates of complications and failed implants in hypohidrotic ED. The literature on use of dental implants in EDs will be reviewed, and examples of treated patients will be discussed.

## Invited Lectures

### 1. Evidence based Class II treatment with headgear and functional appliance

*Stella Efstratiadis*

Patients of Class II division 1 malocclusion can be treated in late mixed dentition or early permanent dentition. The dilemma of using a functional appliance or head gear is often present. The choice of the type of functional appliance or headgear in the orthodontic armamentarium is considerable. In this presentation, a prospective, randomized clinical study of 60 children with Class II division 1 malocclusion will be discussed. Using conventional cephalometric and regional superposition methods, we compare the effects of the Fränkel functional regulator (FR II) versus the straight pull head gear (HG) on the dentition, occlusion, and jaw displacement. Evidence based orthodontic treatment is possible and should be our goal in clinical orthodontic practice.

### 2. The Caries infiltration technique in paediatric dentistry

*Ulrich Schiffner*

The infiltration technique aims to arrest early carious lesions and to prevent them from further demineralization. An important condition for successful infiltration is that there is no cavitation of the carious surface. Studies show that approximal caries starts to develop during adolescence and in young adults. Thus, a target group of patients suitable for approximal caries infiltration are adolescents, making the infiltration technique a matter of paediatric dentistry. White spot smooth surface lesions which might occur after debonding of fixed orthodontic appliances are a further indication for infiltration which is related to adolescents. Clinical studies on approximal caries progression in adolescents and young adults have shown that the infiltration technique is able to reduce lesion progression significantly. After 2 years, 74 % of infiltrated lesions exhibited no signs of progression, while control lesions were arrested in only 37 %. In primary teeth, a similar therapeutic effect following the infiltration of approximal lesions has been shown after 1 year. Radiographically, 23 % of the infiltrated lesions, but 62 % of fluoridated control lesions had progressed. The ability of the infiltration technique to mask post-orthodontic white spot lesions, in some cases even to mask developmental enamel defects, has been shown. In conclusion, the infiltration is a useful procedure to arrest and prevent further caries in paediatric dentistry, performing significantly better than other non-operative treatments.

### 3. Advances in orthodontic materials and their impact on clinical practice

*Theodore Eliades*

The objective of the presentation is to critically review the advances in orthodontic treatment which derive from the introduction of new materials and techniques. The lecture lists the recent developments in miniscrews, aligners and brackets and emphasizes the role of bracket materials (ceramic, plastic, Ti); design (conventional and self-ligating); and manufacturing method (MIM, brazed, and laser-welded) in treatment. The effect of incorporating these advances on various treatment variables such as duration of treatment, dental effects, and periodontal and oral flora alterations is presented based on clinical evidence, mainly randomized clinical trials and systematic reviews. Lastly, the selection of bracket material, design and manufacturing process is discussed, and suggestions for a justified use of appliances are made for practitioners.

### 4. DIAGNOcam: Clinical potential of a new optical device for caries detection and diagnosis

*Jan Kühnisch*

Clinical caries detection, diagnosis and monitoring is challenging on proximal and occlusal surfaces. Therefore, additional tools are highly recommended to achieve the aim of early caries detection at these caries-susceptible sites. In daily dental practice bitewing radiographs are frequently used as the method of choice to compensate the drawbacks of the clinical investigation. Unfortunately, the prescription of bitewings is limited due to the potential hazards of ionising radiation. In addition metal artefacts, i.e. due to orthodontic appliances, and overlapping projections of neighbouring teeth limit the diagnostic abilities of bitewing radiographs under real clinical conditions. With the aim to develop tools which can be recommended unreservedly optical methods gained more and more attention within recent years. Out of several instruments the DIAGNOcam device (KaVo, Biberach, Germany) seems to be have the potential for clinical application especially on proximal surfaces. The device is using an aligned light source to illuminate the tooth crown through gingiva and alveolar bone. A CCD sensor is used to capture the grey level image from the occlusal perspective. Such images provide detailed information about the caries extension into enamel and dentin also on proximal sites. Bearing in mind the pre-commercial stage of development future studies have to be conducted to evaluate the validity, reproducibility, ability to monitor caries lesions and clinical practicability. Nevertheless, first clinical applications have shown the potential to detect and diagnose visually non-detectable enamel and dentine caries lesions in the primary and permanent dentition in an early stage.

### 5. Fungal infections in children

*Helen Papadogeorgakis*

The incidence of fungal infections in children is increasing worldwide presenting a challenge to healthcare professionals. In immunocompetent children this increase is related to the exposure and direct contact to infected humans, animals and soil as a result of the close contact due to sports, household pets, crowded living conditions and suboptimal hygiene. Immunocompromised children especially those on intensive chemotherapy and immunosuppressive drugs are more prone to systemic fungal infections which can have an intriguing clinical appearance and can be life threatening. Most fungal infections in children are superficial infections that affect the stratum corneum of the skin and the keratinized tissue such as hair and nails as well as the mucous membranes. Neonates are prone to infections due to *Candida* spp. Children and adolescents are mainly affected by dermatophytes. *Malassezia* spp. infections are usually seen in young adolescents when sebaceous glands first appear. Central venous catheters and arterial lines, mechanical ventilation and wide use of antimicrobials, corticosteroids or immunosuppressive drugs are the main causes of invasive fungal infections in children. *Non albicans* (NAC) spp. and *Aspergillus* spp. are the two more often encountered causes of infection. Zygomycosis is also an emerging fungal infection with high mortality in immunocompromised children. In this review we discuss the usual causes of superficial as well as invasive fungal infections in children, their laboratory diagnosis together with their epidemiology in order to understand the best therapeutic approach for the affected child.

### 6. Genetic perspectives in paediatric dentistry

*Irma Thesleff*

Scientific breakthroughs during recent years in the fields of genetics and developmental biology have rapidly increased our understanding of the roles that individual genes play in the regulation of tooth development, and of the gene mutations causing congenital defects in teeth. Most of the important genes function in mediation of signalling between dental cells during early tooth development. Deletion of the function of many such genes in mice arrests tooth development and the mice have no teeth. There are many human conditions where mutations in these genes cause oligodontia (the lack of more than 6 teeth). Because the same genes regulate the development of other tissues and organs as well, these patients have usually additional symptoms, most often in hair and exocrine glands. Gene mutations which cause supernumerary teeth, abnormal tooth shapes, and aberrations in dental hard tissues have also been identified. The new knowledge is already used in the diagnosis of some dental defects and can soon be expected to lead to novel possibilities to

prevent certain disorders, in particular ectodermal dysplasia. There are also hopes that the new information could be used in the future for regeneration of dental tissues, perhaps even bioengineering whole new teeth.

## 7. Stem cells-based therapeutics in paediatric dentistry

*Petros Papagerakis*

Background: Dental tissues regeneration provides attractive alternatives to existing tooth restoration therapies. More than cosmetic application tooth organ regeneration is needed for patients of trauma and severe tooth abnormalities. Numerous genes control embryonic tooth development and define the various dental territories (i.e., incisors, canines, premolars and molars) in the mouth, as well as the number, shape, size and color of the teeth. A stem cell-based strategy for tooth regeneration must combine stem cell populations with adequate signaling molecules. Aim: Our aim is to isolate adult and pediatric dental stem cells populations and evaluate their potential to regenerate dental tissues. Design: As starting material we used impacted third molars from young patients and exfoliated primary teeth. Using a variety of techniques we isolated unique stem cells that were directed to regenerate enamel, dentin and cementum in vivo. Results: We report here that our unique stem populations can generate human dental tissues in vivo when grafted subcutaneously in the nude mouse. Transmission Electron Microscopy shows crystal mineral depositions characteristic of dentin, cementum, and enamel as well as profiles of odontoblast, cementoblast and ameloblast-like cells. Conclusions: Although the prospect of tooth regeneration using stem cells is very attractive and our results very promising, it is not likely that they will replace routine clinical dental practices in the near future. However it is clear that the rapid scientific and technological advancement will provide new information and solutions that may allow regenerated teeth to become a routine treatment for individuals with missing or diseased teeth.

## 8. From pulp protection and healing to pulp-dentine regeneration

*Demitrios Tziafas*

The challenge of the today dental research is to integrate advanced biological knowledge into the clinical problems of dental practice. For many years practitioners in Pediatric Dentistry have been used therapeutic approaches in primary or young permanent teeth aiming to protect the pulp in unexposed cavities or stimulate wound healing in pulp exposures affected by caries, physical trauma or iatrogenic procedures. Discussions are still open about the ability of traditional materials (zinc oxide-eugenol, calcium hydroxide, formocresol, ferric sulphate, glass ionomers, resins) or newer materials (MTA, biodentine) to create an environment able to effectively oppose exogenous stimuli including bacteria/toxins, or toxic substances from restorative materials. It has been well recognized that the questions on validity of techniques using these materials cannot be answered in absence of high-quality randomized clinical trials. Furthermore, it is generally accepted that the nature and specificity of the biological mechanisms by which the amputated dentine-pulp complex is therapeutically healed determine the properties of the newly formed matrix and play a critical role in the outcome of dental treatment. Based on this concept dental scientists started to explore the potential of regenerative and tissue engineering-based strategies to design new therapies in clinical dentistry. One of the most exciting directions of research in the fields of Pediatric Dentistry and Endodontology is to design new treatment modalities for the indirect and direct pulp capping situations. Experiments in a wide range of ex vivo and animal models repeatedly confirmed that the trans-dentinal stimulation of new dentine formation in unexposed cavities or the partial at least reconstruction of the lost dentine in exposed pulps are therapeutically possible. Traditional techniques and promising regenerative approaches are reviewed in this presentation.

## 9. Influence of the neck dimensions of pacifiers on flexibility and intra-oral force distribution

*Hans-Peter Bantleon*

Background: A pacifier may be seen as child's first oral appliance. Yet little research is available on the ideal properties that will facilitate a natural dentoalveolar development. Aims: The aim of the study was to test the influence of a pacifier's neck-dimensions on its flexibility and ability to allow for a desirable intraoral force distribution. Materials & Methods: 13 different silicone pacifiers were included in this study. The precise neck-dimensions were obtained using an optical measuring method. 5 samples of each pacifier were subsequently put into a measuring machine. This machine consisted of three sensors, that could be independently adjusted and measure force and distance in two dimensions. Two of those sensors represented the upper and lower dentition and enclosed the pacifier's neck with a defined force of 200 cN. The third sensor was used to apply force to and thereby elevate the pacifier's head in place of the tongue. Results: Vertical neck-dimension ranged from 2.28 to 10.15 mm. A mean of  $46.55 \pm 17.08$  cN was required to lift the pacifier's head 2.6 mm. At this position, the Pearson coefficient showed a strong and highly significant correlation ( $r=0.882$ ;  $P<0.01$ ) between the applied force and the neck's vertical diameter. For a linear regression the coefficient of determination  $r^2$  was calculated at .778. Similar results were obtained after further elevation to 5 mm:  $r=0.845$  ( $P<0.01$ );  $r^2=0.714$ . Conclusions: The results suggest a strong influence of the neck's dimensions on the pacifier's overall flexibility. A more flexible pacifier should provide less resistance to the natural position of the tongue and also less undesirable force on the alveolar processes and dentition during their development. While a thin neck should therefore be recommended, other parameters like acceptance and durability also have to be considered in an ideal pacifier's design.

## 10. The role of a clinical dietitian in preserving paediatric dental health

*Kalliopi-Anna Poulia*

It is well established that a balanced nutrition and healthy dietary habits can contribute to the development and maintenance of healthy teeth, especially in childhood, and at the same time dental integrity secures the consumption of a varied and healthy diet throughout the life cycle. Nutrition and diet undoubtedly impact on oral health in different ways. Dental erosion in children is due to a combination of factors including colonization of teeth with cariogenic bacteria, type of food and frequency of exposure of this food to the cariogenic bacteria and susceptible teeth. Sugars are considered the most cariogenic substances of food, especially when they are consumed in forms that remain in the mouth for longer periods. Fluoridated water and adoption of good oral hygiene habits even from the early year on the contrary seem to offer significant protective effects. Nutrition education should aim not only in children but mainly in parents, in order to assure the reduced exposure of the child to the cariogenic foods. More specifically, parents should avoid the provision of sugar containing drinks in a sippy cup or a bottle to the child and discourage the behavior of a child sleeping with the bottle. In addition to that they should reassure the adoption of eating patterns consistent with the Mediterranean Food Guide pyramid, clearing the oral cavity of the child quickly after the consumption of a cariogenic food and restricting snacks that are either sticky or slowly eaten. In conclusion,

along with nutritional factors, a comprehensive approach to preventing dental caries in children must include improved general dietary habits, good oral hygiene, appropriate use of fluorides, and access to preventive and restorative dental care.

## 11. MIH: A few more pieces of the puzzle?

*David Manton*

Molar Incisor Hypomineralisation (MIH) is a prevalent condition with more than one sixth of children affected in many diverse communities, and around 5% affected severely. The aetiological factors are still uncertain. The major physical defect of hypomineralised enamel is a decrease in hardness related to decrease mineral content. Subsequent to this, the prognosis of currently available restorative procedures is poor and extraction may be an eventual outcome. In collaboration with several people, our research group has investigated the physical characteristics of hypomineralised enamel and related this to its clinical performance and how it can be improved, including remineralisation and methods to improve resin bond strengths. This research will be discussed as well as recent prevalence and aetiological factor studies.

## 12. Longevity of restorative materials in primary and permanent dentition.

*Reinhard Hickel*

In the last decade numerous materials e.g. compomers, packable and flowable composites, nanofiller composites etc. were introduced and used clinically. The question is how these different materials behave in long term clinical results in comparison to GIC, amalgam or indirect restorations (inlays etc.). Longevity of dental restorations is dependent upon many different factors, that are dentist-, patient-, and materials-related. It has to be taken into account that clinical results of restorations are not only influenced by the restorative materials itself but also by type of adhesive, light curing and incremental techniques etc. Looking at failures one distinguishes between reasons that cause early failures, e.g. postoperative hypersensitivity and those that are responsible for restoration loss after several years of service, e.g. secondary caries or wear. Principal reasons for failure for ceramic restorations were fractures. Interestingly for the more recent studies fracture is also the most frequent reason for composite followed by secondary caries (new term: caries adjacent to restoration). The evaluators also can influence the results strongly. Therefore a new recommendation for conducting clinical studies has been published in 2007 (FDI criteria) [Hickel et al. 2007, Update 2010] which can improve quality and comparison of published studies, too.

## 13. Early diagnosis and treatment of periodontal disease

*Dorte Haubek*

The presentation will give an update on the role of the paediatric dentist in the management of aggressive periodontitis. Aggressive periodontitis is an inflammatory condition of the tooth-supporting tissues induced by microbial deposits. The aetiology of the disease is not fully understood and many factors may be involved. Recent findings suggest that the presence of a particular virulent type of the oral bacterium *Aggregatibacter actinomycetemcomitans* (Aa) in dental plaque is of importance in the aetiology of the disease. Particular focus will be given to the new information on and the clinical relevance of the occurrence of a highly leukotoxic JP2 clone of Aa in dental plaque. The JP2 clone of Aa is strongly associated with initiation of periodontal attachment loss among young people. Mapping of the geographic occurrence of the JP2 clone of *A. actinomycetemcomitans*, with an estimated origin some 2,400 years ago, has revealed that its colonization is largely restricted to individuals of African descent. Characteristic mutations allow JP2 clone isolates obtained from individuals from the Mediterranean region to be distinguished from isolates obtained from individuals originating from West Africa. These findings suggest that the JP2 clone initially emerged as a distinct genotype in the Mediterranean region of Africa and subsequently spread to West Africa, from where it might have been transferred to the American continent during the transatlantic slave trade. Today, the JP2 clone has today been spread to many countries worldwide by human migration. However, the finding of a sustained selective colonization with the JP2 clone of individuals of African descent, despite geographical separation from the African continent for centuries, indicates that the JP2 clone might have a distinct host tropism. This aspect has to be studied further in the future. Indications for a potential use of microbial diagnostic testing in the paediatric dental clinic will be discussed.

## 14. Aesthetic stainless steel crowns.

*Anna Fuks*

The demand for esthetics has grown significantly for adults and children alike. A recent survey has reported that pediatric dentists did change their professional preference in order to comply with the parental desire for esthetics for their children. Excellent esthetic appearance with acceptable longevity has been obtained for resin-based crowns (strip crowns) for decayed and/or fractured anterior primary incisors. These crowns are perhaps the most esthetic of all the restorations available to treat severely decayed primary incisors, but are also the most technique sensitive. Veneer stainless steel crowns (SSC) have also gained popularity with good esthetics, particularly when the utilization of strip crowns is no longer indicated (severely subgingivally decayed teeth and/or when severe tooth discoloration due to trauma or root canal treatment is present). This presentation will cover the indications for the use of veneer SSCs and describe a step to step approach to the technique.

## 15. Nd YAG laser application for the management of soft and periodontal tissues

*Ioannis K. Karoussis*

NdYAG laser is a useful technology applied in several therapeutic procedures in the oral cavity, including gingivectomy/gingivoplasty, frenectomy and operculum removal. NdYAG laser presents adequate penetration depth in soft pigmented tissues, achieving a decent hemostasis, in relation to other laser devices. The advantages of laser treatment over conventional methods make it a friendly procedure for the patient. Reduction or elimination of post surgical intolerance, need for local anesthetics, suturing, pain medication and antibiotics, are some of the advantages of the use of laser. During this lecture, the applicability of NdYAG laser therapy in pediatric patients will be analyzed. Clinical cases of pediatric patients will be presented, where the patients underwent soft tissue surgery with the application of NdYAG laser. Additionally, the currently available literature evaluating the efficacy of the NdYAG laser treatment in soft tissue surgery in pediatric dentistry will be evaluated. The accumulation of knowledge and experience about laser based therapy in the last years, support the conclusion that the application of NdYAG laser in pediatric patients constitutes a treatment option which is very friendly and highly acceptable, even in cases of young patients. In the vast majority of cases, little or no post-surgical discomfort can be achieved.



Furthermore, a reduced need for local anesthesia as well as minimal swelling and reduced operation time constitute key factors that make the application of NdYAG laser very useful in manipulating soft tissues in pediatric patients.

## 16. The use of NiTi rotary instruments in endodontics: a critical approach

*George Kostouros*

The Ni-Ti rotary endodontic files have become a necessity for the clinician who wants to perform an up to date root canal treatment. Numerous systems have been developed, each one of them promising an effective and easy way of chemomechanical preparation of the root canal system. The debate whether hand instrumentation can be abandoned by those systems keeps on. Most researchers and clinicians agree that, up to now, no rotary system can produce a totally clean and perfectly shaped root canal. However, it is true that, when used thoroughly, rotary files can be of great help to the clinician. A critical approach to the use and limitations of such systems is essential, should one want to take advantage of the unique characteristics of Ni-Ti rotary endodontic instruments, without risking iatrogenic mishaps such as separation of the file, creation of ledges, transportation of the canal etc.

## 17. Child protection and the dental team

*Richard Welbury*

The expectation of most societies and cultures are that children should be protected from abuse, and professionals including dental practitioners and their staff, have an important role to play in safeguarding children. 'Safeguarding' is an activity undertaken to protect specific children who are suffering, or are at risk of suffering, significant harm. Additionally 'children in need' can be defined as those who require additional support or services to achieve their full potential'. If families can be supported at this stage there may be less requirement for child protection action, as potential crises may be averted. At least 50% of the signs of physical child abuse manifest in the orofacial and dentists and their staff are in an ideal position to alert child protection agencies to concerns about possible abuse. Indeed they may be the first, or only, healthcare workers to see an "at risk" child especially if they are attending either for a routine check or because of dental trauma. There are numerous reports in the literature where the dentist was the initial professional to suspect non-accidental injury. Orofacial injuries may occur in isolation or in conjunction with other injuries. The most common extraoral injuries are bruising, abrasions and lacerations, and less commonly burns, bites, fractures, eye injuries, and hair pulling. Intraorally bruises, abrasions and lacerations, and tooth trauma are all common. Dental neglect resulting in severe dental disease may be due to a parent or carer's lack of knowledge of its causation, or from difficulty accessing dental care. If such problems have been overcome and the child still fails to attend for continuing care then the question of dental neglect as part of general neglect should be considered. In such cases a multidisciplinary approach is required and the dental team should work with other health and social care agencies. There is now much evidence-based information on how children can be prevented from suffering abuse and it is up to all the professions who look after children to put into action the knowledge that has been gained.

## 18. Athens 2011 Special Olympics Special Smiles

*Steven Perlman*

Since its inception in 1994, Special Olympics Special Smiles has become the world's largest dental screening program for children and adults with intellectual disabilities. In 2011, over 220 programs will take place, 90 in the United States and over 130 internationally. With over 3.5 million athletes, Special Olympics has the world's largest database for people with intellectual disabilities. Special Smiles has many components. Its primary goals are; to conduct dental screenings and education at Special Olympics events, to increase dental professionals awareness of the oral health problems people with special needs face, and develop a body-of-knowledge about the oral health of children and adults with intellectual disabilities. In addition, it provides lists of regional dental professionals who will treat its athletes, help to implement dental education programs in professional schools, serve as advocates on standards and quality of care issues, establish a sports injury prevention program, develop and promote nutritional programs, work to help dental professionals recognize and report suspected physical and sexual abuse, and help to develop adaptive sports programs. Special Smiles is now part of a team with 7 health disciplines, including, vision, podiatry, medicine, physical therapy, hearing, nutrition and health promotion. From June 24 to July 4, 2011, more than 7,000 athletes from 180 countries, over 2,500 coaches and tens of thousands of people will participate in the 2011 World Summer Games in Athens. Hosted by the dental school in Athens and the Hellenic Dental Society, it promises to be an unforgettable experience. Special Olympics welcomes anyone interested in becoming involved in their country's programs to attend this session.

## 19. Caries risk assessment & management: How the early work on demineralization and remineralization led to an understanding of the caries process

**In memoriam Theodoros Koulourides**

*John D.B. Featherstone*

Early studies by Koulourides and others on the mechanism of demineralization and remineralization in the dental caries process have evolved over the decades into the concept of the caries balance. This concept is the underpinning for caries management by risk assessment. Effective management of dental caries is critical for the success of the general dentist and the pediatric dentist. Dental caries is a bacterially based disease that progresses when acid produced by bacterial action on dietary fermentable carbohydrates travels into the tooth and dissolves the carbonated hydroxyapatite mineral. Pathological factors, including acidogenic bacteria, salivary dysfunction, and dietary carbohydrates are related to caries progression. Protective factors, which include antibacterials, salivary calcium, phosphate and proteins, salivary flow, and fluoride in saliva can balance, prevent or reverse dental caries. Remineralization is the natural repair process for the early lesion. This presentation will summarize the science behind the "caries balance" concept, which is the key to caries management by risk assessment in clinical practice.

## ORAL PRESENTATIONS

### Oral Session O01/Orthodontics – Growth and Development

#### O01-1 Autogenous transplantation of impacted canines

M. KALAVRYTINOS

Department of Orthodontics, Dental School, University of Athens, Greece

#### O01-2 Examination of antimicrobial and anti-inflammatory effect of chlorhexidine gel in patients undergoing orthodontic fixed treatment

A. BEGZATI<sup>1</sup>, T. KUTLLOVCI<sup>1</sup>, B. XHEMAJLI<sup>1</sup>, A. BEGZATI<sup>2</sup>,

G. DAVID<sup>3</sup> & K. MEQA<sup>4</sup>

<sup>1</sup> Department of Pedodontics and Preventive Dentistry, Dental School of Prishtina, University of Prishtina, Prishtina, Kosov, <sup>2</sup> Department of Dentistry, Family Health Center, Obiliq, Kosova, <sup>3</sup> Ivoclar Vivadent, Liechtenstein,

<sup>4</sup> Department of Periodontology and Oral Medicine, Dental School, University of Prishtina, Prishtina, Kosova

#### O01-3 Managing class III malocclusion

A. TSOLAKIS, E. FERDIANAKIS, I. LYROS, D. KOLETISI,

M. KALAVRITINOS & I. BITSANIS

Department of Orthodontics, Dental School, University of Athens, Greece

#### O01-4 Incisor apical root resorption after orthodontic treatment of impacted maxillary canines. A radiographic study

M. MAVRAGANI<sup>1</sup>, E. M. GRAVDAL BRUSVEEN<sup>2</sup>, O. E. BØE<sup>3</sup>

& P. BRUDVIK<sup>2</sup>

<sup>1</sup> Department of Community Dentistry, Section of Orthodontics, Dental School University of Athens, Greece, <sup>2</sup> Department of Clinical Dentistry-Orthodontics and Facial Orthopedics, University of Bergen, Bergen, Norway, <sup>3</sup> Center for Clinical Dental Research, University of Bergen, Norway

#### O01-5 A proposed mechanism for congenitally missing teeth – basic and clinical evidence

G. KULKARNI & S. SHAH

Faculty of Dentistry, University of Toronto, Toronto, ON, Canada

#### O01-6 Use of Haavikko's method to assess tooth development in Chinese children

H. LIU & Y. WANG

Department of Pediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China

#### O01-7 Porphyromonas gingivalis biofilm formation on different types of orthodontic brackets

W. PAPAIOANNOU<sup>1</sup>, A. PANAGOPOULOS<sup>1</sup>, E. MAMAIHOMATA<sup>1</sup>,

M. MAKOU<sup>2</sup> & H. KOLETISI-KOUNARI<sup>1</sup>

<sup>1</sup> Department of Preventive and Community Dentistry, Dental School, University of Athens, Greece, <sup>2</sup> Department of Orthodontics, Dental School, University of Athens, Greece

#### O01-8 The role of periodontal ligament stem cells in physiological root resorption of human primary teeth

X.J. WANG<sup>1</sup>, L. J. SHANG<sup>1</sup> & Y. JIN<sup>2</sup>

<sup>1</sup> Department of Pediatric Dentistry, School of Stomatology, The Fourth Military Medical University, Xi'an, China, <sup>2</sup> Department of Oral Histology and Pathology, School of Stomatology, Fourth Military Medical University, Xi'an, Shaanxi, China

#### O01-9 Dental age estimation of Greek children using Demirjian's method

A. G. MITSEA & K. KARAYIANNI

Forensic Odontology Unit, Oral Diagnosis and Radiology Clinic, Dental School, University of Athens, Greece

### Oral Session O02/Cariology 1

#### O02-10 Mother's health and lifestyle in pregnancy and early life as risk indicator for caries in preschool children

T. I. WIGEN & N. J. WANG

Department of Paediatric Dentistry, Institute of Clinical Dentistry, University of Oslo, Oslo, Norway

#### O02-11 Caries-related dentine mineralization in children and adults

M. SHEVCHENKO, L. KISELNIKOVA, D. LEZHNEV & J. CHUIKO

Moscow State University of Medicine and Dentistry, <sup>127</sup>7<sup>3</sup>, Russian Federation

#### O02-12 A clinical study of a laser fluorescence device for detection of approximal caries in primary molars

J. CHEN, M. QIN, W. MA & L. GE

Department of Paediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China

#### O02-13 Change of treatment plan after taking bitewing radiographs in young children

T. BRETHOUWER, J. KRIKKEN & J. VEERKAMP

Paediatric Department, Academisch Centrum Tandheelkunde Amsterdam (ACTA), The Netherlands

#### O02-14 Dermatoglyphics: can we print the caries risk out?

N. TEWARI<sup>1</sup>, R. KUMAR-PANDEY<sup>2</sup> & C. VERMA<sup>3</sup>

<sup>1</sup> Department of Pedodontics and Preventive Dentistry, BabuBanarasiDas College of Dental Sciences, Lucknow, India, <sup>2</sup> Department of Pedodontics and Preventive Dentistry, Faculty of Dental Sciences, C.S.M. Medical University, Lucknow, India, <sup>3</sup> Department of Anthropology, Lucknow University, Lucknow, India

#### O02-15 Self-esteem, obesity and oral health among adolescents in United Arab Emirates

F.A. KHADRI, M. P. HECTOR & E. S. DAVENPORT

Barts and The London School of Medicine and Dentistry, London, UK

#### O02-16 Correlation between caries activity and plaque aciduricity. Support for the ecological plaque hypothesis

G. ANDREADIS & S. KALFAS

School of Dentistry, Aristotle University of Thessaloniki, Thessaloniki, Greece

#### O02-17 Evaluation of a school based mouth rinsing program to control caries

K. B. HALLETT<sup>1</sup> & P. K. OROURKE<sup>2</sup>

<sup>1</sup> Department of Dentistry, Royal Children's Hospital, Melbourne, Vic., Australia, <sup>2</sup> Queensland Institute of Medical Research, Brisbane, Qld, Australia

#### O02-18 Surface-specific efficacy of fluoride varnish in caries prevention in the primary dentition: results of a community randomized clinical trial

K. DIVARIS<sup>1,2</sup>, J. S. PREISSER<sup>3</sup> & G. D. SLADE<sup>4</sup>

<sup>1</sup> Department of Paediatric Dentistry, School of Dentistry, University of North Carolina, Chapel Hill, NC, USA, <sup>2</sup> Department of Epidemiology, Gillings School of Global Public Health, University of North Carolina, Chapel Hill, NC, USA, <sup>3</sup> Department of Biostatistics, Gillings School of Global Public Health, University of North Carolina, Chapel Hill, NC, USA, <sup>4</sup> Department of Dental Ecology, School of Dentistry, University of North Carolina, Chapel Hill, NC, USA

### Oral Session O03/Anaesthesia

#### O03-19 Comparing the onset of local anaesthesia and pain experience using conventional technique versus the Wand in children

P. KANDIAH & J. F. TAHMASSEBI

Department of Paediatric Dentistry, Leeds Dental Institute, UK

#### O03-20 Comparison of two computerized anaesthesia delivery systems; pain-related behaviour in children during two sequential dental visits

E. HEMBRECHT, J. NIEUWENHUIZEN, I. AARTMAN, J. KRIKKEN

& J. VEERKAMP

Department of Paediatric Dentistry, Academisch Centrum Tandheelkunde Amsterdam (ACTA), Amsterdam, The Netherlands

#### O03-21 Development of a web-based preparatory information tool for children undergoing general anaesthesia for dental treatment

M. ADDO<sup>1</sup>, C. LIOSSI<sup>2</sup>, T. NEWTON<sup>1</sup>, N. DONALDSON<sup>1</sup>,

P. REYNOLDS<sup>1</sup> & M. T. HOSEY<sup>1</sup>

<sup>1</sup> King's College London, UK, <sup>2</sup> University of Southampton, UK

#### O03-22 Oral sedation in toddlers and preschoolers; a behavioural analysis

C. D. VAN DIJK & J. VEERKAMP

Academisch Centrum voor Tandheelkunde Amsterdam, The Netherlands

#### 003-23 Conscious sedation by inhalation of 50% nitrous oxide and 50% oxygen

**S. THEYS, M. A. CAPELLE & C. PILIPILI**  
Université Catholique de Louvain, Paediatric Dentistry and Dental Care for Disabled Persons, Brussels, Belgium

#### 003-24 Influence of age and vertical facial morphology on the location of the mandibular foramen relative to the occlusal plane in growing patients

**J. F. EPARS, A. MAVROPOULOS & S. KILIARIDIS**  
University of Geneva, Geneva, Switzerland

### Oral Session 004/Syndromes and Genetics

#### 004-25 Multi-disciplinary dental treatment in a child with Amelogenesis Imperfecta

**A. BANIEL<sup>1</sup>, E. SHARON<sup>2</sup>, S. MENASHE<sup>3</sup> & J. SHAPIRA<sup>1</sup>**  
<sup>1</sup> Department of Paediatric Dentistry, Hadassah School of Dental Medicine, Hebrew University, Jerusalem, Israel, <sup>2</sup> Department of Oral Rehabilitation, Hadassah School of Dental Medicine, Hebrew University, Jerusalem, Israel, <sup>3</sup> Department of Endodontics, Hadassah School of Dental Medicine, Hebrew University, Jerusalem, Israel

#### 004-26 Complete microdontia in the primary and permanent dentitions

**B. DRUMMOND<sup>1</sup> & S. ROBERTSON<sup>2</sup>**  
<sup>1</sup> School of Dentistry, University of Otago, Dunedin, New Zealand, <sup>2</sup> Department of Women's and Children's Health, University of Otago, Dunedin, New Zealand

#### 004-27 The impact of the dental manifestations of ectodermal dysplasia on affected children

**E. ALIAKBARI<sup>1</sup>, A. WAYLEN<sup>2</sup>, N. KILPATRICK<sup>1</sup> & P. CRAWFORD<sup>1</sup>**  
<sup>1</sup> Paediatric Dentistry, University of Bristol Dental School, Bristol, UK  
<sup>2</sup> Oral and Dental Sciences, University of Bristol Dental School, Bristol, UK

#### 004-28 Down syndrome children in Kelantan, Malaysia: dental attendance and mother's oral health knowledge

**A. YUSSOF, N. ABD-RAHMAN, S. M. AHMAD-RAZIN & M. YAP**  
School of Dental Sciences, Universiti Sains Malaysia, Kubang Kerian, Kelantan, Malaysia

#### 004-29 Managing oligodontia in children and adolescents. The role of the multidisciplinary team

**E. KOTSIOMITI<sup>1</sup>, K. ARAPOSTATHIS<sup>2</sup>, A. E. ATHANASIOU<sup>3</sup> & A. PISSIOTIS<sup>1</sup>**  
<sup>1</sup> Department of Removable Prosthodontics, School of Dentistry, Aristotle University of Thessaloniki, Greece, <sup>2</sup> Department of Pediatric Dentistry, School of Dentistry, Aristotle University of Thessaloniki, Greece, <sup>3</sup> Department of Orthodontics, School of Dentistry, Aristotle University of Thessaloniki, Greece

#### 004-30 Oral rehabilitation with implant-supported overdenture in a child with Ectodermal dysplasia

**M. MONTANARI<sup>1</sup>, F. BATTELLI<sup>1</sup>, M. CALLEA<sup>2</sup>, F. RADOVICH<sup>2</sup>, G. CLARICH<sup>2</sup> & G. PIANA<sup>1</sup>**  
<sup>1</sup> Unit of Dentistry for Disabled, Unit of Oral and Maxillofacial Surgery, Department of Oral Science, Alma Mater Studiorum, University of Bologna, Italy, <sup>2</sup> Unit of Oral and Maxillofacial Surgery, Department of Odontology, IRCCS Burlo Garofolo Trieste, Italy

### Oral Session 005/Behavior Management 1

#### 005-31 The Scottish dental practitioner and their role in child abuse and neglect

**C. M. HARRIS, R. WELBURY & A. CAIRNS**  
Glasgow Dental Hospital and School, Glasgow, Scotland, UK

#### 005-32 Measuring dental fear using the CFSS-DS. Do children and parents agree?

**J. B. KRIKKEN, A. J. VAN WIJK, J. M. TEN CATE & J. S. J. VEERKAMP**  
Acta Department Pedodontlogy, Amsterdam, The Netherlands

#### 005-33 Children's accounts of dental treatment under general anesthetic

**M. HALL, Z. MARSHMAN, C. DEERY, H. RODD & F. GILCHRIST**  
School of Clinical Dentistry, University of Sheffield, Sheffield, UK

#### 005-34 Behavior management in paediatric dentistry – a videoanalysis

**K. SCHMIED<sup>1</sup>, P. FASSHEBER<sup>2</sup> & R. HEINRICHWELTZIEN<sup>3</sup>**  
<sup>1</sup> Private Practice Rittmarshausen, Germany, <sup>2</sup> Georg-August- Universität Göttingen, Georg-Elias-Müller-Institut für Psychologie, Abt. Wirtschafts- und Sozialpsychologie, Germany, <sup>3</sup> Universitätsklinikum Jena, Poliklinik für Präventive Zahnheilkunde, Germany

#### 005-35 The occurrence of parafunction in adolescents with various degrees of dental anxiety

**M. MIELNIK-BIASZCZAK & J. TOPOLSKA**  
Department of Paedodontics, Medical University of Lublin, Poland

#### 005-36 Child protection procedures in Greece: record of child abuse

**C. STAVRIANOS<sup>1</sup>, D. TATSIS<sup>1</sup>, E. SAMARA<sup>1</sup> & C. PAPADOPOULOS<sup>2</sup>**  
<sup>1</sup> Department of Endodontology (Forensic Odontology), Faculty of Dentistry, Aristotle University of Thessaloniki, Greece, <sup>2</sup> Department of Forensic Sciences (Forensic Odontology), University of Glamorgan, Wales, UK

#### 005-37 Dental anxiety in adults with attention deficit hyperactivity disorder

**M. BLOMQVIST<sup>1</sup>, S. BEJEROT<sup>2</sup> & G. DAHLÖF<sup>1</sup>**  
<sup>1</sup> Department of Dental Medicine, Karolinska Institutet, Stockholm, Sweden  
<sup>2</sup> Department of Clinical Neuroscience, Karolinska Institutet, Stockholm, Sweden

#### 005-38 Paediatric dental patients\_ attitudes to rubber dam

**M. FARMAN, H. ZAITOUN & H. RODD**  
Department of Paediatric Dentistry, Sheffield Dental School, UK

#### 005-39 Suitability of articaine with reduced epinephrine content for local anesthesia in routine dental treatment for children

**N. KRAMER<sup>1</sup> & M. DAUBLANDER<sup>2</sup>**  
<sup>1</sup> Polyclinic of Paediatric Dentistry, University of Giessen, Giessen, Germany  
<sup>2</sup> Polyclinic of Dental Surgery, University of Mainz, Mainz, Germany

### Oral Session 006/Cariology 2

#### 006-40 Consequences of severe early childhood caries on permanent teeth

**A. MUNTEANU, R. LUCA, C. FARCASIU, I. A. STANCIU & A. VINEREANU**  
Paediatric Dentistry Department, "Carol Davila" University of Medicine and Pharmacy, Bucharest, Romania

#### 006-41 Occlusal caries diagnosis in primary molars: an in vitro and in vivo study

**T. TEO & P. ASHLEY**  
Eastman Dental Institute, London, UK

#### 006-42 Effect of daily intake of probiotic bacteria on recolonisation of mutans streptococci after chlorhexidine suppression

**M. K. KELLER<sup>1</sup>, P. HASSLO<sup>1</sup> F<sup>2</sup>, C. STECKSEN-BLICKS<sup>2</sup> & S. TWETMAN<sup>1</sup>**  
<sup>1</sup> Department of Cariology and Endodontics, Faculty of Health Sciences, University of Copenhagen, Copenhagen, Denmark, <sup>2</sup> Paediatric Dentistry, Department of Odontology, Faculty of Medicine, Umeå University, Umeå, Sweden

#### 006-43 The effect of ozone gas on initial caries lesions in vitro

**L. HANSHANS & U. SCHIFFNER**  
Operative and Preventive Dentistry, University Medical Center, Hamburg, Germany

#### 006-44 Are we complying with RCS (ENG) guidelines on the extraction of first permanent molars with poor prognosis?

**M. AL-CHIHABI, A. GEDERI & C. BROWN**  
Paediatric department, Birmingham Dental Hospital, Birmingham, UK

#### 006-45 The additional diagnostic yield of bitewing radiographs compared with meticulous visual examination alone

**C. DEERY<sup>1</sup>, Z. J. NUGENT<sup>2</sup>, L. SHOAIB<sup>3</sup> & D. N. J. RICKETTS<sup>4</sup>**  
<sup>1</sup> Unit of Oral Health and Development, School of Clinical Dentistry, University of Sheffield, Sheffield UK <sup>2</sup> Epidemiology and Cancer Registry CancerCare Manitoba, Winnipeg, MB, Canada, <sup>3</sup> Department of children's Dentistry and Orthodontics, University of Malaya, Kuala Lumpur, Malaysia, <sup>4</sup> Restorative Dental Care and Clinical Dental Sciences, Dundee Dental Hospital and School, University of Dundee, UK

#### 006-46 Prevention of occlusal caries at children up to 3 year

**N. BIDENKO, L. KHOMENKO & C. SAKKAS**  
The Department of Paediatric and Preventive Dentistry, the National O.O. Bogomolets Medical University, Kyiv, Ukraine

#### 006-47 Reasons for extraction of tooth in 3–8 year-old children

**E. SEYMEN<sup>1</sup>, M. YILDIRIM-KORUYUCU<sup>1</sup>, M. TORUNOGLU<sup>1</sup> & N. BEKIROGLU<sup>2</sup>**  
<sup>1</sup> Department of Pedodontics, Faculty of Dentistry, Istanbul University, Istanbul, Turkey, <sup>2</sup> Department of Biostatistics, Medical School, Marmara University, Istanbul, Turkey

#### 006-48 Pain perception during micro-invasive treatment of non-cavitated proximal carious lesions in children

**V. MENDES-SOVIRO<sup>1</sup>, J. FIUZA-FRANCO<sup>2</sup>, S. COELHOAL<sup>2</sup>**  
<sup>1</sup> Department of Preventive and Community Dentistry, Universidade do Estado do Rio de Janeiro, Brazil, <sup>2</sup> Department of Dentistry, Universidade de Brasília, Brazil

### Oral Session 007/Prevention 1

#### 007-49 Microleakage assessment of fissure sealant following preparation with a bur or pumice prophylaxis before etching

**A. BAGHERIAN**  
Pediatric Dentistry Department, Rafsanjan University of Medical Sciences, Rafsanjan, Iran

#### 007-50 Oral health behaviour and dental attendance outcomes of a cluster randomized dental prevention trial

**R. HARRISON<sup>1</sup>, J. VERONNEAU<sup>2</sup> & B. LEROUX<sup>3</sup>**  
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#### 007-51 Tooth brushing of adolescents in schools: a 4-months cohort study

**I. MALDUPA, A. BRINKMANE, I. RENDENIECE & A. MIHAILOVA**  
Department of Therapeutic Dentistry, Riga Stradins University, Riga, Latvia

#### 007-52 The role of different fluoridated dentifrice formulations in enamel remineralisation in vitro

**V. AMBARKOVA<sup>1</sup>, K. GORSETA<sup>2</sup>, D. GLAVINA<sup>2</sup> & I. SKRINJARIC<sup>2</sup>**  
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#### 007-53 Protective effect of casein phosphopeptide-amorphous calcium phosphate (CPP-ACP) in dental enamel erosion by soft drinks

**T. CANTILE, G. F. FERRAZZANO, M. CODA, G. SANGIANANTONI, S. ORLANDO & A. INGENITO**  
University of Naples \_Federico II\_, Naples, Italy

#### 007-54 The reduction of demineralisation by decreasingly shorter chain statherin like peptides

**S. SHAH, J. KOSORIC & P. ANDERSON**  
Centre for Oral Growth and Development, Barts and the London School of Medicine and Dentistry, Queen Mary, University of London, UK

#### 007-55 Water fluoridation in Greece

**G. MASTORAKIS<sup>1</sup> & K. J. TOUMBA<sup>2</sup>**  
<sup>1</sup> Naval Academy of Cadets, Hellenic Navy, Greece, <sup>2</sup> Paediatric Department, University of Leeds, UK

#### 007-56 Effect of a new NaF toothpaste on enamel remineralization of artificial caries-like lesion

**G. OZBAY, Z. ABBASOGLU & B. KARGUL**  
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#### 007-57 Oral health and health consciousness of the pregnant women: a pilot study

**I. RENDENIECE<sup>1</sup>, A. BRINKMANE<sup>2</sup>, R. CARE<sup>1</sup> & I. MALDUPA<sup>2</sup>**  
<sup>1</sup> Department of Paediatric Dentistry, Riga Stradins' University, Institute of Stomatology, Riga, Latvia, <sup>2</sup> Department of Therapeutic Dentistry, Riga Stradins' University, Institute of Stomatology, Riga, Latvia

### Oral Session 008/Oral Pathology 1-Oral Surgery

#### 008-58 Benign fibro-osseous lesions affecting the jaws in childhood. A 10 years experience

**N. KOLOMVOS, N. THEOLOGIE-LYGIDAKIS, O. VASILADIS & I. IATROU**  
University Departments of Oral and Maxillofacial Surgery, Dental School (Head: Prof. C. Alexandridis) at Children Hospital of Athens, Greece P and A. Kyriakou (Dir. Assoc Prof I Iatrou)

#### 008-59 Evaluation of the effectiveness of liquid nitrogen cryosurgery for the elimination of gingival physiologic pigmentation in adolescent: a 2-year follow-up

**F. KHORAKIAN, A. SARRAF-SHIRAZI & A. MOEENTAGHAVI**  
Dental Research Center of Mashhad University of Medical Sciences, Mashhad Dental School, Iran

#### 008-60 Secondary osteoplasty in bilateral clefts: 11 years experience

**N. THEOLOGIE-LYGIDAKIS, F. TZERBOS, N. KOLOMVOS & I. IATROU**  
University Department of Oral and Maxillofacial Surgery (Head: Prof. C. Alexandridis) at the Children's Hospital "P. and A. Kyriakou" (Dir.: Assoc. Prof. I. Iatrou), Dental School of Athens, Greece

#### 008-61 Odontogenic facial cellulitis in hospitalized paediatric population

**Y. T. J. LIN & Y. T. LIN**  
Kaohsiung Chang Gung memorial Hospital, Chang Gung University College of Medicine, Taiwan

#### 008-62 Salivary gland neoplasms in children. Report of two cases

**N. PAPADOGEORGAKIS<sup>1</sup>, N. NIKITAKIS<sup>2</sup>, D. FOTOPOULOS<sup>2</sup>, V. PETSINIS<sup>1</sup> & K. ALEXANDRIDIS<sup>1</sup>**  
<sup>1</sup>Evangelismos Hospital, Athens, Greece, <sup>2</sup>Dental School, University of Athens, Greece

#### 008-63 Intraoral distraction osteogenesis for the correction of mandibular malformation. Ten years experience of use in children

**P. CHRISTOPOULOS, N. THEOLOGIE-LYGIDAKIS, N. MALLIOS & I. IATROU**  
University Department of Oral and Maxillofacial Surgery, at A. and P. Kyriakou Children's Hospital, Dental School, Athens, Greece

#### 008-64 Lesions of the oral mucosa in children with systemic lupus erythematosus

**A. SKAKODUB**  
I.M. Sechenov First Moscow State Medical University, Moscow, Russia

#### 008-65 Amoxicillin affects the expression of MMP20 in cultured mouse molars

**C. SAHLBERG, P.L. LUKINMAA & S. ALALUUSUA**  
Institute of Dentistry, University of Helsinki, Helsinki, Finland

#### 008-66 The effect of plant essential oils upon growth of oral micro-organisms

**G. L. RICHARDSON<sup>1</sup> & J. I. FOLEY<sup>2</sup>**  
<sup>1</sup> Edinburgh Dental Institute, Edinburgh, UK  
<sup>2</sup> The University of Aberdeen Dental School and Hospital, Aberdeen, UK

### Oral Session 009/Dental Materials

#### 009-67 Restoration of vital posterior teeth with indirect composite resin restorations

**M. STAVRIDAKIS<sup>1</sup>, S. ARDU<sup>2</sup> & I. KREJCI<sup>1</sup>**  
<sup>1</sup> Division of Cariology and Endodontology, School of Dentistry, University of Geneva, Geneva, Switzerland, <sup>2</sup> Head Programmation Unit and Senior Lecturer, School of Dentistry, University of Geneva, Geneva, Switzerland

#### 009-68 Electron microscopic study on hybrid layer in primary teeth

**A. MATOUSEK<sup>1</sup>, M. KUKLETOVA<sup>2</sup>, D. HORKY<sup>3</sup> & L. IZAKOVICOVA HOLLA<sup>2</sup>**  
<sup>1</sup> Faculty of Mechanical Engineering, University of Technology, Brno, Czech Republic, <sup>2</sup> Stomatological Clinic, Medical Faculty, Masaryk University, Brno, Czech Republic, <sup>3</sup> Department of Histology and Embryology, Medical Faculty, Masaryk University, Brno, Czech Republic, <sup>4</sup> Department of Pathophysiology, Faculty of Medicine, Masaryk University Brno, Czech Republic



**O09-69 Evaluation of pit and fissure enamel etchability of human premolar teeth with and without bio-glass airabrasion**

**M. BAGHERI<sup>1</sup>**, M.T. HOSEY<sup>1</sup>, P. PILECKI<sup>2</sup>, M. SHERRIFF<sup>2</sup> & T. WATSON<sup>2</sup>

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**O09-70 Effect of benzalkonium chloride application on resindentine bond strength**

**S. P. A. MOMIN**, C. K. Y. YIU, J. EPASINGHE & N. M. KING  
Paediatric Dentistry and Orthodontics, Faculty of Dentistry, University of Hong Kong, Hong Kong

**O09-71 Surface roughness of various restorative materials after topical fluoride application**

**D. OZDEMIR-OZENEN<sup>1</sup>**, E. SUNGURTEKIN<sup>1</sup>, H. ISSEVER<sup>2</sup> & N. SANDALLI<sup>1</sup>

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<sup>2</sup> Department of Public Health, Faculty of Medicine, Istanbul University, Istanbul, Turkey

**O09-72 Fluoride release and dissolution by two beverages of four glass ionomer cements**

**A. BEKIAROU<sup>1</sup>**, R. HILL, M. PATEL & S. PARKER  
Barts and The London, Dental Institute, Queen Mary University of London, London, UK

**O09-73 Bond strength of a fissure sealant treated with different antibacterial agents using simplified fissure model**

**O. O. KUSCU**, N. SANDALLI, **H. OZBEY**, F. ALP & E. CAGLAR  
Department of Paediatric Dentistry, Faculty of Dentistry, Dental School, Yeditepe University, Istanbul, Turkey

**O09-74 The effectiveness of aging to the new-aged resin shear bond strength**

**M. SPYROU**, P. KOUROS, E. KOLINIOTOU-KOUMPIA & M. HELVATJOGLU-ANTONIADES  
Department of Operative Dentistry, Aristotle University of Thessaloniki

**O09-75 Evaluation of marginal adaptation and seal of minimally invasive occlusal restorations before and after simultaneous thermal and mechanical stress: an in vitro study**

**I. A. CHASKELIS<sup>1</sup>**, M. T. RODRIGUEZ-TAPIA<sup>1</sup>, T. BORTOLOTTTO<sup>1</sup>, L. DAENIKER<sup>1</sup> & I. KREJCI<sup>2</sup>  
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**O09-76 Curing depth of colored polyacid-modified composite resins based on micro raman spectroscopy evaluation**

**J. D. E. VANDENBULCKE<sup>1</sup>**, L. C. MARTENS<sup>1</sup> & R. M. H. VERBEECK<sup>2</sup>  
<sup>1</sup> Department of Paediatric Dentistry, PaeCaMeD Research Group, School of Dentistry, Belgium, <sup>2</sup> Department of Basic Medical Sciences, Biomaterials Group, Ghent University, Belgium

**O09-77 Effect of saliva contamination on the combination selfetching system and resin-modified glass ionomer: shear bond strength tests and scanning electron microscopy observations**

**E. DURSUN<sup>1, 2</sup>** & J. P. ATTAL<sup>3, 4</sup>  
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<sup>3</sup> Department of Dental Material, Faculty of Dental Surgery, Paris Descartes University, France, <sup>4</sup> Hospital Charles Foix, Ivry-sur-Seine, France

**O09-78 Preservation of the dentin hybrid layer: matrix metalloproteinases and resin-based dentin bonding systems**

**M. CANNON**  
Feinberg School of Medicine, Northwestern University, Children's Memorial Hospital, Chicago, IL, USA

**Oral Session O10/Cariology 3**

**O10-79 Radiographic extension of sealed occlusal caries lesions after 3 years**

**A. BAKHSAHNDEH<sup>1</sup>**, U. LARSEN<sup>1</sup>, **M. K. BORUM<sup>2</sup>**, K. D. MØLLER<sup>3</sup>, T. R. ANDERSEN<sup>4</sup> & V. QVIST<sup>1</sup>

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**O10-80 Aquaporin 5 is associated with caries experience**

**A. R. VIEIRA<sup>1, 2</sup>**, I. ANJOMSHOAA<sup>1</sup>, J. BRISENO-RUIZ<sup>1</sup>, F. SEYMEN<sup>3</sup>, E. CASTILLA<sup>4</sup> & I. ORIOLI<sup>4</sup>  
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**O10-81 Outcomes of the Hall technique for managing carious primary molars in a community setting**

**J. HARRIS<sup>1</sup>**, N. INNES<sup>2</sup>, J. WEEKS<sup>1</sup> & T. LAMONT<sup>2</sup>  
<sup>1</sup> Sheffield Salaried Primary Dental Care Service & Charles Clifford Dental Hospital & University of Sheffield, Sheffield, UK, <sup>2</sup> Dental Hospital and School, University of Dundee & Tayside University Teaching Hospitals Trust, Dundee, UK

**O10-82 Comparison of two calcium phosphate pastes in remineralization of artificial caries in situ**

**S. CHONGVISAL & S. VANICHVATANA**  
Department of Pediatric dentistry, Chulalongkorn University, Bangkok, Thailand

**O10-83 Effect of contact time with fluoride toothpaste on prevention of enamel demineralisation in vitro**

**H. AL-BANAY & J. TOUMBA**  
Department of Paediatric Dentistry, Leeds Dental Institute, Leeds, UK

**O10-84 Application of quantitative light-induced fluorescence (QLF) to screen demineralization potential of human saliva; a pilot study**

**D. INABA<sup>1</sup>**, M. YONEMITSU<sup>1</sup> & E. DE JOSSELINE DE JONG<sup>2</sup>  
<sup>1</sup> Iwate Medical University, Morioka, Japan, <sup>2</sup> University of Liverpool, Liverpool, UK

**O10-85 Change in salivary parameters following head and neck radiotherapy**

**A. VIRANI<sup>1</sup>**, J. KOSORIC<sup>1</sup>, C. MORGAN<sup>1</sup> & P. ANDERSON<sup>2</sup>  
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**O10-86 Early childhood caries and related factors in Turkish preschool children**

**B. ÖZEN<sup>1</sup>**, L. ÖZER<sup>2</sup>, B. ÇEHRELİ<sup>3</sup>, A. GENÇ<sup>1</sup> & C. EYÜBOĞLU<sup>1</sup>  
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**O10-87 Pulpal responses to caries process in human teeth**

**A. SOTIROVSKA-IVKOVSKA<sup>1</sup>**, E. ZABOKOVA<sup>1</sup>, L. POPOVSKA<sup>2</sup> & L. IVKOVSKI<sup>3</sup>  
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**O10-88 The effect of four remineralising agents on the remineralisation and demineralisation of human dental enamel in vitro**

**A. ABDULLAH<sup>1, 2</sup>**, A. IRELAND<sup>1</sup>, J. SANDY<sup>1</sup>, N. KILPATRICK<sup>1</sup> & M. BARBOUR<sup>2</sup>  
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<sup>2</sup> Oral Surface Science, School of Oral & Dental Sciences, University of Bristol, UK

**O10-89 Failure rates of class II restorations in Norwegian adolescents**

**S. VIDNES-KOPPERUD<sup>1</sup>**, A. BJØRG-TVEIT<sup>1</sup>, V. QVIST<sup>2</sup> & I. ESPELID<sup>1</sup>  
<sup>1</sup> Faculty of Dentistry, University of Oslo, Norway, <sup>2</sup> Department of Cariology and Endodontics, School of Dentistry, Faculty of Health Sciences, University of Copenhagen, Denmark

**O10-90 Remineralizing action of CPP-ACP reagents on artificial carious lesions**

**S. BUCKSHEY<sup>1</sup>**, R. ANTHONAPPA<sup>1</sup>, N. KING<sup>1</sup> & A. ITTHAGARUN<sup>2</sup>  
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**Oral Session O11/Periodontology - Dental Trauma 1**

**O11-91 Severe periodontal destruction in a young patient caused by orthodontic elastic bands left in place for 12 years**

**E. PEPELASSI<sup>1</sup>**, **D. E. TSAROUCI<sup>2</sup>** & M. KOMBOLI<sup>1</sup>  
<sup>1</sup> Department of Periodontology, Dental School, University of Athens, Greece  
<sup>2</sup> Private Practice, Athens, Greece

**O11-92 Enamel matrix derivatives alone or in combination with bone grafts can modify cell attachment, proliferation, osteoblastic differentiation and osteoprotegerin production of human periodontal ligament fibroblasts**

**A. MAMALIS<sup>1</sup>**, C. MARKOPOULOU<sup>2</sup>, X. DEREKA<sup>2</sup>, Y. BOBETSIS<sup>2</sup> & I. VROTSOS<sup>2</sup>  
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**O11-93 Milk and egg white maintain immature pulp cells' proliferation capacity as well as hank's balanced salt solution (HBSS)**

**S. E. JABBARIFAR<sup>1</sup>**, S. M. RAZAVI<sup>2</sup>, A. A. KHADEMI<sup>3</sup> & **M. ABEDHAGHIGHI<sup>1</sup>**  
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**O11-94 Effect of fibroblast growth factor and enamel matrix derivative treatment on periodontal healing mechanism after tooth replantation**

**E. B. TUNA<sup>1, 2</sup>**, K. ARAI<sup>2</sup>, K. GENCAY<sup>1</sup>, F. SEYMEN<sup>1</sup>, N. KUBOYAMA<sup>3</sup> & T. MAEDA<sup>2</sup>  
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**O11-95 An investigation into the factors influencing the number of treatment visits following dento-alveolar trauma**

**J. KEASBERRY**, P. DAY, T. MUNYOMBWE & M. DUGGAL  
Paediatric Dentistry, Leeds Dental Institute (LDI), UK

**O11-96 Characterization of dental pulp stem cells from deciduous and supernumerary teeth**

**A. SO-YOUN**  
Department of Paediatric dentistry, The School of Dentistry, University of Wonkwang, South Korea

**Oral Session O12/Dental Trauma 2**

**O12-97 Apexogenesis of a severely intruded immature permanent maxillary central incisor: a 2-year follow-up case**

**V. PETROVIC**, **B. POPOVIC** & M. BAUKOV  
School of Dentistry, University of Belgrade, Serbia

**O12-98 Polish boxers level of knowledge concerning first-aid after dental injuries and their prevention**

**E. GAZDA & K. EMERICH**  
Department of Paediatric Dentistry, Medical University of Gdansk, Gdansk, Poland

**O12-99 Mineralization disturbances in permanent successors after trauma to primary teeth. Inter-observer agreement based on photographs**

**A. B. SKAARE**, A. L. M. AAS & N. J. WANG  
Department of Paediatric Dentistry and Behavioural Science, Faculty of Dentistry, University of Oslo, Norway

**O12-100 Parental quality of life impacts associated with childhood dento-alveolar trauma**

**J. PORRITT**, **H. RODD** & S. BAKER  
Academic Unit of Dental Public Health, School of Clinical Dentistry, Claremont Crescent, University of Sheffield, Sheffield, UK

**O12-101 The antimicrobial effect of various root canal medicaments used in management of immature non vital anterior teeth.**

**W. TWATI**, R. PERCIVAL & M. DUGGAL  
Leeds Dental Institute, Leeds, UK

**O12-102 Alveolar ridge preservation to facilitate future implant placement after early loss of incisor in an adolescent**

**E. WONG<sup>1</sup>**, S. SHAH<sup>2</sup> & S. SHAHDAD<sup>3</sup>  
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**Oral Session O13/Epidemiology – Public Health 1**

**O13-103 Risk factors related to tooth wear in 5–7 year- old children**

**T. GATOU & E. MAMAI-HOMATA**  
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**O13-104 Association between relative weight and dental health in 12-year-old Filipino students - findings from the national oral health survey 2006**

**B. HEINRICH-WELTZIEN<sup>1</sup>**, B. MONSE<sup>2</sup>, B. SÄNGER<sup>1</sup>, E. THIERING<sup>3</sup>, J. HEINRICH<sup>3</sup> & K. HAUSCHILD<sup>4</sup>  
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**O13-105 Reporting and application of caries experience assessment in epidemiological surveys: a review**

**D. DECLERCK<sup>1</sup>**, J. AGBAJE<sup>1</sup> & E. LESAFFRE<sup>2, 3</sup>  
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**O13-106 Caries prevalence in Greek young children: social, biological and family related factors**

**S. GIZANI<sup>1</sup>**, A. AGOUROPOULOS<sup>1</sup>, C. CARONI<sup>2</sup> & L. PAPAGIANNOULIS<sup>1</sup>  
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**O13-107 Caries risk assessment with Cariogram in Greek adolescents under orthodontic treatment**

**G. PETSIS**, S. GIZANI, K. KAVVADIA & L. PAPAGIANNOULIS  
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**O13-108 Early childhood caries (ECC) and associated factors in Attica preschool children, Greece**

**M. MANTONANAKI<sup>1</sup>**, G. KATHARAKIS<sup>2</sup>, H. KOLETSIKOUNARI<sup>1</sup> & E. MAMAI-HOMATA<sup>1</sup>  
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**O13-109 School-based oral health promotion programme for adolescents**

**M. LALIC<sup>1</sup>**, **M. GAJIC<sup>1</sup>**, M. JANJANIN<sup>2</sup>, V. GREBER<sup>3</sup>, J. MILIC<sup>4</sup> & E. ALEKSIC<sup>4</sup>  
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**O13-110 Effectiveness of a preventive program for high caries risk preschool children – 1 year results**

**A. AGOUROPOULOS & L. PAPAGIANNOULIS**  
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**O13-111 Nutrition status and dental caries prevalence in Brazilian 2–4 year-old children**

**C. M. FERREIRA GRADELLA<sup>1</sup>**, E. BERNABÉ<sup>2</sup>, M. BÖNECKER<sup>3</sup> & L. B. OLIVEIRA<sup>4</sup>  
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**O13-112 Associations between dental caries and family size in a low-income program**

**A. L. SEMINARIO**<sup>1</sup>, M. LEE & J. SCOTT  
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**O13-113 Effective dose estimation in conventional and digital intraoral radiography**

**A. KAVADELLA**<sup>1</sup>, C. DONTA<sup>1</sup>, K. KARAYIANNI<sup>1</sup>, E. KARINOU<sup>2</sup>, K. TSIKLAKIS<sup>1</sup> & V. KAMENOPOULOU<sup>2</sup>  
<sup>1</sup> Department of Oral Diagnosis and Radiology, Dental School, University of Athens, Greece, <sup>2</sup> Greek Atomic Energy Commission, Athens, Greece

**Oral Session O14/Dental Anxiety and Behaviour Management 2 – Education**

**O14-114 Advances in paediatric dentistry: clinical study of high speed versus laser caries treatment in split mouth design**

**G. SCHINDLER-HULTZSCH** & N. GUTKNECHT  
Department of Restorative and Pediatric Dentistry, RWTH Aachen University, Aachen, Germany

**O14-115 Validating a modified dental discomfort questionnaire for measurement of dental pain in young children**

**L. R. COSTA**<sup>1</sup> & R. HARRISON<sup>2</sup>  
<sup>1</sup> Faculty of Dentistry, Federal University of Goias, Goiania, Brazil  
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**O14-116 The Wand single tooth anaesthesia (STA) for dental treatment of young patients under intravenous sedation. (A case series)**

**L. L. MATHARU** & **M. KALKANI**  
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**O14-117 Indicators of dental anxiety in children just prior to treatment**

**M. MAJSTOROVIC**<sup>1</sup>, D. DO<sup>2</sup>, D. MORSE<sup>3</sup>, L. LIM<sup>2</sup> & **A. MOURS**<sup>1,2</sup>  
<sup>1</sup> Department of Paediatric Dentistry, University of Zagreb School of Dental Medicine, Zagreb, Croatia, <sup>2</sup> Department of Pediatric Dentistry, New York University College of Dentistry, New York, NY, USA, <sup>3</sup> Department of Epidemiology and Health Promotion, New York University College of Dentistry, New York, NY, USA

**O14-118 A report on undergraduate student anxiety and concerns regarding clinical dentistry**

**L. L. MATHARU**, M. ADDO, **S. SHAMSUDDIN** & M. T. HOSEY  
Department of Paediatric Dentistry, King's College London, UK

**O14-119 Oral transmucosal midazolam: a safe and effective method of conscious sedation in young children**

**A. KAPUR**, H. S. CHAWLA, K. GAUBA, A. GOYAL & N. BHARDWAJ  
Unit of Oral Health Sciences Centre, PGIMER, Chandigarh, India

**O14-120 The singing dental drill and the finger dental drill. An innovative approach in dealing with dental anxiety**

**D. GUSTIANA**<sup>1</sup> & A. SAIDAH<sup>2</sup>  
<sup>1</sup> Gadjah Mada University Jogjakarta, Indonesia, <sup>2</sup> University of Indonesia, Indonesia

**O14-121 Stress indicators and behaviour manifestation in children during consequent sessions of dental treatment**

**A. ARHAKIS**<sup>1</sup>, G. MENEXES<sup>2</sup> & S. KALFAS<sup>1</sup>  
<sup>1</sup> Aristotle University of Thessaloniki, School of Dentistry, Greece  
<sup>2</sup> Aristotle University of Thessaloniki, School of Agriculture, Greece

**O14-122 Undergraduate experience and self perception of competency in placing preformed metal crowns**

**F. GILCHRIST**, A. MORGAN, M. FARMAN & H. RODD  
Unit of Oral Health and Development, School of Clinical Dentistry, Sheffield, UK

**O14-123 Dental undergraduate perspectives on preformed metal crowns and the hall technique**

**A. MORGAN**, F. GILCHRIST, M. FARMAN & H. RODD  
Unit of Oral Health and Development, School of Clinical Dentistry, University of Sheffield, Sheffield, UK

**O14-124 Interpretive bias in clinical trials in paediatric dentistry**

**I. ALZAIN**<sup>1</sup>, P. ASHLEY<sup>1</sup>, D. MOLES<sup>2</sup> & S. PAREKH<sup>1</sup>  
<sup>1</sup> Eastman Dental Institute Hospital, London, UK, <sup>2</sup> Peninsula Dental School, Plymouth Devon, UK

**Oral Session O15/Public Health 2**

**O15-125 Can the child perception questionnaire be used as a “scale”?**

**C. MCGRATH**  
Faculty of Dentistry, The University of Hong Kong, Hong Kong, SAR China

**O15-126 Primary preventive model on oral health for rural India utilizing existing health and educational infrastructure: a 19 years study**

**G. ASHIMA**, K. GAUBA & A. TEWARI  
Unit of Oral Health Sciences Centre, PGIMER, Chandigarh, India

**O15-127 A preventive program for oral health in 0–2-year old Thuringian children, Germany**

**Y. WAGNER** & R. HEINRICH-WELTZIEN  
Department of Preventive and Paediatric Dentistry, University Hospital of Friedrich-Schiller- University Jena, Germany

**O15-128 Prevalence and intensity of dental caries in permanent teeth of children, living in the area of endemic fluorosis**

**S. BOGOMOLOVA** & L. KISELNIKOVA  
Department of Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Russia

**O15-129 Predictors of oral health related quality of life in Thai 10–12 year old children over time**

**O. NAMMONTRI**, P. ROBINSON & S. BAKER  
Unit of Dental Public Health, School of Clinical Dentistry, University of Sheffield, UK

**O15-130 Evaluation of the preventive program “Healthy Smile” after 4 and 8 years of realization**

**R. IVANCAKOVA**<sup>1</sup>, A. SIMA<sup>1</sup>, Z. BROUKAL<sup>2</sup> & K. PROUZOVA<sup>1</sup>  
<sup>1</sup> Faculty of Medicine Charles University and University Hospital, Hradec Kralove, Czech Republic, <sup>2</sup> Faculty of Medicine, Institute of Dental Research, Charles University, Prague, Czech Republic

**O15-131 Relative contribution of fluoride from drinking water, ingested toothpaste and dietary sources, in 4–5 year-old children in Selangor, Malaysia**

**B. S. TAN**<sup>1</sup> & I. A. RAZAK<sup>2</sup>  
<sup>1</sup> School of Dentistry, International Medical University, Kuala Lumpur, Malaysia, <sup>2</sup> Faculty of Dentistry, University of Malaya, Kuala Lumpur, Malaysia

**O15-132 Measuring parent’s quality of life of children with dental caries and traumatic dental injuries**

**J. ABANTO**<sup>1</sup>, S. M. PAIVA<sup>2</sup>, D. P. RAGGIO<sup>1</sup>, P. CELIBERTI<sup>1</sup>, J. M. ALDRIGUI<sup>1</sup> & M. BONECKER<sup>1</sup>  
<sup>1</sup> Discipline of Paediatric Dentistry, University of São Paulo, Brazil, <sup>2</sup> Discipline of Paediatric Dentistry, Federal University of Minas Gerais, Brazil

**O15-133 Strategies to assure access and equity: innovative safety net paediatric residency training partnerships**

**N. DEMBY** & S. DIETRICH  
Lutheran Health Care Department of Dental Medicine, Brooklyn, NY, USA

**O15-134 High fluoride exposure in drinking water: Effect on children’s IQ, one new report**

**H. R. POURSLAMI**<sup>1</sup>, A. HORRI<sup>1</sup> & R. ATASH<sup>2</sup>  
<sup>1</sup> Kerman Dental School, Kerman, Iran, <sup>2</sup> Free University of Brussels, Belgium

**O15-135 Digital interactive telehealth center: mother-child health specialization course for primary care health professionals using tele-education, 2nd opinion, and a interdisciplinary approach**

**C. G. ZARDETTO**<sup>1</sup>, R. S. CHAO<sup>1</sup>, A. E. HADDAD<sup>2</sup>, M. S. BONECKER<sup>3</sup>, S. DARE<sup>1</sup> JR<sup>3</sup>, P. C. ROULET<sup>1</sup> & C. L. WEN<sup>4</sup>  
<sup>1</sup> University of São Paulo (USP), School of Medicine and School of Dentistry, Brazil, <sup>2</sup> Ministry of Health, Education Section and Brazilian Telehealth Program, Brazil, <sup>3</sup> School of Dentistry, University of São Paulo, Brazil, <sup>4</sup> School of Medicine, University of São Paulo, Brazil and Brazilian Telehealth Program

**Oral Session O16/Special Needs Patients 1 – Dental Anomalies**

**O16-136 Rehabilitation of patients with mental and physical disabilities. A case series**

**G. PAPAVALIOU**<sup>1</sup>, S. GIZANI<sup>2</sup>, P. KAMPOSITORA<sup>1</sup> & A. GIANNOPOULOU<sup>3</sup>  
<sup>1</sup> Department of Prosthodontics, Dental School, University of Athens, Greece, <sup>2</sup> Department of Paediatric Dentistry, Dental School, University of Athens, Greece, <sup>3</sup> National Center for the Rehabilitation of Special Needs Patients, Athens, Greece

**O16-137 Oral health of visually challenged schoolchildren in Khartoum State, Sudan**

**A. TAGELSIR**<sup>1</sup>, A. E. KHOGLI<sup>2</sup> & **N. NURELHUDA**<sup>3</sup>  
<sup>1</sup> Department of Orthodontics and Paediatric Dentistry, Faculty of Dentistry, University of Khartoum, Khartoum, Sudan, <sup>2</sup> Department of Paediatric Dentistry, Faculty of Oral and Dental Medicine, International University of Africa, Khartoum, Sudan, <sup>3</sup> Freelance Researcher

**O16-138 Success rate of dental restorations in children with special needs treated under G.A. 4 year clinical study**

**N. KATSARIS**, X. NIKOLAIDOU, C. MADIANOU & N. A. LYGIDAKIS  
Department of Paediatric Dentistry, Community Dental Center for Children, Athens Health Authority, Athens, Greece

**O16-139 The oral health and dental care experiences of children with learning disabilities**

**Z. MARSHMAN**, G. YESUDIAN, J. OWENS, M. HALL & H. RODD  
School of Clinical Dentistry, University of Sheffield, Sheffield, UK

**O16-140 The prevalence of Molar Incisor Hypocalcification in Yorkshire and the Humber and its relationship to socio-economic status**

**R. BALMER**<sup>1</sup>, J. TOUMBA<sup>1</sup>, J. GODSON<sup>2</sup> & M. DUGGAL<sup>1</sup>  
<sup>1</sup> Leeds Dental Institute UK, <sup>2</sup> Bradford Public Dental Health, UK

**O16-141 Aetiology of Molar Incisor Hypomineralisation (MIH) and the medical history**

**A. OMER** & P. CRAWFORD  
University Of Bristol Dental hospital, Bristol, UK

**O16-142 Management of patients with Amelogenesis Imperfecta: a case series**

**J. MC CAFFERTY** & A. C. OCONNELL  
Division of Public and Child Dental Health, Dublin Dental University Hospital, Dublin 2, Ireland

**O16-143 Prevalence of Molar-Incisor-Hypomineralisation (MIH) among German school children**

**M. A. PETROU**, R. BASNER & C. H. SPLIETH  
Department for Preventive and Pediatric Dentistry, University of Greifswald, Germany

**O16-144 Micro-CT study on deciduous molar hypomineralisation (DMH)**

**M. ELERINK**<sup>1</sup>, J. VEERKAMP<sup>1</sup>, L. VAN RUIJVEN<sup>2</sup>, H. MOLL<sup>3</sup> & J. M. TEN CATE<sup>1</sup>

<sup>1</sup> Department of Cariology Endodontology Pedodontology, Academic Centre for Dentistry Amsterdam (ACTA), Amsterdam, The Netherlands, <sup>2</sup> Department of Functional Anatomy, Academic Centre for Dentistry Amsterdam (ACTA), Amsterdam, Netherlands, <sup>3</sup> The Generation R Study Group and Department of Pediatrics, Erasmus Medical Centre, Sophia Children’s Hospital, Rotterdam, The Netherlands

**O16-145 Central odontogenic fibroma in a 7-year-old patient**

**S. MERKOURIA**<sup>1</sup>, P. CHRISTOPOULOS<sup>2</sup>, S. DIMTSAS<sup>2</sup>, K. TOSIOS<sup>1</sup> & I. IATROU<sup>2</sup>  
<sup>1</sup> University Department of Oral Pathology, Dental School, University of Athens Greece, <sup>2</sup> University Department of Oral and Maxillofacial Surgery, at A. and P. Kyriakou Children’s Hospital, Dental School, Athens, Greece

**O16-146 Prevalence of and associated factors with MIH in Flemish School Children**

**L. MARTENS**<sup>1</sup>, N. DHONDT<sup>2</sup>, R. CAUWELS<sup>1</sup> & R. LEROY<sup>1</sup>  
<sup>1</sup> Department Paediatric Dentistry – PaeCaMed research, University Ghent, Belgium, <sup>2</sup> General Dentistry University Ghent, Belgium

**O16-147 Clinical evaluation of desensitizing treatments for incisor teeth affected with molar-incisor hypomineralisation (MIH)**

**B. MEMIS**, S. SAAT, H. SÖNMEZ & F. TULGA ÖZ  
Ankara University Faculty of Dentistry Department of Paediatric Dentistry, Turkey

**Oral Session O17/Cariology 4 – Prevention 2**

**O17-148 Caries prevalence in 20 year old Swedish individuals in relation to their previous caries experience**

**H. ISAKSSON**<sup>1</sup>, A. ALM<sup>2</sup>, L. K. WENDT<sup>3</sup>, D. BIRKHED<sup>4</sup> & G. KOCH<sup>1</sup>  
<sup>1</sup> Department of Paediatric Dentistry, The Institute for Postgraduate Education, Jönköping, Sweden, <sup>2</sup> Department of Paediatric Dentistry, Kärnshuset, Skövde, Sweden, <sup>3</sup> Centrum of Oral Health, School of Health Sciences, Jönköping University, Jönköping, Sweden, <sup>4</sup> Department of Cariology, Institute of Odontology, Sahlgrenska Academy at Göteborg University, Sweden

**O17-149 The effect of two remineralising protocols on regression of white spot lesions after fixed orthodontic therapy: a randomised clinical trial**

**T. TOMAŽEVIČ**<sup>1</sup>, Š. BURNIK<sup>1</sup>, M. DREVENŠEK<sup>2</sup> & **B. KOSEM**<sup>1</sup>  
<sup>1</sup> Department of Paediatric and Preventive Dentistry, University Medical Centre Ljubljana, Slovenia, <sup>2</sup> Department of Orthodontics, University Medical Centre Ljubljana, Slovenia

**O17-150 Effects of applied topical fluoride preparations in orthodontic patients**

**E. ZABOKOVA-BILBILOVA** & A. SOTIROVSKAIVKOVSKA  
Department of Pediatric and Preventive Dentistry, School of Dentistry, Skopje, Fyrom

**O17-151 Effectiveness of fissure sealants on questionable occlusal surfaces of permanent molars. A preliminary report**

**C. J. OULIS**<sup>1</sup>, **E. D. BERDOUSES**<sup>1</sup>, N. LYGIDAKIS<sup>2</sup>, K. TSINIDOU<sup>1</sup> & A. VLACHOU<sup>1</sup>  
<sup>1</sup> Department of Paediatric Dentistry, Dental School, University of Athens, Greece, <sup>2</sup> Public Health Center of IKA, Athens, Greece

**O17-152 Which methods of dental age estimation should we be using?**

**H. LIVERSIDGE**  
Institute of Dentistry, Queen Mary University of London, London, UK

**O17-153 Sealing or restoring manifest occlusal caries in young permanent teeth – 3 years results**

**V. QVIST**<sup>1</sup>, **T. R. ANDERSEN**<sup>2</sup>, K. D. MØLLER<sup>3</sup> & M. K. BORUM<sup>4</sup>  
<sup>1</sup> Dental School, University of Copenhagen and Public Dental Health Service, Denmark, <sup>2</sup> Hoersholm municipality, Denmark, <sup>3</sup> Hilleroed Municipality, Denmark, <sup>4</sup> Hoeje-Taastrup municipality, Denmark

**O17-154 Study on preparation of tea polyphenols gel and its inhibition on cariogenic bacteria in vitro**

**M. LIU**<sup>1</sup>, S. LI<sup>1</sup>, M. ZHANG<sup>2</sup> & N. LI<sup>3</sup>  
<sup>1</sup> Department of Paediatric Dentistry, West China College of Stomatology, Sichuan University, China, <sup>2</sup> Department of Dental Material, West China College of Stomatology, Sichuan University, China, <sup>3</sup> Department of Prosthodontics, West China College of Stomatology, Sichuan University, China

**O17-155 Withdrawn**

**O17-155A Self-Etching Liners as PIT and fissure sealants: A comparative study on adaptation, microleakage and fissure penetration**

**A. ELIADES**, E. BIRPOU & G. ELIADES  
Department of Biomaterials, University of Athens, Greece

**O17 – 155B Self-Etching Liners as PIT and fissure sealants: A comparative study on setting characteristics**

**E. BIRPOU**, A. ELIADES & G. ELIADES  
Department of Biomaterials, University of Athens, Greece

**O17-156 Qualitative evaluation of oral health’s beliefs of paediatric dental patients’ guardians**

**M. VALLE**, A. VE<sup>1</sup> LIZ, G. ZILLMANN & L. CORONADO  
Facultad de Odontología, Universidad de Chile, Chile



**O17-157 Remineralization of incipient caries by CPP – ACP: a new perspective**  
**K. GAUBA**, M. DUBEY, A. GOYAL & A. UTRAJA  
Unit of Oral Health Sciences Centre, PGIMER, Chandigarh, India  
**O17-158 Tooth bleaching in children and adolescents**  
**M. ANTONIADOU**, **E. TSIQOURI**, D. SPAGOPOULOS  
& X. PAXIMADA  
Department of Operative Dentistry, Dental School, University of Athens, Greece

**O17-159 Odontoglyphics of the deciduous molars and caries lesions**  
**A. POLCHENKO** & N. BIDENKO  
Department of Paediatric Operative Dentistry with Dental Diseases  
Prophylaxis Course, Bogomolets National Medical University, Kyiv, Ukraine

## Oral Session O18/Endodontics

**O18-160 Treatment of the immature necrotic open apex: MTA plug –revascularization controversy**  
**A. CHANIOTIS**  
Department of Endodontics, Dental School, University of Athens, Greece

**O18-161 Comparison between grey and white MTA in temporary molars pulpotomies – 84 months follow-up**  
**C. CARDOSO-SILVA**<sup>1</sup>, E. BARBERÍA<sup>2</sup>, M. MAROTO<sup>2</sup>  
& F. GARCÍAGODOY<sup>3</sup>  
<sup>1</sup> Faculty of Dental Medicine, University of Porto, Portugal, <sup>2</sup> Faculty of Dentistry, Complutense University of Madrid, Spain, <sup>3</sup> Bioscience Research Centre, College of Dentistry, University of Tennessee Health Science Centre, Memphis, TN, USA

**O18-162 The challenge of treating orthodontically reimplanted immature and mature central incisors. An 11-year multidisciplinary approach with report of cases**  
**I. MANOUKAKIS**<sup>1</sup> & I. KOLOKOURIS<sup>2</sup>  
<sup>1</sup> Department of Orthodontics, School of Dentistry, Aristotle University of Thessaloniki, Greece, <sup>2</sup> Department of Endodontics, School of Dentistry, Aristotle University of Thessaloniki, Greece

**O18-163 Indirect pulp treatment in 4–6 year old children**  
**I. MEIJERS** & G. VAN STRIJP  
Department of Cariology Endodontology Pedodontology Oral Microbiology, Academic Centre for Dentistry Amsterdam, The Netherlands

**O18-164 Effect of low-level laser therapy on dental pulp cells proliferation and differentiation**  
**I. KAROUSSIS**, Y. BOBETIS, K. KYRIAKIDOU  
& C. MARKOPOULOU  
Department of Periodontology, Dental School, University of Athens, Greece

**O18-165 Cleaning efficacy of rotary endodontic files in root canals of primary teeth**  
**P. SUBRAMANIAM** & T. T. AHMED  
The Oxford Dental College, Hospital and Research Centre, Bangalore, India

## Oral Session O19/Special Needs Patients 2

**O19-166 Long term salivary function after conditioning with busulfan, fractionated or single dose TBI**  
**G. DAHLLOF**<sup>1</sup>, K. GARMING-LEGERT<sup>1</sup>, M. HASSAN<sup>2</sup>, M. REMBERGER<sup>2</sup> & O. RINGDEN<sup>2</sup>  
<sup>1</sup> Karolinska Institutet, Department of Dental Medicine, Division of Orthodontics and Pediatric Dentistry, Stockholm, Sweden, <sup>2</sup> Karolinska University Hospital, Center for Allogeneic Stem Cell Transplantation, Stockholm, Sweden

**O19-167 Management challenges of a patient with cystic hygroma – a case report**  
**S. BARRY** & M. DUGGAL  
Department of Paediatric Dentistry, Leeds Dental Institute, UK

**O19-168 Oral health of medically compromised children**  
**J. MANDIC**<sup>1</sup>, V. ZIVOJINOVIC<sup>1</sup>, M. IVANOVIC<sup>1</sup>, Z. MANDINIC<sup>1</sup>, S. JOVANOVIĆ<sup>2</sup> & B. MILICIC<sup>3</sup>  
<sup>1</sup> Clinic for Paediatric and Preventive Dentistry, School of Dentistry, University of Belgrade, Serbia, <sup>2</sup> Department of Public Health, School of Dentistry, University of Belgrade, Serbia, <sup>3</sup> Medical Informatics, School of Dentistry, University of Belgrade, Serbia

**O19-169 The outcome of Crohn's disease in children who present with oral manifestations at diagnosis**  
**P. FLEMING**<sup>1,2</sup>, S. HUSSEY<sup>1</sup>, M. ROWLAND<sup>3</sup>, A. M. BRODERICK<sup>1</sup>, B. DRUMM<sup>1,3</sup> & B. BOURKE<sup>1,4</sup>  
<sup>1</sup> Our Lady's Children's Hospital Crumlin, Ireland, <sup>2</sup> Dublin Dental University Hospital, Trinity College Dublin, Ireland, <sup>3</sup> UCD School of Medicine and Medical Science, The Children's Research Centre, Our Lady's Children's Hospital, Dublin, Ireland, <sup>4</sup> Conway Institute for Biomolecular and Biomedical Research, University College Dublin, Ireland

**O19-170 Dental treatment of patients with systemic diseases and patients with developmental disabilities under general anaesthesia**  
**B. PERETZ**<sup>1</sup>, A. SPIERER<sup>2</sup>, S. SPIERER<sup>3</sup> & M. RAKOCZ<sup>3</sup>  
<sup>1</sup> Department of Paediatric Dentistry, the Maurice and Gabriela Goldschleger School of Dental Medicine, Tel Aviv University, Tel Aviv, Israel, <sup>2</sup> Private practice, Bnei Brak, Israel, <sup>3</sup> Division of Pediatric & Hospital dentistry, Sheba Medical Center, Ramat Gan, Israel

**O19-171 Dentists' knowledge and views on treating children with hereditary coagulation disorders**  
**K. FITZGERALD**, P. FLEMING & B. NOLAN  
Our Lady's Children's Hospital, Crumlin, Dublin, Ireland

**O19-172 Acidity and in vitro effects on dental hard tissues of pharmaceutical preparations used in paediatric cardiology**  
**L. ROSÉN**<sup>1</sup>, A. RYDBERG<sup>2</sup>, T. LUNDGREN<sup>3</sup> & **C. STECKSÉN-BLICKS**<sup>1</sup>  
<sup>1</sup> Department of Odontology, Paediatric Dentistry, Faculty of Medicine, Umeå University, Umeå, Sweden, <sup>2</sup> Department of Clinical Sciences, Faculty of Medicine, Umeå University, Umeå, Sweden, <sup>3</sup> Institute of Odontology, The Sahlgrenska academy, University of Gothenburg, Gothenburg, Sweden

**O19-173 Antibiotic prophylaxis in dental treatment of children with congenital heart defects (CHD)**  
**T. B. SIVERTSEN**<sup>1</sup>, M. S. SKEIE<sup>1</sup>, A. N. A.° STRØM<sup>1</sup>, M. RAADAL<sup>1</sup> & G. GREVE<sup>2</sup>  
<sup>1</sup> Institute of Clinical Dentistry, University of Bergen, Bergen, Norway, <sup>2</sup> Institute of Clinical Medicine, University of Bergen, Bergen, Norway

**O19-174 Dental anxiety in children with special needs versus healthy controls**  
**A. ADEWUMI**<sup>1</sup>, D. ROSEN<sup>1</sup>, Y. ZANGENEH<sup>1</sup>, R. GAGNON<sup>1</sup> & J. RILEY<sup>2</sup>  
<sup>1</sup> Department of Paediatric Dentistry, University of Florida College of Dentistry, Gainesville, FL, USA, <sup>2</sup> Department of Community Dentistry and Behavioral Science, University of Florida College of Dentistry, Gainesville, FL, USA

## Oral Session O20/Dental Trauma 3

**O20-175 Use of removable splint in the treatment of condylar fracture in children and adolescents**  
**Y. ZHAO**<sup>1</sup>, R. BAI<sup>1</sup>, J. YANG<sup>1</sup>, L. GE<sup>1</sup> & Y. ZHANG<sup>2</sup>  
<sup>1</sup> Department of Paediatric Dentistry, Peking University, School and hospital of Stomatology, Beijing China, <sup>2</sup> Department of Oral and Maxillofacial Surgery, Peking University, School and Hospital of Stomatology, Beijing China

**O20-176 Mitochondria mediated apoptotic cell death in human periodontal ligament cells in storage medium: the pharmacological window of propolis**  
**M. RATHORE**<sup>1</sup>, P. VANDANA-ADITYA<sup>2</sup>, K. MAHENDRAPRATAP<sup>3</sup> & P. ADITYA BHUSHAN<sup>3</sup>  
<sup>1</sup> Department of Pedodontics, UP Dental College & Research Centre, Lucknow, India, <sup>2</sup> Department of Periodontics, UP Dental College & Research Centre, Lucknow, India, <sup>3</sup> In Vitro Toxicology Laboratory, Indian Institute of Toxicology Research, Lucknow, India

**O20-177 Training medical doctors to manage dentoalveolar trauma**  
**G. WRIGHT**  
Forth Valley Royal Hospital, Larbert, Scotland, UK

**O20-178 Inducing apical barrier in fractured nonvital immature permanent incisors using single calcium hydroxide (CaOH2) dressing- a case report**  
**M. OROOJLI** & R. MAKSOUD  
Department of Paediatric Dentistry, Faculty of Dentistry, University of Aleppo, Aleppo, Syria

**O20-179 Immediate implant intrasocket placement and provisionalization of terminally traumatized teeth in the esthetic zone in adolescents and young adults**  
**A. P. TRIPODAKIS**  
Department of Prosthodontics, Dental School, University of Athens, Greece  
**O20-180 A case of premature teeth exfoliation in a 5 year old boy**  
**M. COLLARD**, **M. PAVLI** & T. BUTLER  
Paediatric Department, Cardiff University Dental Hospital, Cardiff, UK

## Oral Session O21/Special Needs Patients 3 – Oral Pathology 2

**O21-181 PFAPA syndrome in a paediatric patient: a case report**  
**N. NIKITAKIS**, **S. TITSISNIDES**, K. TOSIOS & A. SKLAVOUNOU-ANDRIKOPOULOU  
Department of Oral Pathology and Medicine, Dental School, University of Athens, Greece

**O21-182 Best clinical practice guideline: dental care of patients with Epidermolysis Bullosa**  
**S. M. KRÄMER**<sup>1,2,3</sup>, G. ZILLMANN<sup>1,3</sup>, C.S. ERRANO<sup>4</sup>, P. GÁLVEZ<sup>3</sup>, I. ARAYA<sup>5</sup> & J. VILLANUEVA<sup>5</sup>  
<sup>1</sup> Special Needs Clinic, Facultad de Odontología, Universidad de Chile, Chile, <sup>2</sup> Oral Medicine and Special Needs Unit, UCL Eastman Dental Institute, London, UK, <sup>3</sup> Debra Chile, <sup>4</sup> Universidad de Valencia, Spain, <sup>5</sup> Evidence Based Dentistry Unit, Facultad de Odontología, Universidad de Chile, Chile

**O21-183 Atlanto-occipital instabilities and cardiopathies in Down Syndrome**  
**S. NAGARAJAN**<sup>1</sup> & R. KAVITA<sup>2</sup>  
<sup>1</sup> Department of Paediatric and Preventive Dentistry Government Dental College, Kottayam, Kerala, India, <sup>2</sup> Department of Paediatric and Preventive Dentistry A.B.Shetty Memorial Institute of Dental Sciences, Mangalore, Karnataka, India

**O21-184 Multi disciplinary approach in the management of Ectodermal dysplasia**  
**B. VARMA**  
Amrita School of Dentistry, Kochi, Kerala, India

**O21-185 Treatment of retinoblastoma leading to dental malformation: report of a case**  
**K. VENKATARAGHAVAN**<sup>1</sup>, K. S. NAGESH<sup>1</sup>, A. ANANTHARAJ<sup>1</sup> & S. KARTHIK<sup>2</sup>  
<sup>1</sup> DAPMRV Dental College, Bangalore, India, <sup>2</sup> Vibha Dental Care centre, Bangalore, India

**O21-186 Strategies of oral health education in children with special needs**  
**A. M. RISITANO**<sup>1</sup>, D. ABITBOL<sup>1</sup>, M. ARMADA<sup>1</sup> & **G. SCAGNET**<sup>1,2</sup>  
<sup>1</sup> Quinquela Martin Hospital of Paediatric Dentistry – Special Care Unit – Ministry of Health, Government of Buenos Aires City, Argentina, <sup>2</sup> University of Buenos Aires, Argentina

# POSTER PRESENTATIONS

## Poster Session P01/Orthodontics

**P01-1 The use of oral screen as the treatment to minimize the malocclusion due to thumb sucking**  
**I. SASMITA**  
Faculty of Dentistry, Department Paediatric Dentistry, Universitas Padjadjaran, Indonesia

**P01-02 Analysis of stress and distortion distribution using the finite element method – effects of the chin cap on the mandible**  
**B. J. BAIK**, J.-G. KIM, Y.-M. YANG, D. W. LEE, M. J. LEE & S. Y. SHIN  
Department of Paediatric Dentistry, School of Dentistry, Chonbuk National University, Jeonju, Korea

**P01-3 Induced ankylosis of a primary molar for mesial protraction of permanent molar**  
**M. ANGELOPOULOU**<sup>1</sup>, **D. KOLETSI**<sup>2</sup>, G. VADIAKAS<sup>1</sup>

& D. HALAZONETIS<sup>2</sup>  
<sup>1</sup> Department of Paediatric Dentistry, Dental School University of Athens, Greece, <sup>2</sup> Department of Orthodontics, Dental School University of Athens, Greece

**P01-4 Influence of maxillary expansion on pharyngeal airway morphology**  
**M. SAITO**, A. RYOKAWA, M. TAKAHASHI & M. TANAKA  
Division of Paediatric Dentistry, Department of Development Oral Health Science, Dental School, Iwate Medical University, Morioka, Japan

**P01-5 Case report of treating class II malocclusion patient using T4KTM**  
**C. JA EUN**, K. YOUN-HEE & A. SO-YOUN  
Department of Paediatric dentistry, School of Dentistry, University of Wonkwang, South Korea  
**P01-6 Maxillary canine impaction at orthodontic patients with and without agenesis. A demographic study**  
**E. LEMPESI**, M. KARAMOLEGOU, M. MAVRAGANI & M. MAKOU  
Department of Community Dentistry, Section of Orthodontics, Dental School, University of Athens, Greece

**P01-7 Space maintainer: a case report**  
**VANDEN MANYONG-MAKANZ**<sup>1</sup>, A. SHAYEGAN<sup>1</sup> & A. VANDEN ABEELE<sup>2</sup>  
<sup>1</sup> Department of Maxillo-facial Surgery and Paediatric Dentistry, Children's Hospital of Queen Fabiola, Université Libre de Bruxelles, Brussels, Belgium <sup>2</sup> Department of Dentistry, Erasme hospital, Université Libre de Bruxelles, Brussels, Belgium

**P01-8 Management of unerupted maxillary incisor or canine with fixed appliance: case report**  
**H. H. TSAI**  
Division of Paediatric Dentistry, Department Of Dentistry, Taipei Medical University Hospital, Taiwan

**P01-9 A dilacerated central incisor: a case report**  
**M. KULAN**<sup>1</sup>, B. C. ANKAYA<sup>2</sup>, L. USLUCAN<sup>2</sup> & I. ULUKAPI<sup>1</sup>  
<sup>1</sup> Faculty of Dentistry, Department of Paediatric Dentistry, Istanbul University, Turkey, <sup>2</sup> Faculty of Dentistry, Department of Oral and Maxillofacial Surgery, Istanbul University, Turkey

**P01-10 The interrelationship between the position of impacted maxillary canines and the morphology of maxilla**  
**Y. KIM**, S. H. HAHN & K. T. JANG  
Department of Paediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

**P01-11 Approaches to managing mandibular premolar impaction – two case reports**  
**Y. KUBONO**, J. ASARI, T. SUGIYAMA, Y. MIYAUCHI, M. SATO & M. INOUE  
Department of Paediatric Dentistry, Showa University School of Dentistry, Tokyo, Japan

**P01-12 Growth enabling modified fixed palatal retainer**  
**V. ARIKAN**<sup>1</sup>, **D. ATICI**<sup>1</sup>, M. AKC. AY<sup>1</sup>, A. T. ALTUG<sup>2</sup> & L. OZER<sup>1</sup>  
<sup>1</sup> Faculty of Dentistry, Department of Paediatric Dentistry, Ankara University, Ankara, Turkey, <sup>2</sup> Faculty of Dentistry, Department of Orthodontics, Ankara University, Ankara, Turkey

**P01-13 Two effective methods for correcting severe rotation of anterior teeth**  
**E. JAHANIMOGHADAM**  
Department of Paediatric Dentistry, Oral & Dental Diseases Center, University of Medical Sciences, Kerman, Iran

**P01-14 Evaluation of relationship between orthodontic treatment need according to dental aesthetic index (DAI) and student's perception, in 11–14 year-old students**  
**M. KHANEHMASJEDIL**<sup>1</sup> & L. BASSIR<sup>2</sup>  
<sup>1</sup> Department of Orthodontics, Dental School, Ahwaz Jundishapur University of Medical Sciences, Ahwaz, Iran, <sup>2</sup> Department of Paedodontics, Dental School, Ahwaz Jundishapur University of Medical Sciences, Ahwaz, Iran

**P01-15 Cost effectiveness of three methods of replacement of congenitally missing teeth**  
**E. FERDIANAKIS**<sup>1</sup>, F. XIROUCHAKI<sup>2</sup> & P. CHRISTOU<sup>1</sup>  
<sup>1</sup> Department of Orthodontics, Dental School, University of Athens, Greece <sup>2</sup> Dental School, University of Athens, Greece



**P01-16 Ectopic eruption of maxillary permanent first molars. Treatment timing and biomechanical considerations**  
**D. KONSTANTONIS** & **M. KARAMOLEGKOU**  
Department of Orthodontics, Dental School, University of Athens, Greece  
**P01-17 Epidemiology of dental malocclusions in a Greek male population**  
**E. FOTAKIDOU**<sup>1</sup>, **Z. TRIANTOPOULOU**<sup>2</sup>, **M. KARAMOLEGOU**<sup>3</sup> & **P. CHRISTOU**<sup>3</sup>  
<sup>1</sup> Hellenic Armed Forces, Korinthos, Greece, <sup>2</sup> Private Practice, Athens, Greece, <sup>3</sup> University of Athens, Greece

**P01-18 Unilateral congenitally missing mandibular second bicuspid. Early clinical treatment following diagnosis**  
**G. ANGELOPOULOS**<sup>1</sup>, **A. ANTYPAS**<sup>2</sup> & **L. PAPAGIANNOULIS**<sup>2</sup>  
<sup>1</sup> Department of Orthodontics, Dental School, University of Athens, Greece  
<sup>2</sup> Department of Paediatric Dentistry, Dental School, University of Athens, Greece  
**P01-19 Anterior cross bite treatment: two different approaches**  
**D. ATICI**, **M. S. TUNA**, **E. AYHAN** & **N. ÖZALP**  
Faculty of Dentistry, Department of Paediatric Dentistry, Ankara University, Ankara, Turkey

**P01-20 Space maintenance in premature loss of deciduous teeth**  
**H. POP**  
Aalborg Municipal Dentistry, Denmark

**P01-21 An audit to determine if the current timing of referrals for the management of ectopic maxillary canines are appropriate in the MID Yorkshire NHS Hospital Trust**  
**S. BARBER**<sup>1</sup> & **J. SPENCER**<sup>2</sup>  
<sup>1</sup> Paediatric Department, NYY Salaried Dental Service and Leeds Dental Institute, Yorkshire, UK, <sup>2</sup> Orthodontic Department, Leeds Dental Institute and Mid Yorkshire NHS Hospitals Trust, Yorkshire, UK

**P01-22 Case report: extracted carious first permanent molars, an orthodontic approach**  
**A. RONTOGIANNI**<sup>1</sup>, **E. D. BERDOUSES**<sup>2</sup> & **C. J. OULIS**<sup>2</sup>  
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<sup>2</sup> Paediatric Dentistry Department, Dental School, University Athens, Greece

**P01-23 Diagnosis, prognosis and management of impacted maxillary canines. Three non-consecutive cases**  
**C. VLACHOJANNIS** & **J. VLACHOJANNIS**  
Private office, Athens, Greece

**P01-24 Management of bonding complications due to dentinogenesis imperfecta during orthodontic treatment**  
**A. KOULI**<sup>1</sup>, **L. SCHORETSANTITI**<sup>1</sup>, **M. MAROULAKOS**<sup>2</sup> & **I. SIFAKAKIS**<sup>2</sup>  
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## Poster Session P02/Cariology 1

**P02-25 Prevalence of permanent tooth erosion due to “cuka pempek” Indonesia traditional dietary vinegar in children**  
**Y. NONONG**, **S. HIDAYAT** & **A. AMERISTA**  
Faculty of Dentistry, Universitas Padjadjaran, Bandung Indonesia

**P02-26 Relationship between oral hygiene habits and salivary F-concentrations in infants**  
**Y. UCHIKAWA**, **T. IWASAKI**, **M. UEHARA**, **H. HAMAJI**, **T. SHIRASE** & **F. TAMURA**  
Department of Paediatric Dentistry, Nippon Dental University Hospital, Tokyo, Japan

**P02-27 SEM analysis of dentin surface of primary teeth treated by Er:YAG laser**  
**S. ZHANG**<sup>1</sup>, **T. CHEN**<sup>2</sup> & **L. H. GE**<sup>1</sup>  
<sup>1</sup> Department of Paediatric Dentistry, School of Stomatology, Peking University, Beijing, China, <sup>2</sup> Department of Paediatric Dentistry, Tianjin Stomatological Hospital, China

**P02-28 Development of monoclonal antibody against glucosyltransferase D of streptococcus mutans GS 5**  
**J. G. KIM**, **Y. M. YANG**, **B. J. BAIK**, **D. W. LEE** & **S. Y. SHIN**  
Chonbuk National University, School of Dentistry, Korea

**P02-29 Identification of serotypes F and C streptococcus mutans, salivary mucin MG2 level, and the interaction level of mucin mg2 in predicting deft**  
**M. F. RIZAL**<sup>1</sup>, **H. SUTADI**<sup>1</sup>, **B. M. BACHTIAR**<sup>2</sup> & **E. W. BACHTIAR**<sup>2</sup>  
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**P02-30 Influence of carbonated beverage and soft beer on enamel micro hardness of primary teeth**  
**R. HAGHGOU**<sup>1</sup> & **F. ABBASI**<sup>2</sup>  
<sup>1</sup> Department of Paediatric Dentistry, Dental School, Shahed University, Tehran, Iran, <sup>2</sup> Department of Oral Medicine, Dental School, Shahed University, Tehran, Iran

**P02-31 In vitro comparison of conventional x-ray film and digital radiography for primary teeth caries detection**  
**A. ORHAN**<sup>1</sup>, **K. ORHAN**<sup>2</sup>, **S. AKSOY**<sup>2</sup>, **H. AVSEVER**<sup>3</sup>, **M. ICEN**<sup>2</sup> & **K. GUNDUZ**<sup>4</sup>  
<sup>1</sup> Division of Paediatric Dentistry, Ministry of Health, 75th Year Ankara Oral and Dental Health Centre, Ankara, Turkey, <sup>2</sup> Near East University, Department of Oral, Teeth and Jaw Radiology, Mersin, Turkey, <sup>3</sup> GATA, Dental Sciences Center, Department of Oral, Teeth and Jaw Radiology, Ankara, Turkey, <sup>4</sup> Ondokuz Mayıs University, Faculty of Dentistry, Department of Oral, Teeth and Jaw Radiology, Samsun, Turkey

**P02-32 Correlation of salivary Streptococcus mutans and severe early childhood caries**  
**J. F. LIU** & **Y. F. LO**  
Taichung Veterans General Hospital, Taiwan

**P02-33 Relationship between severe early childhood caries and body mass index in 2–4 years aged children**  
**S. J. POURHASHEMI**  
International campus of Tehran, University of Medical Science, Tehran, Iran

**P02-34 Dental health in children as a paediatrician’s problem**  
**M. KERMENDI**<sup>1</sup> & **F. SLLAKU**<sup>2</sup>  
<sup>1</sup> University Children’s Hospital, Prishtina, Kosova, <sup>2</sup> Faculty of Dentistry, Prishtina, Kosova

**P02-35 Evaluation of bacterial numbers of Streptococcus mutans in saliva specimens from Japanese children**  
**K. FUJITA**, **M. MATSUMOTO-NAKANO**, **Y. TAKASHIMA**, **S. INAGAKI**, **K. NAGAYAMA** & **T. OOSHIMA**  
Department of Paediatric Dentistry, Graduate School of Dentistry, Osaka University, Osaka, Japan

**P02-36 Distribution of Streptococcus mutans with collagenbinding properties**  
**S. NAKA**, **K. NAKANO**, **R. NOMURA** & **T. OOSHIMA**  
Department of Paediatric Dentistry, Graduate School of Dentistry, Osaka University, Suita, Osaka, Japan

**P02-37 Microleakage and shear bonding strength of sealants using four different application protocols**  
**Y. S. JUNG**, **S. C. CHOI**, **J. H. PARK**, **J. E. LIM** & **E. J. KWON**  
Department of Paediatric Dentistry, School of Dentistry, Kyung-Hee University, Seoul, South Korea

**P02-38 Evaluation of a new QLF device in the detection of incipient occlusal caries lesions**  
**E. ACHILLEOS**<sup>1</sup>, **C. RAHIOTIS**<sup>2</sup> & **G. VOUGIOUKLAKIS**<sup>1</sup>  
<sup>1</sup> Department Of Operative Dentistry, Dental School, University of Athens, Greece, <sup>2</sup> Department of Oral Biology, Dental School, University of Athens, Greece

**P02-39 Yeasts of candida genus in dental plaque of ECCaffected children**  
**F. RŮŽICKÁ**<sup>1</sup>, **J. KUKLOVÁ**<sup>2</sup>, **M. KUKLETOVÁ**<sup>2</sup> & **K. MUSILOVÁ**<sup>2</sup>  
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**P02-40 Influence of bisphosphonates on the fermented content of saliva in children with dental caries**  
**V. M. ELIZAROVA** & **L. N. DROBOTKO**  
Moscow State University of Medicine and Dentistry, Russia

**P02-41 Oral health in children with phenylketonuria**  
**O. A. PONKRATOVA** & **V. M. ELIZAROVA**  
Moscow State University of Medicine and Dentistry, Russia

**P02-42 Caries prevention of human deciduous teeth by a low power laser – based on a new theory on the acquired acid resistance**  
**E. HIROTA**  
X-ray Analysis, Dental Research Center, Nippon Dental University, Tokyo, Japan

**P02-43 Clinical applicability, safety and effect of resin infiltration of proximal caries**  
**M. ALKILZY**<sup>1,2</sup>, **M. B. ALTARABULSI**<sup>1</sup> & **C. SPLIETH**<sup>1</sup>  
<sup>1</sup> Department of Preventive and Paediatric Dentistry/University of Greifswald-Germany, <sup>2</sup> Department of Paediatric Dentistry/ University of Aleppo-Syria

**P02-44 Minimal invasive approach for managing ECC**  
**J. J. C. LEE**  
Seoul Children’s Dental Center, Korea  
**P02-45 Expression of the structural subunits of Streptococcus salivarius urease**  
**Y. WANG**, **D. TAO**, **X. LUAN** & **X. FENG**  
Department of Preventive and Paediatric Dentistry, Ninth People’s Hospital, Shanghai Jiao Tong University, School of Medicine, Shanghai, China

**P02-46 ART versus the hall technique: results after 2 years**  
**E. VAN AMERONGEN**, **C. FRANSSSEN** & **F. GRAVESTEIJN**  
Academic Centre for Dentistry Amsterdam, The Netherlands

**P02-47 Comparative diagnostic performance of a limited cone-beam volumetric imaging system (CBVI) and intraoral radiography for proximal caries in primary teeth**  
**J. ASARI**<sup>1</sup>, **M. SAKATA**<sup>2</sup>, **K. ARAKI**<sup>2</sup>, **R. JOSHI**<sup>2</sup>, **T. OKANO**<sup>2</sup> & **M. INOUE**<sup>1</sup>  
<sup>1</sup> Department of Paediatric Dentistry, Showa University School of Dentistry, Japan, <sup>2</sup> Department of Radiology, Showa University School of Dentistry, Japan

**P02-48 Oral hygiene behavior and caries in young Volgograd children**  
**E. MASLAK**<sup>1</sup>, **E. ARJENOVSKAYA**<sup>1</sup>, **A. RODIONOVA**<sup>1</sup>, **T. KAMENNOVA**<sup>1</sup>, **S. KNEIST**<sup>2</sup> & **A. BORUTTA**<sup>2</sup>  
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## Poster Session P03/Dental Materials 1

**P03-49 Shear bond strength of a solvent freeself-etch adhesive to dentine substrates**  
**E. KOLINIOTOU-KOUMPIA**, **P. KOUROS**, **C. TZIAFA** & **M. HELVATZOGLOU-ANTONIADES**  
Aristotle University of Thessaloniki, Greece

**P03-50 Restorations in primary dentition with a nano filled resin modified glass ionomer cement: 12 months results**  
**K. C. KRETZSCHMAR**<sup>2</sup>, **R. FRANKENBERGER**<sup>2</sup> & **N. KRÄMER**<sup>3</sup>  
<sup>1</sup> Dresden University of Technology, Department of Paediatric Dentistry, Germany, <sup>2</sup> Department of Operative Dentistry, University of Marburg, Germany, <sup>3</sup> Department of Paediatric Dentistry, University of Giessen, Germany

**P03-51 Soft tissue application with ozone therapy in children**  
**I. TANBOGA**, **I. O. KALYONCU**, **F. EREN GIRAY**, **M. A. DURHAN** & **B. PEKEL**  
Faculty of Dentistry, Department of Pediatric Dentistry, Marmara University, Istanbul, Turkey

**P03-52 Elemental characterization of contemporary ag-based soldering alloys**  
**S. ZINELIS**<sup>1</sup>, **D. SOTERIOU**<sup>2</sup>, **A. NTASI**<sup>1</sup>, **L. PAPAGIANNOULIS**<sup>2</sup> & **G. ELIADES**<sup>1</sup>  
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<sup>2</sup> Department of Paediatric Dentistry, Dental School, University of Athens, Greece

**P03-53 Surface roughness of reinforced glass-ionomer restorative cements**  
**A. MANAKOU**<sup>1</sup>, **L. PAPAGIANNOULIS**<sup>1</sup> & **G. ELIADES**<sup>2</sup>  
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**P03-54 Electrochemical behavior of commercially available space maintainers\_ brazing alloys**  
**A. NTASI**<sup>1</sup>, **W. D. MUELLER**<sup>2</sup> & **S. ZINELIS**<sup>1</sup>  
<sup>1</sup> Department of Biomaterials, Dental School, University of Athens, Greece  
<sup>2</sup> Dental materials and Biomaterial Research, Dental School, Charite, University of Berlin, Berlin, Germany

**P03-55 Effect of one-step self-etching adhesives on the morphology of primary enamel**  
**J. SKAMNAKIS**, **A. CHRYSIKOPOULOU** & **G. ELIADES**  
Department of Paediatric Dentistry, Dental School, University of Athens, Greece

**P03-56 Novel method for the identification and characterization of periopathogens for the early diagnosis of aggressive periodontitis in adolescent patients**  
**P. BOCHLOGYROS**, **K. PISSARIDI**, **V. DRITSA** & **J. ANASTASSOPOULOU**  
School of Chemical Engineering, Radiation Chemistry and Biospectroscopy, NTUA, Athens, Greece

**P03-57 Crown discoloration induced by temporary filling materials. An ex vivo spectrophotometric study**  
**I. MISTAKIDIS**<sup>1</sup>, **K. IOANNIDIS**<sup>2</sup>, **P. BELTES**<sup>2</sup> & **G. PALAGHIAS**<sup>1</sup>  
<sup>1</sup> Department of Basic Dental Sciences, School of Dentistry, Aristotle University of Thessaloniki, Thessaloniki, Greece, <sup>2</sup> Department of Endodontology, School of Dentistry, Aristotle University of Thessaloniki, Thessaloniki, Greece

**P03-58 Treatment of experimentally infected deep dentinal cavities with a bacteriostatic adhesive system or calcium hydroxide: a comparative histological study**  
**C. TZIAFA**<sup>1</sup>, **E. KOLINIOTOU-KOUMPIA**<sup>1</sup> & **S. PAPADIMITRIOU**<sup>2</sup>  
<sup>1</sup> Restorative Dentistry, Faculty of Dentistry, Aristotle University of Thessaloniki, Greece, <sup>2</sup> Clinical Sciences, Veterinary School, Aristotle University of Thessaloniki, Greece

**P03-59 In vitro estrogenicity of dental resin sealants**  
**D. ZAMPELI**<sup>1</sup>, **T. ELIADES**<sup>2</sup>, **G. ELIADES**<sup>3</sup>, **D. KLETSAS**<sup>4</sup> & **L. PAPAGIANNOULIS**<sup>1</sup>  
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**P03-60 In vitro antibacterial activity of four glass ionomer cement**  
**E. X. P. C. SIMÕES**<sup>1</sup>, **C. S. R. ALMEIDA**<sup>1</sup>, **C. P. SIMÕES**<sup>2</sup>, **L. Q. RIBEIRO**<sup>2</sup>, **M. F. RIBEIRO**<sup>2</sup>, **C. F. BRANDAO**<sup>2</sup>, **M. A. V. BITTENCOURT**<sup>3</sup>  
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**P03-61 Roughness of modern composite restoratives**  
**E. P. SYRRAKOU**<sup>1</sup>, **P. HATZI**<sup>2</sup>, **T. PAPADOPOULOS**<sup>2</sup> & **G. ELIADES**<sup>2</sup>  
<sup>1</sup> Department of Pediatric Dentistry, Dental School, University of Athens, Greece, <sup>2</sup> Department of Biomaterials, Dental School, University of Athens, Greece

**P03-62 Clinical efficacy of direct and indirect posterior composite resin restorations in pediatric dentistry**  
**A. E. KOYUTURK**, **N. TULOGLU**, **B. OZMEN** & **T. EGILMEZ**  
Faculty of Dentistry, Department of Pediatric Dentistry, Ondokuz Mayıs University, Samsun, Turkey

**P03- 63 Secondary caries inhibition around new fluoride containing restorative materials**  
**D. DIONYSOPOULOS**, **E. KOLINIOTOU-KOUMPIA**, **M. HELVATZOGLOU-ANTONIADES** & **N. KOTSANOS**  
Aristotle University of Thessaloniki, Greece

**P03-64 Adhesive procedures in primary teeth: in vitro evaluation of adhesion forces of three different materials**  
**A. SOARES**, **L. ALVES**, **A. L. COSTA** & **J. C. RAMOS**  
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**P03-65 The effect of bonding agents on the microleakage of sealant following contamination with saliva**

N. NOROUZI<sup>1</sup>, N. ASKARIZADEH<sup>2</sup> & S. NEMATI<sup>3</sup>  
<sup>1</sup> Private practice, Tehran, Iran, <sup>2</sup> Department of Paediatric Dentistry, Dental Branch of Islamic Azad University, Tehran, Iran, <sup>3</sup> Department of Operative Dentistry, Tehran, Iran

**P03-66 Effect of a sonic dispenser on setting shrinkage and porosity of composite restorations**

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**P03-67 In vitro investigation of the surface characteristics of teeth before and after “nanofluor” varnish application**

V. SCHEGOLEVA<sup>1</sup>, V. POSHOVA<sup>2</sup> & A. ANUROVA<sup>1</sup>  
<sup>1</sup> Department of Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Moscow, Russia, <sup>2</sup> JSC “VladMiVa”, Belgorod, Russia

**P03-68 Comparative analysis of changes in elemental composition of two Ag-brazing alloys after 1 year intraoral exposure**

D. SOTERIOU<sup>1</sup>, S. ZINELIS<sup>2</sup>, L. PAPAGIANNOULIS<sup>1</sup> & G. ELIADES<sup>2</sup>  
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**P03-69 Durability of class II amalgam fillings in primary molars**

A. M. RĂDUCANU<sup>1</sup>, I. V. FERARU<sup>1</sup>, C. HERTELIU<sup>2</sup> & R. ANGHELESCU<sup>3</sup>  
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**P03-70 Volatile organic compounds assessment in a dental clinic: bonding agents**

I. TZOUTZAS<sup>1</sup>, M. ANTONIADOU<sup>1</sup>, C. G. HELMIS<sup>2</sup>, C. H. HALIOS<sup>2</sup> & G. SGOUROS<sup>2</sup>  
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**P03-71 Restoration of severely decayed primary incisors under general anesthesia: a challenge to the paedodontist**

E. NOURBAKHSH & H. PAJAND BIRJANDI  
The University Children Hospital (Sarvar Medical Center), Mashhad University of Medical Sciences, Mashhad, Iran

**P03-72 Study of type of brand naming of dental clinics in the Korean academy of pediatric dentistry**

S. YOUN-SOO<sup>1</sup>, A. SO-YOUN<sup>2</sup>, K. AH-HYEON<sup>3</sup>  
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Poster Session P04/Endodontics 1

**P04-73 Pulp revascularization of immature permanent tooth with apical periodontitis**

Y. M. YANG, J. G. KIM, B. J. BAIK, D. W. LEE, S. Y. SHIN & H. J. LEON  
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**P04-74 Histopathologic evaluation of the pulp after direct pulp capping with calcium hydroxide and mineral trioxide aggregate in primary teeth**

F. ABBASI<sup>1</sup> & R. HAGHGOO<sup>2</sup>  
<sup>1</sup> Department of Oral Medicine, Dental School, Shahed University, Tehran, Iran, <sup>2</sup> Department of Pediatric Dentistry, Dental School, Shahed University, Tehran, Iran

**P04-75 Regenerative endodontics for the management of non-vital immature permanent teeth: a collection of case reports**

A. P. KARAGIANNI, S. RAJAN & M. S. DUGGAL  
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**P04-76 The comparison of periodontal ligament injection and alveolar nerve block in the pulpotomy of mandibular primary molar**

R. HAGHGOO<sup>1</sup> & H. SEMYARI<sup>2</sup>  
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**P04-77 Success rates of pulpotomy treatments in primary molars using either sodium hypochlorite or formocresol**

S. CHAOWARAT & P. CHOMPU-INWAI  
Faculty of Dentistry, Chiangmai University, Chiangmai, Thailand

**P04-78 Pulp treatment approach in Greek children**

E. ANDRIKOPOULOU, E. TZANETAKOU, S. GEKI & S. GIZANI  
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**P04-79 Effects of chlorhexidine on human deciduous dental pulp cells**

Y. Y. TU<sup>1</sup>, H. H. CHANG<sup>1,2</sup>, Y. L. WANG<sup>2,3</sup>, G. F. HUANG<sup>2,3</sup> & M. H. CHEN<sup>2</sup>  
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**P04-80 Ethical and legal aspects of dental stem cell research in Turkey**

I. TANBOGA<sup>1</sup>, S. GORKEY<sup>2</sup>, S. KAYA<sup>1</sup> & S. METE<sup>1</sup>  
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**P04-81 OCP-mediated cement as a root canal filling material for deciduous teeth**

Y. IMAMURA<sup>1</sup>, M. NAKAMURA<sup>2</sup>, K. YAMASHITA<sup>2</sup> & Y. TAKAGI<sup>1</sup>  
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**P04-82 Comparison of mineral trioxide aggregate and 20% formocresol in pulpotomized human primary molars**

C. HSIN-YI<sup>1</sup>, L. YUAN-LING<sup>1,2</sup>, H. GUAY-FEN<sup>2</sup>, C. HSIAOHUA<sup>1,2</sup>, W. YIN-LIN<sup>2,3</sup> & H. CHING-CHUN<sup>4</sup>  
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**P04-83 Electrosurgical pulpotomy with zinc polycarboxylate cement sub-base (a randomized clinical trial)**

H. NEMATOLLAHI & M. SAHEBNASAGH  
Department of Paediatric Dentistry, Faculty of Dentistry, Mashhad University of Medical sciences, Iran

**P04-84 Temperature changes in pulp tissues of primary molar teeth during cavity preparation dentin with ER:YAG laser versus High speed turbine**

S. CALISKAN, D. OZDEMIR-OZENEN & N. SANDALLI  
Faculty of Dentistry, Department of Pediatric Dentistry, Yeditepe University, Istanbul, Turkey

**P04-85 Physiological and pathological external root resorption in human teeth: scanning electron microscopy examination of the resorbing front and comparison of macroscopic and radiographic appearance**

L. VASILEIADIS<sup>1</sup>, C. STAVRIANOS<sup>1</sup>, E. SAMARA<sup>1</sup>, D. TATSIS<sup>1</sup>, P. DAGKALIS<sup>2</sup> & C. BOUTSIUKIS<sup>1</sup>  
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**P04-86 TGF-B1 regulates osteodifferentiation of periodontal ligament cells by controlling IGF-1 expression and function**

Y. HARURO<sup>1</sup>, O. HIROMI<sup>2</sup>, S. AKIKO<sup>2</sup>, A. TOSHIFUMI<sup>2</sup> & S. SEIKOU<sup>1</sup>  
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**P04-87 Propolis, chlorhexidine & calcium hydroxide-what irritates more?**

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**P04-88 MTA applications in paediatric dentistry: report of three cases**

K. C. KALOGEROPOULOS & K. TAOUFIK  
University of Athens, Dental School, Greece

**P04-89 Pulpotomy of primary molars using standard and modified calcium hydroxide techniques**

O. THAIS<sup>1</sup>, L. N. NATALINO<sup>1</sup>, S. VIVIEN<sup>2</sup>, A. B. MORETTI<sup>2</sup>, M. A. MACHADO<sup>1</sup> & R. ABDO<sup>1</sup>  
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**P04-90 Endodontic treatment with mineral trioxide aggregate as an apical plug: a case report.**

I. N. TSATSOUKIS, K. A. GOUGOUSIS & E. G. KONTAKIOTIS  
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Poster Session P05/Syndromes and Genetics 1

**P05-91 Maxillofacial rehabilitation of pediatric patients with head and neck cancer**

I. ARTOPOULOU<sup>1,2</sup>, M. ANGELOPOULOU<sup>3</sup> & D. EMMANOUIL<sup>3</sup>  
<sup>1</sup> Department of Prosthodontics, Dental School, University of Athens, Greece, <sup>2</sup> Former Fellow, Section of Oncologic Dentistry and Prosthodontics, Department of Head and Neck Surgery, The University of Texas, M.D. Anderson Cancer Center, USA, <sup>3</sup> Department of Paediatric Dentistry, Dental School, University of Athens, Greece

**P05-92 Bone healing in an animal model of hyperglycemia**

E. MAHNO<sup>2</sup>, E. AJAMI<sup>2</sup>, E. EMMANOUIL<sup>1</sup>, V. MENDES<sup>2</sup> & J. DAVIES<sup>2</sup>  
<sup>1</sup> King's Dental College, London, United Kingdom, <sup>2</sup> Faculty of Dentistry, University of Toronto, Canada

**P05-93 Dental management of a child with HermanskyPudlak syndrome**

A. AL MULLAHI<sup>1</sup>, I. ELBESHALWI<sup>2</sup> & Y. WALI<sup>2</sup>  
<sup>1</sup> Oral Health Department, Sultan Qaboos University Hospital, Muscat, Sultanate of Oman, <sup>2</sup> Child Health Department, Sultan Qaboos University Hospital, Muscat, Sultanate of Oman

**P05-94 The relation of salivary Alkaline Phosphatase and gingivitis in Down syndrome children**

N. MOECHTAR<sup>1</sup>, H. SOENAWAN<sup>1</sup>, H. SOETADI<sup>1</sup> & N. SOEDARSONO<sup>2</sup>  
<sup>1</sup> Department of Paediatric Dentistry, University of Indonesia, Indonesia, <sup>2</sup> Department of Oral Biology, University of Indonesia, Indonesia

**P05-95 Oral findings and dental management of a patient with Progressive Familial Intrahepatic Cholestasis (PFIC)**

A. TAGELSIR-AHMED<sup>1</sup>, L. MARKS<sup>2</sup> & L. MARTENS<sup>2</sup>  
<sup>1</sup> Department of Paediatric Dentistry, PaeCaMed Research, Ghent University, Ghent, Belgium, <sup>2</sup> Centre of Special Care Dentistry, Ghent University Hospital, Ghent, Belgium

**P05-96 Primary cleft lip reconstruction – stability of the therapy after 4 years from the therapy**

M. KASPAROVA<sup>1</sup>, T. DOSTALOVA<sup>1</sup>, J. BORSKY<sup>2</sup> & K. BLAHA<sup>3</sup>  
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**P05-97 Feeding obturator for an 18 months-old infant with trisomy 13**

D. MUSTAFA<sup>1</sup> & P. ASHLEY<sup>2</sup>  
<sup>1</sup> Shaikh Khalifa Medical City, Abu Dhabi, UAE, <sup>2</sup> Eastman Dental Institute, UCL, UK

**P05-98 Oral findings in patients with Silver-Russel syndrome**

A. WITTI<sup>1</sup>, D. OLCZAK-KOWALCZYK<sup>1</sup>, A. MARCZAKHAŁUPKA<sup>2</sup>, M. ZADURSKA<sup>3</sup>, A. TANSKA<sup>4</sup> & K. H. CHRZANOWSKA<sup>4</sup>  
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<sup>4</sup> Department of Genetics, The Children's Memorial Health Institute, Warsaw, Poland

**P05-99 Intermediate rehabilitation of a patient with ectodermal dysplasia**

A. BIONDI, A. DIMANT, E. GRAPSAS, L. FERNANDEZ CANCELA & L. LORENZO  
Department of Pediatric Dentistry at the School of Dentistry of the University of Buenos Aires

**P05-100 Prevalence and impact of oral pain in 8-year-old children in Saudi Arabia**

M. AL-MALIK  
Dental Department, Armed Forces Hospital, Jeddah, Saudi Arabia

**P05-101 Myhre syndrome: first report of characteristic findings in craniofacial disorders**

N. ISHIBASHI<sup>1</sup>, Y. ASAKURA<sup>2</sup>, T. KUBODERA<sup>1</sup> & Y. SASAKI<sup>1</sup>  
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**P05-102 Delayed eruption in a patient with monostotic fibrous dysplasia**

J. PARK, S. H. KYU, B. J. CHOI, J. S. SONG, J. H. LEE & S. KIM  
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**P05-103 Dental management of a child with alternating hemiplegia of childhood. A case report**

A. BOUGA<sup>1</sup>, G. VADIAKAS<sup>2</sup> & S. GEORGIOU-GOVA<sup>1</sup>  
<sup>1</sup> Private Practice, <sup>2</sup> Department of Paediatric Dentistry, Dental School, University of Athens, Greece

**P05-104 Management of cleidocranial dysostosis with complex odontoma**

Y. KASIMOGLU<sup>1</sup>, B. ÇANKAYA<sup>1</sup>, E. B. TUNA<sup>1</sup>, K. GENGAY<sup>1</sup> & M. OZGEN<sup>2</sup>  
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**P05-105 Dental phenotype in cleidocranial dysplasia associated with a new mutation of the RUNX2 gene**

M. CALLEA<sup>1</sup>, M. MONTANARI<sup>2</sup>, F. BATTELLI<sup>2</sup>, E. BERTINI<sup>3</sup>, G. PIANA<sup>2</sup> & G. CLARICH<sup>1</sup>  
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**P05-106 Prader-Willi syndrome: case series of 8 paediatric patients**

K. VAVETSI<sup>1</sup>, P. KOROMANTZOS<sup>1</sup>, D. EMMANOUIL<sup>2</sup>, Y. BOBETSIS<sup>1</sup>, H. FRYSSIRA<sup>3</sup> & P. MADIANOS<sup>1</sup>  
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**P05-107 Noonan Syndrome: a report of two paediatric cases**

K. VAVETSI<sup>1</sup>, P. KOROMANTZOS<sup>1</sup>, D. EMMANOUIL<sup>2</sup>, Y. BOBETSIS<sup>1</sup>, H. FRYSSIRA<sup>3</sup> & P. MADIANOS<sup>1</sup>  
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**P05-108 Dentin dysplasia type I: case report**

M. ELALLOUSSI<sup>1</sup>, R. AMEZIANE<sup>1</sup>, A. HALIMI<sup>2</sup> & A. SEFANI<sup>3</sup>  
<sup>1</sup> Department of Paediatric Dentistry, Rabat Faculty of Dentistry, University Mohammed V – Souissi (UM5S), IbnSina Hospital, Center of Dental and Consultation Treatments, Rabat City, Morocco, <sup>2</sup> Department of Orthodontics and Dentofacial Orthopedics, Rabat Faculty of Dentistry, University Mohammed V – Souissi (UM5S), Research Team of Biotech, MMB, Ibn Sina Hospital, Center of Dental and Consultation Treatments, Rabat City, Morocco, <sup>3</sup> Department of medical genetic, Rabat Faculty of Medecin, University Mohammed V – Souissi (UM5S), IbnSina Hospital, Center of genomic humain, Rabat City, Morocco



## Poster Session P06/Morita Prize 1- Clinical Research - Dental Materials 2, Growth and Development 1, Others

### P06-109 Coefficient of thermal expansion of different types of glass-ionomer cements

**C. BOUTSIKOU**, K. TOLIDIS & P. GERASIMOU  
Aristotle University of Thessaloniki, Greece

### P06-110 Retention of glass carbomer fissure sealant after 12 months of clinical trial

**D. GLAVINA**, **K. GORSETA** & I. SKRINJARIC  
School of Dental Medicine, University of Zagreb, Croatia

### P06-111 Biological performance of ha binding biomimetic acrylic resin or PGA coating of titanium implants in the dog mandible

**T. MAEDA**<sup>1</sup>, E. B. TUNA<sup>2</sup>, K. ARAI<sup>1</sup>, K. NEMOTO<sup>3</sup> & N. KUBOYAMA<sup>4</sup>  
<sup>1</sup> Department of Paediatric Dentistry, Nihon University School of Dentistry, Matsudo, Japan, <sup>2</sup> Department of Paediatric Dentistry in Istanbul University Faculty of Dentistry, Turkiye, <sup>3</sup> Department of Dental Materials in Nihon University School of Dentistry, Matsudo, Japan, <sup>4</sup> Department of Pharmacology, Nihon University School of Dentistry, Matsudo, Japan

### P06-112 The comparison of microtensile bond strength of composite restoration to eroded enamel by surface treatment

**E. O. HAN**, S. Y. LEE, T. S. JEONG & S. KIM  
Department of Paediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

### P06-113 Comparison of the microleakage of two materials used as fissure sealants with different methods

**M. HAJINORUZALI TEHRANI**  
Ehsannasr, the dental school of Isfahan, University of medical

### P06-114 Microleakage of class V compomer resin restorations after conventional diamond bur and ER, CR: YSGG laser preparation

**O. BAYGIN**, T. TÜZÜNER & I. ARSLAN  
Faculty of Dentistry, Department of Paediatric Dentistry, Karadeniz Technical University, Trabzon, Turkey

### P06-115 SDR versus traditional composite. A RCT on paediatric patients

**L. GIANNETTI**, A. MURRI & D. DIAGO  
Department of Paediatric Dentistry and Dental Traumatology, University of Modena and Reggio Emilia, Modena, Italy

### P06-116 Effects of pacifier use on the developing dentition of 9- to 36-months-old Japanese children: preliminary study

**T. YONEZU**<sup>1</sup>, H. SHIRAI<sup>2</sup>, T. KOJIMA<sup>1</sup> & S. SHINTANI<sup>1</sup>  
<sup>1</sup> Tokyo Dental College, Department of Paediatric Dentistry, Japan, <sup>2</sup> Combi Corporation, Japan

### P06-117 Influence of aging on experimental gastrointestinal motility in extraction of molar teeth rats

**N. KUBOYAMA**<sup>1</sup>, E. B. TUNA<sup>2</sup>, K. OGAWA<sup>3</sup>, T. ASANO<sup>3</sup> & T. MAEDA<sup>3</sup>  
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### P06-118 Effects of finger sucking on dental characteristics in the primary dentition: three-dimensional dental arch and palatal form analysis

**T. KOJIMA**, T. YONEZU, K. KUMAZAWA, H. KOJIMA & S. SHINTANI  
Tokyo Dental College, Department of Pediatric Dentistry, Tokyo, Japan

### P06-119 Premature loss of 1st primary molars. Is there a need for space maintenance? Systematic review and metaanalysis

**D. LAZARIDOU**<sup>1</sup>, D. TSANTOU<sup>1</sup>, E. G. KAKLAMANOS<sup>2</sup>, **S. ARIZOS**<sup>1</sup> & N. KOTSANOS<sup>1</sup>  
<sup>1</sup> Department of Paediatric dentistry, Aristotle University of Thessaloniki, Greece, <sup>2</sup> Private practice, Thessaloniki, Greece

### P06-120 Phenotypic and genotypic features of familial hypodontia in Saudi families

**S. ALFAWAZ**<sup>1</sup>, F. WONG<sup>1</sup>, M. HECTOR<sup>1</sup> & D. P. KELSEY<sup>2</sup>  
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Research, Blizzard institute, Barts and The London School of Medicine and Dentistry, Queen Mary, University of London, UK

### P06-121 Prevalence and distribution patterns of molar-incisorhypomineralisation (MIH) using different index teeth

**D. MACH**<sup>1</sup>, R. HICKEL<sup>1</sup>, J. KÜHNISCH<sup>1</sup>, E. THIERING<sup>2</sup> & J. HEINRICH<sup>2</sup>  
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### P06-122 Factors affecting the treatment duration of forced eruption of impacted incisors: a retrospective study

**L. R. CHEN**, Y. W. CHAN & C. L. HSU  
Taichung Veterans General Hospital, Taichung, Taiwan

### P06-123 Comparison of root end closure technique in nonvital teeth using MTA & Ca(OH)2 paste

**T. WALIA**  
College of Dental Surgery, Ajman University of Science & Technology, Ajman, United Arab Emirates

### P06-124 Comparison between calcium hydroxide and MTA effects during regenerative endodontic treatment with triple antibiotic mix

**S. Y. JANG**, K. T. PARK, J. Y. KIM  
Department of Pediatric Dentistry, Samsung Medical Center, Sungkyunkwan University, School of Medicine, Seoul, Korea

### P06-125 Two years follow up of traumatized tooth treated with revascularization

**A. BELCHEVA** & I. TARPOMANOV  
Department of Paediatric Dentistry, Medical University, Plovdiv, Bulgaria

## Poster Session P07/Dental Anxiety and Behaviour Management 1- Special Needs Patients 1

### P07-126 Awareness of Greek dental practitioners on issues of child abuse and neglect

**A. LAUD**<sup>1</sup>, S. GIZANI<sup>1</sup>, L. PAPAGIANNOULIS<sup>1</sup> & R. WELBURY<sup>2</sup>  
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### P07-127 Impact of social status and time of the first dental visit on children behaviour and dental chart

**A. WELLY**<sup>1</sup>, H. LANG<sup>1</sup>, D. WELLY<sup>1</sup> & P. KROPP<sup>2</sup>  
<sup>1</sup> Department of Operative Dentistry and Periodontology, University of Rostock, Germany, <sup>2</sup> Department of Medical Psychology, University of Rostock, Germany

### P07-128 Role play in paediatric dentistry – making composed and confident dentists? Patient and student perspectives

**S. MITHA** & M. G. BABAR  
School of Dentistry, International Medical University, Kuala Lumpur, Malaysi

### P07-129 Children's viewpoint on dental treatment

**A. GONC**, ALVES, J. P. N. CARVALHO & **A. P. LOBO**  
Department of Paediatric Dentistry and Children's Oral Health, Advanced Institute of Health Sciences- North, Gandra PRD, Porto, Portugal

### P07-130 The impact of maternal attachment on children's cooperative behaviour during dental examination and treatment in the United Arab Emirates

**A. HOSIN**<sup>1</sup>, E. OKEEFE<sup>1</sup> & W. AL JANABI<sup>2</sup>  
<sup>1</sup> London Metropolitan University, London, UK, <sup>2</sup> Sheikh Khalifa Medical City, Abu Dhabi, UAE

### P07-131 Evaluate the anticonvulsant and anxiolytic action of indigoferasuffruticosa mill

**G. B. LINDOSO-COUTO**<sup>1</sup>, T. MALHEIROS<sup>1</sup> & E. ALMEIDA<sup>2</sup>  
<sup>1</sup> Paediatric Dentistry, Federal University Of Pernambuco – Brazil, <sup>2</sup> Pharmacy, Brazil

### P07-132 Psychometric properties of the Chinese version of the modified CFSS-DS

**D. S. YU**, W. ZHAO, J. X. LU & **W. HUANG**  
Guanghua School of Stomatology, Institute of Stomatological Research, Sun Yat-sen University, Guangzhou, China

### P07-133 Uncooperative children: parental, child, and treatment variables

**K. ARAPOSTATHIS**<sup>1</sup>, T. COOLIDGE<sup>2</sup> & E. EXARXOU<sup>1</sup>  
<sup>1</sup> Department of Paediatric Dentistry, Aristotle University of Thessaloniki, Thessaloniki, Greece, <sup>2</sup> Dental Public Health Sciences, University of Washington, Seattle, Washington, USA

### P07-134 Istanbulian Greek minority school children's dental attire choices in relation with dental anxiety

**O. O. KUSCU**, N. SANDALLI, **K. TONGUC**, N. PANAGIOTOU & E. ÇAGLAR  
Department of Paediatric Dentistry, Dental School, Yeditepe University, Istanbul, Turkey

### P07-135 Interrelationship between IQ and cooperation in dental clinic among 5–7 year-old children

**B. AJAMI**<sup>1</sup>, E. DOOSTDARI<sup>1</sup> & M. TABATABAIE<sup>2</sup>  
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### P07-136 Child abuse in ancient mythology: a retrospective study

**C. STAVRIANOS**, **D. MICHAILIDOU**, L. VASILEIADIS, E. SAMARA & I. STAVRIANOU  
Department of Endodontology (Forensic odontology), Faculty of dentistry, Aristotle University of Thessaloniki, Greece

### P07-137 A case report of an abused child referred by a paediatric dentist

**C. STAVRIANOS**, D. TATSIS, **A. CHRISTOPOULOU** & I. STAVRIANOU  
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## Poster Session P08/Dental Trauma 1

### P08-138 Association of bucco-dental trauma types in handicapped patients

**A. J. NOGUEIRA**<sup>1</sup>, R. NOGUEIRA<sup>2</sup> & R. NOGUEIRA<sup>2</sup>  
<sup>1</sup> Federal University of Pará, Pará, Brazil, <sup>2</sup> Superior School of Amazon, Pará, Brazil

### P08-139 Horizontal root fractures

**L. SHAFIEL**<sup>1</sup> & F. FARZANEH<sup>2</sup>  
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### P08-140 Pilot study of the tug-back tactile sensation and voids detected in the apical area of filled root canals

**C. PAPADOPOULOU**, E. PARCHA, C. STAVROPOULOU & M. KHABBAZ  
Dental School, University of Athens, Greece

### P08-141 Different possibilities for direct restorations of a single missing anterior tooth reinforced with polyethylene fibers – report of cases

**H. JURIĆ**<sup>1</sup>, J. MATIJEVIĆ<sup>2</sup> & I. MEDVEDEC<sup>3</sup>  
<sup>1</sup> Department of Paediatric and Preventive Dentistry, School of Dental Medicine, Zagreb, Croatia, <sup>2</sup> Department of Endodontics and Restorative Dentistry, School of Dental Medicine, Zagreb, Croatia, <sup>3</sup> Department of Endodontics and Restorative Dentistry, School of Dental Medicine Split, Croatia

### P08-142 Evaluation of parents' and teachers' attitude in emergency management of dental trauma

**M. MEHRABKHANI** & B. AJAMI  
Mashhad University of Medical Sciences, School of Dentistry, Mashhad, Iran

### P08-143 Replantation of an avulsed permanent maxillary incisor: case report of a 9-year follow up

**V. PETROVIĆ**, **M. BAUKOV** & B. POPOVIĆ  
Clinic for Paediatric and Preventive Dentistry, Faculty of Stomatology, Belgrade, Serbia

### P08-144 Dentoalveolar trauma management at the oral and maxillofacial department of a children's hospital: 10 years experience

**N. THEOLOGIE-LYGIDAKIS**, **M. LEVENTIS**, P. TELONA, A. KOUROUMALIS & I. IATROU  
Department of Oral and Maxillofacial Surgery at Children's Hospital "P. and A. Kyriakou", Dental School, University of Athens, Greece

### P08-145 Traumatic dental injuries in primary dentition

**N. L. MARTINEZ**, A. M. MONDELLO, A. FERRANTE, A. NAKASATO & C. D ADAMO  
Cátedra de Odontología Integral Niños y Adolescentes, Facultad de Odontología de la Universidad de Buenos Aires, Argentina

### P08-146 Dental trauma knowledge and treatment attitude among dental therapists in Singapore

**O. C. EU** & **J. J. NG**  
School Dental Service, Health Promotion Board, Singapore

### P08-147 Knowledge and awareness of oral-dental trauma among parents of primary and preschool children in Istanbul

**B. ONER**<sup>1</sup>, D. OZDEMIR-OZENEN<sup>1</sup>, E. SUNGURTEKIN<sup>1</sup>, H. ISSEVER<sup>2</sup> & N. SANDALLI<sup>1</sup>  
<sup>1</sup> Faculty of Dentistry, Department of Pedodontics, Yeditepe University, Turkey, <sup>2</sup> Faculty of Medicine, Department of Biostatistics, Istanbul University, Turkey

### P08-148 Alveolar bone loss after the early loss of upper central incisor in growing children

**A. CHOI**, H. J. CHOI, S. O. KIM, J. S. SONG, S. KIM & B. J. CHOI  
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### P08-149 Treatment of horizontal fractures in immature central incisors: a case report

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## Poster Session P09/Morita Prize 2- Clinical Research- Dental Anxiety and Behavioural Management 2- Special Needs Patients 2

### P09-150 Effectiveness of analgesics in pain management and anxiety in pediatric dentistry

**S. ZARATE**, **A. LIZÁRRAGA** & C. FREGOSO  
Postgraduate Program of Pediatric Dentistry Universidad Autónoma de Baja California, Mexico

### P09-151 Analysis of related factors of oral habits in children

**S. G. ZHENG**, Y. LEI & X. ZHU  
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### P09-152 Changes in empathy during dental training in Thessaloniki, Greece

**D. TSANTOU**<sup>1</sup>, D. LAZARIDOU<sup>1</sup>, T. COOLIDGE<sup>2</sup>, K. ARAPOSTATHIS<sup>1</sup> & N. KOTSANOS<sup>1</sup>  
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### P09-153 Dental anxiety and fear: a survey of Turkish children

**C. TURAN**, A. DUNDAR ÜNNÜ, Z. AYTEPE & M. T. AKINCI  
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### P09-154 Greek parents' acceptance of behavior management techniques used in paediatric dentistry

**V. BOKA**<sup>1</sup>, K. ARAPOSTATHIS<sup>1</sup>, N. VRETOS<sup>2</sup> & N. KOTSANOS<sup>1</sup>  
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### P09-155 Evaluation of a novel behaviour prediction scale

**S. SURENDRAN**, S. ASOKAN & R. PRABHU  
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### P09-156 Oral manifestations of cancer treatment in Mexican children

**I. VERDUGO**<sup>1</sup>, V. URETA<sup>1</sup>, M. SOTO<sup>1</sup>, M. TORRES<sup>1</sup> & A. MENDOZA<sup>2</sup>  
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**P09-157 Evaluation of adaptability for dental treatment of autistic patients by developmental test**

M. KAWA<sup>1</sup>, M. SAITOH<sup>2,3</sup>, D. NORO<sup>2,3</sup>, K. KINOSHITA<sup>4</sup>, T. KAWAKAMI<sup>2</sup> & S. IGARASHI<sup>3</sup>

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**P09-158 Clues from saliva in autistic children**

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**P09-159 An integrated care pathway in the management of medically compromised patients requiring dental treatment under general anaesthesia**

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**P09-160 Molar incisor hypomineralization in down syndrome patients**

C. NARANJO-CAMILLA<sup>1</sup>, M. J. VICUÑA<sup>2</sup>, A. ORMEÑO<sup>1</sup> & R. TAPIA<sup>1</sup>

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**P09-161 The approach to dental treatment for patients with Ataxia Telangiectasia in Israel**

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Division of Paediatric and Hospital Dentistry, Sheba Medical Center

**Poster Session P10/Special Needs Patients 3**

**P10-162 Knowledge of cardiac patients and carers about infective endocarditis at a paediatric cardiology clinic with regular oral health input**

A. HOLLIS & R. BALMER

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**P10-163 Pattern of cleft lip and palate deformities and associated dental anomalies in a beneficiary population: a preliminary report**

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**P10-164 Paediatric dental care under general anesthesia in unit for specialized oral care of the city of Helsinki**

U. SAARNISTO<sup>1</sup>, A. HANDOLIN<sup>1</sup>, H. ALAPULLI<sup>1,2</sup>, T. KUITTINEN<sup>3</sup> & S. ALALUUSUA<sup>1,2</sup>

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**P10-165 Oral health behaviours of preschool children with cerebral palsy: a case control community based study**

R. Y. DU, C. MCGRATH, C. K. YIU & N. M KING

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**P10-166 Comprehensive dental care under general anesthesia in Helsinki University children's hospital**

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**P10-167 Oral manifestations in patients with hypophosphatasia: report of 14 cases**

R. OKAWA, K. NAKANO, M. MATSUMOTO & T. OOSHIMA

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**P10-168 Total antioxidant capacity of saliva in children with cerebral palsy and down syndrome**

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**P10-169 Amelogenesis imperfecta-like presentation in a patient with type I diabetes and coeliac disease**

K. S. TANG & J. TAHMASSEBI

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**P10-170 Oral health status, attitudes and behavior of non-institutionalized, working adults with intellectual disabilities**

V. MARGARITIS, H. KOLETSI-KOUNARI, E. MAMAIHOMATA & J. KIRIAKOU

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**P10-171 Study on the dental caries and related risk factors of intellectually/mentally disabled children in Guangzhou City**

W. ZHAO, D. S. YU, W. LUO & J. X. LU

Guanghua School of Stomatology, Institute of Stomatological Research, Sun Yat-sen University, Guangzhou, China

**P10-172 Sequence of permanent teeth emergence in children with malignancies**

C. BICA<sup>1</sup>, A. DRASOVEANU<sup>1</sup>, M. PACURAR<sup>1</sup>, M. CHINCESAN<sup>2</sup> & S. STOLNICU<sup>3</sup>

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**P10-173 Guideline for oral health in children with special health care needs in Mexico**

H. MARTINEZ<sup>1,2,3</sup>, R. MARTINEZ<sup>2</sup>, M. A. G. TREVINO<sup>3</sup> & G. RIVERA<sup>3</sup>

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**P10-174 Caries experience of 2–3 year-old children with cleft lip and palate in Riga cleft lip and palate centre**

K. KRASONE<sup>1</sup>, R. CARE<sup>1</sup> & I. AKOTA<sup>2</sup>

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**P10-175 Dental management for leukemic patients**

S. HELLI

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**P10-176 Long term effects of chemotherapy in developing dentition: presentation of seven different cases**

C. REPPA<sup>1</sup>, E. MANTELOU<sup>1</sup>, H. STAMATAKIS<sup>2</sup>, A. BYRAKI<sup>2</sup> & D. EMMANOUIL<sup>1</sup>

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**P10-177 Interdisciplinary dental management of an adolescent male putatively due to vitamin D deficiency in early life**

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**P10-178 Knowledge among parents of patients with congenital heart anomalies about the importance of oral health**

A. REXHEPI<sup>1</sup>, A. RAKA<sup>1</sup>, T. KUTLLOVCI<sup>1</sup>, A. BEGZATI<sup>1</sup>, B. XHEMAJLI<sup>1</sup> & V. KRASNIQI<sup>2</sup>

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**P10-179 Dentofacial injuries in children and their relationship with psychiatric symptoms of externalizing type**

I. VASILOUDIS<sup>1</sup>, M. SIFAKAKI<sup>1</sup>, G. VADIAKAS<sup>1</sup>, G. KOLAITIS<sup>2</sup> & L. PAPAGIANNOULIS<sup>1</sup>

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**Poster Session P11/Oral Medicine and Pathology**

**P11-180 Hyperbaric oxygen use in a 7 year-old child requiring dental extractions**

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**P11-181 Oral manifestations of leukemia**

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**P11-182 Levels of volatile hydrogen sulfide concentration and the analysis of related factors in oral cavities of 3–5 years-old healthy children**

X. X. GAO<sup>1</sup>, Q. SHI<sup>2</sup> & S. H. YANG<sup>2</sup>

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**P11-183 Double eruption cyst in a newborn boy. Report of an unusual case and review of the literature**

M. ZARAKAS<sup>1</sup>, K. TSINIDOU<sup>2</sup>, C. TRIANTAFYLLOU<sup>1</sup>, E. MEGALOGIANNI<sup>2</sup> & K. I. TOSIOS<sup>1</sup>

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**P11-184 Tooth extraction in child patients with haemophilia – comparison of two possibilities of treatment**

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**P11-185 An in-vitro observation of five traditional Chinese medicine extractions\_ inhibitory effect on halitosis bacteria**

X. ZHOU, S. CAI & Q. SHI

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**P11-186 Malignant salivary gland neoplasms: analysis of five new pediatric cases**

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LSUHSC School of Dentistry, USA

**P11-187 Tooth decay prevalence and DMF index in HIV/ children undergoing highly active antiretroviral therapy including NNRTI**

L. ARZAMENDI<sup>1</sup>, L. A. GAYTÁN<sup>2</sup>, M. E. TORRES<sup>3</sup>, N. CASTILLO<sup>1</sup>, J. ALVELAIS<sup>1</sup> & H. GÓMEZ LLANOS<sup>3</sup>

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**P11-188 Exudative erythema multiforme (MKB CODE C-3). L51**

L. DROBOTKO, S. STRAKHOVA & M. ZHEVNOVA

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**P11-189 Osteopetrosis: a comprehensive report of a rare case**

A. MAKAREM<sup>1</sup>, N. LOFTI<sup>2</sup>, S. A. DANESH-SANI<sup>3</sup> & S. NAZIFI<sup>4</sup>

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**P11-190 Regional odontodysplasia: integral management**

E. GRAPSAS & I. C. GUITELMAN

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**P11-191 Co-existence of an hybrid calcifying cystic odontogenic tumour and a cutaneous pilomatrixoma in a child: case report and literature review**

N. KOLOMVOS<sup>1</sup>, G. KAMPEROS<sup>2</sup>, E. CHRYSOMALI<sup>2</sup> & I. IATROU<sup>1</sup>

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**P11-192 Transient lingual papillitis in a paediatric patient: case report and literature review**

N. NIKITAKIS, G. KAMPEROS, G. MITROU & A. SKLAVOUNOU-ANDRIKOPOULOU

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**P11-193 Keratocystic odontogenic tumors in children. Eleven years experience**

E. VARDAS<sup>1,2</sup>, M. LEVENTIS<sup>2</sup>, N. THEOLOGIELYGIDAKIS<sup>2</sup> & I. IATROU<sup>2</sup>

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**P11-194 Congenital epulis of the newborn – report of three cases**

I. ORPHANO<sup>1</sup>, K. SPYROU<sup>1</sup>, M. ZORMPA<sup>2</sup>, A. EPIVATIANOS<sup>2</sup>, A. KOLOKOTRONIS<sup>2</sup> & T. TIMOTHEOU<sup>1</sup>

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**P11-195 Follicular cyst in the childhood – case report**

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**P11-196 Amelogenesis imperfecta - long term rehabilitation in children**

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**P11-197 Giant cell fibroma in a child: case report**

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**Poster Session P12/Morita Prize 1- Case Report - Dental Anomalies- Dental Trauma 2- Others**

**P12-198 Non-syndromic oligodontia in a 5-year-old child**

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**P12-199 Clinical management of supernumerary teeth: a report of a case**

F. A. SABUNCUOGLU<sup>1</sup>, Ö. M. AKGÜN<sup>2</sup>, E. ARAT<sup>2</sup>, C. ALTUN<sup>2</sup> & G. GUVEN<sup>2</sup>

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**P12-200 Mesiodens as a cause of midline space (a case report)**

F. A. SABUNCUOGLU<sup>1</sup>, E. ÖZCAN<sup>2</sup>, Ö. M. AKGÜN<sup>3</sup>, C. YILDIRIM<sup>3</sup> & F. BASAK<sup>3</sup>

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**P12-201 Case report multiple dental anomaly in paediatric patients**

R. INDRIYANTI

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**P12-202 Intrinsic pigmentation in primary teeth due to neonatal hyperbilirubinemia**

K. M. P. C. REZENDE<sup>1</sup>, A. CARRILLO<sup>2</sup>, S. RODAS DE CARRILLO<sup>2</sup>, V. E. ARANA-CHAVEZ<sup>3</sup> & M. BONECKER<sup>1</sup>

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**P12-203 Supernumerary teeth in mandibular incisor region**

Y. J. MAH

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**P12-204 Management of avulsed central permanent incisor in 11 year-old boy using fixed orthodontic appliance**

A. SETIAWAN

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**P12-205 Unilateral mandibular condyle fracture in an 8 year-old: treatment and 1 year follow-up**

**N. GULER<sup>1</sup>, S. SELVI-KUVVETLI<sup>2</sup> & N. SANDALLI<sup>2</sup>**  
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**P12-206 Guided bone regeneration following teeth extractions in the anterior maxilla of a 15 years-old patient for future implant placement**

**S. VASSILOPOULOS**  
University of Athens, Athens, Greece

**P12-207 Treatment of primary anterior teeth with ready-made zirconia crowns (ZIRKIZ® crowns)**

**S. K. KIM**  
CDC Haeundae Children's Dental Clinic, Busing, Korea

**P12-208 Restorative treatment of radiation-related caries. Case report**

**O.I. ADMAKIN<sup>1</sup>, E. SKATOVA<sup>2</sup>, M. AKIMOVA<sup>2</sup> & M. MAKEEVA<sup>2</sup>**  
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**P12-209 Novel scheme for reduction of drug induced gingival hyperplasia**

**O. PANAHİ<sup>1</sup> & E. TEVETOGLU<sup>2</sup>**  
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**P12-210 Conservative pulp treatment for young permanent tooth with apical lesion**

**H. KIM, N. Y. LEE & S. H. LEE**  
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**P12-211 Endodontically treatment of the extra tooth fused to a mandibular second molar**

**O. PANAHİ<sup>1</sup> & E. TEVETOGLU<sup>2</sup>**  
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**P12-212 Intentional autotransplantation of a premolar tooth: management of dentigerous cyst**

**A. DUNDAR-UNNU<sup>1</sup>, E. B. TUNA<sup>1</sup>, B. CANKAYA<sup>2</sup> & K. GENÇAY<sup>1</sup>**  
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**Poster Session P13/Dental Materials 3**

**P13-213 Effects of APF gel application on surface roughness, gloss and color of different type resin composites**

**Y. HOSOYA<sup>1</sup>, T. SHIRAISHI<sup>2</sup>, R. M. PUPPIN-RONTANI<sup>3</sup> & R. D. PARAVINA<sup>4</sup>**

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**P13-214 Different concentrations of chlorhexidine stabilize in vitro bond strength in primary dentine**

**A. ROSLER GRINGS MANFRO<sup>1</sup>, A. REIS<sup>2</sup>, A. DOURADO LOGUERCIO<sup>2</sup>, D. A. DUARTE<sup>1</sup>, J. C. PETTOROSSİ IMPARATO<sup>3</sup> & D. PROCIDA RAGGIO<sup>3</sup>**

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**P13-215 Influence of pH cycling on surface hardness of glass ionomer cements**

**A. J. BEBER<sup>1</sup>, D. PROCIDA RAGGIO<sup>2</sup>, J. C. PETTOROSSİ IMPARATO<sup>2</sup> & A. R. G. LERGRINGS MANFRO<sup>1</sup>**

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**P13-216 Ex vivo comparative study of four adhesive systems in primary dentition**

**S. CORTESE<sup>1</sup>, M. PICCA<sup>2</sup>, A. KAPLAN<sup>2</sup> & A. BIONDI<sup>1</sup>**  
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**P13-217 Fluoride release and uptake capacities of aesthetic restorative materials**

**D. DIONYSOPOULOS, E. KOLINIOTOU-KOUMPIA, M. HELVATZOGLOU-ANTONIADES, N. KOTSANOS & V. KARAGIANIS**  
Aristotle University of Thessaloniki, Greece

**P13-218 Glass ionomer cements bonding to caries-affected dentine in primary teeth**

**F. B. T. ALVES<sup>1,2</sup>, A. REIS<sup>2</sup>, A. D. LOGUERCIO<sup>2</sup>, T. S. CARVALHO<sup>1</sup> & D. P. RAGGIO<sup>1</sup>**  
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**P13-219 Bisphenol-A release from fissure sealants**

**C. H. FINKE<sup>1</sup>, G. EREK<sup>1</sup>, C. PIECHOTTA<sup>2</sup>, I. NEHLS<sup>2</sup> & P. G. JOST-BRINKMANN<sup>1</sup>**  
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**P13-220 The influence of etching and re-mineralization time on enamel re-mineralization of deciduous teeth**

**J. WANG & L. Y. SONG**  
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**P13-221 Proximal art restorations using two layers insertion of GIC: preliminary results**

**D. HESSE<sup>1</sup>, C. A. B. GUGLIELMI<sup>1</sup>, C. C. BONIFÁCIO<sup>2</sup>, M. BÖNECKER<sup>1</sup>, E. VAN AMERONGEN<sup>2</sup> & D. P. RAGGIO<sup>1</sup>**  
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**P13-222 Effects of media and toothbrushing on microhardness of restorative materials**

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**P13-223 Effect of disposable infection control covers on power density and spectral output from dental light curing units**

**I. BROKOS, K. HARLEY & A. SANTINI**  
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**P13-224 Bond strength of self-etch adhesives to deciduous tooth caries affected dentine applied ER: YAG laser**

**A. E. KOYUTURK<sup>1</sup>, B. OZMEN<sup>1</sup>, M. CORTCU<sup>2</sup>, U. TOKAY<sup>1</sup>, G. TOSUN<sup>3</sup> & M. E. SARI<sup>4</sup>**

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**P13-225 Comparative effects of hydroxyapatite and hydroxyapatite with platelet rich plasma in apexogenesis: study on experimental animals**

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**P13-226 Dental health and restorative materials in primary teeth – a practice based study**

**T. KÄKILEHTO, S. VÄLIMÄKI, L. TJÄDERHANE, H. VÄHÄNIKKILÄ & V. ANTONEN**  
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**P13-227 Measurement of tensile properties between composite resin (CR) and resin modified glass ionomer cement (RMGIC)**

**S. FRAGKOU<sup>1</sup>, A. NIKOLAIDIS<sup>2</sup>, D. TSANTOU<sup>1</sup>, D. ACHILIAS<sup>2</sup> & N. KOTSANOS<sup>1</sup>**

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**P13-228 Glass-ionomer cement bonding to primary dentine after two methods of insertion**

**C. A. B. GUGLIELMI<sup>1</sup>, T. L. LENZI<sup>1</sup>, C. C. BONIFÁCIO<sup>2</sup>, E. VAN AMERONGEN<sup>2</sup>, M. BÖNECKER<sup>1</sup> & D. P. RAGGIO<sup>1</sup>**  
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**P13-229 SEM analysis of adhesive system/dentine interfaces on ER:YAG laser or bur prepared cavities**

**Y. GUVEN & O. AKTOREN**  
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**P13-230 The possible co-operative role of strontium and fluoride in glass ionomer cements in reducing demineralization of artificial hydroxyapatite tooth analogues**

**A. ALBARKHEE, R. HILL & P. ANDERSON**  
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**P13-231 Adhesive systems bonding to caries-affected dentine in primary teeth**

**F. BUCHOLDS TEIXEIRA ALVES<sup>1,2</sup>, T. L. LENZI<sup>1</sup>, A. DOURADO LOGUERCIO<sup>2</sup>, A. REIS<sup>2</sup>, T. SAADS CAVALHO<sup>1</sup> & D. PROCIDA RAGGIO<sup>1</sup>**  
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**P13-232 SEM evaluation of chemomechanical caries removal using Carisolve**

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**P13-233 Cytotoxicity of pulpotomy agents: an in vitro study**

**E. A. KOULAOUZIDOU, P. MOUROUZIS & M. HELVATJOGLU-ANTONIADES**  
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**P13-234 Current practice on the use of dental materials and influence of parental opinion in Chile**

**G. PIMENTEL<sup>1</sup>, S. M. KRÄMER<sup>1</sup>, G. ZILLMANN<sup>1</sup> & C. FINGERHUTH<sup>2</sup>**

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**P13-235 Bond strength of self-adhesive cements to deciduous enamel**

**N. WAKAMATSU, H. SASAI, M. ONISHI & Y. TAMURA**  
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**P13-236 Adhesion of silorane based restorative system**

**B. A. SERIN<sup>1</sup>, H. O. YOLDAS<sup>2</sup> & M. C. DOĞAN<sup>1</sup>**  
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**Poster Session P14/Public Health**

**P14-237 Twenty years of children's dental programme in Osakidetza, Basque health service**

**M. URBERUAGA-ERCE<sup>1</sup>, R. D. MALVADI<sup>1</sup>, I. I. MENDIKUTE<sup>1</sup>, K. ARRONDO GIL<sup>1</sup>, C. M. SANJUAN<sup>2</sup> & J. N. DELOS RIOS DE LA PEÑA<sup>2</sup>**  
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**P14-238 Attitude and beliefs of traditional birth attendants to prematurely erupted teeth in infants, in urban local government areas in Ibadan, Nigeria**

**O. BANKOLE<sup>1</sup>, J. TAIWO<sup>2</sup> & O. NASIRU<sup>3</sup>**  
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of Ibadan, Ibadan, Nigeria, <sup>3</sup> Department of Community Dentistry and Periodontology, University College Hospital, Ibadan, Nigeria

**P14-239 The effect of different models of oral health education programs on adolescents**

**N. LUNYOVA<sup>1</sup>, E. MASLAK<sup>2</sup>, S. DEREVYANCHENKO<sup>2</sup>, M. YANOVSKEYA<sup>3</sup>, V. SHKARIN<sup>3</sup> & S. STAVSKAYA<sup>3</sup>**  
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**P14-240 Oral health knowledge: a survey of health teachers in public primary schools in Lagos State, Nigeria**

**M. AGBAJE<sup>1</sup>, O. ONIGBINDE<sup>2</sup>, A. ADENIYI<sup>2</sup>, F. ASHIWAJU<sup>3</sup> & F. OREBANJO<sup>4</sup>**  
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**P14-241 Utilization of the early dental screening program in Germany**

**R. SCHILKE & W. GEURTSSEN**  
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**P14-242 Use of art in children from 3 to 7 years of riparian communities in the Amazon – state of Amapá, Brazil**

**T. R. PÉRES VAZ**  
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**P14-243 An evaluation of topical fluoride uptake in primary schools**

**A. TSICHLAKI<sup>1</sup>, J. GALLAGHER<sup>2</sup> & A. PAU<sup>2</sup>**  
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**P14-244 Medical procedure codes icd-9 cm performed on children and adolescents in the dental specialist centre, Medical University of Gdańsk in Poland**

**E. D. BASMAJLI & B. ADAMOWICZ-KLEPAŁSKA**  
Medical University of Gdańsk, Poland

**P14-245 Socio-economic status and schools oral health promoting program**

**G. QADRI<sup>1</sup>, M. FRANZE<sup>2</sup> & C. SPLIETH<sup>2</sup>**  
<sup>1</sup> Al-Hada Military Hospital, Saudi Arabia, <sup>2</sup> Greifswald University, Germany

**P14-246 The changes of dental health care of boarding school children in three years**

**S. ACAR & E. SABAH**  
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**P14-247 Dental health inequalities of 11-year-old children in Edinburgh (Lothian), UK**

**K. CHRYSOPOULOS<sup>1</sup>, K. HARLEY<sup>1</sup> & C. JONES<sup>2</sup>**  
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**P14-248 Trends in dental caries (1993–2010) among children in a rural region of NE-Greece**

**V. TOPITSOGLOU<sup>1</sup> & A. DEMERTZ<sup>2</sup>**  
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**P14-249 Portable dental chairs and their role in assisting the community outreach program**

**E. NILCHIAN, M. ESKINI & A. SAHLABADI**  
Esfahan Medical University, Iran

**P14-250 Parenting style and oral hygiene in adolescents**

**V. BRUKIENE<sup>1</sup> & J. ALEKSEJUNIENE<sup>2</sup>**  
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<sup>2</sup> Faculty of Dentistry, Department of Oral Health Sciences, University of British Columbia, Vancouver, Canada



**P14–251 Dental fluorosis and caries prevalence among 9–13 year old school children residing in an industrial aluminum plant area**  
**A. MENTES<sup>1</sup>, S. GUNER<sup>1</sup> & B. MERAKLI<sup>2</sup>**  
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**P14–252 Development and evaluation of extension course in atraumatic restorative treatment (ART) using distance education**  
**L. CAMARGO, D. RAGGIO, C. WEN, F. MENDES, M. BÖNECKER & A. HADDAD**  
 Paediatric Dentistry, Universidade Paulista, Brazil

**P14–253 Dental health education and preventive treatment program of public school children (aged 7–12) in Kadikoy Region, Istanbul, Turkey. “Health to our children’s smile”**  
**J. ATUKEREN, S. ERGENELI, Y. AYDIN, U. KABALAY & B. KURU**  
 Kadikoy Municipality Children Oral Health Clinic Istanbul, Turkey

**P14–254 Oral health status of women with normal and high –risk pregnancies**  
**H. HECHOVÁ<sup>1</sup>, J. STEHLÍKOVÁ<sup>1</sup>, V. MERGLOVÁ<sup>1</sup> & P. CHALOUPKA<sup>2</sup>**  
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**P14–255 Parental attitude to reversal of eruption sequence in Nigeria**  
**O. DENLOYE<sup>1</sup> & M. OSUH<sup>2</sup>**  
<sup>1</sup> Department of Child Oral Health, <sup>2</sup> Department of Periodontology and Community Dentistry, Faculty of Dentistry, University College Hospital, Ibadan, Nigeria

**P14–256 Physicians’ willingness to receive oral health information in Iran**  
**S. RABIEI<sup>1</sup> & S. Z. MOHEBBI**  
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**P14–257 Effects on health behavior of an individual tooth brushing intervention in school-children– a questionnaire based survey**  
**H. HALONEN<sup>1</sup>, L. SEPPÄ<sup>1</sup>, R. KILPELÄINEN<sup>1</sup>, E. PELTONEN<sup>2</sup>, L. TJÄDERHANE<sup>1</sup> & V. ANTONEN<sup>1</sup>**  
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**P14–258 Evaluation of theoretical and practical education of MTA manipulation for dental students in Iran**  
**E. FAROKH GISOUR<sup>1</sup> & R. IZADI<sup>2</sup>**  
<sup>1</sup> Department of Pediatric Dentistry, Kerman Medical Sciences University, Iran  
<sup>2</sup> Private practice, Tehran, Iran

**P14–259 Relationships between sense of coherence and attitudes towards oral health behaviors in adolescents**  
**T. COOLIDGE<sup>1,2</sup>, E. JOHNSON<sup>2,3</sup>, M. HEIMA<sup>2,4</sup> & P. WEINSTEIN<sup>1,2</sup>**  
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<sup>4</sup> Department of Paediatric Dentistry, Case Western Reserve University, Cleveland OH, USA

**P14–260 DNA detection of cariogenic and periodontal pathogens in the saliva of infants**  
**V. MERGLOVÁ & P. POLENÍK**  
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## Poster Session P15/Morita Prize 2- Case Report- Oral Medicine and Pathology 2- Special Needs Patients 4

**P15–261 Multidisciplinary approach in excision biopsy papilloma removal with Lite Touch ER:YAG laser in pediatric dental patient**  
**A. BELCHEVA<sup>1</sup>, G. TOMOV<sup>2</sup>, S. PETROVA<sup>2</sup> & T. TSVETANOV<sup>3</sup>**  
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<sup>3</sup> Faculty of Dental Medicine, Department of Oral Surgery, Medical University, Plovdiv, Bulgaria

**P15–262 Familial adenomatosis polyposis – oral and maxillofacial manifestations – case report**  
**V. TZIGKOUNAKIS<sup>1</sup>, D. KACEROVSKÁ<sup>2</sup>, V. MERGLOVÁ<sup>1</sup> & L. BABORSKÁ<sup>1</sup>**  
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**P15–263 Multiple impacted teeth associated with large follicular cyst: a case report**  
**G. F. FERRAZZANO, G. SANGIANANTONI, T. CANTILE, S. ORLANDO, I. AMATO & A. INGENITO**  
 University of Naples “Federico II”, Naples, Italy

**P15–264 Lichen planus in a child with vacterl association and T-cell lymphopenia**  
**J. HOWELL<sup>1</sup>, H. ZAITOUN<sup>1</sup>, D. HOLT<sup>1</sup>, M. COHEN<sup>2</sup> & C. YEOMAN<sup>1</sup>**  
<sup>1</sup> Paediatric Oral Medicine Unit, Charles Clifford Dental Hospital, Sheffield, UK, <sup>2</sup> Histopathology Department, Sheffield Children’s Hospital, Sheffield, UK

**P15–265 Radicular cyst: a radical complication of dental phobia**  
**K. OLIVER<sup>1</sup>, L. BREARLEY MESSER<sup>1</sup>, D. MANTON<sup>1</sup> & S. VERCO<sup>2</sup>**  
<sup>1</sup> University of Melbourne, Melbourne, Australia  
<sup>2</sup> Royal Dental Hospital of Melbourne, Melbourne, Australia

**P15–266 Nodular fasciitis of the upper labial mucosa: report of an unusual case with immunohistochemical analysis**  
**G. PRODROMIDIS, N. NIKITAKIS, S. TITSINIDES, E. ANDRIKOPOULOU & A. SKLAVOUNOU-ANDRIKOPOULOU**  
 Department of Oral Medicine and Pathology, Dental School, University of Athens, Athens, Greece

**P15–267 Dental presentation and management of a child with vitamin D deficiency and insulino -dependant diabetes Mellitus Type I**  
**D. SIDDIK & K. BARNARD**  
 Paediatric Dental Department, Chelsea & Westminster Hospital, London UK

**P15–268 Treatment considerations in patients with Duchenne muscular dystrophy: a case report of two siblings with dental caries**  
**E. KRATUNOVA & A. C. OCONNELL**  
 Division of Public and Child Dental Health, Dublin Dental University Hospital, Dublin, Ireland

**P15–269 Malignant hyperthermia in a cerebral palsy patient treated under GA-a case report**  
**J. M. SU**  
 Show-Chwan Memorial Hospital, Chang-Hua, Taiwan

**P15–270 Dental care in teenager with special needs**  
**M. D. C. GARCÍA FERNÁNDEZ, M. BERTOLINO, N. L. MARTÍNEZ, E. MEDINA & L. COOK**  
 UBA Cátedra de Odontología Integral Niños, Buenos Aires, Argentina

**P15–271 Von Willebrand Disease (VWD): case report treated in a dental chair**  
**P. NÚÑEZ, P. PRECIADO & I. VERDUGO**  
 Paediatric Dentistry Postgraduate Program, Facultad de Odontología, Universidad Autónoma de Baja California, México

**P15–272 Incontinentia Pigmenti: a case report**  
**Y. C. CHEN & Y. S. CHANG**  
 Department of Paediatric Dentistry, Taipei Medical University Hospital, Taipei, Taiwan

**P15–273 Interdisciplinary oral therapy in Cleidocranial Dysplasia: three-year evolution**  
**J. HASSI, G. NAREA, L. BRAVO & P. ZÚÑIGA**  
 Department of Paediatric Dentistry, Dentistry Faculty University of Chile, Chile

**P15–274 A case report of an individual with mutated NTRK1**  
**N. ISOGAWA<sup>1,2</sup>, T. TANAKA<sup>3</sup> & M. ISHIKAWA<sup>2</sup>**  
<sup>1</sup> Kameda Clinic Dental Center, Chiba, Japan, <sup>2</sup> Department of Pediatric Oral Health Care Science, Tokyo Medical and Dental University, Tokyo, Japan,  
<sup>3</sup> Tokyo Medical and Dental University Department of Dermatology, Tokyo Medical and Dental University, Tokyo, Japan

**P15–275 Chediak-Higashi Syndrome: a differential diagnosis of early onset periodontitis. A case report**

**J. Y. LIU & S. CHANG**  
 Department of Paediatric Dentistry, Taipei Medical University Hospital, Taipei, Taiwan

**P15–276 Ectodermal Dysplasia – a teenage challenge**  
**A. AMMARI, E. WORRELL & J. PARRY**  
 Royal Alexandra Hospital for Sick Children, Brighton and Sussex University Hospitals Trust, United Kingdom

**P15–277 EDA gene mutation, c.1174t>c, in a four generation family shows clinical variability in manifesting heterozygote females**  
**N. DINCKAN<sup>1</sup>, I. KURAN<sup>2</sup>, H. KAYSERILI<sup>1</sup> & Z. O. UYGUNER<sup>1</sup>**  
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**P15–278 Dental management of an Apert syndrome case**  
**N. KOTSANOS & A. KEVREKIDOU**  
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**P15–279 Dental features and management of Silver Russell syndrome**  
**M. OKEEFFE, K. HARLEY & G. RICHARDSON**  
 Department of Paediatric Dentistry, Edinburgh Postgraduate Dental Institute, Edinburgh, UK

**P15–280 The ectrodactyly–ectodermal dysplasia–clefting (Eec) syndrome: a case report**  
**S. ZORLU<sup>1</sup>, G. KOYUNCUOLU<sup>1</sup>, D. ONER OZDAS<sup>1</sup>, M. A. ERDEM<sup>2</sup> & G. AREN<sup>1</sup>**  
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## Poster Session P16/Prevention 1

**P16–281 Dental erosion in children with asthma under bronchodilator medication**  
**A. ARGENTIERI, A. PISTOCHINI, R. DOÑO & L. PASSARINI**  
 University of Buenos Aires School of Dentistry Argentina

**P16–282 The effect of parent’s oral health related behaviors on the caries risk factors of children**  
**X. FENG<sup>1</sup> & Y. GAO<sup>2</sup>**  
<sup>1</sup> Department of Preventive and Pediatric Dentistry, People’s Hospital, College of Medicine, Shanghai Jiaotong University, Shanghai, PR China,  
<sup>2</sup> Beijing Children’s Hospital, PR China

**P16–283 Effect of two kinds chewing gum on salivary secretion**  
**D. TAO & X. FENG**  
 Preventive Dentistry, School of Stomatology, School of Medicine, Shanghai Jiaotong University, China

**P16–284 Consumption habits and oral health in preschool children**  
**A. PISTOCHINI<sup>1</sup>, S. PISANIAK<sup>2</sup>, V. MARCO<sup>2</sup> & R. DOÑO<sup>1</sup>**  
<sup>1</sup> Dentistry School, Faculty of Health Sciences- Maimonides University, Buenos Aires, Argentina, <sup>2</sup> Nutrition School, Faculty of Health Sciences- Maimonides University, Buenos Aires, Argentina

**P16–285 A study on the change of hue of fluoride varnish after application on tooth surface**  
**M. K. SEONG, Y. J. KIM & H. K. HYUN**  
 Department of Paediatric Dentistry, School of Dentistry, Seoul National University, Republic of Korea

**P16–286 Effectiveness of oral health instruction on knowledge of pregnant women attending the Ahwaz Health Centers in Iran**  
**L. BASSIR<sup>1</sup> & M. KHANEHMASJEDIL<sup>2</sup>**  
<sup>1</sup> Department of Paedodontics, Dental School Jondi Shapoor University of Medical Science, Ahwaz, Iran, <sup>2</sup> Department of Orthodontics, Dental School Jondi Shapoor University of Medical Science, Ahwaz, Iran

**P16–287 Mothers’ knowledge on the role of food in early childhood caries occurrence**  
**B. LATIFI-XHEMAJLI<sup>1</sup>, A. BEGZATI<sup>1</sup>, T. KUTLLOVCI<sup>1</sup>, A. REXHEPI<sup>1</sup> & A. BEGZATI<sup>2</sup>**  
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**P16–288 Effect of Tooth Mousse and MI Paste Plus on molar -incisor hypomineralisation: a pilot study**  
**Z. ABBASOGLU, M. BAKKAL & B. KARGUL**  
 Department of Pediatric Dentistry, Dental School, Marmara University, Istanbul, Turkey

**P16–289 Correlation between obesity, oral health and dietary preferences in children**  
**D. MARKOVIC<sup>1</sup>, I. KARADZIC<sup>2</sup>, A. VUKOVIC<sup>1</sup>, G. MITROVIC<sup>3</sup>, T. PERIC<sup>1</sup>, R. VUKOVIC<sup>3</sup> & M. POPOVIC<sup>4</sup>**  
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**P16–290 Cardiogenicity effects of three popular milks via dental plaque pH: plain bovine milk, soy milk and chocolate milk**  
**P. MOEINY<sup>1</sup>, M. S. ASGARI<sup>2</sup> & F. NAMAZI<sup>3</sup>**  
<sup>1</sup> Department of Pediatric Dentistry, Dental Branch, Islamic Azad University, Iran, <sup>2</sup> Private Practice, Iran, <sup>3</sup> Dental student of Islamic Azad University, Iran

**P16–291 Prevalence of early child caries in headstart programs of northeast Ohio**  
**C. DREWS & G. FERRETTI**  
 Department of Paediatric Dentistry, Case Western Reserve University School of Dental Medicine, Rainbow Babies and Children’s Hospital, Cleveland, Ohio, USA

**P16–292 Characteristics and compliance of paediatric patients to a recall system between 1990–2000 and 2000–2010 in a private dental practice**  
**R. PITROU, E. D. BERDOUSES & C. J. OULIS**  
 Departments of Paediatric Dentistry, Dental School, University of Athens, Greece

**P16–293 Antimicrobial efficacy of NAF-toothpastes**  
**S. KNEIST, C. SIECKMANN & H. KÜPPER**  
 Biological Laboratory, Center of Dentistry, University Jena, Germany

**P16–294 Dietary counseling beyond caries prevention**  
**H. BANGAR<sup>1</sup> & A. ALSHEDUKHY<sup>2</sup>**  
<sup>1</sup> Pediatric Dentistry, King Fahad Armed Force Hospital, Jeddah, KSA,  
<sup>2</sup> Pediatric Dentistry, RKH, Riyadh, KSA

**P16–295 Maternal xylitol exposure: long-term effect on caries prevalence in their offspring’s**  
**L. THORILD<sup>1</sup>, B. LINDAU<sup>1</sup> & S. TWETMAN<sup>2</sup>**  
<sup>1</sup> Public Dental Clinic, Varberg, Sweden, <sup>2</sup> Faculty of Health Sciences, Institute of Dentistry, University of Copenhagen, Denmark

**P16–296 Effect of a newly developed nano-sealing liquid on enamel demineralization-acid resistance induced by a newly developed nano-sealing liquid**  
**M. OZAKI<sup>1</sup>, H. KASHIWAMURA<sup>1</sup>, K. YANAGITA<sup>1</sup>, K. YOKOTA<sup>2</sup> & M. TSUNEKAWA<sup>2</sup>**  
<sup>1</sup> Paediatric Dentistry, Fukuoka Dental College, Fukuoka, Japan, <sup>2</sup> Nippon Shika Yakuhin Co., Ltd, Shimonoseki, Japan

**P16–297 Cooperation between parents of preschool children and dentists**  
**K. GINZELOVA & T. DOSTALOVA**  
<sup>2nd</sup> Medical Faculty, Department of Paediatric Stomatology, Charles University, Prague, Czech Republic

**P16–298 Effect of tablets containing IgY on salivary Streptococcus mutans in young children**  
**H. SHIRAI<sup>1</sup>, T. YONEZU<sup>2</sup> & S. SHINTANI<sup>2</sup>**  
<sup>1</sup> Combi Corporation, Japan, <sup>2</sup> Department of Pediatric Dentistry, Tokyo Dental College, Japan

## Poster Session P17/Oral Pathology 3

**P17–299 Atopic cheilitis in children with cow’s milk protein allergy**  
**V. V. REPINA, V. M. ELIZAROVA, L. N. DROBOTKO & E. KULAKOVA**  
 Moscow State University of Medicine and Dentistry, Moscow, Russia



**P17-300 Dental follicular hamartoma: a case report**  
N. G. NIKITAKIS, A. I. SFAKIANOU & A. SKLAVOUNOU-ANDRIKOPOULOU

Department of Oral Pathology and Medicine, Dental School, University of Athens, Athens, Greece

**P17-301 Extraction of an impacted mandibular second premolar in two steps: a case report**

E. LEMPESI<sup>1</sup>, N. KOLOMVOS<sup>2</sup>, A. KOLEVENTI<sup>3</sup>, M. MAVRAGANI<sup>1</sup>, M. MAKOU<sup>1</sup> & C. ALEXANDRIDIS<sup>2</sup>

<sup>1</sup> Department of Community Dentistry, Section of Orthodontics, Dental School, University of Athens, Greece, <sup>2</sup> Department of Oral and Maxillofacial Surgery, Dental School, University of Athens, Greece, <sup>3</sup> Hellenic Air Force General Hospital, Athens, Greece

**P17-302 Simple bone cyst. Report of two cases and review of the literature**

E. BESIRI, K. TOSIOS, D. EMMANOUIL & P. CHRISTOPOULOS  
Private Practice, Greece

**P17-303 Tumors and tumor-like lesions of the orofacial region in children. The contribution of paediatric dentist**

I. IATROU, N. THEOLOGIE-LYGIDAKIS, F. TZERBOS, P. CHRISTOPOULOS, N. KOLOMVOS & C. ALEXANDRIDIS  
University Department of Oral and Maxillofacial Surgery at the Children's Hospital "P. and A. Kyriakou", Dental School, University of Athens, Greece

**P17-304 Tumors of minor salivary glands in childhood: a clinico-pathological study**

P. ARGYRIS, N. G. NIKITAKIS, M. ANDRIKOPOULOU, E. PIPERI & A. SKLAVOUNOU-ANDRIKOPOULOU  
Department of Oral Pathology and Medicine, Dental School, University of Athens, Greece

**P17-305 Mucocoeles and ranulas in children and adolescence. A clinicostatistical and histopathological study**

T. KIRILLI, A. SAMARA, A. POULOPOULOS, D. ADREADIS & A. EPIVATIANOS  
Department of Oral Medicine and Pathology of the Dental School, Aristotle University of Thessaloniki, Greece

**P17-306 Giant cell fibroma: clinicopathological study of 11 cases in children**

P. ARGYRIS, E. CHRYSOMALI, E. PIPERI & A. SKLAVOUNOU-ANDRIKOPOULOU  
Department of Oral Pathology and Medicine, Dental School, University of Athens, Greece

**P17-307 Chronic traumatic oral ulceration in children: report of two cases and literature review**

S. I. PAPANAKOU, E. CHRYSOMALI & A. SKLAVOUNOU-ANDRIKOPOULOU  
Department of Oral Pathology and Medicine, Dental School, University of Athens, Greece

**P17-308 Locally aggressive dentigerous cyst in a six-year-old girl**  
N. NIKITAKIS<sup>1</sup>, S. MERKOURBEA<sup>1</sup>, C. ALEXANDRIDIS<sup>2</sup> & L. PAPAGIANOULIS<sup>3</sup>

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**P17-309 Papilloma of the palate – case report**

P. DEDES  
Private dental Clinic, Greece

**P17-310 Effect of vitamin D3 on tight junction formation in a human keratinocyte cell lines**

Y. MURAI, Y. KURASHIGE, D. NORO, Y. SAKAKURA & M. SAITOH  
Division of Paediatric Dentistry, Department of Oral Growth and Development, Health Sciences University of Hokkaido, Hokkaido, Japan

**P17-311 Myoepithelioma of the palate in a child**

S. E. LEE<sup>1</sup>, S. C. CHOI<sup>1</sup>, Y. C. CHOI<sup>1</sup>, K. C. KIM<sup>1</sup> & B. S. LEE<sup>2</sup>

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**P17-312 Oral manifestations of langerhans\_ cell histiocytosis: three case reports**

A. DUNDAR UNNU<sup>1</sup>, E. B. TUNA<sup>1</sup>, K. GENÇAY<sup>1</sup>, S. AKINCI<sup>2</sup> & M. T. AKINCI<sup>1</sup>

<sup>1</sup> Department of Pedodontics, Faculty of Dentistry, Istanbul University, Istanbul, Turkey, <sup>2</sup> Department of Histology and Embryology, Faculty of Dentistry, Istanbul University, Istanbul, Turkey

**P17-313 Clinical cases of oral mucosa pathology in early childhood**

D. OLCZAK-KOWALCZYK<sup>1</sup>, E. KRASUSKA-SIĄWINSKA<sup>2</sup>, B. ADAMOWICZ-KLEPAŁSKA<sup>3</sup>, F. D. BASMAJJI<sup>3</sup> & R. GÓRSKA<sup>1</sup>  
<sup>1</sup> Medical University of Warsaw, Poland, <sup>2</sup> The Children's Memorial Health Institute Warsaw, Poland <sup>3</sup> Medical University of Gdańsk, Poland

**P17-314 Two cases presenting a dentigerous cyst treated with either marsupialization or enucleation**

G. ANGELOPOULOS, L. FLOURIS & M. MAKOU  
Department of Orthodontics, Dental School, University of Athens, Greece

**P17-315 Arteriovenous malformations of the oral region: our ten years experience**

E. TZERMPOS, N. THEOLOGIE-LYGIDAKIS, O. SCHOINOHORITI, S. DIMTSAS, P. CHRISTOPOULOS & I. IATROU  
University Department of Oral and Maxillofacial Surgery, A. & P. Kyriakou Children's Hospital of Athens, Dental School, Athens, Greece

**P17-316 Marsupialisation of odontogenic cysts of the maxilla in the paediatric patient**

E. XIARCHOU, A. KATSANTONI & F. TZERMPOS  
Department of Oral and Maxillofacial Surgery, Dental school, University of Athens, Greece

Poster Session P18/Jens O. Andreasen Awards 1

**P18-317 Effects of clinical variables on the outcome of avulsed and replanted teeth: prognostic models for assessment**

O. RHOUMA, A. MCMAHON & R. WELBURY  
University of Glasgow, Dental School, Scotland-UK

**P18-318 Polish university students' knowledge concerning firstaid after dental injuries**

K. EMERICH<sup>1</sup> & I. OLESZKIEWICZ<sup>2</sup>  
<sup>1</sup> Department of Paediatric Dentistry, Medical University of Gdansk, Gdansk, Poland, <sup>2</sup> Department of Maxillofacial Surgery, Medical University of Gdansk, Gdansk, Poland

**P18-319 Trauma in children: the Pahang experience**

A. VENKITESWARAN  
Hospital Tengku Ampuan Afzan, Kuantan, Pahang, Malaysia

**P18-320 Pattern of traumatic dental injuries at the University College Hospital, Ibadan, Oyo State, Nigeria**

O. I. IYUN, B. O. POPOOLA & Y. I. ADEYEMO  
Department of Child Oral Health, University College Hospital, Ibadan, Oyo State, Nigeria

**P18-321 Late re-implantation of two immature permanent incisors one month after a serious accident**

G. ANDREADIS & S. KALFAS  
School of Dentistry, Aristotle University of Thessaloniki, Thessaloniki, Greece

**P18-322 Root fracture and avulsion of a young permanent tooth. Follow-up 2 years**

J. HASSI<sup>1</sup>, G. NAREA<sup>2</sup>, M. RIQUELME<sup>2</sup> & X. VIDAL<sup>3</sup>  
<sup>1</sup> Department of Paediatric Dentistry, Dentistry Faculty University of Chile, Chile, <sup>2</sup> Department of Maxillofacial Surgery, Dentistry Faculty University of Chile, Chile, <sup>3</sup> Maxillofacial Radiology Service, San Borja Arriaran Hospital, Chile

**P18-323 In-vitro investigation of tooth discolouration with different intracanal materials used in dento-alveolar trauma**

V. ADAMIDOU<sup>1</sup>, P. DAY<sup>1</sup>, M. DUGGAL<sup>1</sup> & S. WESTLAND<sup>2</sup>  
<sup>1</sup> Leeds Dental Institute, University of Leeds, U.K., <sup>2</sup> School of Design, University of Leeds, U.K.

**P18-324 The simple and effective splint method for traumatized teeth**

H. YOH, Y. UCHIKAWA, S. YOSHINO, K. MURAMATSU, T. SHIRASE & H. KARIBE  
The Nippon Dental University, Tokyo, Japan

**P18-325 Tooth avulsion. A RCT on replantation of teeth with extra-oral dry time >60 minutes**

A. MURRI DELLO DIAGO & L. GIANNETTI  
Department of Paediatric Dentistry and Dental Traumatology, University of Modena and Reggio Emilia, Modena, Italy

**P18-326 Prevalance of dental trauma in schoolchildren from Plovdiv, Bulgaria**

A. BELCHEVA<sup>1</sup> & M. MANOLOVA<sup>2</sup>  
<sup>1</sup> Department of Paediatric Dentistry, Faculty of Dental Medicine, Medical University, Plovdiv, Bulgaria, <sup>2</sup> Department of Operative Dentistry and Endodontics, Faculty of Dental Medicine, Medical University, Plovdiv, Bulgaria

**P18-327 Management of dental traumatic injuries to permanent dentition-an informed approach**

B. ANTHONAPPA, N. KING & B. RABIE  
Paediatric Dentistry and Orthodontics, Faculty of Dentistry, Prince Philip Dental Hospital, The University of Hong Kong, Hong Kong SAR, China

**P18-328 Management of central incisor avulsion with reimplantation: case report**

K. TOLIDIS, P. G. LIOKATIS & C. BOUTSIUKI  
School of Dentistry, Aristotle University of Thessaloniki, Greece

**P18-329 Complications after use/non-use of IADT-guidelines for dental trauma**

K. BÜCHER<sup>1</sup>, C. NEUMANN<sup>2</sup>, R. HICKEL<sup>1</sup> & J. KÜHNISCH<sup>1</sup>  
<sup>1</sup> Ludwig-Maximilians-University, Munich, Germany, <sup>2</sup> Private Practice, Erding, Germany

**P18-330 Gingival expression of SOD and NOS mRNA in NOS1 knockout mice**

M. ISHIOKA<sup>1</sup>, H. WATANABE<sup>2</sup>, Y. ISHIZUKA<sup>3</sup>, S. SHINTANI<sup>1</sup> & T. YANAGISAWA<sup>4</sup>

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**P18-331 Revascularisation of non-vital immature permanent teeth**

L. GARTSHORE, F. JARAD, K. FOX & S. ALBADRI  
School of Dentistry, University of Liverpool, U.K.

**P18-332 Reevaluation of knowledge in dental traumatology in educators and caregivers of children with special needs**

A. ADANERO, B. GÓMEZ, M. LOTERO, M. M. DEL BURGO & P. PLANELLAS  
Complutense University, Madrid, Spain

**P18-333 Multidisciplinary treatment of primary incisor intrusion sequela to permanent successor**

S. GÜLEC<sup>1</sup>, M. CEM DOĞAN<sup>1</sup>, B. ÇAM<sup>2</sup> & Y. ÇAM<sup>3</sup>  
<sup>1</sup> Department of Pediatric Dentistry, School of Dentistry, Çukurova University, Adana, Turkey, <sup>2</sup> Department of Oral and Maxillofacial Surgery, School of Dentistry, Çukurova University, Adana, Turkey, <sup>3</sup> Department of Orthodontics, School of Dentistry, Çukurova University, Adana, Turkey

**P18-334 A retrospective analysis of tooth transplantation in a paediatric population at Leeds Dental Institute**

V. KAFQURQU<sup>1</sup>, P. F. DAY<sup>1</sup>, J. SPENCER<sup>2</sup>, N. HOUGHTON<sup>2</sup>, T. MUNYOMBWE<sup>3</sup> & M. DUGGAL<sup>1</sup>  
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Poster Session P19/Poster Session P20/Special Needs Patients 5

**P19-335 Oral health status and its related factors of 0-6 year-old children with developmental delay**

S. T. HUANG<sup>1,2</sup>, S. Y. HSIAO<sup>1</sup>, Y. H. LIU<sup>2</sup>, H. Y. LIU<sup>3</sup>, Y. C. LIN<sup>3</sup> & T. C. CHIANG<sup>2</sup>

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Taiwan, <sup>3</sup> School of Dentistry, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan

**P19-336 Delayed tooth eruption in a patient with cerebral palsy**  
O. CHARALAMPAKIS<sup>1</sup>, D. A. PAPAMANOU<sup>1</sup>

& N. CHARALAMPAKIS<sup>1</sup>  
<sup>1</sup> Department of Orthodontics, Dental School, University of Athens, Athens, Greece

**P19-337 Clinical, odontological, epidemiological aspects and their correlations from oncological pediatric patients**

B. MERGULHÃO, G. ZANOTELLI, J. CARTUM, R. ZANIN, F. ZANGIACAMO<sup>1</sup> & F. SCHINDLER  
ABC Medicine College, São Paulo, Brazil

**P19-338 Clinical study of oral mucosal lesions in children and adolescents: twenty years' experience**

P. ARGYRIS, S. PAPANAKOU, E. CHRYSOMALI & A. SKLAVOUNOU-ANDRIKOPOULOU  
Department of Oral Medicine and Pathology, Dental School, University of Athens, Greece

**P19-339 Docteurs Sourire-a 4 years dental care program for Romanian underprivileged children**

A. VINEREAU<sup>1</sup>, A. E. GARRET BERNARDIN<sup>2</sup>, I. NICOLESCU<sup>3</sup> & R. LUCA<sup>4</sup>  
<sup>1</sup> Special Olympics, Romania, <sup>2</sup> Centre Hospitalier Universitaire de Strasbourg, France, <sup>3</sup> Sf. Maria' Clinical Hospital Bucharest, Romania, <sup>4</sup> Carol Davila University Bucharest, Romania

**P19-340 Loss of primary dentition and failure of tooth eruption in a patient with cerebral palsy and bruxism: a case report**

K. BOGRI<sup>1</sup>, D. EMMANOUIL<sup>1</sup>, S. I. PAPANAKOU<sup>2</sup> & N. NIKITAKIS<sup>2</sup>  
<sup>1</sup> Department of Paediatric Dentistry, Dental School, University of Athens, Greece, <sup>2</sup> Department of Oral Pathology and Medicine, Dental School, University of Athens, Greece

**P19-341 Cystic fibrosis. Oral manifestations and treatment concerns**

G. GRIGORAKIS & T. TRIANTAFYLLOU  
Department of Paediatric Dentistry, Dental School, University of Athens, Greece

**P19-342 Protocol of dental approach to children and adolescents with insulin dependent diabetes mellitus (Type 1 DM)**

T. ROINIOTI & V. LIONTOU  
Department of Paediatric Dentistry, Dental School, University of Athens, Greece

**P19-343 Prevalence of dental caries in juvenile idiopathic arthritis in Russia**

Y. A. KOZLITINA, U. Y. CHUGAEVA & O. I. ADMAKIN  
Department of Pediatric Dentistry and Orthodontics, The I.M. Sechenov First Moscow State Medical University, Moscow, Russia

**P19-344 Oral health status in adolescents with chronic pyelonephritis**

U. Y. CHUGAEVA, O. I. ADMAKIN & Y. A. KOZLITINA  
Department of Paediatric Dentistry and Orthodontics, The I.M. Sechenov First Moscow State Medical University, Moscow, Russia

**P19-345 Neurofibromatosis type I, leukemia and hematopoietic stem cell transplant: 5 year dental management in a teenager**

C. REPPA, K. TAOUFIK & K. KAVVADIA  
Department of Paediatric Dentistry, Dental School, University of Athens, Athens, Greece

**P19-346 Vitamin D-resistant rickets oral manifestations and treatment concerns**

T. TRIANTAFYLLOU & G. GRIGORAKIS  
Department of Paediatric Dentistry, Dental School, University of Athens, Greece



## Poster Session P20/Dental Anxiety and Behaviour Management 3

### P20-347 The role of care in nutrition as a form of child neglect

C. STAVRIANOS<sup>1</sup>, P. DAGKALIS<sup>2</sup>, E. SAMARA<sup>1</sup>, G. MICHAEL<sup>1</sup> & I. STAVRIANOU<sup>1</sup>

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### P20-348 Midazolam sedation for young children: preliminary case series study

A. GARRET BERNARDIN<sup>1</sup>, V. VOGT<sup>1</sup>, A. LOING<sup>1</sup>, J. F. MAYER<sup>2</sup> & M. C. MANIERE<sup>1</sup>

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<sup>2</sup> Department of Paediatric Anesthesiology, University Hospital, Strasbourg, France

### P20-349 Prevalence of dental anxiety among middle school students and their caregivers

S. ALAKI<sup>1</sup>, A. AL-OTAIBI<sup>1</sup>, E. ALANQARI<sup>1</sup> & E. ALMABADI<sup>2</sup>

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<sup>2</sup> Faculty of Dentistry, Taibah University, Almadenah almunawarah, Saudi Arabia

### P20-350 Parental attitude towards behavior management techniques used in pediatric dentistry in Kuwait

A. FARIDOUN<sup>1</sup>, D. AL-NAGGAR<sup>2</sup> & A. HASAN<sup>2</sup>

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### P20-351 Evaluation of children senses in tooth caries treatment with bur and air abrasion

J. VRUBLEVSKA & R. CARE

Riga Stradins University, Riga, Latvia

### P20-352 Cognitive behavioural therapy or nitrous oxide sedation is more effective in reducing dental anxiety in preschool children

E. MAZHARI<sup>1</sup>, A. SARRAF SHIRAZI<sup>1</sup>, J. FANI<sup>2</sup>, F. MOHARRERI<sup>3</sup>, A. SOLTANIFAR<sup>3</sup> & F. KEBRIAAE<sup>4</sup>

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### P20-353 Wall mural preferences among children

A. S. I. ZAKARIA, S. N. M. P. SOCKALINGAM, L. SHAMSUDDIN & N. A. ZAHADI

Department of Operative Dentistry, Faculty of Dentistry, National University of Malaysia, Malaysia

### P20-354 Paediatric dentists' perception of preschoolers' dental pain: an exploratory qualitative study

A. CASTRO, D. ESPINDULA, F. GUIMARÃES & L. COSTA

Federal University of Goias, School of Dentistry, Brazil

### P20-355 Monitoring parents' satisfaction regarding university dental services in a university based department of paediatric dentistry

I. KOSMA, D. TSANTOU & N. KOTSANOS

Department of Paediatric Dentistry, Aristotle University of Thessaloniki, Greece

### P20-356 Pilot study of different factors related to dental anxiety in 4-12-year-old children in Latvia

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### P20-357 Dental student and patient predictors of patient satisfaction with dental appointments

D. LAZARIDOU<sup>1</sup>, D. TSANTOU<sup>1</sup>, T. COOLIDGE<sup>2</sup>, A. GATIDOU<sup>1</sup>, K. ARAPOSTATHIS<sup>1</sup> & N. KOTSANOS<sup>1</sup>

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### P20-358 A report looking at anxiety profile of parents and children who received dental treatment under oral sedation at the paediatric department at Kings college hospital, sedation unit

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## Poster Session P21/Jens O. Andreasen Awards 2

### P21-359 Audit of the impact of dental trauma first aid (DTFA) training on the knowledge of the management of tooth avulsion by non dental health personnel

T. GRANGER<sup>1</sup> & R. WELBURY<sup>2</sup>

<sup>1</sup> Scottish Borders Health Board Dental Directorate, Scotland UK, <sup>2</sup> Glasgow University, Scotland UK

### P21-360 Inhibitory effect of Lactobacillus reuteri on periodontopathic and cariogenic bacteria

S. M. KIM<sup>1</sup>, N. K. CHOI<sup>1</sup>, S. Y. KIM<sup>1</sup>, C. H. JOO<sup>1</sup> & M. S. KANG<sup>2</sup>

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### P21-361 Green tea extract as new storage medium for avulsed tooth

J. E. YOU, S. C. CHOI, J. Y. HWANG, G. T. KIM & E. J. KWON

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### P21-362 Application of protection-motivation theory to decrease caries incremental rate in young children (age 9-18 months)

C. TRAIRATVORAKUL, D. HEMINDRA & W. KIMHASAWAD

Department of Paediatric Dentistry, Chulalongkorn University, Bangkok, Thailand

### P21-363 Management and 3-year follow-up of traumatically root-fractured primary incisors: a case report

L. A. WU, L. YUAN, Y. BAI, X. O. WANG, L. WEN & F. YANG

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### P21-364 Low level laser therapy effects on the proliferation of primary teeth dental pulp stem cells

C. MOURA-NETTO<sup>1</sup>, L. S. FERREIRA<sup>1</sup>, F. S. SILVA<sup>2</sup>, C. M. C.

MARANDUBA<sup>3</sup> & M. M. MARQUES<sup>1</sup>

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### P21-365 Multiple dental traumas in a 9-year-old patient, 14 months follow up

G. ZILLMANN, P. SAN PEDRO & S. KRÄMER

Facultad de Odontología, Universidad de Chile, Chile

### P21-366 The role of enamel matrix derivatives, rhTGF-β, rhFGF-I, rhIGF-I and rhBMP-7 in periodontal ligament cells differentiation. Implications for replantation of avulsed teeth

C. MARKOPOULOU<sup>1</sup>, A. MAMALIS<sup>2</sup>, Y. BOBETIS<sup>1</sup>, X. DEREKA<sup>1</sup>

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## Poster Session P22/Epidemiology 1

### P22-367 Oral health knowledge and behavior in a group of Iranian students: a cross-sectional study

M. EBRAHIMI<sup>1</sup>, H. NEAMATOLLAHI<sup>1</sup>, M. H. Z. ARDABILI<sup>2</sup>

& K. KONDORI<sup>2</sup>

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### P22-368 Agreement between observed children's tooth brushing habits and those reported by mothers

C. C. MARTINS<sup>1</sup>, M. J. OLIVEIRA<sup>2</sup>, I. A. PORDEUS<sup>1</sup> & S. M. PAIVA<sup>1</sup>

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### P22-369 Status of early childhood caries of 3-year-old children in Shanghai China

F. JINQIU, X. SHITING, & C. XINMING

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### P22-370 Investigation of Dental Caries among 12-year-old children in Shanghai, China

F. JINQIU, S. QINGPING & C. XINMING

Shanghai Municipal Hospital for Oral Health, Shanghai, China

### P22-371 Prevalence of dental caries among Shanghai Children in 2010 compared to 1983

L. CUNRONG, S. QINGPING & F. JINQIU

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### P22-372 The effect of the parental education level and antibiotics administration in early childhood on the oral health of 13 to 15-year-old adolescents in Brno

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### P22-373 Prevalence of dental erosion in Istanbulian Greek minority school children

E. CAGLAR, N. SANDALLI, N. PANAGIOTOU, K. TONGUC

& O. O KUSCU

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### P22-374 Prevalence of dental caries in children of primary school

L. KISELNIKOVA, T. PIKILIDI & E. BOYARKINA

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### P22-375 State value of oral hygiene and periodontal tissues in children of Moscow

L. KISELNIKOVA, E. BOYARKINA, I. PIKILIDI, T. ZUEVA,

A. ALIBEKOVA & E. SALKOV

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### P22-376 Reasons for extractions of primary and permanent teeth in a group of 3-13 year-old children in Istanbul

E. SUNGURTEKIN<sup>1</sup>, G. CIRALI<sup>1</sup>, D. OZDEMIR-OZENEN<sup>1</sup>, H.

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### P22-377 Prevalance and characteristics of ectopic eruption of the first permanent molars

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### P22-378 Cross cultural adaptation of pediatric oral health related quality of life measure (PQOL) in Turkish 2-7 year old population

I. YAZICIOGLU<sup>1</sup>, M. C. DOGAN<sup>1</sup>, S. E. RICH<sup>2</sup>, J. A. JONES<sup>2</sup>

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### P22-379 Sociodemographic factors, food and drink consumption, BMI index and dental caries in 5-15-year-old children in Istanbul, Turkey

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### P22-380 Family parameters associated with adolescent's dental health-a preliminary report

K. BAXEVANOS, V. TOPITSOGLOU & S. KALFAS

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### P22-381 Utilization of dental services and oral-hygiene practice at early children's years

M. OBRADOVIC, J. VOJINOVIC, O. DOLIC & S. SUKARA

Dental Department, Faculty of Medicine, University of Banja Luka, B&H, Banja Luka, Bosnia-Herzegovina

### P22-382 Prevalence of temporomandibular disorders in young children

M. GIRAKI<sup>1</sup>, R. PITROU<sup>2</sup>, M. OMMERBORN<sup>1</sup>, W. RAAB<sup>1</sup>

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### P22-383 Risk factors and determinants of ECC in Catalonia, Spain

D. DALLEY<sup>1</sup>, A. CAHUANA<sup>2</sup> & C. PALMA<sup>1</sup>

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### P22-384 Early childhood caries in Brazilian children—prevalence and indicators of caries risk

S. M. B. SILVA, T. Y. KOBAYASHI, M. A. A. M. MACHADO,

T. M. OLIVEIRA & A. S. ELEUTE<sup>1</sup> RIO

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### P22-385 Cartography of fluorosis in Morocco

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### P22-386 Caries experience of 4 to 5-year-old children from Banja Luka, B&H

O. DOLIC, J. VOJINOVIC, M. OBRADOVIC, S. SUKARA, Z. KOJIC

& N. TRTIC

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### P22-387 Features of neurologic-and-behavioural and physical development in young children depending on iodine prophylaxis timing

B. A. ZHETISHEV & A. S. ULBASHEVA

Kabardino-Balkarian state University, Nalchik

### P22-388 A comparative study of clinical effectiveness of fissure sealing with and without bonding systems: 3 year results

C. SAKKAS<sup>1</sup>, L. KHOMENKO<sup>2</sup> & I. TRACHUK<sup>2</sup>

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## Poster Session P23/Dental Anomalies 2

### P23-389 A unique case of erupted complex odontoma

R. T. ANEGUNDI

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### P23-390 Prevalence of molar incisor hypomineralization in the city of Buenos Aires

A. BIONDI, S. CORTESE, A. ORTOLANI & P. SEBELLI

Department of Pediatric Dentistry, Faculty of Dentistry, University of Buenos Aires, Argentina

### P23-391 Dental crown anomalies survey among students of the whole guidance schools in Rasht city

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**P23-392 Chromogenic microorganism**

**R. M. EFIGENIO GOMES**<sup>1</sup>, C. PALMA<sup>2</sup> & D. COSTA<sup>3</sup>

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**P23-393 Three siblings with ectopically erupting maxillary first permanent molars: a case report**

**A. CAMILLERI** & S. CAMILLERI

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**P23-394 Intrinsic pigmentation in the primary dentition associated with hyperbilirubinemia: report of a case**

**K. SEREMIDI**<sup>1</sup>, K. KAVVADIA<sup>1</sup>, A. TSAMI<sup>2</sup>, A. GOUNARIS<sup>3</sup>

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**P23-395 Case report: hypodontia in a child with Fraser syndrome**

**E. KEENE** & P. DAY

Leeds Dental Institute and Bradford and Airedale Salaried Dental Service, UK

**P23-396 Truth within a tooth? Case report of management of type II Dens Invaginatus**

**H. KUMAR**<sup>1</sup>, D. J. MANTON<sup>1</sup> & K. B HALLETT<sup>2</sup>

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**P23-397 Use of imaging technologies (X-ray, CT) for planning surgical treatment**

**B. PASTELAKOVA**, M. STANKOVA, T. DOSTALOVA

& M. HUBACEK

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**P23-398 Management of enamel defects—two case reports**

**E. DROGKARI** & J. TAHMASSEBI

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**P23-399 Dental anomalies in patients with cleft lip and palate**

S. THEYS<sup>1</sup>, **S. VELLUT**<sup>1</sup>, H. REYCHLER<sup>2</sup> & C. PILIPILI<sup>1</sup>

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**P23-400 A rare case of three impacted supernumerary teeth in the maxillary restricted incisor region**

**N. AOKI**, K. SAKANISHI, D. ORINO, K. SHIMIZU & T. MAEDA

School of Dentistry, Nihon University at Matsudo, Japan

**P23-401 Dentin dysplasia type II: a case report**

O. O. KUSCU<sup>1</sup>, N. SANDALLI<sup>1</sup>, G. ERSEVEN<sup>2</sup>, **D. KIPER**<sup>1</sup>

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**P23-402 Management of children with hypodontia, the Kuala Lumpur Hospital experience**

**N. YUNUS**

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**P23-403 Management of talon cusp in children**

D. LAZUARDI, **M. GARTIKA** & I. A. MUSNAMIRWAN

Department of Paediatric Dentistry, Faculty of Dentistry, Padjadjaran University, Bandung, Indonesia

**P23-404 Activity assessment of caries lesions in epidemiological surveys with preschool children**

C. PIOVESAN<sup>1</sup>, T. ARDENGHI<sup>2</sup>, R. S. GUEDES<sup>2</sup>, K. EKSTRAND<sup>3</sup>,

M. BRAGA<sup>1</sup> & F. MENDES<sup>1</sup>

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<sup>3</sup> Faculty of Health Sciences, School of Dentistry, University of Copenhagen, Copenhagen, Denmark

**P23-405 Supernumerary teeth in an urban Venezuelan population**

**A. C. MEDINA** & M. G. MARTINEZ

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**P23-406 Association of amoxicillin use and molar incisor hypomineralization in piglets**

**O. O. KUSCU**<sup>1</sup>, N. SANDALLI<sup>1</sup>, İTURKMEN<sup>2</sup>, S. DIKMEN<sup>2</sup>

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**P23-407 Idiopathic multiple internal resorption of primary teeth**

**J. MONTEIRO**<sup>1</sup> & A. CAMERON<sup>2</sup>

<sup>1</sup> Paediatric Dentistry, University of Coimbra, Portugal, <sup>2</sup> Paediatric Dentistry, Westmead Hospital, Sydney, Australia

**P23-408 Effect of erythromycin on enamel formation on cultured mouse molars**

**A. ESS**, C. SAHLBERG & S. ALALUUSUA

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**P23-409 Impaction of primary teeth associated with odontoma**

**J.W. KIM**, J.W. KIM & S.H. LEE

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**P23-410 Management of double teeth**

**P. SHAH**, J. LEE, J. NOAR & P. ASHLEY

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**Poster Session P24/Cariology 2/Microbiology**

**P24-411 Primary teeth, as a cause of odontogenic infection**

**I. KUTLLOVCI**<sup>1</sup>, A. BEGZATI<sup>1</sup>, A. REXHEPI<sup>1</sup>, B. XHEMAJLI<sup>1</sup> & A.

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**P24-412 Approximal art restorations using a nanofilled coating: preliminary results**

**C. CALIL BONIFÁCIO**<sup>1</sup>, D. HESSE<sup>2</sup>, C. A. B. GUGLIELMI<sup>2</sup>,

D. PROCIDA RAGGIO<sup>2</sup>, M. BÖNECKER<sup>2</sup> & E. VAN AMERONGEN<sup>1</sup>

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**P24-413 Effect of zinc ions on hydroxyapatite dissolution kinetics studied using scanning microradiography**

**H. LINGAWI**<sup>1</sup>, M. BARBOUR<sup>2</sup>, R. LYNCH<sup>3</sup> & P. ANDERSON<sup>1</sup>

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**P24-414 Contribution of enolase in fluoride-resistant Streptococcus mutans**

**C. MITSUHATA**, Y. OHARA, G. YOSHIMURA & K. KOZAI

Hiroshima University Pediatric Dentistry, Hiroshima, Japan

**P24-415 The effect of smoothies on enamel erosion**

**S. SUKERI**<sup>1</sup>, M. DUGGAL<sup>2</sup> & J. TAHMASSEBI<sup>2</sup>

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**P24-416 Effect of ozone treatment on the composition of sound, acid-demineralised and carious dentin**

**A. ANTYPÁ**<sup>1</sup>, L. PAPAGIANNIOULIS<sup>1</sup> & G. ELIADES<sup>2</sup>

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**P24-417 Restorative management of proximal class II cavitated carious lesions of permanent teeth. A new approach**

C.J. OULIS<sup>1</sup>, **M. SIFAKAKI**<sup>1</sup>, E. BERDOUSES<sup>1</sup>

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**P24-418 Influence of CPP-ACP and CPP-ACFP on surface characteristics of incipient enamel carious lesion**

**T. PERIC**<sup>1</sup>, D. MARKOVIC<sup>1</sup>, R. JANCIC HEINEMANN<sup>2</sup>,

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**P24-419 Electronic data collection in a school-based prevention program**

**J. SONCINI**

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**P24-420 Relationship between BMI, cariogenic diet and dental caries prevalence**

**M. A. CERECEDA**<sup>1</sup>, M. PAZ RODRÍGUEZ<sup>1</sup> & B. MARTINEZ<sup>2</sup>

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**P24-421 Longevity of direct proximal restorations on Class II cavities of permanent teeth after temporary tooth separation with elastic separators**

**C. J. OULIS**, E. BERDOUSES & M. SIFAKAKI

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**P24-422 Saliva sampling methods validation for a mutans streptococci test**

**A. KERAMIDA**, S. GIZANI, K. KAVVADIA & L. PAPAGIANNIOULIS

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**P24-423 Comparison of 4 methods for caries risk assessment in preschool children**

**V. LIONTOU**, A. AGOUROPOULOS, S. GIZANI & K. KAVVADIA

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**P24-424 Cariogram profiles in preschool children with and without saliva tests**

**E. PANAGIOTOU**, A. AGOUROPOULOS, S. GIZANI, K. KAVVADIA

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**P24-425 Analysis of mineral compositional changes of enamel in questionable occlusal surfaces of permanent teeth compared to clinical assessment, radiography and DIAGNOdent measurements**

**M. MICHALAKI**<sup>1</sup>, C.J. OULIS<sup>1</sup> & G. ELIADES<sup>2</sup>

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**P24-426 Reversing white spot lesions and improving esthetics using an mi paste protocol**

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**P24-427 Action of photodynamic antimicrobial chemotherapy on human dental plaque**

**M. A. A. M. MACHADO**<sup>1</sup>, V. TESSAROLLI<sup>1</sup>, S.M.B. SILVA<sup>1</sup>,

D. RIOS<sup>1</sup>, T.M. OLIVEIRA<sup>1</sup> & T.C. SILVA<sup>2</sup>

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**P24-428 Biofilms of the oral cavity of mother and her child, and theirs dental morbidity rate**

**V. SHCHEGOLEVA**<sup>1</sup>, **A. ANUROVA**<sup>1</sup>, V. ELIZAROVA<sup>1</sup> & V. TSAREV<sup>2</sup>

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**P24-429 Combined validity of VistaProof™ and indirect visual examination method for occlusal caries diagnosis in permanent teeth in vitro.**

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**P24-430 Risk indicators for erosive tooth wear in brazilian preschool children: a panel study**

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**P24-431 Correlation of low birth weight with enamel defects & dental caries**

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**P24-432 An in vitro study of the effect of high fluoride and of calcium sodium phosphosilicate toothpastes on presoftened dentin**

**I. DIAMANTI**<sup>1</sup>, N. BOUKOS<sup>2</sup>, H. KOLETSI-KOUNARI<sup>1</sup>, E. MAMAI-

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**P24-433 The effect of space maintainers on oral microflora and periodontal health**

**E. AYHAN**<sup>1</sup>, V. ARIKAN<sup>1</sup>, N. ÖZALP<sup>1</sup> & B. OZCELIK<sup>2</sup>

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**P24-434 Association of HLA-DRB1 and DQB1 with dental caries and colonization of mutans Streptococci and Lactobacilli in a child population**

**P. ALEMI**<sup>1</sup>, G. ANSARI<sup>1</sup> & R. SAFARALIZADEH<sup>2</sup>

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**Poster Session P25/Dental Anomalies 3- Growth & Development 2**

**P25-435 Endodontic treatment of a periradicular lesion on dens invaginatus**

**E. JI**, H. K. SON, S. O. KIM, B. J. CHOI, H.J. CHOI & J.H. LEE

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**P25-436 A descriptive study on developmental anomalies of teeth in paedodontic patients in Istanbul**

**M. ARAZ**, Y. GUVEN, A. ATAS, E. BOZDOGAN & O. AKTOREN

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**P25-437 The atypical oral manifestations of autosomal dominant osteopetrosis type II in a chinese adolescent**

**X.G. XING**<sup>1</sup>, T.T. ZHANG<sup>1</sup>, **X.J. WANG**<sup>1</sup> & T. CAI<sup>2</sup>

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**P25-438 Novel Mutation Detection of MMP20 and ENAM Genes Associated with Amelogenesis Imperfecta**

M. BAHAMINPOUR, A. AREF, M. GHANDEHARI, M. SHAHRABI,

B. SERAJ & **M. HEIDARI**

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**P25-439 Dental anomalies in primary teeth and their correlation with the permanent dentition**

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**P25-440 Joint anomalies of development of enamel and dentine**  
**O. KOVYLINA** & **T. RZAEVA**  
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**P25-441 Breast feeding and early childhood caries**  
**N. A. TEHRANI<sup>1</sup>, N. ASKARIZADEH<sup>2</sup> & V. KAMEL<sup>1</sup>**  
<sup>1</sup> Private Practice, Iran, <sup>2</sup> Pediatrics Dentistry Department, Dental Branch of Islamic Azad University, Tehran, Iran

**P25-442 Removal time of supernumerary teeth: optimal removal time**  
**E. FLAMEE<sup>1</sup>, O. PANAGOPOULOU<sup>1</sup>, P. CHRISTOPOULOS<sup>2</sup> & D. EMMANOUIL<sup>1</sup>**  
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**P25-443 Prevalence of molar-incisor-hypomineralisation in the distric of San Bernardo, Santiago de Chile**  
**F. ZAMBRANO, M. PINTO & R. TAPIA**  
Universidad de Los Andes, Facultad de Odontología, Santiago, Chile

**P25-444 Shape alteration of teeth in young patients**  
**E. ACHILLEOS, A. FOUGIA & C. PAXIMADA**  
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**P25-445 The mouth breathing children, their characteristics and the possible relation with their academic performance**  
**A. J. NOGUEIRA<sup>1</sup>, R. NOGUEIRA<sup>2</sup>, R. NOGUEIRA<sup>2</sup> & R. MIRANDA<sup>2</sup>**  
<sup>1</sup> Federal University of Pará– Brazil, <sup>2</sup> Institution Superior School of Amazon – Pará– Brazil

**P25-446 Ankylosed carious primary molar affected development of permanent sucesor**  
**L. LIKAR<sup>1</sup> & A. PAVLIC<sup>1,2</sup>**  
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**P25-447 Dens in dente**  
**T. DOSTALOVA, R. GAYEROVA, M. SEDIVEC & M. KASPAROVA**  
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**P25-448 Clinical effects of elastic traction technique in the closed eruption for complete bony impacted teeth**  
**H. ZHU, G.X. YU & H. DU**  
Department of Stomatology, Beijing Children's Hospital affiliated Capital Medical University, Beijing, China

**P25-449 Balancing extractions of primary teeth: comparative practices in three UK dental hospitals**  
**Y. S. CHAU<sup>1</sup>, U. CHOUDARY<sup>2</sup>, F. GILCHRIST<sup>3</sup>, S. ALBADRI<sup>1</sup> & H. RODD<sup>3</sup>**  
<sup>1</sup> School of Dentistry, University of Liverpool, UK, <sup>2</sup> School of Dentistry, University of Manchester, UK, <sup>3</sup> School of Clinical Dentistry, University of Sheffield, UK

**P25-450 Maximal interincisal distance in healthy school children in Switzerland**  
**H. VAN WAES<sup>1</sup>, C. VAN LANGERWEGER<sup>1</sup>, L. MUELLER<sup>1</sup>, C. J. KELLENBERGER<sup>2</sup> & R. K. SAURENMANN<sup>3</sup>**  
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**P25-451 Prediction model of lower anterior alignment teeth in ethnic group deutromalayid children**  
**S. B. BUDIARDJO**  
Department of Pediatric Dentistry, Faculty of Dentistry, University of Indonesia, Indonesia

**P25-452 Immunohistochemical staining DNMTs and HDACS during tooth development**  
**Y. SAKAKURA, Y. KURASHIGE, Y. MURAI, D. NORO, S. IGARASHI & M. SAITOH**

Department of Oral Growth and Development, Division of Pediatric Dentistry, Health Sciences University of Hokkaido, Hokkaido, Japan

**P25-453 Oral manifestations and orthodontic treatment of a girl with a history of acute lymphoblastic leukemia**  
**P. PREVEZANOS<sup>1</sup>, D. A. PAPAMANOU<sup>1</sup>, K. KAVADIA<sup>2</sup> & M. MAKOU<sup>1</sup>**  
<sup>1</sup> Department of Orthodontics, Dental School, University of Athens, Greece, <sup>2</sup> Department of Paediatric Dentistry, Dental School, University of Athens, Greece  
**P25-454 Maxillary midline diastema management. Is frenectomy necessary? A systematic review and metaanalysis**  
**A. TRIKALIOTIS<sup>1</sup>, V. BOKA<sup>1</sup>, E. KAKLAMANOS<sup>2</sup> & N. KOTSANOS<sup>1</sup>**  
<sup>1</sup> Department of Paediatric Dentistry, Dental School, Aristotle University, Thessaloniki, Greece, <sup>2</sup> Private Practice, Thessaloniki, Greece

**P25-455 Physiological root resorption in rats**  
**C. MATSIOULA<sup>1</sup>, E. KITRAKI<sup>2</sup>, N. KEREZOUDIS<sup>3</sup> & M. MAVRAGANI<sup>4</sup>**  
<sup>1</sup> Department of Oral Biology, Dental School, University of Athens, Greece, <sup>2</sup> Department of Basic and Biomedical Sciences, Dental School, University of Athens, Greece, <sup>3</sup> Department of Endodontics, Dental School, University of Athens, Greece, <sup>4</sup> Department of Orthodontics, Dental School, University of Athens, Greece

**P25-456 Prolonged molarless condition exacerbates aged related deterioration of the hippocampus in SAMP8 mice**  
**M. IINUMA<sup>1</sup>, H. NAKAHARA<sup>1</sup>, M. ITO<sup>1</sup>, S. MORI<sup>1</sup>, Y. TAMURA<sup>1</sup> & K. Y. KUBO<sup>2</sup>**  
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**P25-457 Root resorption during orthodontic treatment**  
**I. KAPOGIANNI<sup>1</sup>, A. KOULI<sup>1</sup>, I. LYROS<sup>2</sup> & M. MAVRAGANI<sup>2</sup>**  
<sup>1</sup> Dental School, University of Athens, Greece, <sup>2</sup> Department of Community Dentistry, Section of Orthodontics, Dental School, University of Athens, Greece

**P25-458 Orthodontic micro-implants. Presentation of different cases**  
**I. LYROS, E. FERDIANAKIS, M. MAROULAKOS, A. TSOLAKIS & I. BITSANIS**  
Department of Community Dentistry, Section of Orthodontics, Dental School, University of Athens, Greece

## Poster Session P26/Morita Prize 2- Clinical Research- Cariology 3- Epidemiology 2- Prevention 2- Other

**P26-459 Impact of treating early childhood caries with a caries risk approach on the nutritional status**  
**S. ROJAS<sup>1</sup>, S. ECHEVERRIA<sup>1</sup>, P. MUÑOZ<sup>1</sup> & J. OSORIO<sup>2</sup>**  
<sup>1</sup> Faculty of Odontology, University of Chile, Chile, <sup>2</sup> School of Nutrition and Dietetic, University of Chile, Chile

**P26-460 Salivary concentration of the antimicrobial peptide II-37 in young children**  
**S. DAVIDOPOULOU, G. MENEXES & S. KALFAS**  
Aristotle University of Thessaloniki, Thessaloniki, Greece

**P26-461 Clinical efficiency of calcium glycerophosphate containing gel with xylitol in the complex treatment of early childhood caries (ECC)**  
**E. KIRILLOVA & L. KISELNIKOVA**  
Department of Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Russia

**P26-462 Salivary pH changes before and after drinking acidic beverages vs. sugared snacks in Tijuana Baja California**  
**S. AGUIRRE<sup>1</sup>, B. CASTRO<sup>1</sup>, M. TORRES<sup>1</sup>, A. GONZALEZ<sup>2</sup>, V. GONZALEZ<sup>3</sup> & I. VERDUGO<sup>1</sup>**  
<sup>1</sup> Paediatric Dentistry Postgraduate program Universidad Autónoma de Baja California Mexico, <sup>2</sup> Facultad de medicina y psicología Universidad Autónoma de Baja California Mexico, <sup>3</sup> Facultad de odontología Valle de las Palmas Universidad Autónoma de Baja California Mexico.

**P26-463 Cavitated and non-cavitated incipient proximal lesions in primary teeth**  
**A. ORMEÑO QUINTANA, M. PAZ ALAMO, C. NARANJO & B. WEIHAUCH**  
Los Andes University School of Dentistry, Santiago, Chile

**P26-464 Detection of streptococcus mutans in human DNA samples from saliva**  
**A. MODESTO<sup>1</sup>, K. DEELEY<sup>2</sup>, E. CASTILLA<sup>3</sup>, F. SEYMEN<sup>4</sup>, M. L. MARAZITA<sup>2</sup> & A.R. VIEIRA<sup>1,2</sup>**  
<sup>1</sup> Paediatric Dentistry, School of Dental Medicine, University of Pittsburgh, PA, USA, <sup>2</sup> Oral Biology, School of Dental Medicine, University of Pittsburgh, PA, USA, <sup>3</sup> ECLAMC at CEMIC, Buenos Aires, Argentina, <sup>4</sup> Department of Paedodontics, Istanbul University, Istanbul, Turkey

**P26-465 Association between dental caries and central, peripheral and general obesity: findings from a Chinese birth cohort**  
**S. M. PENG<sup>1</sup>, C. MCGRATH<sup>2</sup>, H. M. WONG<sup>1</sup> & N. KING<sup>1</sup>**  
<sup>1</sup> Paediatric Dentistry & Orthodontics, Faculty of Dentistry, The University of Hong Kong, Hong Kong SAR, China, <sup>2</sup> Periodontology and Public Health, Faculty of Dentistry, The University of Hong Kong, Hong Kong SAR, China

**P26-466 Determinants of early childhood caries in children with chronic respiratory diseases**  
**S. L. ECHEVERRIA<sup>1</sup>, E. H. DAQUINO<sup>1</sup>, R. SEPÚLVEDA<sup>1</sup>, S. F. ROJAS<sup>1</sup> & O. G. HERRERA<sup>2</sup>**  
<sup>1</sup> Department of Paediatric Dentistry, University of Chile, Santiago, Chile, <sup>2</sup> Department of Pediatrics and Pulmonology, Calvo Mackenna Children Hospital, Santiago, Chile

**P26-467 Correlation between caries activity and counts of selected microbes in oral samples from children.**  
**S. FRAGKOU<sup>1</sup>, C. BALASOULI<sup>1</sup>, A. ARGYROPOULOU<sup>1</sup>, G. MENEXES<sup>2</sup>, N. KOTSANOS<sup>1</sup> & S. KALFAS<sup>1</sup>**  
<sup>1</sup> School of Dentistry, Aristotle University of Thessaloniki, Greece, <sup>2</sup> School of Agriculture, Aristotle University of Thessaloniki, Greece

**P26-468 An investigation into the dental health of children with obesity: an analysis of dental erosion and caries status**  
**H. J. TONG<sup>1</sup>, R. BALMER<sup>2</sup>, T. MUYOMBWE<sup>3</sup> & M. DUGGAL<sup>2</sup>**  
<sup>1</sup> Department of Preventive Dentistry, National University of Singapore, Singapore, <sup>2</sup> Child Dental Health, Leeds Dental Institute, Leeds, UK, <sup>3</sup> Centre for Epidemiology and Biostatistics, University of Leeds, Leeds, UK

**P26-469 In vivo comparison of erosion/pain from different popbeverages in adults and children**  
**C. I. C. FERRARI & L. Z. G. TOUYZ**  
McGill Faculty of Dentistry, Montreal, PQ, Canada

**P26-470 Effect of a short sucrose exposure of preschool children on caries experience in permanent teeth**  
**I. HALUNEN<sup>1</sup>, V. ANTONEN<sup>1,2</sup>, J. PÄKKILÄ<sup>3</sup> & L. TJÄDERHANE<sup>1,2</sup>**  
<sup>1</sup> Department of Paedodontics, Cariology and Endodontology, Institute of Dentistry, University of Oulu, Oulu, Finland, <sup>2</sup> Oral and Maxillofacial Department, Oulu University Hospital, Oulu, Finland, <sup>3</sup> Institute of Mathematical Sciences, University of Oulu, Oulu, Finland

**P26-471 Clinical study evaluating restorative treatment using glass-ionomer cements in primary molar teeth, over a two year period**  
**A. PLANEROVA & J. HANDZEL**  
Stomatological Clinic, Department of Paediatric Dentistry, First Faculty of Medicine Charles University and General Faculty Hospital, Prague, Czech Republic

**P26-472 Glass ionomer used as fissure sealant in primary molars**  
**M. C. WANG<sup>1</sup> & W. Y. SHIH<sup>1,2</sup>**  
<sup>1</sup> Taipei Veterans General Hospital, Taipei, Taiwan, <sup>2</sup> National Yang Ming University, Taipei, Taiwan

**P26-473 Relationship among dental caries, chronic sinusitis and paranasal sinuses anatomic variations in children using cone beam CT**  
**S. AKSOY<sup>1</sup>, K. ORHAN<sup>1</sup> & A. ORHAN<sup>2</sup>**  
<sup>1</sup> Department of Oral, Teeth and Jaw Radiology, Near East University, Mersin 10, Turkey, <sup>2</sup> Division of Paediatric Dentistry, Ministry of Health, 75th Year Ankara Oral and Dental Health Centre, Ankara, Turkey

**P26-474 Gender- and age-based comparison of subjective symptoms of temporomandibular disorders in young patients**  
**H. KARIBE<sup>1</sup>, G. GODDARD<sup>2</sup>, K. AOYAGI-NAKA<sup>1</sup>, T. KAWAKAMI<sup>1</sup>,**

**P. RUDD<sup>2</sup> & C. MCNEILL<sup>2</sup>**  
<sup>1</sup> Nippon Dental University, Tokyo Japan, <sup>2</sup> University of California, San Francisco, CA, USA

**P26-475 Characteristic of treatment needs of first visit to a paediatric dental clinic in Beijing**  
**B. XIA, M. QIN, Y. HAN & S. ZHANG**  
Department of Paediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China

**P26-476 The impact of oral health education in a community baby program**  
**C. PALMA<sup>1</sup>, J. RABASSA<sup>1</sup>, R. GOMES<sup>2</sup> & Y. GONZALEZ<sup>1</sup>**  
<sup>1</sup> Master of Paediatric Dentistry, University of Barcelona, Spain, <sup>2</sup> Faculty of Dentistry, University of Lisbon, Portugal

**P26-477 Control group streptococcus mutans by using xylitol gum**  
**M. ACUÑA<sup>1</sup>, S. IBARRA<sup>1</sup>, A. CARRILLO<sup>2</sup>, A. ZAMUDIO<sup>1</sup> & I. VERDUGO<sup>1</sup>**  
<sup>1</sup> Paediatric Dentistry Universidad Autónoma de Baja California, Mexico, <sup>2</sup> Hospital Infantil de las Californias, Mexico

**P26-478 Preventive effect of adhesive tape supplemented with naf on enamel erosion in vitro**  
**S. O. IM, S. H. LEE & N. Y. LEE**  
Department of Paediatric Dentistry, Chosun University Dental Hospital, Gwang-ju, South Korea

**P26-479 Improving the oral health of Glasgow's inner city children**  
**G. CALVERT<sup>1</sup> & C. CULLEN<sup>2</sup>**  
<sup>1</sup> The Dental Hospital, Newcastle Upon Tyne Hospital Foundation Trust, Newcastle, UK, <sup>2</sup> Govan Salaried Dental Service, NHS Glasgow, UK

**P26-480 Prevalence of aggregatibacter actinomycetemcomitans (Aa) serotypes in dental plaque of greek children and their mothers**  
**C. BALASOULI<sup>1</sup>, S. FRAGKOU<sup>1</sup>, A. ARGYROPOULOU<sup>1</sup>, G. MENEXES<sup>2</sup>, N. KOTSANOS<sup>1</sup> & S. KALFAS<sup>1</sup>**  
<sup>1</sup> School of Dentistry, Aristotle University of Thessaloniki, Greece, <sup>2</sup> School of Agriculture, Aristotle University of Thessaloniki, Greece

**P26-481 Evaluation of gingival tissue recovery: after placing a stainless steel crown**  
**P. NUÑEZ, A. RUIZ, B. DE LA CRUZ & I. VERDUGO**  
Paediatric Dentistry Postgraduate Program, Facultad de Odontología, Universidad Autónoma de Baja California, Mexico

**P26-482 The physical properties and histological features of resin infiltrated incipient enamel carious lesions**  
**S. H. KIM, H. J. RYU, E. Y. KIM, T. S. JEONG & S. KIM**  
Department of Paediatric Dentistry, School of Dentistry, Pusan National University, Yangsan-Si, Gyeongsangnamdo, Korea

## Poster Session P27/Endodontics 2 & Dental Trauma 3

**P27-483 The effect of rotary systems on the surface properties of root canal walls and adaptation of a root canal filling material in primary teeth: a SEM study**  
**B. N. CELIK, A. E. ZEREN, V. ARIKAN, M. AKCAY & S. SARI**  
Department of Pediatric Dentistry, Faculty of Dentistry, Ankara University, Ankara, Turkey

**P27-484 MTA and portland cement (PC) apical plugs in pulpless teeth with open apices. Report of four cases**  
**M. PARASKEVOPOULOU, E. PROTOGEROU & M. KHABBAZ**  
Dental School, University of Athens, Athens, Greece

**P27-485 Single file root canal preparation technique**  
**S. MAGKOS**  
Department of Endodontics, Dental School, University of Athens, Greece

**P27-486 Characteristics of endodontically treated permanent teeth in Greek teenagers**  
**O. PANAGOPOULOU<sup>1</sup>, A. LAMPROPOULOS<sup>2</sup>, K. KAVVADIA<sup>1</sup> & P. PANOPOULOS<sup>2</sup>**  
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**P27-487 Open apex: from past to future**

**P. NIKOLIS**, G. NIKOLOUDAKI & N. P. KEREZOUDIS  
Dental School, University of Athens, Greece

**P27-488 Calcified root canals: types, clinical means and methods of treatment**

**S. CHIOTI** & N. KEREZOUDIS  
Dental School, University of Athens, Greece

**P27-489 Performance of three methods for root canal length determination in human and artificial primary teeth**

**A. C. VOLPI MELLO-MOURA**<sup>1</sup>, C. MOURA-NETTO<sup>2</sup>, A. Y. ITO<sup>2</sup>,  
A. C. GUEDES-PINTO<sup>1</sup> & F. M. MENDES<sup>1</sup>  
<sup>1</sup> Department of Pediatric Dentistry, Dental School, University of São Paulo, São Paulo, Brazil, <sup>2</sup> Department of Endodontics, Dental School, University of São Paulo, São Paulo, Brazil, <sup>3</sup> IMOZ radiological clinical, São Paulo, Brazil

**P27-490 The effect of mineral trioxide aggregate on proliferation and differentiation of pulp cells originating from primary teeth and permanent teeth**

**S. KIM**, J.S. SONG, H.K. SON, S.O. KIM, J.H. LEE & H.J. CHOI  
Department of Paediatric Dentistry, College of Dentistry, Yonsei University, Seoul, Korea

**P27-491 Comparison of radiographic success change in pulpomotomized primary molars with formocresol, ferric sulfate and mineral trioxide aggregate (MTA)**

**A. TAJIK**<sup>1</sup> & H. NEAMATOLAH<sup>2</sup>  
<sup>1</sup> Private Practice, Mashhad, Iran, <sup>2</sup> Paediatric dentistry department, Medical Mashhad University, Mashhad, Iran

**P27-492 Ultramicroscopic observations on the early effects of mineral trioxide aggregate (MTA) in experimental capping situations**

**M. EL HARES**, A. ALVANOU & D. TZIAFAS  
Department of Endodontology, School of Dentistry, Aristotle University of Thessaloniki, Greece

**P27-493 Extensive periapical destruction due to trauma resolved with endodontic therapy**

**A. LAMPROPOULOS**<sup>2</sup>, I. VASILOUDIS<sup>1</sup> & K. KAVVADIA<sup>1</sup>  
<sup>1</sup> Department of Paediatric Dentistry, Dental School, University of Athens, Greece, <sup>2</sup> Private Practice, Athens, Greece

**P27-494 Regenerative endodontics –a novel approach to restore immature teeth**

**P. POORNIMA** & R. V. V. SUBBA  
College of Dental Sciences, Rajive Gandhi University of Health Sciences, India

**P27-495 Host factors and traumatic dental injuries in children: the role of aggressive behaviour**

**T. SKRINJARIC**, I. CUKODIV BAGIC, I. SKRINJARIC & Z. VERZAK  
Department of Paediatric Dentistry, School of Dental Medicine, University of Zagreb, Croatia

**P27-496 Orthodontic extrusion of intruded upper central incisors and endodontic approach: case report**

**N. ERGOZ** & K. GENCAY  
Department of Pediatric Dentistry, Faculty of Dentistry, Istanbul University, Istanbul, Turkey

**P27-497 Replantation of two avulsed permanent incisors after different storage media: a 3-year follow up**

**G. MA. MARTINEZ**<sup>1</sup>, C. A. MEDINA<sup>1</sup> & MA. A. DE PAOLA<sup>2</sup>  
<sup>1</sup> Paediatric Dentistry and Orthodontics Department, Universidad Central de Venezuela, Caracas, Venezuela, <sup>2</sup> Private practice, Caracas, Venezuela

**P27-498 Multidisciplinary approach for a complicated crownroot fracture: a case report**

**M. MENDERES**<sup>1</sup>, N. ERSIN<sup>1</sup>, M. C. SOLMAZ<sup>2</sup>, A. ATILA<sup>3</sup> & U. TEKIN<sup>2</sup>  
<sup>1</sup> Department of Pedodontics, Ege University, Faculty of Dentistry, Izmir-Turkey, <sup>2</sup> Department of Oral Surgery Ege University, Faculty of Dentistry, Izmir-Turkey, <sup>3</sup> Department of Periodontology, Ege University, Faculty of Dentistry, Izmir-Turkey

**P27-499 Foreign objects in the lower lip after traumatic dental injury: two case reports**

**I. N. TSATSOULIS**<sup>1</sup>, G. N. TZANETAKIS<sup>1</sup>, K. TOSSIOS<sup>2</sup> & E. G. KONTAKIOTIS<sup>1</sup>

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**P27-500 The influence of an additional crown fracture on the risk of pulp necrosis for teeth with a luxation injury**

**E. LAURIDSEN**<sup>1</sup>, N. HERMANN<sup>1</sup>, T. GERDS<sup>2</sup> & J. O. ANDREASEN<sup>3</sup>  
<sup>1</sup> Department of Pediatric Dentistry and Clinical Genetics, School of Dentistry, University of Copenhagen, Denmark, <sup>2</sup> Department of Biostatistics, University of Copenhagen, Denmark, <sup>3</sup> Center of Rare Oral Diseases, Copenhagen University Hospital, Rigshospitalet, Denmark

**Poster Session P28/Periodontology – Syndromes & Genetics 2-Special Needs Patients 6**

**P28-501 Quantitative analysis of the relationship between periodontopathogens and clinical indexes in adolescents**

**N. Y. YANG**<sup>1</sup>, **Q. ZHANG**<sup>2</sup> & **Q. SHI**<sup>2</sup>  
<sup>1</sup> Department of Oral and Maxillofacial Surgery, Peking University School and Hospital of Stomatology, Beijing, P.R.China, <sup>2</sup> Pedodontic Department, Capital Medical University School of Stomatology, Beijing, China

**P28-502 Distribution of periodontopathic bacterial species in mothers who experienced preterm low birthweight delivery**

**A. YAMANA**, K. NAKANO, K. FUJITA & T. OOSHIMA  
Department of Paediatric Dentistry, Osaka University Graduate School of Dentistry, Suita, Osaka, Japan

**P28-503 Clinical & microbial findings in adolescences with aggressive periodontitis**

**M. M. SHARAFELDIN**, H. Z. ELABDEEN & A. I. BOLSTAD  
Department of Clinical Dentistry, Faculty of Medicine and Dentistry, University of Bergen, Norway

**P28-504 Management of impacted maxillary canines: surgical exposure in adolescents**

**A. GKOGKOS**, I. PREVEZANOS, M. E. VLACHODIMITRI, Y. BOBETSIS, C. MARKOPOULOU & P. MADIANOS  
Department of Periodontology, Dental School, University of Athens, Athens, Greece

**P28-505 Treatment management of gingival overgrowth**

**M. E. VLACHODIMITRI**, P. E. DOKOU, V. PANIS, I. K. KAROUSSIS & I. A. VROTSOS  
Department of Periodontology, Dental School, University of Athens, Greece

**P28-506 Rehabilitation of a maxillary central incisor with a socket preservation technique and a resin-bonded bridge in a pediatric patient**

**A. S. GKOGKOS**<sup>1</sup>, I. K. KAROUSSIS<sup>1</sup>, P. N. MADIANOS<sup>1</sup>, **D. A. KAMPOUROPOULOS**<sup>2</sup>, E. G. PAPAZOGLOU<sup>2</sup>

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**P28-507 Assessment of periodontal treatment in generalized aggressive periodontitis. Case report of twin young girls' follow up of 5 years**

**P. PETROPOULOU**, E. PEPELASSI & A. TSAMI  
Department of Periodontology, Dental School, University of Athens, Greece

**P28-508 The carrier status of fungal flora in ent-pathology children**

**E. Y. RADTSIG**, M. R. BOGOMILSKY & L. S. TITAROVA  
ENT Paediatric Department Russia State Medical University, Moscow, Russia

**P28-509 Antimicrobial activity of extracts from S. Rebaudiana against cariogenic microorganisms**

**F. GAMBOA**<sup>1</sup> & M. CHAVES<sup>2</sup>  
<sup>1</sup> Javeriana University, Department of Microbiology and Dental Research Center, Bogotá, Colombia <sup>2</sup> Javeriana University, Dental Research Center. Bogotá, Colombia

**P28-510 Distraction osteogenesis in a patient with von Willebrand factor deficiency: case report**

**N. THEOLOGIE-LYGIDAKIS**<sup>1</sup>, C. MATSIOULA<sup>2</sup>, **S. MAMALI**<sup>2</sup>, H. PLATOKOUKI<sup>3</sup> & I. IATROU<sup>1</sup>

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**P28-511 Oral rehabilitation of a child with cystic fibrosis: Case report**

**C. CHATZICHALEPI**, E. PANAGIOTOU, M. ANGELOPOULOU & G. VADIAKAS  
Department of Paediatric Dentistry, Dental School, University of Athens, Greece

**P28-512 Effects of cytotoxic chemotherapy administered in early childhood on permanent teeth development**

**E. KRASUSKA-SIWINSKA**<sup>1</sup>, D. OLCZAK-KOWALCZYK<sup>2</sup>, B. DEMBOWSKA-BAGINSKA<sup>3</sup>, A. WAKULINSKA<sup>3</sup>, B. ADAMOWICZ-KLEPAŁSKA<sup>4</sup> & A. BROŻYNA<sup>3</sup>  
<sup>1</sup> The Children's Memorial Health Institute Warsaw, Poland, <sup>2</sup> Medical University of Warsaw, Poland, <sup>3</sup> Medical University of Gdansk, Poland

**P28-513 Caries and periodontal disease in children with cerebral palsy according to the socioeconomic status of the educational centre they attend**

**S. DÖREN**<sup>1</sup>, S. M. KRÄMER<sup>1</sup>, G. ZILLMANN<sup>1</sup>, X. LEE<sup>1</sup>, I. CAMARDA<sup>2</sup> & G. ROJAS<sup>2</sup>

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**P28-514 Multidisciplinary treatment for optimal esthetics in a pediatric patient with cleft palatal-lip**

**E. PAPPA**, I. PREVEZANOS, E. G. PAPAZOGLOU, S. VASILOPOULOS & M. NASIKA  
Dental School, University of Athens, Greece

**P28-515 Complete dentures for children with anodontia**

**D. GIANNOPOULOS**, A. PISSIOTIS & E. KOTSIOMITI  
Department of Removable Prosthodontics, Dental School, Aristotle University of Thessaloniki, Greece

**P28-516 Panoramic x-ray guides diagnosis in a case of mild hypohidrotic ectodermal dysplasia (HED) presenting with fever**

**E. PAPADAKIS**<sup>1</sup>, M. AVLONITOU<sup>2</sup>, M. DEMONAKOU<sup>3</sup> & **S. SAPOUNAS**<sup>2</sup>

<sup>1</sup> Dentistry School of Athens, Greece, <sup>2</sup> 2nd Medical Department, Sismanoglio Hospital, Athens, Greece, <sup>3</sup> Department of Pathology, Sismanoglio Hospital, Athens, Greece

**P28-517 Orthodontic treatment need of Sotos syndrome. A case report**

**I. TENTOLOURI**<sup>1</sup>, I. LYROS<sup>2</sup>, E. BOVALI<sup>3</sup>, I. BITSANIS<sup>2</sup> & A. TSOLAKIS<sup>2</sup>

<sup>1</sup> Dental School, University of Athens, Greece, <sup>2</sup> Department of Orthodontics, School of Dentistry, National and Kapodistrian University of Athens, Greece, <sup>3</sup> Department of Orthodontics, School of Dentistry, University of Geneva, Switzerland

**P28-518 Early prosthetic treatment in children with oligodontia**

**C. LOLIS**<sup>1</sup>, D. EMMANOUIL<sup>2</sup> & N. POLYCHRONAKIS<sup>1</sup>  
<sup>1</sup> Department of Prosthodontics, Dental School, University of Athens, Greece <sup>2</sup> Department of Paediatric Dentistry, Dental School, University of Athens, Greece

**Poster Session P29/Dental Trauma 4/TMJ/ Xrays/ Education**

**P29-519 Acoustic characteristics of children of the Japanese consonants [ SIJ ]**

**T. SUGIYAMA**<sup>1</sup>, J. ASARI<sup>1</sup>, N. SUZUKI<sup>2</sup>, M. SATO<sup>1</sup> & M. INOUE<sup>1</sup>  
<sup>1</sup> Department of Pediatric Dentistry, Showa University School of Dentistry, Tokyo, Japan, <sup>2</sup> Tokyo Hospital; Oral and Maxillofacial Surgery, Tokyo, Japan

**P29-520 Influence of the severity of temporomandibular dysfunction on the activity and thickness of masticatory muscles in children**

**K. V. DIAZ-SERRANO**<sup>1</sup>, S. C. HALLAC-REGALO<sup>2</sup>, A. DE ROSSI<sup>1</sup>, M. PALINKAS<sup>3</sup>, T. D. MELO DIAS<sup>1</sup>  
<sup>1</sup> Department of Paediatric Clinics, Preventive and Community Dentistry, Ribeirão Preto Dental School, University of São Paulo, Ribeirão Preto, SP, Brazil, <sup>2</sup> Department of Morphology, Stomatology and Physiology, Ribeirão Preto Dental School, University of São Paulo, Ribeirão Preto, SP, Brazil

**P29-521 Correlation between malocclusion, occlusal vertical dimension and temporomandibular disorder in children and adolescents**

**S. K. BUSSADORI**, A. FERREIRA MARANGONI, T. O. DE SANTIS, R. A. MESQUITA-FERRARI, D. A. BIASOTTOGONZALEZ & K. P. FERNANDES  
Rehabilitation Sciences Master Degree Program Nove De Julho University – UNINOVE, São Paulo, SP, Brazil

**P29-522 Temporomandibular disorders and tension type headache in a 13-year old girl**

**M. MPITZIS**, V. PSARRAS, M. TZAKIS & B. DROUKAS  
Dental School, University of Athens, Greece

**P29-523 Temporomandibular disorders in a 12 year old patient**

**V. G. KALOUMENOU**, K. KALOUMENOS, V. PSARRAS, M. TZAKIS & B. DROUKAS  
Dental School, University of Athens, Greece

**P29-524 Grinding teeth (Bruxism) in infancy and childhood**

**E. KARACHANIDI**<sup>1</sup>, T. SYRIOPOULOU<sup>2</sup>, E. FOURLANI<sup>3</sup>, K. STRAKA<sup>2</sup>, E. MICHAEL<sup>4</sup> & I. TEMPELOPOULOS<sup>5</sup>  
<sup>1</sup> Speech - Pathology, TEI of Patras, Patras, Greece, <sup>2</sup> Pediatric department, General Hospital of Kalamata, Kalamata, Greece, <sup>3</sup> Pediatric department, Children's Hospital "Mitera" Athens, Greece, <sup>4</sup> Pediatric department, General Hospital of Sparta, Sparta, Greece, <sup>5</sup> Private Practice, Kalamata, Greece

**P29-525 Cone beam CT findings of fibrous dysplasia in children and adolescents**

**K. E. ALEXIOU**, P. TZOUTZOUKOS & K. TSIKLAKIS  
Department of Oral Diagnosis and Radiology, Dental School, University of Athens, Athens, Greece

**P29-526 Radiographic localization of supernumerary teeth in maxilla**

**S. MALLINENI**, R. ANTHONAPPA & N. KING  
Paediatric Dentistry and Orthodontics, Faculty of Dentistry, The University of Hong Kong, Hong Kong SAR, China

**P29-527 Treatment of a 14- year old patient with multiple teeth loss**

**K. TAGALAKI**, K. KYRITSIS, X. PARTALIS & P. CHRISTOPOULOS  
Dental School, University of Athens, Greece

**P29-528 School teachers' knowledge and practices concerning emergency care of children with avulsed teeth**

**E. OREDUGBA**  
Department of Child Dental Health College of Medicine, University of Lagos, Nigeria

**P29-529 Conservative approach for the rehabilitation of anterior tooth trauma: two case reports**

**O. VJERO**, M. ANAGNOSTOU & G. MOUNTOURIS  
Department of Operative Dentistry, Dental School, University of Athens, Greece

**P29-530 Undergraduates experience and confidence in paediatric dentistry: two years multi-centre evaluation**

**S. ALBADRI**<sup>1</sup>, I. MACKIE<sup>2</sup> & H. RODD<sup>3</sup>  
<sup>1</sup> School of Dentistry, University of Liverpool, UK, <sup>2</sup> School of Dentistry, University of Manchester, UK, <sup>3</sup> Unit of Oral Health and Development, University of Sheffield, UK

**P29-531 Greek paediatricians knowledge about child's oral health**

**K. TAQUEIK**, G. KOTSAKIS, I. SAMBRI & A. POLYCHRONOPOULOU  
Department of Preventive and Community Dentistry, Dental School, University of Athens, Greece

**P29-532 The role of Chilean paediatricians in children's oral health**

**C. ZAROR**<sup>1</sup>, B. HOPE<sup>1</sup>, C. VERGARA<sup>1</sup>, J. DIAZ<sup>1</sup> & L. BUSTOS<sup>2</sup>  
<sup>1</sup> Dental Department, Faculty of Medicine, University of La Frontera, Temuco, Chile, <sup>2</sup> Public Health Department, Faculty of Medicine, University of La Frontera, Temuco, Chile

**P29-533 Early student experience in paediatric preventive dentistry**

**A. ROBERTS** & S. ALBADRI  
School of Dentistry, University of Liverpool, UK



**P29-534 A questionnaire evaluation of small-group pre-clinical advanced practice of pediatric dentistry in Japan**

**S. WARITA<sup>1</sup>, T. KAWAKAMI<sup>1</sup>, A. SUZUKI<sup>2</sup>, Y. UMEZU<sup>2</sup>, Y. UCHIKAWA<sup>2</sup> & H. KARIBE<sup>1</sup>**

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<sup>2</sup> Department of Paediatric Dentistry, Nippon Dental University Hospital, Tokyo, Japan

**P29-535 Applicability of blended learning in the discipline of paediatric dentistry – school of dentistry – university of Sao Paulo – Brazil**

**C. J. F. ALENCAR<sup>1</sup>, L. B. CAMARGO<sup>1</sup>, M. C. SKELTONMACEDO<sup>2</sup>, M. BO<sup>3</sup> NECKER<sup>3</sup> & A. E. HADDAD<sup>3</sup>**

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**P29-536 E-learning and paediatric dentistry at the university of rennes 1**

**J. C. ROBERT<sup>1</sup>, M. OLIVO<sup>2</sup>, A. HUET<sup>1</sup>, A. MARIE-COUSIN<sup>1</sup> & J.L. SIXOU<sup>1</sup>**

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**Poster Session P30/Syndromes & Genetics 3**

**P30-537 Freeman Sheldon syndrome: a case report**

**M. BIRIA & B. NAZEMI**

Pedodontics Department, Assistant Professor, Shahid Beheshti University, Dental School, Tehran, Iran

**P30-538 Treacher-Collins syndrome: case report. Interdisciplinary treatment plan and the role of the paediatric dentist**

**O. PAPAGEORGIOU<sup>1</sup>, K. GROHMANN<sup>2</sup>, U. HEHR<sup>3</sup>, G. SEIDLITZ<sup>2</sup> & C. SPLIETH<sup>1</sup>**

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**P30-539 Pierre-Robin Sequence – stickler syndrome. Report of two cases**

**S. FLAMEE<sup>1</sup>, M. ANGELOPOULOU<sup>1</sup>, S. GIZANI<sup>1</sup>, M. NASSIKA<sup>2</sup> & K. SYRBAKOU<sup>3</sup>**

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**P30-540 Chondrosarkoma of the mandibular condyle in a patient with Werner Syndrome**

**L. GOUTZANIS, E. KALFARENTZOS, V. PETSINIS & N. PAPADOGEORGAKIS**

Department of Oral & Maxillofacial Surgery, Evangelismos General Hospital, Dental School, University of Athens, Greece

**P30-541 Pre-surgical nasal alveolar molding for unilateral cleft lip/palate patients**

**G. FERRETTI, L. KALKE, A. GOSAIN & C. DREWS**

Department of Pediatric Dentistry, Case Western Reserve University School of Dental Medicine, Rainbow Babies and Children's Hospital, Cleveland, OH, USA

**P30-542 The trio of cleft lip/palate, poly/syndactyly and genitalia abnormalities as associated with rare genetic syndromes: three cases of fetal autopsy**

**A. KONSTADINIDOU<sup>1</sup>, A. KATSIMBALI<sup>2</sup> & N. D. DALKARAKI<sup>2</sup>**

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**P30-543 Dental management of a case with Apert Syndrome**

**G. PETSI, T. ROUMANI, A. MASTORA & M. NASSIKA**

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**P30-544 Solitary median maxillary central incisor (SMMCI) syndrome: Case report**

**R. AMEZIANE<sup>1</sup>, A. HALIMI<sup>2</sup>, F. ZAOUJ<sup>2</sup>, A. SEFIANI<sup>3</sup>**

**& M. ELALLOUSI<sup>1</sup>**

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**P30-545 Turcot syndrome: report of a case and review of the literature**

**P. DOKOU, E. PEPELASSI & A. TSAMI**

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**P30-546 Loeys-Dietz syndrome, clinical manifestation: a case presentation**

**M. NASIKA, D. EMMANOUIL, K. YFANTI, A. KYRIAKOU**

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**P30-547 Oral manifestation of Hyper IgE syndrome**

**A. MATOSEK<sup>1</sup>, D. OLCZAK-KOWALCZYK<sup>2</sup> & E. HEROPOLITAN<sup>3</sup> SKA-PLISZKA<sup>3</sup>**

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**P30-548 Multidisciplinary dental treatment of a child with Goldenhar syndrome**

**D. EMMANOUIL, E. PANAGIOTOU & D. SOTERIOU**

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**Poster Session P31/Cariology 4**

**P31-549 Efficiency evaluation of fluoride varnish caries preventive for preschool-children in the community: a 2-year clinical trial**

**W. ZHU, J. WU & J.J. WANG**

Department of Oral Health Care, Affiliated Maternity and Child Health Hospital, Nanjing Medical University, Nanjing, China

**P31-550 Clinical radiological diagnostics of caries on the aproximal surfaces of permanent teeth in children and teenagers**

**N. TERENTIEVA, L. KISELNIKOVA, V. TRUTEN & I. LEVINSKAYA**

Department of Paediatric Dentistry, Moscow State Medicine and Dentistry University, Russia

**P31-551 The change in the caries activity of children treated with fixed orthodontic appliances**

**Z. A. HASAN<sup>1</sup>, Z. A.A. ALDAHAN<sup>2</sup> & A. S. ALMIZRAKCHI<sup>2</sup>**

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**P31-552 Anti-microbial effects of plant extracts against cariogenic oral bacteria**

**L. ROBERTO<sup>1</sup>, G. F. FERRAZZANO<sup>1</sup>, I. AMATO<sup>1</sup>, A. POLLIO<sup>2</sup>, G. PINTO<sup>2</sup> & A. INGENITO<sup>1</sup>**

<sup>1</sup> Department of Pediatric Dentistry, University of Naples Federico II, Naples, Italy, <sup>2</sup> Department of Biological Sciences / Section of Plant Biology, University of Naples Federico II, Naples, Italy

**P31-553 Chemomechanical caries removal using a papain-based gel: a randomized clinical trial**

**L. JANSISKI-MOTTA<sup>1</sup>, S. KALIL-BUSSADORI<sup>1</sup>, A. P. CAMPANELLI<sup>2</sup>**

**& M. F. DE LIMA- NAVARRO<sup>2</sup>**

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**P31-554 In-vivo evaluation of Diagnodent for detection and quantification of occlusal caries in permanent molars**

**O. GUMAA<sup>1</sup>, N. YAHIA<sup>1</sup>, A. MODAWI<sup>1</sup> & I. EL KARIM<sup>2</sup>**

<sup>1</sup> University of Khartoum, Faculty of Dentistry, Sudan, <sup>2</sup> Queen's University Belfast, UK

**P31-555 Cariogenicity of fruit drinks: investigation using experimental rats**

**A. AL-JOBAIR<sup>1</sup> & R. KHOUNGANIAN<sup>2</sup>**

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**P31-556 The effect of toothpaste and tooth mineralization products on morphology of human enamel**

**P. BRADNA<sup>1</sup>, R. VRBOVÁ<sup>1</sup>, V. FIALOVÁ<sup>1</sup>, D. HOUŠOVÁ<sup>1</sup>**

**& J. HANDZEL<sup>2</sup>**

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**P31-557 Traction of second premolar by application of bandloop space maintainer in autism children**

**T. HOSHINO, K. SAITO, K. SATOH & T. FUJIWARA**

Department of Pediatric Dentistry, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan

**P31-558 Prevalence of incipient caries lesions after different topical remineralization treatments in children six years–old**

**L. JUAREZ, E. ORTIZ & P. J. F. MURRIETA**

Fes Zaragoza Unam Mexico

**P31-559 Comparative evaluation of Streptococcus sobrinus and serotypes of Streptococcus mutans in children with severe early childhood caries and caries-free using serotype-specific PCR**

**E. NIK<sup>1</sup>, M. TALEBI<sup>2</sup> & M. SANKIAN<sup>3</sup>**

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**Poster Session P32/Anaesthesia & Dental Anxiety and Behaviour Management 4**

**P32-560 Comparison of two computerized anaesthesia delivery systems: pain and pain-related behaviour in children during a dental injection**

**J. NIEUWENHUIZEN, E. HEMBRECHT, I. AARTMAN, J. KRIKKEN & J. VEERKAMP**

Academisch Centrum Tandheelkunde Amsterdam (ACTA), Department of Pediatric Dentistry, Amsterdam, The Netherlands

**P32-561 Satisfaction of recently-trained German dentists and their patients with dental care under nitrous oxide sedation**

**F. MATHERS<sup>1</sup>, O. LOEW<sup>1</sup>, W. ARNDT<sup>2</sup>, M. SIESSEGGER<sup>3</sup>,**

**A. MOLITOR<sup>4</sup>, P. REITER-NOHN<sup>1</sup> & G. WALGENBACH<sup>1</sup>**

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**P32-562 Routine dental treatment with articaine 4% plus 1:400 000 epinephrine in children**

**M. DAUBLÄNDER<sup>1</sup>, N. KRÄMER<sup>2</sup>, J. ESCH<sup>3</sup>, H. PFAU<sup>3</sup>,**

**U. UHLEMANN<sup>4</sup> & L. PIEHLMEIER<sup>3</sup>**

<sup>1</sup> Policlinic for oralsurgeryUniversitymedicalCenterMainz, Germany, <sup>2</sup> Policlinic for Paediatric Dentistry University Gielen, Germany, <sup>3</sup> Private practice for paediatric dentistry, Munich, Germany, <sup>4</sup> Private practice for paediatric dentistry, Herrsching, Germany

**P32-563 General anesthesia in paediatric dentistry and special care**

**R. RAFFOUL, S. THEYS, I. HOCIUNG, A. FORTPIED & C. PILIPILI**

Université Catholique de Louvain, Paediatric Dentistry and Dental Care for Disabled Persons, Brussels, Belgium

**P32-564 Bispectral index as a guide for titration of anesthetic use during deep sedation among paediatric patients**

**C. DAG<sup>1</sup>, N. OZALP<sup>1</sup> & G. G. AYDIN<sup>2</sup>**

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**P32-565 An effective pathway for managing paediatric dental patients during general anaesthetic waiting periods**

**S. STEPHEN & A. M. SANARES**

Sydney Dental Hospital, University of Sydney, Australia

**P32-566 GA needs for dental treatment in patients with medical condition**

**M. TANASE, D. ZMARANDACHE & R. LUCA**

Paediatric Dentistry Department, Carol Davila University, Bucharest, Romania

**P32-567 Saliva cortisol levels, relationship with dental anxiety and factors that affect them, in children**

**K. YFANTI<sup>1</sup>, D. EMMANOUIL<sup>1</sup>, L. PAPAGIANNOULIS<sup>1</sup>**

**& E. KITRAKI<sup>2</sup>**

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**P32-568 Dental anxiety and health-related quality of life of children aged 11 to 14 years with orthodontic malformations**

**A. RESHITAJ<sup>1</sup>, S. KRASNIQI<sup>1</sup> & N. IBISHI<sup>2</sup>**

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<sup>2</sup> University Clinical Center of Kosova, Clinic of Psychiatry, Prishtine, Kosovo

**P32-569 Hypnosis in treatment of children with fear of dental treatment**

**R. ABRAHAMSEN & U. BROCH**

Aalborg Municipal Dental Service, Unit of Research and Development, Aalborg, Denmark

**P32-570 Relation of parental dental anxiety and child personality characteristics with dental anxiety of children aged between 6 and 12 years**

**I. TANBOGA & S. METE**

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**P32-571 Humanitarian dental relief operation in remote villages in Vietnam 2011**

**M. RAKOCZ<sup>1</sup> & L. JONES<sup>2</sup>**

<sup>1</sup> Sheba medical center, Tel Hashomer, Israel, <sup>2</sup> Private practice, Knoxville, Tennessee, USA

**P32-572 Resolving gingival overgrowth in a pediatric patient with hemolymphangioma in the lower jaw using laser NdYAG.**

**I.D. PREVEZANOS<sup>1</sup>, E. PEPELASSI<sup>1</sup>, M. NASIKA<sup>2</sup>,**

**I. FOURMOUSIS<sup>1</sup> & I.K. KAROUSSI**

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**P32-573 Hypophosphatasia and prepubertal periodontitis. Case Report of a patient's follow up of 20 years.**

**P. PETROPOULOU, A. TSAMI**

Department of Periodontology, Dental School, University of Athens, Greece

**P32-574 Treatment protocol in high caries risk adolescents.**

**G. GKAVELA<sup>1</sup>, E. ACHILLEOS<sup>1</sup>, T. KATSAROU<sup>1</sup>, I. SAMPRI<sup>1</sup>,**

**C. RAHIOTIS<sup>2</sup>, C. PAXIMADA<sup>1</sup>**

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## SPEAKERS, COORDINATORS & CHAIRPERSONS



### ANDREAS AGOUROPOULOS

Dr. Andreas Agouropoulos was born in Greece and graduated from the University of Athens, Dental School in 1997. He received a Certificate in Paediatric Dentistry from Tufts University, School of Dental Medicine, Boston, USA in 2003 and a M.Sc. Degree in Oral Biology from the University of Athens in 2008. He is currently a PhD candidate in Oral Biology at the University of Athens. Since 2003 he is working in private practice and as a clinical instructor at the Post graduate Department of Paediatric Dentistry of Athens University. He is a member of the Board of the Hellenic Society of Paediatric Dentistry and member of other scientific societies in Greece and internationally. He has participated as a speaker in several congresses in Greece and abroad. In 2009, he was the recipient of the Morita Award of IAPD for best research paper. His current research interests are in prevention of dental caries, behaviours related to oral hygiene and obesity in preschool children.



### EDUARDO A. ALCAINO

Dr Alcaino is a specialist paediatric dentist who has been in full time specialist private practice since 1999. After completing his Bachelor degree (BDS-Hons) in 1988 at the University of Sydney, he worked in general practice for 8 years. He is currently a Clinical Associate Lecturer with the University of Sydney and a visiting specialist to both the Sydney Dental Hospital (SDH) and the Westmead Centre for Oral Health (WCOH) in NSW. He gained his Fellowship with the Royal Australasian College of Dental Surgeons (RACDS) in 1992. His main area of interest within paediatric dentistry is paediatric sedation, and he has lectured nationally and internationally on this topic, including seminars by Harvard Medical School, Boston, USA. Dr Alcaino is currently President Elect of the International Association of Paediatric Dentistry (IAPD).



### WILLEM EVERT VAN AMERONGEN

Willem Evert van Amerongen graduated from dentistry in 1972. In 1980, he completed his PhD titled: "Quality aspects of activities of dental nurses". Dr Amerongen is Head of the Department of Paediatric Dentistry since 1986. His activities are mainly focused on the education of dental students, patient treatment, research and supervision. In 1994 he became involved with the World Health Organization (WHO) concerning the Atraumatic Restorative Technique (ART), which resulted in a number of projects in developing countries. This involvement steered his interests towards community-based aspects of caries risk in child population. He was President of the Dutch Association of Paediatric Dentistry for a six year period and recently, he was awarded an honorary membership. Since 2002, he has represented the Netherlands as councillor for the European Academy of Paediatric Dentistry (EAPD) and in 2005, as national councillor for the International Association of Paediatric Dentistry (IAPD). He is (co-)author of approximately 75 publications; he has contributed to several books.



### JENS OVE ANDREASEN

Dr. Andreasen received his dental degree from the Royal Dental College, Copenhagen, in 1959. He did his postgraduate training in Oral and Maxillofacial Surgery at the University Hospital in Copenhagen, where he now is an associate Professor. Dr. Andreasen has authored 350 publications and ten textbooks, covering topics such as dental traumatology, tooth replantation and autotransplantation, tooth eruption and tooth impaction. In relation to traumatology the Textbook and Color Atlas of Dental Traumatology is now in its 4th edition and include 42 contributors. A new interactive Dental Trauma Guide is now about to be launched on the internet. It contains information of a series of prospective long term studies of traumatic dental injuries carried out at the trauma center and Department of Oral and Maxillo-Facial surgery as well as information from 50 animal experiments reproducing treatment scenarios of various dental traumas affecting primary as well as permanent teeth. Dr. Andreasen has received four honorary doctorate degrees and has been an invited lecturer in 45 countries.



### ATHANASSIOS ATHANASSIOU

Dr. Athanasios E. Athanasiou is Professor, Chairman and Program Director at the Department of Orthodontics, School of Dentistry, Aristotle University of Thessaloniki, Greece. He received his Dental Degree and Doctorate Degree from the University of Athens, Greece in 1979 and 1991, respectively, and his Certificate in Orthodontics and Master of Dental Sciences in 1985 from Temple University, U.S.A. He has also attended postgraduate studies at the University of London, England, Lancaster Cleft Palate Clinic, U.S.A., and Albert Einstein Medical Center, U.S.A. He is President of the Hellenic National Academic Recognition and Information Center of the Greek Ministry of Education. He was President (2005-2010), Vice-President (2000-2005) and Executive Committee Member (1995-2000) of the World Federation of Orthodontists (W.F.O.), President (2000-2002) and Secretary-General (1998-2000) of the European Federation of Orthodontics (F.E.O.), President of the Greek Orthodontic Society (1997-2005), and Dean (2003-2007) and Vice-Dean (2001-2003) of the School of Dentistry, Aristotle University of Thessaloniki. He is a honorary member of several Orthodontic Societies and he has received many distinctions and awards. He served or serves as referee or member of the editorial board of numerous scientific journals, has published more than 150 scientific articles, chapters and books, has supervised more than 45 Doctorate Degree (Ph.D.) and Master theses, and has presented more than 350 lectures, papers and seminars in 47 countries. Since 1992, Professor Athanasiou maintains in Athens a private practice limited to orthodontics.



### HANS PETER BANTLEON

Hans-Peter Bantleon received his D.M.D. from the School of Dentistry at the University of Graz in 1981. He became an Assistant at the Departments of Oral and Maxillofacial Surgery in February 1982 and subsequently Assistant Professor at the Department of Orthodontics in 1987. In 1989 he earned his qualification as University Lecturer for Dentistry with special regard to Orthodontics. He is a Full Professor and Head of Department of Orthodontics at the School of Dentistry, University of Vienna since 1992. Main fields of research are biomechanics, bonding techniques and material aspects. Since 1996 he is Chairman of the Austrian Society of Orthodontists. He is member of the European Orthodontic Society, member of the American Orthodontic Society, member of the World Federation of Orthodontists and member of the Angle Society of Europe. He was President of the 82nd Congress of the European Orthodontic Society 2006. He has authored and co-authored more than 200 publications as well as 7 textbook chapters.



### BIRGITTA BERGENDAL

Dr Birgitta Bergendal is head of the National Oral Disability Centre for rare disorders at the Institute for Postgraduate Dental Education in Jönköping, Sweden. The Centre was established in 1999 to increase knowledge on diagnosis and treatment of oral and dental signs and symptoms in rare disorders. Dr Bergendal is a specialist in prosthetic dentistry and holds a doctoral degree from Umeå University, Sweden. She got her specialist training at the Karolinska Institute in Stockholm, Sweden, and has worked as a clinical specialist and a tutor in specialist education. She has worked on the organizing committees for the consensus conferences "Oral implants in young patients" in 1996 and "Ectodermal Dysplasia with special reference to dental treatment" in 1998. She organized the first European conference on Ectodermal Dysplasia in 2002. Her primary research interests are in the fields of multidisciplinary approaches to oral habilitation and rehabilitation in young individuals with need for prosthetic treatment. Her thesis explored clinical and genetic factors in oligodontia and outcomes of treatment with dental implants in ectodermal dysplasia. She has published papers in the fields of attitudes to teeth and loss of teeth, dental implants, and prosthodontic treatment in rare disorders. Dr Bergendal has presented lectures in the Nordic countries and abroad and has written chapters in several textbooks.



### MARCELO BÖNECKER

Professor and Chair Paediatric Dentistry Department –School of Dentistry - University of São Paulo – Brazil. Chair of Education Committee IAPD. Post Doc at Wits University- Dental Research Institute – South Africa. PhD at Epidemiology and Public Health Dept. University College London – England. Co-Editor of the Brazilian Oral Research (BOR) – scientific journal.





### ANGUS CAMERON

Assoc.Prof Cameron completed Dentistry at the University of Sydney in 1984 and began work as a dental officer at Westmead Hospital. He joined the Paediatric Department as a junior registrar in 1987 and was the first person to complete the Master of Dental Science degree in Paediatric Dentistry in NSW in 1991. He was appointed specialist in 1992 and Head of Department in 1997. He is now Clinical Associate Professor and Head of Discipline in Paediatric Dentistry at the University of Sydney. He also holds academic appointments at Adelaide, Newcastle and Charles Sturt Universities and is Registrar of the Royal Australasian College of Dental Surgeons. In 2007 he was elected a Fellow of the Royal College of Surgeons on England. His main research interests is in craniofacial and developmental biology, while his clinical interests include the management of paediatric trauma, the care of children with dental anomalies and developmental pathology. He is coeditor of the Handbook of Paediatric Dentistry that has been translated into 7 other languages, including Greek, and will be released in its 4th edition.



### RITA CAUWELS

Rita Cauwels graduated in 1980 and ran a general practice focusing on paediatric dentistry. In 1997 she received her MSc in Paediatric Dentistry and Special Care from the Ghent University. For many years she contributed regularly to the congresses of IADH, IAPD and EAPD. Dr Cauwels is actual council member of IAPD for Belgium. Since 2002 she has been working as a full-time clinical assistant at the department of Paediatric Dentistry focussed on special care at the University Hospital Ghent and is a member of the PaeCaMed research group. She is preparing a PhD thesis on dental traumatology in collaboration with the university of Turku (Finland). One of her clinical interests includes laser treatment in paediatric dentistry and Low Level Laser therapy in oncology patients.



### ERNEST CHOLAKIS

Dr. Ernest Cholakakis obtained his DMD in 1982 from the University of Manitoba and his MBA in 2002 from the University of Chicago Graduate School of Business. As a dental student he was the recipient of the Preventive Dentistry Award for his work in dental wellness. In 2007, Dr Cholakakis launched Kids Dental, founded on the Previstat® model of care that integrates risk profiling, advanced prevention, educational programs, nutritional counseling and clinical research with the goal of eliminating Canada's most chronic childhood disease – tooth decay. He is a recipient of Her Majesty's Golden Jubilee Medal for his contributions to dentistry and his community.



### GEORGE P. CHROUSOS

George P. Chrousos is Professor and Chairman of the First Department of Pediatrics at the University of Athens School of Medicine, Athens, Greece, and former Chief of the Pediatric and Reproductive Endocrinology Branch of the National Institute of Child Health and Human Development (NICHD), National Institutes of Health (NIH), Bethesda, Maryland. He also holds the UNESCO Chair on Adolescent Health Care since 2010 and the Kluge Distinguished Chair on Technology and Society, Library of Congress, Washington DC, since 2011. Prof. Chrousos is internationally recognized for his research on the glucocorticoid signaling system of the cell, on the diseases of the hypothalamic-pituitary-adrenal axis, and on the physiological and molecular mechanisms of stress. His contributions span a range of medical disciplines, including Medicine, Pediatrics, Endocrinology, Psychiatry, Rheumatology, Allergy, Surgery, Oncology and Reproductive Medicine. Dr. Chrousos has written over 600 original scientific papers and his work has been cited in more than 52,000 other scientific articles, an irrefutable testimony to the importance and influence of his research. He is one of the most cited scientists internationally (ISI highly cited) both in Clinical Medicine and in Biology and Biochemistry and the highest cited clinical endocrinologist and pediatrician in the world. Dr. Chrousos has received numerous national and international awards and has given many lectures in the USA, Europe and Japan. He was inducted as a Master of both the American College of Endocrinology and the American College of Physicians. He is president of the European Society of Clinical Investigation. He is an elected member of the Institute of Medicine, The National Academies, Washington DC, USA, and the Academia Europaea, London, UK



### CARLA COHN

Dr. Cohn graduated from the University of Manitoba in 1991. She then went on to complete a post-graduate internship in Paediatric Dentistry. Today at Dr. Cohn's private practice, Kid's Dental, the focus is on prevention. Previstat is the risk assessment based model for diagnosis and prevention created and streamlined at Kid's Dental. It is both pro-active and ground breaking. Previstat is a system that will finally allow the hope for a cavity free future. In addition to private practice, Dr. Cohn is a clinical instructor, part-time, in Paediatric Dentistry at the University of Manitoba. Dr. Cohn is a partner at a private surgical clinic. Dr. Cohn lectures internationally on prevention and Paediatric Dentistry for the general dentist. Dr. Cohn's lecture topics include: risk assessment, prevention, behaviour management and restorative treatment options. She speaks as a clinician who has observed first hand and dealt directly with everything presented in her courses.



### YASMI CRYSTAL

Dr. Crystal, received a DDS degree from the Technologic University of Mexico; a Pediatric Dentistry certificate from Eastman Dental Center, University of Rochester, and DMD degree from University of Medicine and Dentistry of New Jersey. She is a Diplomate of the American Board of Pediatric Dentistry, is an Associate Professor at the Department of Pediatric Dentistry at New York University College of Dentistry, and has been in private practice of Pediatric Dentistry in New Jersey since 1996. She has been an Executive Board member and lecturer for the Society for the Advancement of Anaesthesia and Pain Control from 1986- to date. Was co-director of Continuing Education for the New Jersey Society of Dentistry for Children from 1988 to 2003; Co-director of Continuing Education for the New Jersey Academy of Pediatric Dentistry from 1988 to the present date. She was President of NJAPD from 2000 to 2006, and expert Consultant to the American Academy of Pediatric Dentistry's Council of Clinical Affairs from 2000 to 2003. Currently, Dr. Crystal is a Media Spokesperson for the AAPD and District II Trustee (covering Delaware, District of Columbia, Maryland, New Jersey, Pennsylvania, members in the Federal Services and foreign countries not specifically cited) and an Oral Health preceptor and consultant for the American Academy of Pediatrics.



### KEVIN DONLY

Kevin Donly, DDS, MS is currently a Professor and Chair in the Department of Pediatric Dentistry and Professor in the Department of Pediatrics at the University of Texas Health Science Center at San Antonio. Previous positions include Professor and Associate Director of the Center for Clinical Studies at the University of Iowa, Associate Professor, Pediatric Dentistry at the University of Texas Dental Branch at Houston and Associate Professor, The University of Texas Medical School. He received his D.D.S. in 1984, Certificate in Pediatric Dentistry in 1986, and M.S. in 1986 from the University of Iowa. Dr. Donly is a Diplomate of the American Board of Pediatric Dentistry, on the Board of Trustees for the American Academy of Pediatric Dentistry, was on the Board of Directors for the American Academy of Pediatric Dentistry Foundation, is the previous Chair of the American Academy of Pediatric Dentistry Council on Post-doctoral Education, is Past-President of the American Society of Dentistry for Children and past Chair of the Public Information Committee for the American Academy of Pediatric Dentistry. He has published over 250 chapters, manuscripts and abstracts associated with pediatric dentistry and dental restorative materials research and clinical utilization. Presently, he is a principal investigator on an R01 Grant sponsored by the National Institute of Dental and Craniofacial Research. He has received grants or research support from the 3M, ESPE, Premier, Bisco, GC, Dentsply, Ivoclar, Kerr, Procter and Gamble, Church and Dwight, Optiva, Oral-B, Enamelon, Atrix Laboratories, Inc. and Guidor companies.



### MONTY DUGGAL

Professor Monty Duggal obtained his dental degree in 1983 and his MDS in Paediatric Dentistry in 1986 in India. He then immigrated to the United Kingdom and obtained his FDSRCS from the Royal College of Surgeons of England and his PhD from Leeds University. He joined Leeds Dental Institute as a Junior Lecturer in 1989 and is currently a Professor and Head of Child Dental Health. He oversees a large postgraduate programme in Paediatric Dentistry which has international acclaim. Professor Duggal has published over 100 research papers in international journals. He is also the author of "Restorative

Techniques in Paediatric Dentistry, which has been published in 7 languages and has sold over 12000 copies worldwide. He is also a co-author of a textbook on Dental Traumatology and has Co-Edited "Paediatric Dentistry" by Oxford. He has obtained research grants to the total value of over 5.5 million pounds. His main research interest is Cariology and Translation Research in Clinical Paediatric Dentistry, including dental traumatology and he is charge of the Trauma and Transplantation service at the Leeds Dental Institute. In his spare time he enjoys cricket, which is his second passion after Paediatric Dentistry.



### STELLA EFSTRATIADIS

Dr. Stella Efstratiadis is Professor Emerita of Clinical Dentistry in Orthodontics at Columbia University, College of Dental Medicine (New York, USA). She received her postgraduate orthodontic education at Harvard University, School of Dental Medicine and Forsyth Dental Institute in Boston, Massachusetts, where she later held teaching appointments. She is Diplomate of the American Board of Orthodontics. She is member of several orthodontic organizations, including the Angle Society (Eastern Component). She has numerous publications and has given presentations at national and international meetings.



### GEORGE ELIADES

George Eliades was born in Athens, Greece. He graduated from the University of Athens, School of Dentistry in 1982 and earned his Doctoral Degree from the same University in 1985. He received his postgraduate education in Biomaterials at the University of California, Los Angeles (UCLA). For 12 years he served as Head of the Quality Control Laboratory of the Greek Notified Body for Medical Materials and Devices. In 2000 he joined the University of Athens, School of Dentistry. Currently he is Professor and Director of the Department of Biomaterials. He has given more than 350 presentations in conferences, has authored more than 150 scientific papers, 12 chapters in textbooks, and he is co-editor of two international books. He is a Fellow of the Academy of Dental Materials, member of the editorial board of 4 international journals, reviewer in 25 international journals and participates in several scientific societies and groups. His research interests are focused on the characterization of interactions between material surfaces and tissues. His work has been awarded with several prizes, including the IADR Wilmer Souder Award, the highest honor in the field of Dental Materials research.



### THEODORE ELIADES

Theodore Eliades is an Associate Professor at the Aristotle University of Thessaloniki, Greece, and affiliated with Texas, Marquette, Manchester, and Bonn Universities. He graduated from the University of Athens and the postgraduate orthodontic program of the Ohio State University and holds 3 degrees in biomaterials: a Master's from Ohio State, a doctorate from the University of Athens, School of Medicine, and a PhD from the University of Manchester. Dr. Eliades has published 120 articles and 20 book chapters in 8 books, which have been cited more than 1200 times; he has also edited 6 textbooks published by major houses, some translated into 4 languages. The diffusion of this work into fields associated with natural and engineering sciences led to his election as a Fellow in the Royal Society of Chemistry, and the Institute of Materials, Minerals and Mining. He is the founding Editor of the Journal of Dental Biomechanics (Sage), has served as Guest Editor for the Seminars in Orthodontics, and Associate Editor of the European Journal of Orthodontics, is Associate Editor of the American Journal of Orthodontics and Dentofacial Orthopedics, Editorial Board member in 5 and reviewer in 30 journals.



### DIMITRIS EMMANOUIL

Dr Dimitris Emmanouil graduated from Athens University School of Dentistry in 1984. He specialized at Children's Hospital of Wisconsin, USA in Pediatric Dentistry. He holds an MS from Marquette University, USA and a PhD from the University of Athens, Greece. He has done extensive research work on nitrous oxide pharmacology that won awards from AAPD, IAPD and ASDA. He has published in the international literature and has been invited in various occasions to lecture both nationally and internationally. He is currently Lecturer at the Department of Pediatric Dentistry, University of Athens, Dental School and adjunct Assistant professor at Washington State University, School of Pharmacy, USA where he continues his research on

nitrous oxide. He is President Elect of the International Association of Dentistry for Disability and Oral Health (iADH). He is also Honorary treasurer of the American Dental Society of Europe. He is a member of the scientific committee of Muscular Dystrophy Association of Greece (MDA Hellas) and the National co-ordinator of the Special Smiles for Special Olympics Greece, hosting the Special Olympics in Athens this year.



### JOHN D.B. FEATHERSTONE

John Featherstone, MSc, PhD, is Professor of Preventive and Restorative Dental Sciences at the University of California, San Francisco (UCSF) and Dean of the School of Dentistry. He earned his MSc in physical chemistry from the University of Manchester (UK) and a PhD in chemistry from the University of Wellington (New Zealand). His research over the past 34 years has covered several aspects of cariology including fluoride mechanisms of action, caries risk assessment, de- and remineralization of the teeth, apatite chemistry, salivary dysfunction, carie prevention, and laser effects on dental hard tissues with emphasis on caries prevention and early caries removal. He is currently active in implementing caries management by risk assessment in several dental schools across the nation. He has won numerous national and international awards, including the International Association for Dental Research distinguished scientist award for research in dental caries (2000), the Zsolnai Prize from the European Caries Research Organization (2002) for his lifelong contributions to caries research, the "Ericsson Prize in Preventive Dentistry" by the Swedish Patent Fund (2002) and the Norton Ross Award for excellence in clinical research from the American Dental Association (2007). He has published over 200 manuscripts and book chapters.



### CLIVE FRIEDMAN

Clive is a Graduate of the University of Witwatersrand South Africa –received his specialty in Pediatric Dentistry University of New Orleans. Is in full time clinical practice 81-present. Assoc Clinical Professor Schulich School of Medicine and Dentistry as well as the University of Toronto where he teaches the graduate seminars in Behaviour. Clive is a Diplomate of the American Board of Pediatric Dentistry and Fellow SCD. Clive was a past president of ADPD, and iADH. He currently sits on the editorial board of BSDH and is a member of Clinical And Scientific Affairs committee for the Canadian Dental Association. He has lectured extensively both Nationally and Internationally with specific interest in Risk Management, Early Childhood Caries, Special Needs and Behavior.



### ANNA FUKS

Prof. Anna B. Fuks was born in Curitiba, Brazil, and graduated in Dentistry by the Federal University of the State of Parana. She completed her post-graduate course in Pediatric Dentistry at the University of Alabama, U.S.A. in 1966, and did her residency at the Children's Hospital of the same University. She then returned to her home town in Brazil, where she practiced and taught Pediatric Dentistry at the University of Parana until 1973. At that same year she immigrated to Israel and joined the Department of Pediatric Dentistry of the Hebrew University of Jerusalem, Israel. Following an academic career, she reached the degree of Professor that she maintains until the present date. Concomitantly to teaching and clinical practice Prof. Fuks dedicated herself to clinical and laboratory research, and became a Board member of the International Association of Pediatric Dentistry (IAPD). As visiting professor at the Medical Research Institute of the University of the Witwatersrand (Wits), Johannesburg, South Africa and of the Universities of New Jersey, USA and London, Ontario, Canada, she developed research studies mainly in the fields of Pulp Therapy, Dental Materials and Restorative Techniques. Being fluent in English, Spanish, Portuguese, and Hebrew, she lectured and taught courses in Pediatric Dentistry in several countries and became honorary member of the Mexican, Italian, Belgian and Brazilian Academies of Pediatric Dentistry.



### SOTIRIA GIZANI

Dr. Sotiria Gizani obtained her DDS from the University of Thessaloniki (Greece) in 1991. In 1994, she obtained her Master's in Dental Sciences from the Catholic University of Leuven (Belgium) and in 1998 her clinical internship Certificate in Paediatric Dentistry as well as her PhD in Medical Sciences from the same university. From 1998 until today, she has been affiliated with the Department of Paediatric



Dentistry of the University of Athens, first as a scientific collaborator from 1998-2007 and since then as a Lecturer. She has authored several peer-reviewed international and national scientific papers and she has presented her work in numerous national and international congresses. Her research interests are mainly focused on new preventive methods of oral health, molecular oral microbiology techniques, epidemiology and patients with oral health special needs.



### PETER GREGORY

Following 10 years in general practice, Dr Gregory completed his postgraduate training in Paediatric Dentistry at the University of Western Australia. He has held the positions of Visiting Professor at Northwestern University Dental School, Chicago, Illinois, USA; Head of Paediatric Dentistry, Perth Dental Hospital, Perth, Western Australia; Federal President of the Australian and New Zealand Society of Paediatric Dentistry (ANZSPD); and Federal President of the Australasian Academy of Paediatric Dentistry (AAPD). Dr Gregory has also served on the Board of Studies and as an Examiner (Paediatric Dentistry) for the Royal Australasian College of Dental Surgeons



### MIKE HARRISON

Mike started his specialist training in Wales before completing higher training in paediatric dentistry at Guy's Hospital, London. His early research interests included facial injury sustained by cyclists, and the use of cycle safety helmets for injury prevention. Involvement with patients with hypodontia led to a period of laboratory-based molecular genetic research at the Institute of Child Health, London, and his subsequent clinical interests have focused on patients with genetic disorders, particularly skeletal dysplasias and genetic dermatology. He regularly lectures on dental dysmorphism, and has a particular ambition to make the new era of molecular genetics relevant to general dental practitioners.



### DORTE HAUBEK

Dr Haubek is Associate professor, Department of Paediatric Dentistry, School of Dentistry, University of Aarhus, Denmark, Consultant dentist (dental treatment in general anaesthesia), the Municipal Dental Service of Aarhus, Aarhus, Denmark. Academic training, 1992: DMD, School of Dentistry, University of Aarhus, Denmark. 1998: Ph.D degree in Oral Biology/Odontology, University of Aarhus, Denmark. Current position, Associate professor, since 2002- Department of Paediatric Dentistry, School of Dentistry, University of Aarhus and since 2007 Consultant dentist in the Municipal Dental Service, Aarhus, Denmark. Honours - research prizes: 3 prizes received in 1997, 2002, and 2006. Publications: International publications (26 papers in peer-reviewed journals) Book chapters (2 chapters) Other publications (14 articles)



### MARK HECTOR

Mark Hector was born in Nairobi, Kenya and first graduated in Physiology, then in Dentistry in 1981. There followed 3 years at the University of Bristol and Kings College, London after which he received his PhD. Following 3 years in oral medicine and pathology at Guys Hospital Dental School he was recruited to The London Hospital Medical College as a lecturer in Child Dental Health under Professor Alan Brook. From 1990-1997. Mark was Hon Secretary and Hon Treasurer to the IAPD. From 1999-2003 he took on the post of Editor under the editor in chief Ruth Holt. For the last 20 years Mark has been closely involved in the delivery of a very successful masters programme in Paediatric Dentistry, attracting students from around the world, co-authored numerous scientific articles, and regularly contributes to international congresses. He currently holds the Chair of Oral Health of Children at Barts and The London School of Medicine and Dentistry, and thrives on taking an active role in teaching paediatric dentistry to undergraduate and postgraduate students. To maintain a balance he also co-supervises several PhD students. To maintain a degree of sanity he is a silversmith, and has been responsible for the design and production of the IAPD Medal.



### REINHARD HICKEL

Prof. Dr. Dr. Reinhard Hickel, who currently fills the position as Professor and Head of the Department for Conservative Dentistry (Restorative and Endo), Periodontology and Paediatric Dentistry at the Ludwig-Maximilians-University of Munich, has also been the Dean of the Dental School of the University of Munich since 1998. He is world-renowned as a lecturer and has presented honorary lectures in USA, Japan, Taiwan, China, Thailand, India, Korea, South Africa and many European countries. Moreover, he was invited by the Academy of Operative Dentistry to present the Buonocore memorial lecture in 2004. Prof. Hickel, who is a member of the Editorial Boards of 10 international scientific journals, has over 300 publications, 6 books and 25 book chapters to his name. His main subjects of research include: New restorative materials (especially composite, GIC, ceramic, veneers, CAD-CAM-systems), minimally invasive dentistry, Toxicology and side effects of restorative materials, Laser and Ozone (in Endodontology, Periodontology, Restorative Dentistry), Prevention, new diagnostic systems and paediatric dentistry, Wear and erosion.



### MARIE THERESE HOSEY

Dr Marie Therese Hosey is Professor and Head of Department of Paediatric Dentistry at the Kings College Dental Institute based in, Kings College Hospital, London. Graduating in Glasgow in 1985, she was among the few dentists in the United Kingdom with training in administering general anaesthesia. Her Masters thesis focussed on methods of evaluating the efficacy of conscious sedation in children. Professor Hosey completed both her higher specialist training in Paediatric Dentistry and her Doctorate, which studied the effects of liver disease and transplantation on the oral tissues, in Birmingham, England. She moved to Glasgow in 1998 where she was appointed as Senior Lecturer and later as Reader in Paediatric Dentistry. She is a Fellow of the Royal College of Surgeons of Glasgow and an examiner for the Intercollegiate Fellowship Speciality Examination in Paediatric Dentistry. She wrote the RCS (Eng) clinical guideline on paediatric conscious sedation, and is a past council member of the Association of Dental Anaesthetists and the Dental Sedation Teachers Group. She has co-authored three dental textbooks and one medical textbook and is editor of four. She has an interest in 3D imaging, particularly in relation to infants with cleft lip and palate. She has an international reputation her research to the management of anxious children and her expertise in the management of child patients with liver transplants.



### MILTON HOUP

Dr. Milton Houpt is professor and chair of the Department of Pediatric Dentistry and director of the Postdoctoral Program in Pediatric Dentistry at the UMDNJ-New Jersey Dental School. He also served as Associate Dean for Academic Affairs of the New Jersey Dental School from 2004-2008. Dr. Houpt received the Doctor of Dental Surgery degree from the University of Toronto in 1960 and the Master of Dental Science (1968), Master of Education (1970), and Doctor of Philosophy (1971) degrees from the University of Pittsburgh. In 1968, he attained a Certificate of Specialty in Pediatric Dentistry and in 1982 he became a Diplomate of the American Board of Pediatric Dentistry. Dr. Houpt has served on the editorial boards of six national refereed journals and for seven years, he served as Editor in Chief for Pediatric Dentistry, the journal of the American Academy of Pediatric Dentistry. In May 2004, he was designated as Editor Emeritus of that journal. In June 2009, he was elected to serve as the Honorary Editor of the International Association of Paediatric Dentistry. He has given more than 50 international presentations and has published more than thirty editorials, 60 research abstracts, and 65 manuscripts in the areas of cariology, dental materials, and conscious sedation. Dr. Houpt served as a consultant to the American Dental Association Commission on Dental Accreditation, the Test Construction Committee of the National Dental Examination Board, and the National Institutes of Health, Health Resources and Service Administration. For seven years, he was a member of the Board of Trustees of the American Academy of Pediatric Dentistry. In June, 2009, he was elected to the Board of Directors of the International Association of Paediatric Dentistry.



### JENNIFER IRWIN

Dr. Don Morrow holds a PhD in the Health Sciences and has over 25 years of experience working as a professor at all levels of the Canadian university educational system. He is a certified professional coach trained and accredited with both the Coaches Training Institute and the International Coach Federation. Don is an experienced coach and Motivational Interviewing (MI) workshop facilitator. His evidence-based research and publications focus specifically on using MI and coaching as behavior change interventions for a variety of health issues. He is a widely published author and an experienced presenter to groups varying from small workshops to assemblies of 1200 people.



### AFRODITE KAKABOURA

Afrodite Kakaboura, DDS, PhD, is Professor in Operative Dentistry, Faculty of Dentistry, National and Kapodistrian University (NKU) in Athens Greece. She received her DDS degree in 1983 from Aristotelion University, Thessaloniki and her PhD in 1988 from NKU, Athens. She worked as researcher in the Department of Dental Materials Science, School of Dentistry, ACTA, Amsterdam, Netherlands. Dr Kakaboura is involved with the research fields of dental restorative materials, conservative dentistry and dental education. He has published up to 80 papers, in national and international journals. She is author of five chapters in international scientific books and co-editor in two dental books. She has received up to 10 national and international research honors and awards, and funded grants.



### IOANNIS K. KAROUSSIS

Dr Ioannis K. Karoussis received an honorary Degree in Dental Medicine for excellence during studies from the University of Athens (1994). At the same University he received a honorary Masters Degree in Oral Biology (1999) and he graduated the Specialization program in Periodontology (1999). He continued his postgraduate studies at the University of Berne, Switzerland where he received his Dr med Dent title (2002) and he was further specialized in Periodontology and Oral Implantology (2002). He is an Assistant Professor at the Department of Periodontology at the National and Kapodistrian University of Athens and he runs a Private practice limited to Periodontology and Implant Dentistry. During his career Dr Karoussis was honoured with a Colgate Palmolive Hellas award for excellence during studies, with a scholarship from the National Scholarship Foundation of Greece, for achievement of the highest marks among postgraduates in all fields of specialization, with a Papavramidis Foundation scholarship for his doctoral thesis in Berne, Switzerland, with a scholarship from International Team for Oral Implantology (ITI) and he received the "SGI- Nachwuchsförderpreis" Award of the Swiss Society of Implantology for the best research project (2002), and the 1st "Robert Frank" Senior Prize from the Continental European Division of the IADR (2002). He has published in several national and international journals and he is Associate Editor of the Journal: "Odontostomatological Progress" Published in Athens Greece.



### KATERINA KAVVADIA

Dr. Katerina Kavvadia graduated from the University of Athens Dental School, received in 1988 her pediatric dentistry certificate and Master's in Dental Sciences at the University of Connecticut, USA and then in 1994 earned her PhD at the University of Athens Dental School - Greece. She has been a staff member at the Department of Paediatric Dentistry University of Athens Greece since 1998 and is currently an assistant professor. Her research work has been presented in numerous national and international congresses. She has authored 35 scientific articles and has co-authored a textbook. She has been since 2008 the councilor of Greece in EAPD and she is also chairing the EAPD education committee. She is presently the editor of the Hellenic Journal of Paedodontia.



### NICKY KILPATRICK

Dr Kilpatrick graduated from the University of Birmingham, UK and underwent her specialist paediatric dental training in various London hospitals before completing her PhD at the University of Newcastle upon Tyne in 1993. Following a fellowship year at the Royal Children's Hospital in Melbourne Australia she took up the position of Senior Lecturer in Paediatric Dentistry at the University of Sydney. In 1999 she returned to the Royal Children's Hospital as Director of the Department Dentistry where she also co-directed the Cleft Lip and Palate service. In mid 2010 she returned to the United Kingdom to take up the Chair in Paediatric Dentistry at the University of Bristol. She remains an Honorary Fellow of the Murdoch Children's Research Institute, has over 60 publications and lectures frequently around the world. Her clinical interests focus on the oral health and management of children with special healthcare needs whilst her research interests include the aetiology and management of children with clefts of the lip and/or palate and the integration of oral health in to child health and well being.



### DENIS KINANE

Denis F. Kinane, BDS, PhD, is the Morton Amsterdam Dean of the University of Pennsylvania School of Dental Medicine. He also holds appointments with Penn Dental Medicine as Professor of Pathology and of Periodontics. A native of Scotland, Dr. Kinane spent much of his distinguished career there, earning his bachelor of dental surgery and his PhD in microbiology from the University of Edinburgh in 1980 and 1983 respectively, and serving on the University of Glasgow Dental School faculty for 14 years, where he held the posts of Professor and Chair of Periodontology and Oral Immunology and Associate Dean for Research and Enterprise. Dr. Kinane is a member of the Faculties of Dental Surgery of the Royal College of Surgeons of Edinburgh in restorative dentistry and the Royal College of Physicians and Surgeons of Glasgow in periodontics. His research interests focus on periodontal immune and inflammatory processes, mainly addressing the causes, development, and susceptibility markers of periodontal disease. His work also examines the relationships between periodontal disease and systemic health and diseases such as diabetes and heart disease, involving research into inflammation, immunity, microbial pathogenesis, genetics, and systemic disease markers. An internationally respected lecturer, Dr. Kinane is widely published in U.S. and international peer-reviewed journals and serves of the editorial boards of several international journals. He is a member of the Executive Committee of the European Academy of Periodontology and served as Chair of the Gordon Conference on Periodontal Research, 2006-2009.



### NIGEL KING

Nigel King, who is Professor in Paediatric Dentistry, at the University of Hong Kong, holds BDS and MSc degrees with honours from the University of London. His PhD from the University of Hong Kong was on developmental defects of enamel. He is a Member of the Royal Australasian College of Dental Surgeons, a Fellow of the Hong Kong Academy of Medicine (Dental Surgery), the College of Dental Surgeons of Hong Kong and the Royal College of Surgeons of Edinburgh. Currently, he is President of the Australasian Academy of Paediatric Dentistry and Chairman of the Board of Examiners for the Dental Council of Hong Kong Licensing Examination. He has supervised of 3 PhD and 2 MPhil students and over 50 postgraduate diploma and master students in Paediatric Dentistry. Currently, he is supervising 8 PhD students. Professor King has published over 200 scientific papers, and 16 chapters in dental text books.



### GUNILLA KLINGBERG

Gunilla Klingberg, senior consultant in paediatric dentistry at Mun-H-Center, the Swedish National Orofacial Resource Centre for Rare Diagnoses in Gothenburg, and associate professor in paediatric dentistry at the Sahlgrenska Academy, University of Gothenburg, Sweden. Gunilla is specialist in paediatric dentistry since 1995, and completed her Ph D degree in paediatric dentistry the same year with the thesis Dental fear and behaviour management problems. A study of measurement, prevalence, concomitant factors, and clinical effects. Her research profile concerns orofacial aspects on rare disorders and medical conditions, behavioural sciences in odontology, pain, dental hard tissues, and qualitative research methods applied on dental sciences. A special focus is on patients' perspectives on dental care. She has published over 50 scientific papers or



chapters in text books. Gunilla was board member of IAPD 2003-2007, is presently on the board of the Swedish Society of Paediatric Dentistry, and president of the Swedish Dental Association. Gunilla drives a Saab.



### GORAN KOCH

Professor Göran Koch graduated in Malmö, Sweden, and in 1967 he defended his thesis on the clinical effects of fluoride dentifrices and fluoride mouthrinses. In 1972 he became head of the Department of Paediatric Dentistry at The Institute for Postgraduate Dental Education, Jönköping, Sweden. He was appointed professor in Paediatric Dentistry at the Karolinska Institute, Stockholm, and at the Faculty of Odontology, Göteborg, Sweden. Professor Koch has edited a number of textbooks and written numerous chapters in these books. He has published more than 200 scientific papers and lectured all over the world. He has been President of the Swedish Society of Paediatric Dentistry and the European Academy of Paediatric Dentistry. From 2003 to 2009 he was IAPD's Honorary Editor of International Journal of Paediatric Dentistry. For 6 years he was President of the Swedish Dental Association and for 17 years President of the Swedish Dental Society. Since more than 35 years he is the editor of Swedish Dental Journal. He is Honorary member of a large number of National Dental Associations. His long involvement in congress and educational matters within FDI has rendered him to be on FDI List of Honour. He has been awarded Doctor Honouris Causa by the University of Athens. His main fields of interest are all aspects of paediatric dentistry and preventive dental care and he is active in clinics, research, and education at his mother Institute.



### EVANGELOS KONTAKIOTIS

Dr. E.G. Kontakiotis was educated in the National and Kapodistrian University of Athens gaining his DDS in 1979 and his PhD in 1989. He is an Associate Professor at the University of Athens Dental School, Department of Endodontics and he is also Head of the Postgraduate Endodontics Clinic at the same University. He worked as a researcher during 1996 -1997 in ACTA , University of Amsterdam, Netherlands. Dr Kontakiotis maintains a private practice limited to Endodontics in Athens, Greece and he has accumulated an eight-year period of experience in incorporating magnification into daily endodontic practice. His research, teaching and supervising is focused on microleakage studies, antimicrobial and biological properties of biomaterials and recently on shaping ability of hand and rotary instruments. Dr. kontakiotis has published more than 100 scientific articles and (national and international) which have received a lot of references and is co-author of the Greece edition of "Clinical Endodontology".



### GEORGE KOSTOUIROS

Born in Athens in 1970. Graduated from the Dental School of Athens in 1993. Masters Thesis in Endodontics and Pharmacology at Karolinska Institutet in Stockholm in 1996. Masters in Oral Biology at Athens Dental School in 2000. Affiliated with the Dept of Endodontics at the Athens Dental School as clinical instructor since 1996. Has published scientific papers in basic research and in clinical issues. Has lectured in many national and international scientific meetings and has also given several hands-on courses about Ni-Ti rotary endodontic systems. Co-author in Prof. Sycaras textbook "Endodontics". Endodontist of the Henry Dunant Hospital since 2009. Private practice limited to Endodontics since 1996. Member of the Board of the Hellenic Society of Endodontics from 2003-2006



### NORBERT KRÄMER

Dr Norbert Krämer is Director of the Policlinic of Paediatric Dentistry in Giessen, Germany since 2009. In 1987 he completed his Dissertation at the University of Erlangen where he worked as Assistant Professor and then Associate Professor . He received his Ph.D. from University of Erlangen in 1997 and served as Head of the Department of Paediatric Dentistry in Dresden (2006-2009). He has served as member, Secretary and President of the German Society for Paediatric and he is currently the President of the European Academy of Paediatric. Dr Norbert Krämer is a member of the Editorial Board of American Journal of Dentistry, International Journal of Paediatric Dentistry, Journal of Dentistry, European Journal of Paediatric Dentsitry, Oralprophylaxe and Kinderzahnheilkunde (Editor), Quintessenz and Up2date.



### JAN KUHNISCH

1991-1996 Study of dentistry at the University of Leipzig and at the Friedrich-Schiller-University of Jena/ Erfurt, Germany, 1997 Doctoral researcher at the Friedrich-Schiller-University of Jena, DDS, 1998 Wrigley- Prophylaxis-Award, 1999 Vivadent-Research-Award, 1998-1999 Internship in a dental practice, 2000 Dentist & scientific assistant at the Friedrich-Schiller-University of Jena, Department of Preventive Dentistry, 2002 Wrigley-Prophylaxis-Award, 2003 MDS in Paediatric Dentistry at the Friedrich-Schiller-University of Jena, 2004 Dentist & scientific assistant at the Ludwig-Maximilians-University of Munich, Department of Conservative Dentistry and Periodontology, 2006 Consultant in Paediatric Dentistry at the Department of Conservative Dentistry and Periodontology/ LMU of Munich, 2008Oral-B blend-a-med Prophylaxis Award, 2008 Assistant professor.



### JAMIE LUCAS

Associate Professor James Lucas graduated in 1975 and completed his postgraduate training in 1981 and obtained his FRACDS in 1982. He has worked in private general practice and is currently a paediatric dental specialist in private practice as well as being Deputy Director of the Dental Department of the Royal Children's Hospital of Melbourne and Clinical Associate Professor in the Department of Pediatrics', Faculty of Medicine, University of Melbourne . Dr Lucas has been actively involved in both undergraduate and postgraduate training and has lectured and conducted workshops extensively in Australia and overseas. He has presented keynote lectures at international conferences and has published articles on dental behavior, dental care of medically compromised children and the use of dental implants in adolescents and young adults. His areas of research are growth and development, saliva dental trauma and children with dento-facial anomalies. Dr Lucas is a visiting consultant at the National Hospital of Odontostomatology, Ho Chi Minh City Vietnam where he is involved in the evaluation of a Multidisciplinary approach to Cleft Care and also the incidence of cleft lip and palate in Southern Vietnam. Dr Lucas is past president of the Australasian Academy of Paediatric Dentistry.



### ADRIAN LUSSI

Dr. Adrian Lussi is Professor and Head of the Department of Operative, Preventive and Paediatric Dentistry, University of Bern, Switzerland. In the same Department he was head of the Pediatric Dentistry Division for eleven years. He holds a diploma in chemistry of the Swiss Federal University of Technology, Zurich, Switzerland, a teaching licence at college level with chemistry as main subject as well as a diploma and a doctorate in dentistry of the University Bern, Switzerland. His research over the past 25 years has covered several aspects of erosion, caries diagnosis as well as minimally invasive preparation techniques in operative dentistry. The publication in English has reached a number of over 200 and he has published 3 books. He has received numerous National and International awards (1999 - Wrigley Prize for prevention in dentistry, 2004 - Swiss Science Forum. First prize for a novel prophylactic system, 2006 - Yngve Ericsson Prize for research in preventive dentistry, 2008 - IADR - Research in dental caries award, 2009 - ORCA Prize for Caries Research)



### NICK A. LYGIDAKIS

Nick A. Lygidakis is working in Athens in a private practice limited to Paediatric Dentistry, Oral Surgery and Orthodontics. In 2000 he organized and developed the first in Greece Community Dental Center for Children and an attached Hospital Unit for General Anaesthesia, where he still works as Consultant Paediatric Dentist. He is also Honorary Reader in Paediatric Dentistry in the Leeds University, UK, where he teaches in the postgraduate PD program. He holds a Master of Science in Medicine degree (Genetics), a Master of Science in Dentistry degree (Child Dental Health), and a PhD degree (Oral-Facial Genetics). He is at present, President of the Hellenic Society of Paediatric Dentistry and Past-President of the European Academy of Paediatric Dentistry. In the latter, being a founding member, he has served for many years in various committees and he has been involved in the organization of a number of scientific activities. He has published more than 50 papers in peer reviewed scientific journals and over 130 abstracts in Hellenic and International Congresses. His research and clinical interests are in the fields of dental anomalies, special needs patients treated under general anaesthesia, trauma, fissure sealants and epidemiology and he is frequently an invited Lecturer at home and aboard on these subjects.



### PHOEBUS MADIANOS

Dr. Phoebus N. Madianos is Professor at the Department of Periodontology, University of Athens, Hellas. He is also Director of the Graduate Program in Periodontology. He received his DDS degree in 1989 from the University of Athens. In 1992, he completed his graduate training in Periodontology at Göteborg University and in 1997 he received his Ph.D. degree in Oral Microbiology from the same University. From 1998 to 2000 he was a Post-Doctoral Research Fellow and from 2000 to 2002 Assistant Professor at the University of North Carolina. He is an executive committee member of the European Federation of Periodontology and a Board member of the Continental European Division of the International Association for Dental Research. He published over 40 scientific papers in international journals, which have received over 1500 citations, in the fields of periodontal pathogenesis, periodontal medicine and implantology. He received the "Hans-R. Mülhemann Research Prize" by the Swiss Society of Periodontology in 1997, the "Anthony A. Rizzo Young Investigator Award" by the IADR Periodontal Research Group in 2004 and the "Clinical Research Award" by the American Academy of Periodontology in 2006.



### MARGARITA MAKOU

Dr. Margarita Makou is an Associate Professor and Head of the Department of Orthodontics at the Dental School of the University of Athens. She graduated from the Dental School of the University of Athens, received her postgraduate orthodontic education and Master's degree in Oral Biology at Boston University, School of graduate Dentistry and her PhD degree at the University of Athens. She is member of several orthodontic organizations. Her fields of research interest include biomechanics and periodontal considerations in the orthodontic patient. She has contributed to numerous scientific publications.



### DAVID MANTON

Graduated BDS (Melb) in 1984 and worked in general practice until 1991 when he undertook an MDS in Paediatric Dentistry. He was dental advisor to the Federal Government from 1994 – 1996 and won the KG Sutherland Prize of the RACDS in 2007. David is currently the Elsdon Storey Professor of Child Dental Health and heads the section of Growth and Development (Paediatric Dentistry and Orthodontics) at The University of Melbourne and supervises several collaborative and postgraduate research projects. David has spoken throughout Australia, Asia and Europe and has wide ranging experience in laboratory and clinical trials of CPP-ACP, Minimal Intervention Dentistry and the detection of caries. His interests are in the demineralisation and remineralisation of enamel, CPP-ACP and fluoride, dentine hypersensitivity, molar-incisor hypomineralisation (MIH), the detection of caries and erosion.



### LUC MARTENS

Prof Dr Luc MARTENS is chairman of the dept. of Paediatric Dentistry at the university of Ghent-Belgium. He is the director of the Masters programme in Paediatric Dentistry and coordinates the PaeCaMeD research group. He promoted 6 PhD theses and published > 175 papers of which about 100 international papers, 55 papers in the Dutch language and > 20 chapters in books. Furthermore he is author, co-author of > 200 scientific abstracts. Prof Martens is scientific advisor of the European Archives of Paediatric Dentistry, member of the editorial board of Quintessenz International, Journal of Oral laser applications, Oral health and preventive dentistry and Journal of Oral health and disability. He is also reviewer for several other international journals. Furthermore he is a wellknown national and international lecturer and organised the 3rd EAPD congress (Bruges 1996) and the 4th European Laser conference (Bruges 2006) in Belgium. Prof. Martens is founding member and past-president of the Belgian (BAPD) and the European Academy of Paediatric Dentistry (EAPD). In 2008 he became past-president of the International Association for disability and oral health (IADH) and the organiser of the 20th IADH worldcongress (Ghent-2010). In 2007 he was appointed as visiting professor for Special Care Dentistry at ACTA-Amsterdam.



### SELINA MASTER

Selina Master qualified from Liverpool University in 1976. The majority of her career has been spent within the Community / Salaried Dental Services working with both children and adults who have complex medical issues and who require Special Care Dentistry. She has a particular interest in those who have Autism Spectrum Disorder. Selina was Chairman of the Examiners for the Diploma in Special Care Dentistry Examination at the Royal College of Surgeons of England and is past President of The British Society of Disability and Oral Health. She is one of the BSDH representatives on the Specialist Advisory Committee in Special Care Dentistry and is the Chair of the recently formed Faculty Specialty Advisory Panel for Special Care Dentistry, Royal College of Surgeons in England. She is also the UK National Dental Advisor for The Down Syndrome Association. Selina is on the Specialist lists in Paediatric and Special Care Dentistry and is currently Clinical Director of Dental Services (Eastern Locality) - Surrey Community Health, England.



### DON MORROW

Dr. Don Morrow holds a PhD in the Health Sciences and has over 25 years of experience working as a professor at all levels of the Canadian university educational system. He is a certified professional coach trained and accredited with both the Coaches Training Institute and the International Coach Federation. Don is an experienced coach and Motivational Interviewing (MI) workshop facilitator. His evidence-based research and publications focus specifically on using MI and coaching as behavior change interventions for a variety of health issues. He is a widely published author and an experienced presenter to groups varying from small workshops to assemblies of 1200 people.



### KONSTANTINOS NIAMONITOS

Assist. Professor Konstantinos Niamonitos obtained his DDS Degree from Athens University School of Dentistry (Greece) in 1979. In 1984, he obtained his clinical internship in Endodontics and his Master's in Medical Science in Oral Biology from Harvard University and Forsyth Dental Center of Boston U.S.A. In 1988, he obtained his PhD Degree from Athens University. From 1997 until today, he has been affiliated with the Department of Endodontics of the University of Athens, first as a Scientific Collaborator (1997-2007) and since then as an Assistant Professor. From 1984 until today, he also has a clinical practice limited to Endodontics in Athens.



### KYPROS NICOLAIDES

Kypros Nicolaides studied Medicine at King's College School of Medicine and Dentistry in London. Dr. Nicolaides became director of the Harris Birthright Research Centre for Fetal Medicine, the first fetal medicine unit in the United Kingdom. He began a programme of research and teaching which made King's College Hospital an important center of fetal medicine activities for thousands of visiting doctors. Nicolaides discarded the fetoscope and pursued all blood sampling procedures by taking blood from the placental cord insertion, popularising the term "cordocentesis". His research in Prenatal Diagnosis covers a wide span of topics extending into the many realms of prenatal ultrasonography, cytogenetic studies and doppler velocimetry. His studies on the relationship between fetal abnormalities and chromosome defects and other data on nuchal translucency for example remain the most significant data on these subjects. He has contributed to over 500 journal articles and more than 30 books and monographs. In 1996 he established the Fetal Medicine Foundation which runs regular courses with an international panel of speakers and delegates attending from all round the world. In 1999, he was conferred the Ian Donald Gold Medal from the International Society of Ultrasound in Obstetrics and Gynecology.





### JOHANNA NORDERYD

Dr Johanna Norderyd is a specialist and consultant in paediatric dentistry, working at the National Oral Disability Centre for rare disorders at the Institute for Postgraduate Dental Education in Jönköping, Sweden. The centre was established in 1999 to increase knowledge on diagnosis and treatment of oral and dental signs and symptoms in rare disorders.

Dr Norderyd graduated from Malmö Dental School in 1983 and has worked in the Swedish Public Dental Care. She worked with clinical research at the Department of oral Biology, SUNY, Buffalo, during the years 1990 - 92. She got her speciality training 1993 – 96 at the department for paediatric dentistry in Jönköping. From 1996 she was employed at the same department as consultant, working as a clinical specialist and tutor in specialist education. In 1999 she joined the National Oral Disability Centre. Dr Norderyd's main interest is in oral care for children with disabilities. She became a member of the board for the Swedish Association for Disability and Oral Health in 1998 and was chairman 2002 – 2007.



### JUNE NUNN

June is Professor of Special Care Dentistry and Pro Dean, School of Dental Science, Trinity College Dublin, Ireland. June has worked in Paediatric Dentistry, Periodontology and Public Dental Health in Dental Schools in the UK. She has run a Masters course in Community Dental Health and taken part in the training and calibration of examiners in all the UK oral health surveys of children and adults since 1978. Her research interests are in dental epidemiology, paediatric dentistry and all aspects of special care dentistry. Currently a member of the Irish Health Research Board's Panel on Population Health, Epidemiology and Health Services Research as well as two national longitudinal study groups on childhood and on ageing. She has supervised 28 Masters/PhD students and published over 100 papers and 18 books/chapters. She is Past President of the British Society for Disability and Oral Health, the International Association for Disability and Oral Health and the Irish Society for Disability and Oral Health and Editor, Journal of Disability and Oral Health. A member of UK Royal College of Surgeons of England Specialist Advisory Committee on Special Care Dentistry and Chair of the Royal College of Surgeons in Ireland's Advisory Committee on Additional Dental Specialities; Examiner in the Memberships in Special Needs Dentistry and Paediatric Dentistry, Royal College of Surgeons of Edinburgh.



### CONSTANTINE OULIS

Constantine Oulis is Associate Professor of Paediatric Dentistry in the Dental School of the University of Athens and Chairman of the Scientific Committee of the 23rd IAPD Congress. Education: D.D.S., Dental School, Athens University (1974) Certificate in Paediatric Dentistry, UAB (1979-1981): MSc in Oral Biology, UAB (1981-82), PhD Dental School, Athens University (1986). Academic Appointments: University of Athens: Lecturer (1986-1989), Assistant Professor (1989-1991), Associate Professor (1991-today). Professional Appointments: Founding member and President of the European Academy of Paediatric Dentistry (EAPD) (1996-1998), President of the Hellenic Society of Paediatric Dentistry (HSPD) (200-2003 and 2006-2009). Board member of the Hellenic Dental Association and Chairman of the WG on Education and Professional Qualifications of Dentists in EU. CED's. Publications: Dr Constantine Oulis has published over eighty scientific papers in International and Greek journals and he has made over one hundred and fifty scientific presentations in Greek and International Congresses. His main research interests are in the areas of Cariology in regard to Caries epidemiology, acid resistance of hard tissues and methods of preventive strategies, with special interest on sealants use for the prevention of caries on pits and fissures of permanent teeth



### AGNIESZKA PACYK

Graduated from the Medical University of Lodz, Poland. PhD with honours completed in 2005. Associate Professor at the Medical University of Lodz. She lectures and conducts courses and trainings in several European countries. The author of many scientific articles on Adhesive Dentistry. Member of the Polish Dental Association and of International College of Dentists. Since 2006 she is an owner of her own dental practice in Lodz, Poland.



### HELEN PAPADOGEORGAKIS

Graduated from the Medical School of the University of Athens. Trained in Clinical Microbiology and Clinical Virology at the Charing Cross Medical School, University of London and the Queen Charlotte's Hospital, the Institute of Obstetrics and Gynaecology, University of London, England. In 1981 she was qualified as a Clinical Microbiologist and was appointed as a senior registrar at the Evangelismos General Hospital, in Athens, Greece. In 1988 she obtained her Ph.D from the Medical School of the University of Athens. Since 1989 she is working at the Microbiology Department of the "A. Sygros" University Hospital for Skin and Venereal Diseases, in Athens, Greece with main interests fungal and viral infections. She is involved in teaching of postgraduate medical and dental students as well as medical trainees in Mycology, Clinical Microbiology and Virology. She has contributed in writing chapters in Dental and Medical Textbooks and is the author of papers related to fungal and viral infections.



### LISA PAPAGIANNOULIS

Professor Lisa Papagiannoulis is the Chair of the Organizing Committee of the 23rd IAPD Congress. She is the Professor and Head of the Department of Paediatric Dentistry in the Dental School of the University of Athens, Past President of the IAPD and the HSPD. Education: D.D.S., Dental School, Athens University (1971) Certificate in Paediatric Dentistry, UCLA (1976-1978): MSc in Oral Biology, UCLA (1978-79), PhD Dental School, Athens University (1980). Academic Appointments: University of Athens: Lecturer (1979-1984), Assistant Professor (1984-1988), Associate Professor (1988-1993), and Professor (1993), UCLA: Lecturer in Paediatric Dentistry (1979-1981), USC: Clinical Assistant Professor, Department Community Dentistry Section (1978-79), Visiting Scholar Dept. of Biomaterials UCLA (1988) Publications: Professor Papagiannoulis has published over eighty scientific papers in International and Greek journals and she has made over one hundred and fifty scientific presentations in Greek and International Congresses. Her main research interests are in the areas of craniofacial growth and development, aetiology, pathology and prevention of dental diseases, dental materials and dental care for the special patients.



### PETROS PAPAGERAKIS

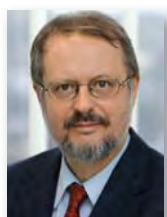
Dr. Petros Papagerakis graduated in 1990 from the School of Dentistry-Aristotle University, Thessaloniki, Greece. He completed postgraduate training at the University of Paris (France) in Pediatric and Preventive Dentistry, in Hospital-based Pediatric Dentistry, in Biomedical Sciences (Bachelor of Science) and in Oral Biology (Master of Science). In 1996, Dr. Papagerakis was recruited at the 7th University of Paris as Assistant Professor with joint appointments in the Departments of Oral Biology and Pediatric Dentistry. In 2000, he earned Cum Laude his PhD in Cellular and Developmental Biology from the 5th University of Paris. He also completed post-doctoral training in Dental and Craniofacial Molecular Genetics at the University of Texas at San Antonio, USA. In 2006, Dr. Papagerakis was recruited as Research Scientist at the Dental Research Laboratory at the University of Michigan (UM) working with Drs. Simmer, Hu, and Yamakoshi. Since 2008, Dr. Papagerakis is a tenure-track Assistant Professor in the Department of Orthodontics and Pediatric Dentistry, UM. He is also affiliated faculty of the UM Medical School Centers for Organogenesis and for Computational Medicine and Bioinformatics. He teaches clinical Pediatric Dentistry, Stem Cells Biology, Craniofacial Genetics, and Tooth Development. He has received many awards and serves as an AADR committee member and as grant reviewer for the National Science Foundation and the National Health Institute (NIH). He also serves as reviewer for many journals and he is on the Editorial Board of "The Open Bone Journal" and the "Journal of Dental Research".



### STEVEN PERLMAN

Dr. Steven Perlmán is a Clinical Professor of Pediatric Dentistry at The Boston University Goldman School of Dental Medicine. For the past 32 years, he has devoted much of his private practice as well as his teaching, to the treatment of children and adults with physical and intellectual disabilities. Dr. Perlmán is a past president of both the Academy of Dentistry for Persons with Disabilities and The Massachusetts Academy of Pediatric Dentistry. In addition, he has served on the executive board of both organizations for many years. He is a Fellow of The Academy of Dentistry for Persons with Disabilities, a Fellow of The

American College of Dentists and a Diplomate of the American Board of Special Care Dentistry. He is the recipient of the Harold Berk Award from the Academy of Dentistry for Persons with Disabilities and the Manny Album Award from the American Academy of Pediatric Dentistry. Dr. Perlman has also been honored by The Pierre Fauchard Academy and in 2002, the American Dental Association presented him with their Access Recognition Award. He has published over 180 articles and was a contributor to the Surgeon General's Report on Oral Health in 2001. In 2005, Dr. Perlman received The Exceptional Parent Maxwell J. Schileifer Distinguished Service Award and The Trudi Birger Community Service Award from Alpha Omega for extraordinary contribution to children with special needs all over the world. In 1993, Dr. Perlman founded Special Olympics Special Smiles, an Oral Health Initiative for the athletes of Special Olympics International. He currently serves as their Senior Global Clinical Advisor. Dr. Perlman is a cofounder of the American Academy of Developmental Medicine and Dentistry and in 2005 and 2006 served as an advisor to the President's Committee for Persons with Intellectual Disabilities.



### KLAUS PIEPER

Since 1992: Professor and Head of the Department of Pedodontics and Community Dentistry, Marburg. 1988-1991: Professor (Pedodontics and Preventive Dentistry), University Göttingen 1975: Graduation University Göttingen. Fields of interest: pediatric dentistry, caries epidemiology, community dentistry, diagnostic methods, caries risk assessment and caries prevention



### NIGEL PITTS

Nigel Pitts is a dentist and health researcher, holds a PhD in computer-aided radiographic diagnosis from the University of London, Fellowships from the Royal Colleges of Surgeons in London and Edinburgh, from the Royal Society of Edinburgh, from the Faculty of General Dental Practice (UK), as well as from the Faculty of Public Health. He has been the recipient of several prestigious research awards. He is a leading member of the IADR, ORCA (Past President), EADPH (the European Association for Dental Public Health, Past President) and BASCD (the British Association for the Study of Community Dentistry, Past President). His research interests span a broad range from public health, health services and implementation research

with a dental focus to also include cariology, remineralisation, diagnostic systems and evidence based healthcare.



### KALLIOPI-ANNA POULIA

Kalliopi-Anna Poulia graduated in 1999 from the Department of Science of Nutrition And Dietetics in Harokopio University. From 1999 to 2000 she attended the postgraduate programme leading to a Master of Medical Sciences, with specialization in Clinical Nutrition in Glasgow University. From 2000 to 2003 she worked as a scientific fellow in the Laboratory of Nutrition and Clinical Dietetics in Harokopio University, where she was responsible for the practical placement of final year students in two leading hospitals in Athens. Since 2003 until today she is working in the Department of Nutrition of the General Hospital of Athens "LAIKO". From 2002 until 2004 she was elected President of the Hellenic Dietetic Association and from 2003 until 2006 she was also representing the Hellenic Dietetic Association to the European Federation of Associations for Dietitians. In 2010 she was re-elected vice-president of the Hellenic Dietetic Association and she is the Nutrition Consultant of the European Dialysis and Transplantation Association for Nurses since 2010. She has attended several scientific congresses and seminars in Greece and abroad and she is part of the organizing committee of every Congress of the Hellenic Dietetic Association since 2000. She has presented her scientific work and has taken part as a guest speaker in congresses in Greece and abroad. She has contributed in the writing of 9 scientific books, 6 full papers in journals with judges and two in Greek scientific journals.



### MAGNE RAADAL

Professor Randal obtained License to practice dentistry in Norway in 1966 and became a Specialist in Pediatric Dentistry in 1981. He completed his Dr. odont. In 1984 and since 1971 he has served in several position at the in Department of Odontology - Pediatric Dentistry, University of Bergen, Norway, where he is currently a Professor. From 2002 to 2009 he served as the Dean of the Faculty of Dentistry, University of Bergen. He is a member and officer in several national and international associations, he was the President of European Academy of Pediatric Dentistry 1998-2004 and Chairman of the Congress Site Selection and Coordinating Committee of the International Association of Pediatric Dentistry 2000-2004. He research interest during the last years is on dental anxiety and dental avoidance, caries prevalence and progression in children and sedation and anesthesia for children. He has published more than 71 original research papers in international journals, 31 review papers and textbook chapters and 42 research reports.



### FRANCISCO RAMOS-GOMEZ

Francisco J. Ramos-Gomez is currently a Full Professor in the Section of Pediatric Dentistry, at the University of California, Los Angeles; He has also served as UCLA program Director and the Director of Pediatric Services at the Family Dental Center at San Francisco General Hospital and has pioneered protocols in early detection and prevention of Early Childhood Caries (ECC). Dr. Ramos-Gomez was awarded the specialty and an M.S. degree in Pediatric Dentistry from Tufts University School of Dentistry in 1988; he earned his M.P.H. in 1990 from the Harvard University School of Public Health, Department of Policy & Management. In 1992, he was certified in Dental Epidemiology and Dental Public Health from the University of California, San Francisco. He is a Diplomate of the American Board of Pediatric Dentistry and former member of the Executive Board of the American Association of Public Health Dentistry. Currently, Francisco Ramos-Gomez is a team member and Researcher on the NIDCR/UCSF- CAN-DO -Center to Reduce Oral Health Disparities in Children; Board member of the AAPD Government Council, Perinatal and Infant Oral Health Council; the Oral Health Action Coalition (OHAC); and, the Center for Oral. Fellow of the American College of Dentistry (FACD). He also served as the National HeadStart Oral health Consultant for Region 12 and is Past President of the Hispanic Dental Association.



### ULRICH SCHIFFNER

1980: Graduation, 1981: Thesis, 1982: Assistant Professor, Dept. of Preventive Dentistry, University of Hamburg, 1988 – 1992: General Secretary of the German Association of Operative Dentistry, 1994: Habilitation (Effect of salivary proteins on enamel demineralization) 1996: Associate Professor, Dept. of Preventive Dentistry, University of Hamburg, 2002 – 2006: Chairman of the Working Group of Epidemiology and Public Health of the German Society of Dentistry and Oral Medicine, 2003 – 2005: Head of the Section for Preventive Dentistry of the Dept. of Operative and Preventive Dentistry University of Hamburg, 2004 – 2008: President of the German Association of Paediatric Dentistry, Since 2008: Board member responsible for continuing education, German Association of Paediatric Dentistry Main research fields: Caries aetiology and –prevention, Caries epidemiology



### ERIK SKARET

Erik Skaret, DDS, PhD, is professor in behavioural sciences in dentistry, Institute of Clinical Dentistry, Department of Pediatric Dentistry and Behavioral Sciences, University of Oslo, and Affiliate Assistant Professor, University of Washington, USA. He has long clinical experience in general dentistry before he started his academic career, and has in addition 12 years experience with psychological and pharmacological treatment of dental phobia as Head of Center for Odontophobia, University of Bergen, Norway and 1 year as Acting Director at the Dental Fears Research Clinic, University of Washington, USA. Skaret has treated dental phobia and intra-oral injection phobia in one vs. five sessions of CBT according to manuals developed by Öst and co-workers, University of Stockholm, Sweden. His current work includes research on prevention and treatment of dental anxiety among children and adolescents, and how to get dentally avoidant people into care based on behavior change theory. Skaret has published about 50 scientific articles.





### ALEXANDRA SKLAVOUNOU - ANDRIKOPOULOU

Dr. Alexandra Sklavounou - Andrikopoulou is Professor and Chairman of the Department of Oral Medicine and Pathology at the University of Athens Dental School. She graduated from the same Institution with honors and she was awarded with a scholarship for post-graduate training at the Departments of Oral Biology and Oral Pathology of the University of Minnesota USA from where she received her Master Degree. She obtained her Doctorate degree with a Doctorate prize from the University of Athens and conducted basic post-doctorate research focused on oral immunology in the Department of Immunology and Parasitic Diseases of the Hellenic Pasteur Institute. She has been involved in 15 funded research projects and she has participated with presentations in more than 250 greek and international Meetings. She is author of 2 monographs and approximately 150 scientific publications with more than 400 citations. She wrote a chapter on oral HPV infection in a Medical book and prepared an interactive CD on common oral diseases for dental students. She is President of the Hellenic Society of Oral Medicine. She is also an elected Member of the Board of the European Association of Oral Medicine (EAOM) and President of the 11th Biennial Congress of the EAOM which will be organized in Athens in 2012.



### IRMA THESLEFF

Professor Thesleff graduated from the Dental School of the University of Helsinki in 1972 and became Doctor of Odontology in 1975. In 1978-1979 she was a visiting scientist at the National Institute of Dental Research, Bethesda, Md, USA. In 1990 she was appointed Professor and Chairman of the Department of Pedodontics and Orthodontics at the University of Helsinki. Since 1996 she is the Research Director of the Developmental Biology Program at the Institute of Biotechnology. She has authored about 300 original articles and review papers in international journals. She is a leading researcher in developmental biology, with special emphasis on dentistry. In recognition of her many achievements, Dr. Thesleff has been honored with many major awards, including the prestigious Anders Jahre Prize in Medicine from Oslo University, the IADR Distinguished Scientist Award in Craniofacial Biology and Isaac Schour Memorial Award, and the Helsinki City Science prize, and in addition she has been awarded honorary doctorates from several universities. Professor Thesleff is a world authority on the development of teeth, the craniofacial bones and structures that arise from ectoderm, such as hair and exocrine glands. Among her many important scientific discoveries, she has defined how failures in cell signaling networks result in developmental defects such as abnormal bones and teeth and ectodermal dysplasias. In particular, she is known for developing mouse models of human disease, and a variety of novel experimental methods that examine how cells transmit molecular messages and how teeth develop from their progenitor stem cells



### KYRIACOS JACK TOUMBA

Professor Jack Toumba obtained his BSc(Hons) in biochemistry and physiology from Leeds University in 1976 and his MSc in steroid endocrinology in 1977. He then graduated with BChD from Leeds University in 1984. For eleven years was a Senior Dental Officer in Paediatric Dentistry. He obtained his FDSRCS from the Royal College of Surgeons of England and his PhD from Leeds University on the topic of fluoride slow-releasing devices. He was awarded a personal Chair in Paediatric and Preventive Dentistry in October 2004. Prof Toumba has published over 60 research papers/books/articles in international journals and obtained research grants valuing almost £2.5 million. Jack is co-author of 'Restorative Techniques in Paediatric Dentistry' and Dental Traumatology. He is an internationally respected scientist and clinician and is invited all over the world to give talks and courses on Paediatric Dentistry. His particular expertise is in prevention of dental caries, slow-release fluoride devices and the use of fluorides.



### MARTIN TROPE

Dr. Martin Trope is presently in private practice in Philadelphia, PA. He was born in Johannesburg, South Africa where he received his BDS degree in dentistry in 1976. From 1976 to 1980 he practiced General Dentistry and Endodontics in Israel. In 1980 he moved to Philadelphia to specialize in Endodontics at the University of Pennsylvania. After graduating as an Endodontist he continued at U. of Penn as a faculty member until 1989 when he became Chair of Endodontology at Temple University, School of Dentistry. In 1993 he moved to Chapel Hill, North Carolina to become the JB Freedland Professor in the Department

of Endodontics at the University of North Carolina, School of Dentistry. Named in honor of one of the founding fathers of Endodontics, the Freedland Professorship recognizes significant contributions to the specialty. Dr. Trope has served as a Director of the American Board of Endodontics. Before entering full time private practice he was editor-in-chief of two journals, Dental Traumatology and Endodontic Topics. He also serves on the Editorial Board of Oral Surgery, Oral Medicine, Oral Pathology and on the Advisory Board of Esthetic Dentistry.

Dr. Trope's major research interests include dental trauma, clinical outcomes, and new diagnostic tests for pulpal and periapical disease. Recently he has also been involved in material development for root canal filling. His work has been published in numerous journals and book chapters. In April 2002 he was awarded "The Louis I. Grossman Award " for cumulative publication of significant research by the American Association of Endodontists.



### SVANTE TWETMAN

Dr. Svante Twetman is professor of Cariology at the Institute of Odontology, Faculty of Health Sciences, University of Copenhagen, Denmark. He holds the Odont. Dr degree from the Karolinska Institute in Stockholm, Sweden and is a specialist in paediatric dentistry. His research interest is fluoride and microbial aspects on caries prevention in childhood with focus on clinical trials. Twetman is author and co-author of several books and over 150 scientific articles. He is member of The Swedish Council on Health Technology Assessment in Health Care working with systematic reviews and guidelines. Degrees and major positions: Graduated dentist 1974 at Karolinska Institutet, Stockholm, Sweden; Postgraduate studies and specialist degree in Paediatric Dentistry 1980, Karolinska Institutet; Odont Dr 1985, Karolinska Institutet; Docent 1990, Karolinska Institutet; Senior Consultant, County Hospital, Halmstad, Sweden 1985-1999; Consultant, King Faisal Specialist Hospital and Research Centre, Saudi Arabia 1993-1994; Professor and Head, Paediatric Dentistry, Ume University, Ume, Sweden 2000-2006; Professor of Cariology, University of Copenhagen 2006. Scientific activities: The research is focused on the caries process and its prevention in clinical trials and laboratory studies; Author and co-author of > 170 publications within microbiology, saliva biochemistry and caries prevention including original research, reviews, tutorials and textbooks; Member of the Swedish Council on Technology Assessment in Health Care for evidence-based evaluations of diagnosis and treatment; Member of several editorial boards and committees. Recent Award: IADR Distinguished Scientist Award in Cariology 2010



### DIMITRIOS TZIAFAS

Dimitrios Tziafas is Professor and Head of the Department of Endodontology at the School of Dentistry, Aristotle University of Thessaloniki. He graduated as a dentist in 1977. He worked in the Department of Dental Pathology and Therapeutics initially as instructor, undertaking the PhD in 1983 and subsequently as a Lecturer, Assistant Professor and Associate Professor in the Department of Endodontology, at Thessaloniki University. In 1987 Dr Tziafas worked as a visiting post-doc researcher in the Institute Biologie Medicale, Faculte de Medecine, Universite Louis Pasteur, Strasbourg, France. He served as the National Representative of Greece in the European Committee networks of Coordinated Science and Technology actions in the field of Odontogenesis (1996-2001) and Oral Facial Development and Regeneration (2003-2007). Since 1999 Dr. Tziafas has chaired the Department of Endodontology, at the Aristotle University of Thessaloniki. Dr. Tziafas was a board member of the IADR/Continental European Division (2000-2003) and served as the President of IADR - Continental European Division (2006-2008). He has been a Guest Editor of the journal Advances in Dental Research, Volume 15, 2001, entitled "Proceedings of the International Meeting on Signalling Mechanisms in Dentin Development, Regeneration and Repair: from Bench to Clinic" and served as Chairman of the Local Organizing Committee of the IADR/Continental European and Israeli Divisions annual meeting of 2007, held from September 26-29, 2007, in Thessaloniki, Greece. He is also actively involved with the Research Committees of Aristotle University of Thessaloniki and European Society of Endodontology. Dr. Tziafas' research interests include cytodifferentiation mechanisms during tooth development and dental pulp repair, biology of mineralized tissues and pathogenesis of pulp inflammation. He has published six invited reviews in biomedical and dental journals, 50+ peer-reviewed research papers, a monograph on reparative dentinogenesis and textbooks chapters relating to pulp biology.



### GEORGE VOUGIOUKLAKIS

George J. Vougiouklakis, DDS, MS, PhD, is Professor and Chairman of the Operative Dentistry Department at the School of Dentistry of the National and Kapodistrian University (NKU) in Athens Greece. He received his DDS degree in 1972 from NKU of Athens, his PhD from the same University in 1978, his MS from Toronto University in Canada in 1979 and accomplished his Ifigesia in 1982 in NKU of Athens. Dr Vougiouklakis research fields are Dental Biomaterials, Operative Dentistry and Dental Education. For many years in the past, he was President or member of the Board of the Research Center for Biomaterials in Greece, member of the Board of the IADR, European Section, President and member of the Board of the European Section of the Academy of Operative Dentistry, President of the Organizing Committee of the ADEE Conference in Athens, in 2005 and member of various professional committees, like European Dental Liaison Committee etc. From 2008 to 2002 was Vice Dean and from 2002 to 2006 Dean of the school of Dentistry of the NTU of Athens. He has published over 100 papers, chapters and abstracts in the field of Dental Biomaterials, Operative Dentistry and Dental Education.



### IOANNIS VROTSOS

Dr. Ioannis A. Vrotsos graduated and achieved his doctorate diploma from the Dental School, University of Athens. He specialized in Periodontology at the Tufts University, U.S.A. He is currently Professor and Director of the Department of Periodontology of the Dental School, University of Athens. He is an Adjunct Associate Professor of Periodontology, Tufts University, School of Dental Medicine and member of several Societies internationally. He has published several articles in national and international journals. His current research interest is on osteoporosis and periodontal disease, growth factors and human periodontal cells, morphogenetic proteins, prostaglandins and bone tissue.



### STEPHEN WEI

Professor Stephen Wei is a specialist in Paediatric Dentistry. He is Professor Emeritus of the Faculty of Dentistry of the University of Hong Kong and was Chair Professor and Head of Children's Dentistry and Orthodontics, and former Dean, Faculty of Dentistry and Director of the Prince Philip Dental Hospital from 1989 to 1997. Professor Wei holds a BDS (Hon) degree (1962) and a MDS degree (1965) from the University of Adelaide and a M.S. degree from the University of Illinois (1967) and a D.D.S. degree (1991) from the University of Iowa. He was Professor and Head, Department of Pedodontics at the University of Iowa from 1967-1983. In 1983, he was appointed Professor and Chairman, Division of Pedodontics, University of California at San Francisco. He holds Fellowships in the Royal Australasian College of Dental Surgeons, the International College of Dentists, and the American College of Dentists. He is the Foundation Fellow and Inaugural President of The College of Dental Surgeons of Hong Kong of the Hong Kong Academy of Medicine, and a Diplomate of the American Board of Pediatric Dentistry. He was the Chairman of the Board of Examiners of the Dental Council of Hong Kong from its inception until 1998. Professor Wei has published many monographs and more than 200 research and clinical papers, 170 abstracts and is the author or many textbooks. He is the President of the Hong Kong Society of Paediatric Dentistry since 2008 and is in part time private practice.



### RICHARD WELBURY

Richard Welbury was born in Morpeth Northumberland and qualified in dentistry (1978) and medicine (1984) from the University of Newcastle-upon-Tyne. He was appointed as MRC Research Associate in the Department of Child Dental Health in Newcastle in 1985 and gained his PhD in 1989. In 1991 he was appointed Regional Consultant/Senior Clinical Lecturer in Newcastle before moving to Glasgow in 2001 as Professor of Paediatric Dentistry. He is currently Director of Postgraduate Dental Education and Deputy Head of School. His fields of research are primarily in the durability of restorations, dental traumatology, including the role of the dental practitioner in child protection, anxiety and behavioural management, and the medically compromised child. He has authored five textbooks and over 120 scientific publications. The textbook 'Paediatric Dentistry' is now the standard text in all UK and Ireland Dental schools and has been translated into Portuguese. The Textbook 'Clinical Problem Solving in Orthodontics and Paediatric Dentistry' has been translated into Russian, and the Colour Guide 'Orthodontics and Paediatric Dentistry' into Mandarin. In 2001-2002 he was President of the British Society of Paediatric Dentistry, and between 2006-2008 President of the European Academy of Paediatric Dentistry. In 2015 he will be Conference Chairman when Glasgow hosts the IAPD Congress.



### RICHARD PHILIP WIDMER

Richard Widmer received his Master's Degree in Paediatric Dentistry from the University of Melbourne. The majority of his paediatric clinical practice over the last 20 years has been at the Westmead Centre for Oral Health and The Children's Hospital at Westmead. Richard is currently an Associate Clinical Professor in Paediatric Dentistry, The University of Sydney, and Director of the Dental Department at The Children's Hospital at Westmead. He is a very active clinician and lecturer, presenting to students and graduates in all branches of the Health Sciences as well as being invited to present at Conferences, both locally and internationally. Richard is a Past President of the International Association of Paediatric Dentistry, as well as both the Australasian Academy of Paediatric Dentistry and the Australian and New Zealand Society of Paediatric Dentistry. Richard has co-edited the very popular "Handbook of Paediatric Dentistry" now in its third edition and in seven languages. Recently Richard, with his Canadian colleague Gerry Wright has released "Paediatric Dentistry, dental care for children. A guide for parents".



### GERALD WRIGHT

Gerald Wright was born in Winnipeg. He received his predoctoral education at the University of Manitoba, undergraduate dental education at the University of Toronto and his postdoctoral training at Indiana University. His academic career was based at the University of Western Ontario where he served as Chair of the Division of Orthodontics and Paediatric Dentistry and Assistant Dean of Continuing Dental Education and he is currently a Professor Emeritus of the University of western Ontario. During his academic career, Dr. Wright published four books, numerous articles and book chapters and lectured throughout the world. Much of his time has been devoted to the development of programs to assist the teaching of pediatric dentistry in less wealthy nations. Dr. Wright is a Diplomate of the American Board of Pediatric Dentistry, a past Director and President of the Board. He also is a Fellow and past Examiner of the Royal College of Dentists of Canada. He has served as Associate Editor / Editorial Board of five journals. He has been a Visiting Professor at the Hebrew University in Jerusalem, Trinity College in Ireland, Baylor College and New York University in the U.S., Ulm University in Germany and Sydney University, Sydney Australia. During the past 12 years, Dr. Wright has been Secretary General of the International Association of Paediatric Dentistry. This has allowed him to initiate several international paediatric dentistry programs. For his work on behalf of children, he was awarded the medal of Paris in 2001, and in 2004 Honoris Doctoris Causa from the Belarussian State Medical University and the Herman Fellowship at the University of Western Australia.



### JOHN TIMOTHY WRIGHT

Dr. J. Timothy Wright was an undergraduate chemistry major and received his DDS degree from the West Virginia University. After serving in the West Virginia Public Health Department as Director of the Cable-Huntington Dental Clinic he pursued specialty training in Pediatric Dentistry receiving his specialty certificate and Masters of Science degree from the University of Alabama at Birmingham. Dr. Wright has received numerous awards and honors including an American Dental Association Teacher Training Fellowship, the William J Gies Award from the Journal of Dental Research, and was a Robert Gorlin Visiting Professor. In 1990 Dr. Wright joined the faculty at the University of North Carolina at Chapel Hill. Dr. Wright was named the James Bawden Distinguished Professor and Chair in the Department of Pediatric Dentistry at the University of North Carolina. Dr. Wright's research has helped advance our understanding of mineralized tissues and developmental defects of teeth and bone through his characterization and study of human hereditary conditions. He has had research funding from the National Institutes of Health and other organizations for his genetics studies since 1987 and has published over 145 scientific manuscripts. His research has focused primarily on defining the phenotype and genotype relationships and a variety of craniofacial conditions such as amelogenesis and dentinogenesis imperfecta, the ectodermal dysplasia, and the tricho-dento-osseous syndrome. His most recent research includes investigation of the genes involved in tumorigenesis and specifically genes involved in odontogenic tumors such as ameloblastoma. Dr. Wright lectures nationally and internationally on a variety of topics ranging from pediatric dentistry to genetics. He continues to participate in private practice where he treats a diverse patient population including a spectrum of special needs patients.



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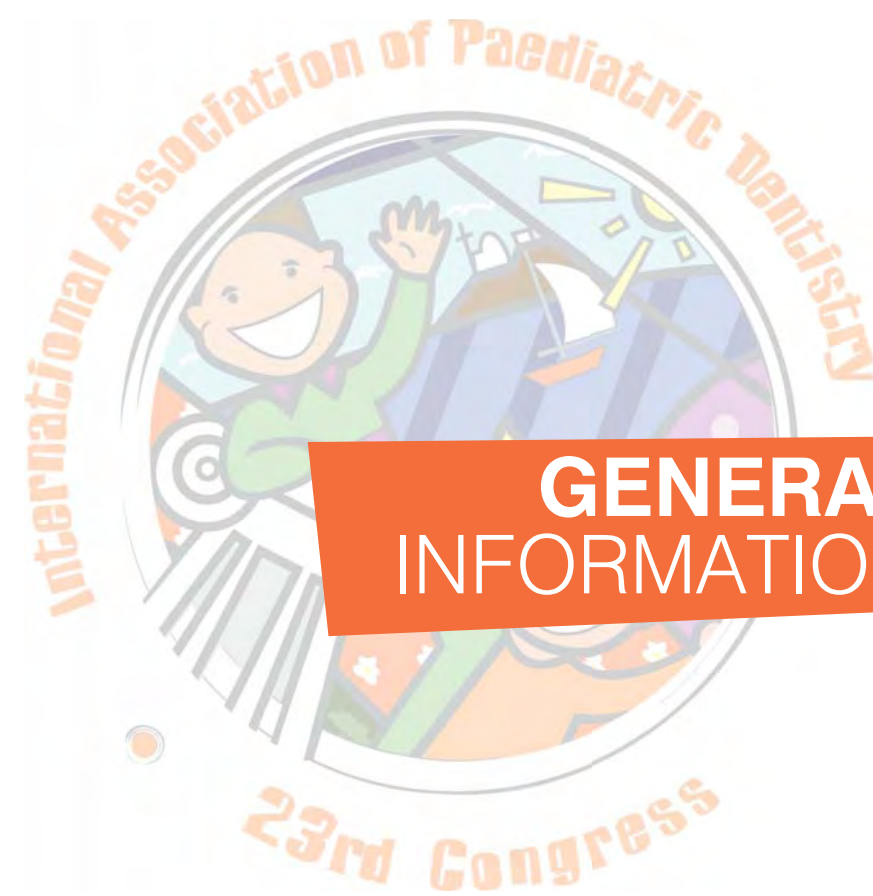
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## About Greece

### Climate

The climate in Greece is mostly dry and temperate. In Athens, Southern Greece and the islands, the climate is typical Mediterranean with warm and dry summers and mild winters. Average temperature during June ranges between 22-30°C (72-86°F)

### Currency

Greece's currency is the Euro (€). All major credit cards are widely accepted in Greece.

### Population

- Total population in Greece: 10.3 million
- Athens metropolitan area (Attica region): 3,756,607 persons according to the 2001 census

### Language

Modern Greek is the official language. English is widely spoken as a second language by the majority of Greeks, while French and German are also spoken at a good extent.

### Time

Greece is two (2) hours ahead of Greenwich Mean Time, seven (7) hours ahead of Eastern Standard Time and an hour (1) ahead of Central European Time.

### Health

Emergency treatment is free of charge to all Greeks or foreigners, in State owned and University hospitals. Athens also has private hospitals affiliated with national and international institutions.

### ATMs

ATMs are widely available in Greece for Master or Visa cardholders.

### Banks

Banks are open from Monday to Thursday, 8:00-14:00 hrs and on Friday, 8:00-13:30 hrs; on Saturdays and Sundays they are closed. Central branches of some banks may be found open until 20:00 daily and from 10:00 to 16:30 on Saturdays. For further details please consult your hotel concierge.

### Shopping Hours

Major outlets are open from Monday to Friday, 09:00-21:00 and Saturday, 09:00-18:00. Small shops are open on Monday & Wednesday, 09:00-15:30, Friday, 09:00-20:30 and Saturday, 09:00-15:30.

### Electricity

Electricity is 220 V/50 Hz. Plugs are the standard continental (DIN) type with two round pins.

### Dialing codes

The international access code for Greece is +30. The outgoing code is 00 followed by the relevant country code (e.g. 001 for the USA or Canada, 0044 for the United Kingdom).

### Tipping

Tipping is not compulsory but is quite usual in Greece.

## About Athens

Athens has a lot to offer to its visitors. There are many things to see not only at the historical center but also a few kilometers away.

You can start from the commercial heart of the city, Omonoia Square, which combines modern and neoclassical architecture and walk up Panepistimiou (University) street passing by the National Library, the University of Athens, the National Academy, the Catholic Cathedral and many other impressive buildings of the Modern Greek era. By then, you should have reached Syntagma (Constitution) Square, one of the busiest places of Athens, where the Parliament is located. You will know you are in the right place when you see the Evzones -the presidential guard- in front of the monument of the Unknown Soldier.

On your right is Amalias Avenue where you will find the gate of the National Garden. Walk among typical and rare plants and trees until the Zappeion (Conference and Exhibition Hall), appears before you. A few meters away stands the Panathinaikon Stadium, the cradle of the Modern Olympic Games (1896).

On your way to the Acropolis, stop to visit the Corinthian pillars, remains of Zeus' temple and the Arch of the Emperor Hadrian, where the pedestrian street, Dionisiou Aeropagitou, begins to lead you to the Odeon of Herodus Atticus at the foot of the Acropolis Sacred Rock. Walking up the hill, you will enter the site through Propylea and visit the Parthenon, the most important and characteristic monument of the ancient Greek civilization which still remains its international symbol, the Temple of Athena Nike, the Erechtheion and of course the New Acropolis Museum uniting collections that were formerly dispersed in multiple institutions in an exhibition space of more than 14,000 square meters. With these pictures in mind, walk downhill to Plaka, the oldest neighborhood of Athens, and taste the typical Greek cuisine in one of the traditional tavernas or have a frappe (iced coffee) in one of the numerous cafes.

Other highlights you should not miss:

- The Archaeological Museum
- The Museum of Cycladic Art
- The Benaki Museum
- The National Gallery
- The Byzantine Museum
- The Frissiras Museum of Contemporary Greek and European Painting
- The Lycabettus Hill
- Monastiraki
- Thiseion
- Faliro-Glyfada coastline by tramway

For an Athenian night out, choose between the hip areas of Gazi, Psirri, Metaxourgio, Monastiraki, Thiseion and Kolonaki.

Detailed information and further assistance will be provided to the congress delegates at the Hospitality booth (level 0), close to the Congress Secretariat.





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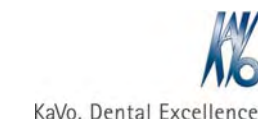
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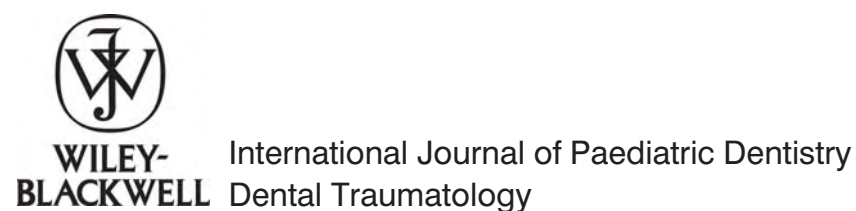


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## Exhibitors

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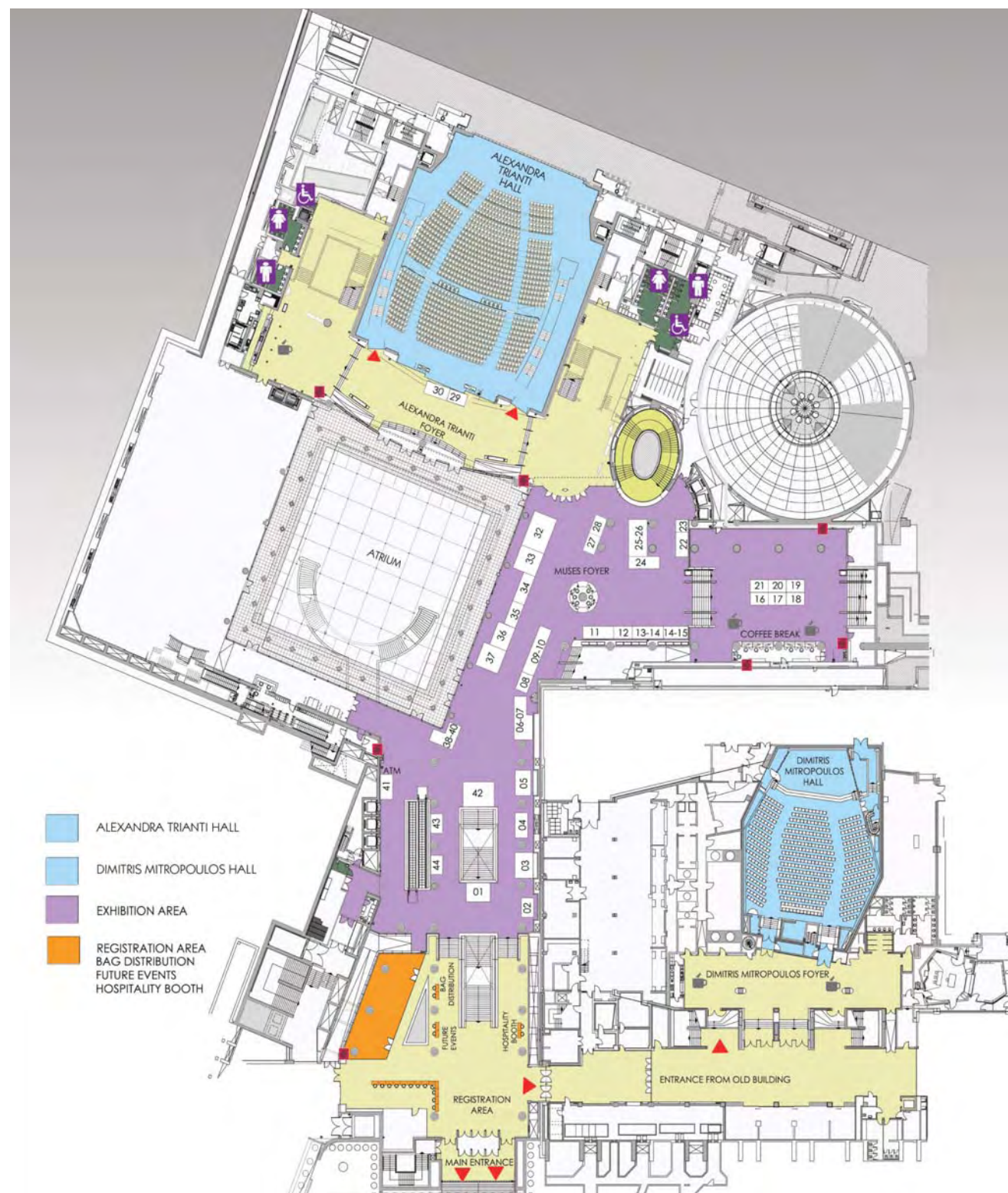
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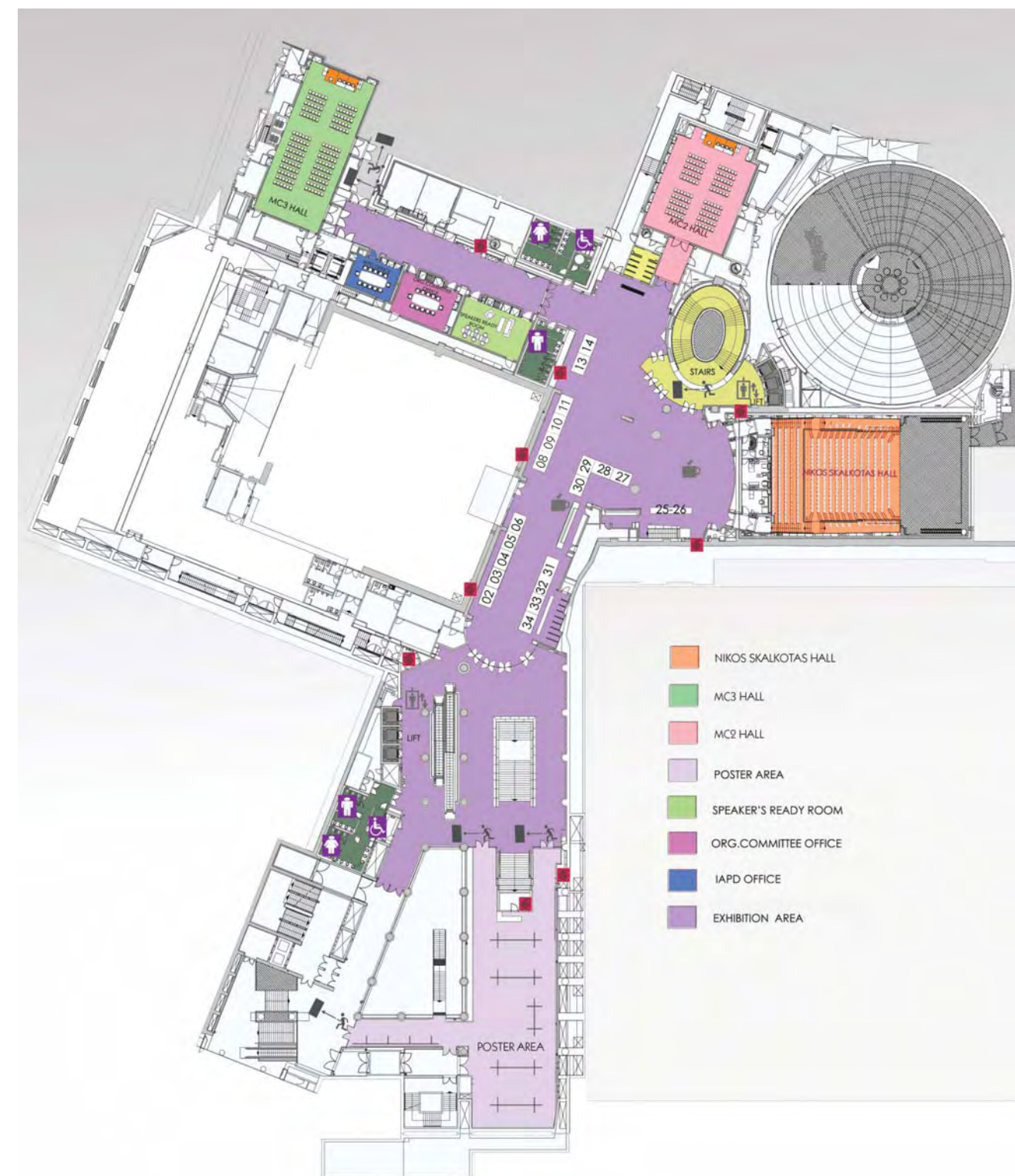
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Level 0



## Exhibition Plan

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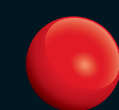
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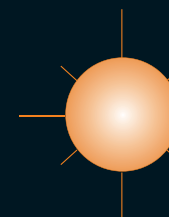
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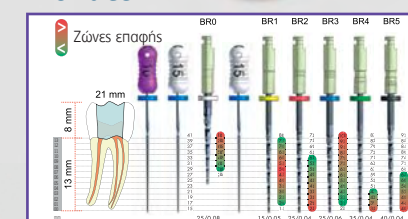


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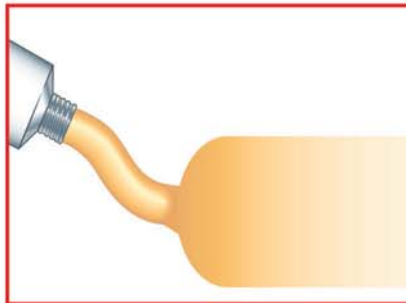


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<sup>1</sup> Marinho VCC et al.: Fluoride varnishes for preventing dental caries in children and adolescents. The Cochrane Library, issue 2, 2002

<sup>2</sup> Gaffar A: Treating hypersensitivity with fluoride varnishes. Compend Contin Educ 1998; 19: 1089-97

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