The 22nd Congress of the International Association of Paediatric Dentistry

in Munich (Germany)
on June 17–20, 2009

‘Pinnacles in Paediatric Dentistry’
A milestone of in-office fluoridation since 40 years

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Colgate Duraphat® Varnish for caries prevention and hypersensitivity relief

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German Association of Paediatric Dentistry
Deutsche Gesellschaft für Kinderzahnheilkunde

PROGRAM

The 22nd Congress of the International Association of Paediatric Dentistry

June 17 – 20, 2009
Munich

Congress President
Prof. Dr. Reinhard Hickel
NEW Icon® – the innovative caries treatment without drilling.

For incipient caries even a minimally invasive therapy will sacrifice healthy hard tissue. Icon now offers a revolutionary solution: First, the enamel surface is prepared with a specially developed HCl gel. The pore system is then filled, stabilized and sealed with a light-curing resin, thus arresting caries progression and preserving healthy hard tissue – without drilling.

Icon is indicated for incipient caries with non-cavitated enamel and a radiological lesion progression into the outer third of the dentine. Treatment sets are available for proximal and smooth surface applications.

DMG. A smile ahead.

More information at www.drilling-no-thanks.com
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WORDS OF WELCOME
Message of Greeting

The 22. Congress of the IAPD is particularly welcome in Munich. For once, it will find here a highly qualified forum which could not be better. In fact, our city is a leading international center of medical research and science with famous dental institutions ranking among the medically best supplied areas in all of Germany. Munich has a close relationship and multi-faceted links with dental, mouth and jaw-bone surgery even as a significant high-tech location with a strong presence in medical engineering, bio-technology and materials research.

However, these reasons are not only ones why the dental faculty likes to come to Munich. The dental faculty is also fond of the atmosphere and Munich's attractions as a metropolis of fine arts and culture, as a modern congress city with first-class touristic infrastructure and as an open and hospitable place of international encounters.

I therefore take great pleasure in expressing my best wishes for a successful congress 2009 in the Gasteig. Likewise, I wish to extend a cordial welcome to all participants and guests here in Munich.

Christian Ude
Mayor of Munich
Dear Colleagues,

In the name and on behalf of the Chamber of Dentists in the Federal Land of Bavaria, I should like to extend a cordial welcome to the participants to the 22nd Congress of the International Association of Paediatric Dentistry, IAPD, and to the 16th annual convention of the German Society for Paediatric Dentistry. It is for the first time that the international IAPD congress is held in Germany. It is a particular honor for the Bavarian dentists that the organizers have selected Munich as the place of the event. In view of its importance and international character, the Congress may be expected to become a highlight in continuing education and training in paediatric and juvenile dentistry.

The program of the Congress includes lectures and papers on topics such as nutrition and nutritional disorders, molar incisive hypo mineralization, early infantile caries, dental traumatology, endodontontology, orthodontics as well as caries diagnostics, prevention and therapy – which documents the wide spectrum in paediatric and juvenile dentistry.

The Fourth German Oral Health Study by the German Institute of Dentists is an impressive evidence of the great effects of preventive dentistry. Affection by caries is no longer a horror topic – among children, in particular – but rather quite the contrary. The disappearance of caries on account of comprehensive prevention is a story of success which presumably hardly anybody would have anticipated only a few years ago.

But despite the success achieved in group prophylaxis for children, which is a focal commitment supported by the Working Committee for Dental Health in the Federal Land of Bavaria, affection by caries now as before requires special attention. It is a particular concern to begin the care of the children as soon as possible, with inclusion of the mother’s pregnancy as the early stage.

For ten years, the Bavarian Chamber of Dentists has relied on the Dental Children’s Certificate as an efficient instrument in prophylaxis, in particular for infants. The Dental Children’s Certificate documents the aspects focal in oral and dental health of children. It contains the schematics of the respective examination as a form to be filled in by the dentist. These examinations begin as early as during the mother’s pregnancy, specifically at the commencement and the end of gravidity. Then follow the dental explorations of the child’s oral cavity up to the school entrance age. Since the first edition of the Dental Children’s Certificate in 1999, almost 400,000 copies have been circulated.

The Bavarian Chamber of Dentists is convinced of the necessity of advanced efficient paediatric dentistry. Qualified continuing education and training in this field is to be welcomed and recommended to any dentist. The work of the scientific specialized associations is indispensable for the progress in this discipline. It is equally our opinion that any dental practitioner must be committed to the special role as “family dentist” in caries prevention – as the first contact for parents and in the treatment of their children.

I wish a great deal of success to the Congress and an agreeable stay in the capital of Bavaria to all participants.

Michael Schwarz
President of the Bavarian Chamber of Dentists
Greetings

In my function as Bavarian State Minister of Sciences, Research and the Arts and as patron of this event, I am highly pleased to welcome you to the 22nd Congress of the International Association of Paediatric Dentistry (IAPD) and to the 16th Annual Meeting of the German Association of Paediatric Dentistry in Munich.

At this biannual convention scientists as well as dentists from the private practice from all over the world meet for an exchange of knowledge and expertise. National and international highly ranked experts focus on the oral health of children. The subjects range from nutrition habits and their effects on dental health to caries prevention and up to date diagnostics and therapies.

It is our concern to encourage the oral health of our children as early as possible. Special programs such as those initiated by The State Chamber of Dentists of Bavaria show impressive results. However, it is primarily the exchange of know-how across borders which makes further progress in Paediatric Dentistry possible and which supports collaboration in international scientific projects. In Munich, we have the largest University Dental School of Germany, and our students can directly profit from the results of the congress for their training.

I would like to express my deep gratitude to the organizers of the congress, Ms. Professor Fuks, Mr. Professor Hickel and Mr. Professor Schiffner! I wish all the participants stimulating discussions and a pleasant stay in Munich, our state capital.

Munich, March 2009

Dr. Wolfgang Heubisch
Bayerischer Staatsminister
für Wissenschaft, Forschung und Kunst
Pediatric Dentistry at its best

It is the challenge, to make the 22. Congress of the International Association of Pediatric Dentistry (IAPD) in Munich an unique success. Therefore it is my pleasure and a great honor to welcome this important international meeting in Munich, one of the most beautiful cities in Germany! The privilege of being your host is even bigger as this event only takes place every other year.

Being the President of the German Society of Dental, Oral and Craniomandibular Sciences, that is celebrating its 150th anniversary this year, I am also proud to host an international scientific event with such an outstanding value in means of persons and issues you chose for this congress.

The straight development of Pediatric Dentistry in Germany has lead to a success in preventing children from dental harm. Latest statistics show that German dentistry has reached an international top ranking in dental health of children and young adults. These efforts receive an important confirmation and new impulse for the future with this congress in Munich. This meeting is an excellent forum for international exchange between scientists, specialists and general practitioners and will deal with future trends and new developments.

Munich, Capital of Bavaria, is one of the economic centers of Germany. Munich Universities and the surrounding medical and dental Institutes are well known in national and international sciences. Besides, in one hour you can be in the Alps skiing or enjoy the countryside right outside of the city where nice lakes and much green are waiting for you.

The City of Munich itself is also worth seeing, you will find lots of historical places as well as the famous English Garden, that invites for a break. To get a glimpse of Bavarian way of life I recommend the visit of a Bavarian “beer garden”.

I wish you a great stay in Munich enjoying scientific discussion, meeting colleagues and friends and getting an impression of German hospitality.

Prof. Dr. Thomas Hoffmann
President
German Society of Dental
Oral and Craniomandibular Sciences
Dear colleagues,

It is a pleasure to welcome you to Munich for the 22nd Congress of the International Association of Paediatric Dentistry.

This biannual Congress is an important event in paediatric dentistry in which scientists, specialists and general practitioners from all over the world can exchange and deepen their knowledge. The Congress will provide first hand information on new developments, current and future trends. The venue sets the stage for science, clinical practice and industry to unite in professional advancement.

More than 50 invited international speakers, more than 500 posters and oral presentations, much more than 1000 participants from all over the world show that paediatric dentistry is not in a crisis. The scientific program will be divided into several main lectures, oral sessions and poster demonstrations on all congress days and in addition, some workshops will be organised. The Congress includes a wide range of contemporary topics in paediatric dentistry, for example nutrition and nutritional disorders, MIH, early childhood caries, dental traumatology, endodontology, orthodontics as well as caries diagnostics, prevention and therapy. Thus, every participant can compose their own Congress program. Reflecting the title of the congress „Pinnacles in Paediatric Dentistry“, all speakers were chosen in recognition of their exceptional achievements in basic and/or clinical research.

The Congress city Munich – the capital of Bavaria near the Alps – and its surrounding regions offer boundless opportunities for those who love exciting cosmopolitan flair, cultural life, history and beautiful countryside. You should use the opportunity to discover some interesting places of Munich and Bavaria.

We wish all participants an interesting congress and an enjoyable stay in Munich.

Prof. Reinhard Hickel
Congress President
Dean of Dental School
University of Munich

Prof. Christian Hirsch
President of the
German Association of Paediatric Dentistry

Prof. Dr. Reinhard Hickel
Congress President / Tagungspräsident

Prof. Dr. Christian Hirsch
President of the German Association of Paediatric Dentistry

Präsident der Deutschen Gesellschaft für Kinderzahnheilkunde
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The 22nd Congress of the International Association of Paediatric Dentistry

S1 - S8: Alle S-Bahnen, auch Flughafenlinie (All rapid transport trains including airport line)

U-Bahn U4/U5 (Subway system lines U4/U5)

Tram 18, Tram 15, Tram 25

Parkplatz (Parking)

Gasteig München GmbH
Rosenheimer Str. 5
81667 München

Telefon 089.480 98-0
Telefax 089.480 98-1000
E-Mail zentral@gasteig.de
Hilton Munich City Hotel

Ballroom
Oral lectures /
Lunch & Learn

Foyer Ballroom
Poster Viewing

Entrance

Poster Presentations

14 The 22nd Congress of the International Association of Paediatric Dentistry
Please visit the following companies in the industrial exhibition:

Booth No

#21  Aktion zahnfreundlich e.V.
www.zahnmaennchen.de

#14  APW Akademie Praxis und Wissenschaft
www.apw-online.com

#27  ATL Businesscare Wirtschaftsprüfer
     Steuerberater – Rechtsanwälte
www.atl-businesscare.de

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www.dci-dental.com

#29  Deutsche Gesellschaft für Zahnärztliche Hypnose e.V.
www.dgzh.de

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EAPD
www.eapd.gr

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#03  Fachlabor Dr. W. Klee GmbH
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#11a Fackler & Wagenbauer
     Fachbuchhandlungen GmbH

#32  FCSM – Förderkreis Clinica Santa Maria e. V.
www.fcsm.org

#31  frasaco GmbH
www.frasaco.de

#01  GABA International AG
www.gaba.com

#13  GC GERMANY GmbH
www.gcgermany.de

#23  GRODENTA B. V.
www.grodenta.nl

#18  Henry Schein Dental Depot GmbH
www.henryschein.de

#22  Hu-Friedy Mfg. Co., Inc.
www.hu-friedy.de

#11  Ivoclar Vivadent AG
www.ivoclarvivadent.com

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www.kavo.com

#06  KinderDent GmbH
www.kinderdent.com

#04  Kuraray Europe GmbH
www.kuraray-dental.eu

#30  L. Bodrik KG Therapiehandpuppen
www.kumquats.de

#20  Milestone Deutschland GmbH
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#28  Oral-Prevent GmbH
www.oral-prevent.de

#16  Philips Oral Health Care Europe
www.sonicare.com

#24  Procter & Gamble GmbH
www.de.pg.com

#10  SciCan GmbH
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www.shofu.de

#05  SS White Burs, Inc.
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www.dmg-dental.com

3M ESPE AG
www.3mespe.com

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www.kavo.com

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www.heraeus-kulzer.de

KinderDent GmbH
www.kinderdent.com

SciCan GmbH
www.scican.com

IME Informationskreis Mundhygiene und Ernährungsverhalten
www.imeonline.de

Kuraray Europe GmbH
www.kuraray-dental.eu

SS White Burs, Inc.
www.ssswhiteburs.de

Ivoclar Vivadent AG
www.ivoclarvivadent.com

Philips Oral Health Care Europe
www.sonicare.com
Poster Presentations:
For poster sessions P01 to P15, posters will be viewed first and discussed in a room nearby afterwards. All posters which are allocated to the sessions P16 to P22 (case reports) will be discussed and moderated at the posters directly.
## Wednesday (June 17, 2009)

<table>
<thead>
<tr>
<th>Time</th>
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<tr>
<td>10:00 – 12:00</td>
<td>Gasteig Carlton Orff Hall</td>
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<td>Gasteig Kleiner Konzertsaal</td>
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<tr>
<td>16:00</td>
<td>Registration at the Gasteig Convention Centre &amp; Presentation Check-In</td>
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<td>18:00</td>
<td>Opening Ceremony at the University</td>
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## Thursday (June 18, 2009)

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<td>Hilton Hotel (von Weber / Orff / Reger)</td>
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<td>09:00 – 10:30</td>
<td>P01 Poster Viewing</td>
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<td>P02 Poster Viewing</td>
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<td>P03 Poster Viewing</td>
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<tr>
<td>10:30</td>
<td>M1 Eating disorders and Obesity</td>
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<td>O01 Oral Session Cariology 1</td>
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<td>D01 Oral Session Endodontics</td>
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<td>O02 Oral Session Cariology 2</td>
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<td>D02 Oral Session Special Needs Patients 1</td>
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<td>D04 Oral Session Special Needs Patients 2</td>
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<td>11:00 – 12:30</td>
<td>M2 Nutrition &amp; Erosion</td>
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<td>O03 Oral Session Cariology 3</td>
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<td>D03 Oral Session Dental Materials 2</td>
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<td>O04 Oral Session Dental Materials 1</td>
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<td>D05 Oral Session Dental Anomalies 1</td>
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<td>D06 Oral Session Dental Anomalies 2/Syndromes &amp; Genetics</td>
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<td>D07 Oral Session Dental Anomalies 2</td>
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<tr>
<td>12:00</td>
<td>Lunch at the Exhibition Area (Gasteig)</td>
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<td>P04 Poster Viewing</td>
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<tr>
<td>14:00 – 15:30</td>
<td>M3 Global oral health care for children – a need for reorientation?</td>
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<td>Sponsor: Colgate</td>
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<tr>
<td>15:30</td>
<td>Afternoon Break</td>
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<td>16:00 – 17:30</td>
<td>M4 Molar Incisor Hypomineralisation (MII) – a challenge for diagnosis and treatment</td>
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<td>18:30</td>
<td>Reception by the Bavarian State Government at the Munich Residence</td>
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### Saturday (June 20, 2009)

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<td>P20 Poster Viewing</td>
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<td>09:00 – 10:30</td>
<td>Gasteig</td>
<td>M13 Caries Infiltration Technique Sponsor: DMG M14 Timing of orthodontic intervention and early orthodontic treatment M13 Caries Infiltration Technique Sponsor: DMG P20 Case reports O19 Oral Session Prevention 1 O22 Oral Session Dental Anxiety &amp; Sedation 1 Sponsor: 3M Espe</td>
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<td>10:30</td>
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<td>P21 Poster Viewing</td>
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<td>11:00 – 12:30</td>
<td>Gasteig</td>
<td>M13 Early Childhood Caries 1 Sponsor: GABA International M16 Interdisciplinary treatment approaches for patients with syndromes M13 Early Childhood Caries 1 Sponsor: GABA International P21 Case reports P20 Oral Session Prevention 2 O23 Oral Session Dental Anxiety &amp; Sedation 2 P14 Poster Session Cariology 1</td>
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<td>12:30</td>
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<td>Lunch &amp; Learn KaVo</td>
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<td>13:30</td>
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<td>P22 Poster Viewing</td>
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<td>15:30</td>
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<td>Afternoon Break</td>
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<td>15:45</td>
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<td>Closing Ceremony</td>
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<td>17:45</td>
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<td>Congress Dinner at Hilton Park Hotel</td>
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Gasteig Library Hall / Bibliothekssaal

10:00 – 12:00

Bright Smile Bright Future Finalist Session (6 Poster)

Main Lectures

Gasteig Carl Orff Hall / Carl Orff-Saal

Thursday (June 18, 2009)

M1 Eating disorders and obesity

09:00 A. Zeeck (GER) Eating disorders in children and adolescents
09:45 A. Agouropoulos (GRE) Obesity in childhood and oral health
10:30 Morning Break, Opening of the Exhibition

M2 Nutrition & Erosion

Sponsor: Colgate Palmolive Europe SARL

11:00 A. Lussi (SUI) Etiology, Diagnosis and Epidemiology
11:45 C. Ganss (GER) Dental Erosion
12:30 Lunch at the Exhibition Area (Gasteig)

M3 Global oral health care for children – A need for reorientation?

Sponsor: Colgate Palmolive Europe SARL

14:00 W.v. Palenstein Heldermann (NED) Oral health problems in children – a global analysis
14:30 C. Holmgren (NED/FRA) Reorientating oral health care for children – building from the basics
15:00 B. Monse (GER/PHI) Oral health within general health – the “Fit for School” program in the Philippines
15:30 Afternoon Break

M4 Molar Incisor Hypomineralisation (MIH) – a challenge for diagnosis and treatment

16:00 B. Jälevik (SE) Etiology, Diagnosis and Epidemiology
16:45 I. Mejare (SE) MIH – present knowledge about its cause and effective therapy
18:30 Reception by the Bavarian State Government

Wednesday (June 17, 2009)

‘Pinnacles in Paediatric Dentistry’ 23
Oral session – Cariology 1

09:00  Salivary mutans streptococci and lactobacilli associated with caries patterns in primary dentition  
C. L. TSAI¹ & Y. H. YANG²  
¹Department of Pediatric Dentistry, Chang Gung Memorial Hospital, Kaohsiung Medical Center; ²Graduate Institute of Oral Health Sciences, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan

09:11  Factors influencing caries in second primary molars of Dutch 5-year-olds  
M. E. C. ELFRINK¹, A. A. SCHULLER², J. S. J. VEERKAMP¹, K. L. WEERHEIJM¹ & H. A. MOLL³  
¹Department of Cariology, Endodontology and Pedodontontology, ACTA, Amsterdam, The Netherlands  
²TNO Quality of Life, Leiden, The Netherlands  
³The Generation R Study Group and Department of Pediatrics, Erasmus Medical Centre - Sophia Children’s Hospital, Rotterdam, The Netherlands

09:22  Risk factors for rampant caries in children from South Western Nigeria  
M. O. UKPONG¹, A. C. SOWOLE² & A. KOLA-JEBUTU³  
¹Obafemi Awolowo University, Ile-Ife, Nigeria; ²Massey Children’s Hospital, Lagos, Nigeria; ³Obafemi Awolowo University Teaching Hospitals Complex, Ile-Ife, Nigeria

09:33  Caries in small children in Suriname: the use of molasses and honey for ‘oral hygiene purpose  
M. R. GHOLAM GHAHROI² & W.E. VAN AMERONGEN  
Dept. Cariology, Endodontology, Pedodontontology, ACTA, Amsterdam, The Netherlands

09:44  Family parameters related to oral health and caries development in preschool children  
S. GIZANI, A. AGOUROPOULOS, I. VASILOUDIS & L. PAPAGIANNOULIS  
Dept of Paediatric Dentistry, Dental School, University of Athens, Greece

09:55  Mother-child transmission of Streptococcus mutans in a group of Turkish children  
S. PEKER, B. KARGUL & I. TANBOGA  
Marmara University Dentistry Pediatric Dentistry Dept, Istanbul, Turkey

10:06  Prevalence of dental caries in children with cleft lip and/or palate  
P. ARANGANNAL  
Department of Pedodontics, Sree Balaji Dental College and Hospital, Chennai, Tamilnadu, India

Oral session – Cariology 2

11:00  Investigation of dental health indices and caries associated microflora in children with cleft lip and palate  
N. HUROGLU & I. TANBOGA  
Pediatric Dentistry Department Dentistry Faculty of Marmara University, Istanbul, Turkey

11:11  Avoidance behaviours as risk indicators for dental caries in 5 year-old children  
T. I. WIGEN, E. SKARET & N. J. WANG  
Institute of Clinical Dentistry, Department of Paedodontics, University of Oslo, Oslo, Norway

11:22  Oral biofilm activity, culture testing and caries experience in school children  
K. B. HALLET¹ & P. K. O’ROURKE²  
¹Royal Children’s Hospital; ²QLD Institute of Medical Research, Brisbane, Australia

11:33  Plaque mutans streptococci levels on glass ionomer restorations with and without chlorhexidine  
E. EDEN¹, F. ERTUGRUL¹, R. ELTEM², Ö. İMAMOĞLU² & S. IMAZATO³  
¹Ege University, School of Dentistry, Department of Pedodontics, Izmir Turkey; ²Ege University, Science Faculty, Basic and Industrial Microbiology, Izmir, Turkey; ³Osaka University, Osaka, Japan

11:44  Black stain: microbiological quantification and salivary buffer capacity  
B. LEYTON¹,², M. CERECEDA², A. ORMENO² & M. BITTNER¹  
¹Laboratorio de Microbiologia y Biotecnologia Oral, Departamento de Ciencias Biologicas, Universidad Andres Bello; ²Asignatura de Odontopediatria, Facultad de Odontologia, Universidad Andres Bello

11:55  Effect of sucrose concentration on cariogenicity of S. mutans in s-ECC  
W. ZHAO & W. LI  
Dept of Pediatric Dentistry, Guanghua School of Stomatology, Sun Yat-sen University, Guangzhou, China

12:06  Role of IL-1β, IL-1α and IL-10 on the colonization of Streptococcus mutans  
D. COGULU¹, Y. OZDEMIR¹, N. KUTUKCULER² & C. ERONAT¹  
¹Ege University School of Dentistry, Department of Pedodontics; ²Ege University School of Medicine, Department of Pediatric Immunology, Izmir, Turkey
Cariogram profiles for 2–6 year-old Greek children
K. KAVVADIA1, R. PAPADOPOULOU1, S. GIZANI1, L. PAPAGIANNOULI1 & S. TWETMAN2
Departments of Paediatric Dentistry, Dental School, Universities of 1Athens and 2Copenhagen

O03 Oral session – Cariology 3
14:00 Dental caries and dental care index in children with type 1 diabetes
A. TAGELSIR1, R. CAUWELS1, S. VAN AKEN2, J. VANOBBERGEN3 & L. MARTENS1
1Dept. Paediatric Dentistry & Special Care; 2Dept Pediatrics; 3Dept. Community Dentistry and Dental Public Health, Belgium

14:11 Restorative Care Index of 12-19 year-old school children in Ibadan, Nigeria
O. O. O. DE NYDE1 & D. M. AJAY1
1Department of Child Oral Health; 2Department of Restorative Dentistry, Faculty of Dentistry, University of Ibadan, Nigeria

14:22 The validity and reproducibility of bitewing radiographs and a laser fluorescence device
C. DEERY1, Z. J. NUGENT2, D. N. J. RICKETTS3 & L. SHOAIB4
1Dept of oral Health and Development, School of Clinical Dentistry, University of Sheffield, Sheffield UK; 2Epidemiology & Cancer Registry CancerCare Manitoba, Winnipeg, Canada; 3Restorative Dental Care & Clinical Dental Sciences, Dundee Dental Hospital and School, University of Dundee, UK; 4Dept of Children's Dentistry and Orthodontics, University of Malaya, Kuala Lumpur, Malaysia

14:33 X-Ray Microtomography study of dentine remineralisation after caries removal by two techniques
F. S. L. WONG, M. AHMED & G. R. DAVIS
Barts and The London Dental School, Queen Mary University of London, Centre for Oral Growth and Development, London, UK

14:44 Association of oral hygiene and dental caries status in children affected with β-Thalassemia Major
S. NAMINENI1 & D. DOSHI²
1Pediatric Dentistry, Sri Sai College of Dental Surgery, Kothere pally, Vikarabad; 2Senior Lecturer, Community Dentistry, Army College of Dental Sciences, ACDS Nagar, Secunderabad, India

14:55 Snacking habits, dental caries and associated factors in urban Nigerian children
O. O. ORENGA
Department of Child Dental Health, College of Medicine, University of Lagos, Lagos, Nigeria

15:06 Association between caries and body mass index
R. DALY1, S. GIBSON2, G. FROST3 & M. DUGGAL1
1Department of Child Dental Health, University of Leeds, Leeds, UK; Sig-Nurture Nutrition Consultants, Guildford, UK; 2Department of Nutrition, Imperial College, London, UK

O04 Oral session – Cariology 4
16:00 Influence of application time on caries infiltration in primary teeth
S. PARIS1, A. J. CHATZIDAKIS2 & H. MEYER-LUECKEL1
1Clinic for Operative Dentistry and Periodontology, School of Dental Medicine, Christian-Albrechts-Universität zu Kiel, Germany; 2Department of Prosthetic Dentistry, University School of Dental Medicine, Charité Centrum 3, Charité-Universitätsmedizin Berlin, Germany

16:11 Influence of Operator/assistant-experience on the survival rate of proximal ART restorations
A. M. KEMOLI1 & W. E. VAN AMERONGEN2
1Dept. Paediatric dentistry/Orthodontics, University of Nairobi, Nairobi, Kenya; 2Dept. Paedodontology, ACTA, Amsterdam, The Netherlands

16:22 Atraumatic restorative treatment in children up to 3 years: three-year study
N. V. BIDENKO, J. M. TRACHUK & L. O. KHOMENKO
Department of Pediatric and Preventive Dentistry, the National O.O. Bogomolets Medical University, Kyiv, Ukraine

16:33 Antimicrobial efficacy of a newly developed ‘Caries Removing Agent’
K. GILHOTRA & P. SUBRAMANIAM
Department of Pedodontics and Preventive Dentistry, The Oxford Dental College, Hospital and Research Centre, Bangalore, India

16:44 The effect of ozone on inhibition of demineralisation of enamel and dentine in situ
A. NIKOLOPOULOU, J. F. TAHAHSMESBI & M. S. DUGGAL
Paediatric Dentistry, Leeds Dental Institute, Leeds, UK
Biocompatibility testing of a novel anti-caries peptide (StN21)
Queen Mary University of London, Barts and the London School of Medicine and Dentistry, Institute of Dentistry, Turner Street, London, UK

Frequency of fluoridated milk to re-mineralize artificial carious lesions
K. Ongtengco, R. P. Anthanappa, A. Itthagarun & N. M. King
Paediatric Dentistry and Orthodontics, Faculty of Dentistry, The University of Hong Kong, Prince Philip Dental Hospital, Pokfulam, Hong Kong SAR, China; Paediatric Dentistry, School of Dentistry and Oral Health, Griffith University, Australia

Treatment strategies for occlusal caries lesions in children and adolescents
T. R. Andersen, K. D. Møller, M. K. Borum, S. Pilemand & V. Qvist
Public Dental Health Service, Hoersholm, Hilleroed, Hoeje-Taastrup and Allerød municipalities, Dental School, University of Copenhagen, Denmark

Dental implant in cleft palate gap
P. Kriz, M. Seydlova & T. Dostalova
Charles University, 2nd Medical School, Department of Paediatric Stomatology, Prague, Czech Republic

Using a storybook to prepare autistic children for a dental examination
N. Cross & D. Fung
Royal Hospital for Sick Children, Yorkhill, Glasgow, UK

A field day for the mentally challenged child
S. Er tug rul
Pedodontology, Faculty of Dentistry, University of Ege, Bornova/Izmir, Turkey

Dental care for patients who are unable to open their mouths
B. L. Nuusbaum & Z. Grunwald
University of Pennsylvania, School of Dental Medicine, Philadelphia, USA

Oral use of atropine eye drops in children with excessive drooling
J. Norderyd, K. Nilsson, G. Steinwall, J. Graf & A. Marcussen
National Oral Disability Centre, The Institute for Postgraduate Dental Education, Jönköping; Habilitation Centre, Ryhov County Hospital, Jönköping; ENT-clinic, University Hospital, Linköping; Maxillofacial Unit, University Hospital, Linköping, Sweden

Threaded acrylic cone to improve microstomia in severe recessive dystrophic Epidermolysis Bullosa
S. M. Kramer, J. E. Mellero, S. R. Porter, C. Mason & M. L. Calvert
Eastman Dental Institute, UCL; Great Ormond Street Hospital, London, UK

Development of clinical care pathway for looked after children in East Kent
T. Kandiah, M. Henderson & M. Hector
Paediatric Dental Department, Eastman Dental Hospital, UCLH; Eastern and Coastal Kent PCT Dental Service; Barts and The London School of Medicine and Dentistry, UK

The dental management of child patients with haemophilia – prospective study
K. Chleborád, K. Ginzełová & T. Dostalová
Department of Paediatric Stomatology, 2nd Medical School, Charles University, Prague, Czech Republic

Assessment of autistic patients from a special dental care service
E. Dursun, B. Gogly, F. Bdeouï & M. M. Landru
Department of Pediatric Dentistry, Faculty of Dental Surgery, Paris, France

Child abuse & neglect: is Indian dental professional aware?
N. Singh, A. Kohli, K. Mallikarjun & A. Kumar
Department of Pedodontics & Preventive Dentistry, Rama Dental College, Kanpur, U. P. India

Dental health in 12- to 17-year-old German athletes with mental disabilities
A. G. Schulte & A. Bisssar
Department of Conservative Dentistry, Heidelberg University, Heidelberg, Germany

Comparing quality of life in 4-7 year-olds with cleft-lip-palate with normative data
S. von Mackensen, D. Sagheri & B. Braumann
Institute and Policlincs for Medical Psychology, University Medical Centre Hamburg-Eppendorf, Hamburg; Department of Orthodontics, Cologne University Hospital, Cologne, Germany
Oral presentations Thursday (June 18, 2009)

11:44  The oral health of children considered high risk for infective endocarditis
       R. BALMER¹, G. BOORAS¹ & J. PARSONS²
       ¹Division of Child Dental Health, Leeds Dental Institute; ²Department of Paediatric Cardiology, Leeds General Hospital, Leeds, UK

11:55  The dental findings of coeliac disease in children
       S. ACAR¹, N. K. ERSİN¹, O. ONCAG¹ & S. AYDOGDU²
       ¹Department of Pediatric Dentistry; ²Department of Pediatric Gastroenterology Hepatology and Nutrition, Ege University, Izmir, Turkey

12:06  Oral health status of children with renal disorders
       P. SUBRAMANIAM & M. GUPTA
       Department of Pedodontics and preventive Dentistry, The Oxford Dental College, Hospital and Research Centre, Bangalore, India

12:17  Evaluation of parodontium and oral hygiene state in children with asthma
       M. MIELNIK-BŁASZCZAK & A. WĘCŁAWSKA-WASIURA
       Department of Paedodontics, Medical University of Lublin, Poland

O07  Oral session – Oral medicine & pathology 1

14:00  Oral lesions in children from 0 to 12 years old: ten years experience
       A. MAJORANA¹, F. AMADORI¹, P. FLOCCHINI¹, G. CONTI² & G. CAMPUS³
       ¹University of Brescia; ²University of Milano; ³University of Sassari, Italy

14:11  An unusual white lesion in a 10 month old child
       N. M. KING & R. P. ANTHONAPPA
       Paediatric Dentistry and Orthodontics, Faculty of Dentistry, The University of Hong Kong, Prince Philip Dental Hospital, Hong Kong SAR, China

14:22  Incidence of oro-facial infection in children at hospital in Jeddah, Saudi Arabia
       M. AL-MALIK
       Dental Department, Armed Forces Hospital, Jeddah, Saudi Arabia

14:33  Plaque index and gingival index as statistical references of the state of gingival
       L. KOSTADINOVIC, M. IGIC, O. TRICKOVIC-JANJIC & D. SURDILOVIC
       Department of Children and Preventive Dentistry, Medical Faculty, University of Nis, Serbia

14:44  The presence of Porphyromonas gingivalis and Aggregatibacter actinomycetemcomitans among the children with gingivitis
       M. IGIC¹, L. KESIC², J. MILASIN³, M. APOSTOLOVIC¹ & L. KOSTADINOVIC¹
       ¹Department of Children and Preventive Dentistry, Medical Faculty, University of Nis; ²Department of Oral Medicine and Parodontontology, Medical Faculty, University of Nis; ³Department of Human Genetics, School of Dentistry, University of Belgrade, Serbia

14:55  Treatment of mucosal infections of the oral cavity in Kyrgyzstan
       P.T. JOLUEVA & B. A. BAKIEV
       Department of c Dentistry, Kyrgyz State Medical Academy, Bishkek, Kyrgyz Republic

O08  Oral Session – Oral medicine & pathology 2

16:00  An unusual case of facial palsy
       A. FLETT, S. CAREW O’DONNELL, G. RICHARDSON, M. BOYLE & J. C. COOPER
       Department of Maxillofacial Surgery, Royal Liverpool Children’s NHS Trust, Alder Hey Hospital, Liverpool, UK

16:11  Psoriatic arthritis: temporomandibular joint involvement as the first articular phenomenon
       U. GARAGIOLA, V. CARLETTI, V. GHIGLIONE & G. FARRONATO
       Department of Orthodontics, School of Dentistry I, University of Milan, Italy

16:22  Salivary secretion rates after pediatric stem cell transplantation
       G. DAHLLOF¹, K. GARMING-LEGERT², M. HASSAN³, M. REMBERGER³ & O. RINGDÉN³
       ¹Departments of Pediatric Dentistry, ²Maxillofacial Surgery, ³Karolinska Institutet, Center for Allogeneic Stem Cell Transplantation, Karolinska University Hospital, Huddinge, Stockholm, Sweden

16:33  Evaluation of teledentistry learning object applied to anesthesia/exodontics for Pediatric Dentistry
       C. J. F. ALENCAR¹, L. W. CHAO², R. D. N. FONOFF¹, M. BONECKER¹ & A. E. HADDAD¹
       ¹Department of Orthodontics and Pediatric Dentistry - School of Dentistry; ²Department of Telemedicine – School of Medicine, São Paulo University, São Paulo, Brazil

16:44  Pseudotumours in children with Blood Dyscrasias
       N. YUNUS
       Paediatric Institute Kuala Lumpur Hospital, Malaysia

16:55  Early detection of Behcet’s Syndrome
       Department of Pediatric Dentistry, Yonsei University College of Dentistry, Seoul, Korea
Thursday (June 18, 2009)

Oral presentations

**Hilton Hotel Ballroom / Ballsaal**

**O09** Oral session – Dental anomalies 1

09:00 A novel approach for the management of an odontome
J. JAYARAMAN, R. P. ANTHONAPPA & N. M. KING
Paediatric Dentistry and Orthodontics, Faculty of Dentistry, The University of Hong Kong, Prince Philip Dental Hospital, Hong Kong SAR, China

09:11 Microabrasion techniques used by paediatric dentists on the UK specialist list
N. S. WILLMOTT & R. A. E. BRYAN
Department of Child Dental Health, Leeds Dental Institute, Leeds, United Kingdom

09:22 Generalised short roots and Vitamin D deficiency in absence of skeletal anomalies
A. C. O’CONNELL, L. FITZPATRICK & E. ROCHE
Division of Public and Child Dental Health, School of Dental Science, University of Dublin; Department of Paediatrics, University of Dublin; Adelaide and Meath incorporating The National Children’s Hospital, Dublin, Ireland

09:33 Hypodontia in a paediatric orthodontic population in Venezuela
A. C. MEDINA & M. G. MARTINEZ
Paediatric Dentistry Department, Universidad Central de Venezuela, Caracas, Venezuela

09:44 Evaluation of sealants retention in MIH molars, following different methods of application
N. A. LGYDAKIS, G. DIMOU & E. STAMATAKI
Paediatric Dentistry Dept, Community Dental Center for Children, Athens, Greece

09:55 Caries around Nickel Chromium adhesive cast onlays – an audit
C. M. GEORGOPOULOU, A. JOHNSON, P. F. ASHLEY & I. HOLROYD
Paediatric Dentistry, Eastman Dental Hospital, University College London Hospitals Foundation Trust, London, UK

10:06 Frequency of referrer- and child-reported teasing in relation to visible enamel defects
H. WONG, A. ABDUL-KARIM, Z. MARSHMAN, M. FARMAN & H. D. RODD
Department of Oral Health and Development, University of Sheffield, UK

10:17 Hypomineralization on deciduous and permanent teeth
S. RENHOF1, J. RENHOF1 & R. SCHILKE2
1Dental practice, Hannover; 2Department of Conservative Dentistry and Periodontology, MH Hannover, Germany

**O10** Oral session – Dental anomalies 2/Syndromes & Genetics

11:00 Secondary retained molar with clinical, radiological, histological, immunohistochemical and SEM studies
V. ROY1, J. JAMAIZ2 & S. GHOUL-MAZGAR1
1Ped. Dent., Paris, France; 2Department of Paediatric dentistry, Rabta Hospital, Tunis, Tunisia; Laboratory of Histology and Embryology, Dental Faculty of Monastir, University of Monastir, Tunisia

11:11 Unusual tooth malformation involving the permanent mandibular incisors. A case report
N. KOTSANOS, D. VELONIS & K. KEVREKIDOU
Department of Pediatric Dentistry, Aristotle University, Thessaloniki, Greece

11:22 Dental ankylosis and aplasia of successor teeth
K. SALEM1, B. MIRZAEE2 & T. MOHTAVIPOOR1
1Department of Pediatric Dentistry, Guilan University of Medical Sciences, Rasht, Iran; 2Private Practice; 3Department of Oral and Maxiofacial Radiology, Guilan University of Medical Sciences, Rasht, Iran

11:33 A child-centred approach to seeking children’s experiences of cleft lip and palate
M. J. HALL1, H. D. RODD1, B. J. GIBSON1, M. R. STERN1 & A. JAMES2
1Department of Oral Health and Development; 2Department of Sociological Studies, University of Sheffield, Sheffield, UK

11:44 Ectrodactyly with ectodermal dysplasia; dental and radiographic implications
G. M. WICOMB1, L. X. G. STEPHEN2 & P. H. BEIGHTON3
1VersTand junior Dental Practice, Utrecht, The Netherlands; 2Department Oral Medicine and Periodontology, University of the Western Cape, Cape Town, South Africa; 3Division of Human Genetics, University of Cape Town, Cape Town, South Africa

11:55 IgA secretory and Lysosyme concentration in whole saliva of patients with Prader Willi Syndrome
G. SCAGNET1, T. FERRARY1, M. ARMADA1, A. ALISIO1 & L. NICOLOSI1
1National University of Buenos Aires. Catedra Patologia y Clinica Bucodental Clapar 2; 2Quinquela Martin Hospital of Paediatric Dentistry, Government of Buenos Aires City, Argentina
A novel DLX3 mutation associated with tricho-dento-osseus syndrome (TDO)
P. NIEMINEN, P. L. LUKINMAA, H. ALAPULLI, J. PELTOLA & S. ALALUUSUA
Institute of Dentistry, University of Helsinki and Helsinki University Central Hospital, Helsinki, Finland

Lunch & Learn KinderDent

Cephalometric evaluation of soft tissue profile changes following functional therapy in Class II Division 1 patients
G. ESLAMI AMIRABADI1 & M. BIRIA2
1Department of orthodontics, dental school, Shahed university; 2Department of pedodontics, dental school, Shaheed Behesht Medical Sciences university, Tehran, Iran

Characteristics of impacted maxillary canines in southern Chinese children and adolescents
A. K. SAJNANI & N. M. KING
Paediatric Dentistry and Orthodontics, Faculty of Dentistry, The University of Hong Kong, China

Social judgements made by children in relation to orthodontic appliances
A. J. PATEL, H. D. RODD & P. E. BENSON
Department of Oral Health and Development, School of Dentistry, Sheffield, UK

Clinical and radiographical characteristics of maxillary canine impaction in a university clinic in Tehran
J. RAMEZANI & M. ORDOOBAZARI
Department of orthodontics, dental school, Shahid Beheshti University, Tehran, Iran

Clinical success of a new fixed space maintainer
S. GULEC1, M. C. DOGAN1, E. GURAY2 & C. SARITURK3
1Department of Paediatric Dentistry; 2Department of Orthodontics, School of Dentistry; 3Department of Biostatistics, School of Medicine, Cukurova University, Adana, Turkey

Isolation and characterization of dental pulp stem cells from natal teeth
E. KARAÖZ1, B. N. DOGAN2, A. AKSOY3, G. GACAR1 & S. AKYÜZ2
1University of Kocaeli, Stem Cell and Gene Therapies Research /Applied Center Turkey; 2University of Marmara, Departments of Paediatric Dentistry, Turkey

Mandibular phenotype in XLHED patients and Tabby model: CT and immunohistological analyses
F. CLAUSS1,2,3, M. SCHMITTBUHL2,3,4, H. LESOT1 & M. C. MANIÈRE1,2
1Department of Paediatric Dentistry, Dental Faculty, Strasbourg University, Strasbourg, France; 2Reference Center for Oral Manifestations of Rare Diseases, Dental Faculty, Strasbourg University, Strasbourg, France; 3INSERM Unit 977, Dental Faculty, Strasbourg University, Strasbourg, France; 4Department of Radiology, Dental Faculty, Strasbourg University, Strasbourg, France

Pre- and postnatal enamel formation of primary second molars in children with Familial Dysautonomia
U. ZILBERMAN1, S. ZILBERMAN2 & E. MASS1
1Pediatric Dental Clinic, Barzilai Medical Center, Ashkelon; 2Medical School, Hebrew University, Jerusalem, Israel

Mutations of the SH3BP2 gene in two families with Cherubism
E. B. TUNA1,2, T. SHIMIZU2, F. SEYMEN1, M. YILDIRIM1 & T. MAEDA2
1Department of Pedodontics, Istanbul University Faculty of Dentistry, Istanbul, Turkey; 2Department of Pediatric Dentistry, Nihon University School of Dentistry at Matsudo, Chiba, Japan

Oral health in 22q11-deletion syndrome; parental perspectives in a grounded theory study
G. KLINGBERG1, U. HALLBERG2 & S. ÖSKARSÖTTR1
1National Orofacial Resource Centre for Rare Disorders; 2Nordic School of Public Health; 3Dept. of Pediatrics, University of Göteborg, Gothenburg, Sweden

The genetic basis of a dentigerous cyst associated with a supernumerary tooth?
R. P. ANTHONAPPA, N. M. KING & A. B. RABIE
Paediatric Dentistry and Orthodontics, Faculty of Dentistry, The University of Hong Kong, Prince Philip Dental Hospital, Hong Kong SAR, China

Truncations of PAX9 and non syndromic oligodontia – an Indian perspective
V. KARTHIK1, K. S. NAGESH1, A. ANANTHARAJ1, P. PRAVEEN1 & R. PUJA2
1Dept. of Pediatric Dentistry, D. A. Pandu Memorial R. V Dental College & Hospital, Bangalore, India; 2Vittal Mallya Scientific Research Foundation, Bangalore, India

New mutation of PAX9 gene in a patient with hypodontia
J. X. ZHU, S. G. ZHENG & L. H. GE
Department of Pediatric Dentistry, Peking University School of Stomatology, Beijing, China
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<tr>
<td>09:00</td>
<td>Application of Mineral Trioxide Aggregate in achieving apical barrier in permanent teeth</td>
<td>S. ALBADRI &amp; F. D. JARAD</td>
<td>School of Dental Science, University of Liverpool, Liverpool, UK</td>
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<td>09:05</td>
<td>Clinical and radiographic evaluation of diode laser pulpotomy on human primary teeth: a 12 month follow up</td>
<td>G. ANSARI, M. VAHID GOLPAYGANI, I. CHITSAZAN &amp; R. FEKRAZAD</td>
<td>Dept of Pedodontics, Dental School, Shahid Beheshti University of Medical Sciences, Tehran, Iran</td>
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<td>09:10</td>
<td>Dental pulp tissue regeneration in mini-pig by deciduous dental pulp stem cells</td>
<td>Y. T. CHANG¹, B. S. LEE¹,²,³, Y. I. WANG³,⁴, H. H. CHANG³,⁴, &amp; G. F. HUANG³,⁴</td>
<td>¹Pediatric Dentistry, Graduate institute of Clinical Dentistry; ²Operative Dentistry; ³School of Dentistry; ⁴Pediatric Dentistry, National Taiwan University Hospital, Taipei, Taiwan</td>
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<tr>
<td>09:15</td>
<td>Effects of sodium fluoride on deciduous tooth pulp cells</td>
<td>Y. W. HAN¹, M. H. CHEN¹,²,³, G. F. HUANG¹, H. H. CHANG¹, &amp; Y.L. WANG²,³</td>
<td>¹Graduate Institute of Clinical Dentistry School of Dentistry; ²Department of Dentistry School of Dentistry; ³Department of Dentistry National Taiwan University Hospital, Taipei, Taiwan R.O.C.</td>
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<td>09:20</td>
<td>Comparison of rotary and manual instruments in canal preparation of primary molars</td>
<td>S. H. JAVADI NEJAD, M. ZAREJAHROMI &amp; A. MIRENAYAT</td>
<td>Department of Pedodontics Faculty of Dentistry, Islamic Azad University of Khorasgan, Esfahan, Iran</td>
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<td>09:25</td>
<td>Estimating the extent of mineralization in hard tissues of young permanent teeth</td>
<td>L. KISELNIKOVA &amp; V. ALPATOVA</td>
<td>Department of Ped. Dent, Moscow State University of Medicine and Dentistry, Russia</td>
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<td>09:30</td>
<td>Physical stability of different formulations of an endodontic iodoform-based paste</td>
<td>A. C. V. MELLO-MOURA¹, D. P. RAGGIO¹, M. A. NICOLETTI², A. C. GUEDES-PINTO², &amp; F. M. MENDES¹</td>
<td>¹Paediatric Dentistry Department; ²Pharmaceutical Sciences Department, University of São Paulo, São Paulo, Brazil</td>
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<td>09:35</td>
<td>Clinical and radiographical outcomes of three pulpotomy techniques performed by dental students</td>
<td>A. ALAÇAM¹, M. E. ODABAS ME¹, T. TÜZÜNER², H. SILLELIĞLU¹ &amp; Ö. BAYGIN¹</td>
<td>¹University of Gazı, Faculty of Dentistry, Department of Pediatric Dentistry Ankara; ²University of Karadeniz Technical, Department of Pediatric Dentistry, Trabzon, Turkey</td>
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<td>09:40</td>
<td>Comparative evaluation of Ca(OH)2 plus points and Ca(OH)2 paste in apexification treatment</td>
<td>T. CETINBAS BEZGIN¹, K. ORHAN² &amp; H. SONMEZ³</td>
<td>¹Department of Pedodontics; ²Department of Oral Diagnosis and Radiology; ³Department of Pedodontics, Faculty of Dentistry, Ankara University, Ankara, Turkey</td>
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<td>09:45</td>
<td>Pulp chamber microflora of primary teeth with inflammatory symptoms in Costarican children</td>
<td>L. URIBE-LORIO¹, S. MORALES² &amp; C. QUESADA¹</td>
<td>¹Centro de Investigación en Biología Celular y Molecular; ²Facultad de Odontología; ³Laboratorio de investigación en Bacteriología Anaerobia, Universidad de Costa Rica</td>
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<td>09:50</td>
<td>Influence of temporary filling material on bacteria contamination during endodontic treatment</td>
<td>O. E. ZINOVIEVA &amp; L. P. KISELNIKOVA</td>
<td>Department of Pediatric Dentistry, Moscow State University of Medicine and Dentistry, Russia</td>
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<td>09:55</td>
<td>Fracture resistance of primary anterior teeth restored with different intra-canal post systems</td>
<td>A. M. Mashaly &amp; N. M. King</td>
<td>Paediatric Dentistry and Orthodontics, Faculty of Dentistry, University of Hong Kong, Hong Kong SAR, China</td>
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<td>10:00</td>
<td>Apical microleakage evaluation of chitosan as root filling material</td>
<td>J. J. SHANG, S. H. YANG &amp; X. Y. LIU</td>
<td>Department of pediatric dentistry, Capital Medical University School of Stamotology, Beijing, PR China</td>
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<td>10:05</td>
<td>A comparative evaluation of root canal sealers (study in vitro)</td>
<td>G. V. KIKERI &amp; N.A. SAVELIEVA</td>
<td>Department of Conservative and Pediatric Dentistry, Ryazan State I. P. Pavlov Medical University, Ryazan, Russia</td>
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<td>10:10</td>
<td>Endodontic treatment of a maxillary lateral incisor with two root canals</td>
<td>Ç. ÇINAR, A. ALTUNTAŞ &amp; N. AKAL</td>
<td>University of Gazı, Faculty of Dentistry, Department of Pediatric Dentistry, Ankara, Turkey</td>
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<td>10:15</td>
<td>Regeneration of symptomatic permanent teeth by antibiotics and conservative pulp management</td>
<td>T. P. TSAI¹ &amp; W. H. HUANG²</td>
<td>¹Anthony’s Dental Clinic; ²Pediatric Dentistry, Chang-Gung Memorial Hospital, Taipei, Taiwan</td>
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Apexification with MTA on a necrotic immature permanent tooth

F. BEN ABDELOUAHED, V. GOSSIAUX & A. VAN DEN ABEELE
Department of Paediatric Dentistry, Université Libre de Bruxelles, Brussels, Belgium

Fluoride releasing capacity and physical properties of a nano-filled fissure sealant

A. KUSGÖZ¹, T. TÜZÜNER¹, B. KEMER² & O. SARAY²
¹Department of Paediatric Dentistry; ²Department of Chemistry; ³Department of Mechanical Engineering, Karadeniz Technical University, Trabzon, Turkey

Microleakage and penetration ability of different sealants

L. ZHAO & Q. SHI
Capital Medical University School of Stomatology, Beijing, PR China

Inhibition of mutans streptococci adherence to saliva-treated hydroxyapatite by new enamel coating material

S. AIZAWA¹, E. FUKUMOTO¹, A. YAMADA¹, N. TAKAHASHI² & S. FUKUMOTO¹
¹Division of Pediatric Dentistry; ²Oral Ecology and Biochemistry Tohoku University Graduate School of Dentistry, Sendai; ³Division of Preventive Dentistry, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan

Analysis of GIC clinical procedures knowledge (by questionnaire poll of doctors and students)

E. A. SKATOVA, E. M. NOSOVA, N. A. ANDRONOVA, L. V. SENINA & I. I. MALANCHUK
Department of Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Moscow, Russia

Evaluation of microhardness in bovine dentine adjacent to fluoride-releasing restorations

D. ATABEK, M. BANI, N. OZTAS & A. ALTUNTAS
Department of Paediatric Dentistry, Gazi University Faculty of Dentistry, Ankara, Turkey

A new polishing material; nano-technology liquid polish

D. ATABEK, H. SILLELIÖGLU & A. OLMEZ
Department of Paediatric Dentistry, Gazi University Faculty of Dentistry, Ankara, Turkey

Fluoride uptake from various fluoride-releasing restorative materials by bovine enamel in vitro

M. BANI¹, D. ATABEK¹, A. BERKKAN² & N. OZTAS¹
¹Department of Paediatric Dentistry, Gazi University, Faculty of Dentistry; ²Department of Analytic Chemistry, Gazi University, Faculty of Pharmacy, Ankara, Turkey

Evaluating GIC bond strength: microshear and microtensile

C. C. BONIFÁCIO¹, ², A. M. SHIMAOKA³, A. P. ANDRADE³, W. E. VAN AMERONGEN¹ & R. C. R. CARVALHO²
¹Department of Cariology Endodontology Pedodontology, Academic Centre for Dentistry Amsterdam (ACTA), Amsterdam, The Netherlands; ²Department of Restorative Dentistry, School of Dentistry, University of São Paulo (USP), São Paulo, Brazil

Effects of tooth type, dentin adhesives and base materials on occlusal/gingival microleakage

E. CANOGLU, H. C. GUNGOR & Z. C. CEHRELI
Dept. of Paediatric Dentistry, Hacettepe University, Ankara, Turkey

Adhesive systems application substantiation for cavity treatment in teeth with differing enamel mineral content

Z. H. CHUIKO & L. KISELNKOVA
Department of Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Russia

Effect of chlorhexidine concentration on the mechanical properties of dental adhesive resins

C. W. M. CHUNG, C. K. Y. YIU, N. HIRAISHI & N. M. KING
Paediatric Dentistry and Orthodontics, Faculty of Dentistry, The University of Hong Kong, Prince Philip Dental Hospital, Hong Kong SAR, China

Bond strengths of self-etch adhesives in laser prepared cavities

Y. GUVEN, H. COMLEKCI & O. AKTOREN
Istanbul University, Faculty of Dentistry, Department of Pedodontics, Istanbul, Turkey

24-month clinical evaluation of a self-etching bonding agent in preventive resin restoration

Y. ZHAO, C. YU & L. H. GE
Department of Pediatric Dentistry, School and Hospital of Stomatology, Peking University, Beijing, China

Effects of polymerisation unit on the flexural strength of glass carbomer

K. GORSETA, D. NEGOVETIC VRANIC, D. GLAVINA & I. SKRINJARIC
Dept. of Paediatric and Preventive Dentistry, School of Dental Medicine, University of Zagreb, Croatia

The therapeutic effect of fluoride-containing adhesive tape on dentin hypersensitivity

H. G. JANG, N. Y. LEE & S. H. LEE
Department of Pediatric Dentistry, Chosun University, Gwangju, South Korea
Poster presentations

**P03**  Poster session – Dental materials 2

14:00  **The effects of children’s drinks on the colour stability of restorative materials**
E. S. TUNC¹, S. BAYRAK¹, A. U. GULER² & N. TULOGLU¹
¹Department of Pediatric Dentistry; ²Department of Prosthodontics, Faculty of Dentistry, University of Ondokuz Mayis, Samsun, Turkey

14:05  **Evaluation of micromorphology of etched primary and permanent enamel following APF treatment**
A. R. SARRAF-SHIRAZI¹, B. M. AJAMI¹, A. EMAMI² & M. REZAIFAR¹
¹Pediatric Dentistry Department and Dental Research Center, Mashhad University of Medical Science, Mashhad; ²Dentist, Shiraz, Iran

14:10  **Clinical evaluation of Ca/F releasing of «Esterfill Ca/F» in primary teeth**
M. S. KOSHCAN, A. G. SEDOYKIN & A. P. POLIKARPOVA
Dept. of Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Moscow, Russia

14:15  **Feature of gap formation between different cavities walls and resin composite systems on primary teeth**
A. G. SEDOYKIN, V. M. ELIZAROVA & A. P. POLIKARPOVA
Dept. of Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Moscow, Russia

14:20  **In-vitro evaluation of the effects of power bleaching on enamel microhardness**
E. CAKIR, O. TULUNOGLU, S. OZCAN & M. B. UCTASLI
Departments of Paediatric Dentistry and Operative Dentistry, Faculty of Dentistry, University of Gazi, Ankara, Turkey

14:25  **Calcium and hydroxyl ion diffusion through dentin – comparison study of various materials**
V. Tzugkounakis¹, V. Meglova¹ & L. Trefil²
¹Dentistry Department; ²Clinical Biochemistry Department; Faculty of Medicine and Faculty Hospital in Pilsen, Charles University in Prague, Czech Republic

14:30  **Effect of chlorhexidine on self-etch bond on primary teeth dentin in vitro**
Y. LIU & D. M. YANG
Pedodontic Department, Capital Medical University School of Stomatology, Beijing, PR China

14:35  **Evaluation of a new material in restoration of primary molars**
F. SAJADI
Dept. of Pediatric Dentistry, Dental School, Kerman, Iran

14:40  **Knoop hardness of resin-modified glass ionomer cements**
A. F. B. CALVO¹, E. C. BRANCO¹, L. B. CAMARGO¹, J. C. P. IMPARATO¹ & D. P. RAGGIO¹
¹Pediatric Dentistry Department, University of São Paulo, São Paulo; “São Leopoldo Mandic, Campinas, Brazil

14:45  **Effects of MTA on proliferation and differentiation capacity of human pulp cells**
M. Y. WANG¹, H. LIU¹, S. L. LIP & M. QIN¹
¹Department of Pediatric Dentistry; ²Research Laboratory of Oral and Maxillofacial Surgery, Peking University School and Hospital of Stomatology, Beijing, PR China

14:50  **The effect of storage media on the solubility of three restorative materials**
N. OZALP¹, S. BAYRAK² & Z. OKTE¹
¹Department of Pedodontics, Faculty of Dentistry, Ankara University, Ankara; ²Department of Pedodontics, Faculty of Dentistry, 19 Mayis University, Samsun, Turkey

14:55  **Handling time of self-etching adhesives vs. etch and rinse adhesives**
D. NEGOVETIC VRANIC, K. GORSETA, S. GLAVINA & I. SKRINJARIC
Dept Paediatric Dentistry, School of Dental Medicine, University of Zagreb, Croatia

15:00  **Basic research on biomaterials for restoration of primary teeth**
T. MIZUTANI¹, ², A. NAKAYAMA¹, ², N. TAKANASHI¹, H. IWASAKI¹, ² & H. MIYAZAWA¹, ²
¹Department of Pediatric Dentistry; ²Department of Oral Health Promotion, Graduate School of Matsumoto Dental University, Japan

15:05  **Resistance to degradation of bonded restorations to simulated caries-affected primary dentin**
M. MARQUEZAN¹, D. P. RAGGIO¹, B. L. SILVEIRA², M. TOLEDANO³ & A. L. CIAMPONI¹
¹Department of Orthodontics and Pediatric Dentistry, Universidade de São Paulo – USP, Brazil; ²Department of Restorative Dentistry, Centro Universitario Franciscano – UNIFRA, Brazil; ³Department of Dental Materials, School of Dentistry, University of Granada, Granada, Spain

15:10  **Survival rate of class II ART restorations testing different salivary barriers**
T. S. CARVALHO¹, W. E. VAN AMERONGEN¹, A. DINIZ³, M. BÖNECKER¹ & F. C. Sampaio³
¹Department of Pediatric Dentistry, University of São Paulo, São Paulo, Brazil; ²Department of Cariology, Endodontology and Pedodontology, ACTA, Amsterdam, The Netherlands; ³Department of Clinic and Social Dentistry, Federal University of Paraíba, João Pessoa, Brazil
Survival rate of ART restorations in primary and permanent dentitions: meta-analysis
M. BÖNECKER1, E. STRINGHINI JÚNIOR2, L. B. OLIVEIRA1 & S. MICKENAUTSCH3
1Department of Orthodontics and Paediatric Dentistry, Faculty of Dentistry, University of São Paulo, São Paulo, Brazil; 2School of Dentistry, CPO São Leopoldo Mandic, Campinas, Brazil; 3Division of Public Oral Health - University of the Witwatersrand, Johannesburg, South Africa

Enamel etching of immature and mature permanent teeth in children – A comparative study
C. H. SAKKAS, L. O. KHOMENKO & N. V. BIDENKO
Department of Paediatric and Preventive Dentistry, O.O. Bogomolets National Medical University, Kyiv, Ukraine

P04
Poster session – Growth & Development

Dental status of parenterally fed children - presentation of two cases
A. REMISZEWSKI1, D. OLCZAK-KOWALCZYK1,2, P. SOBIECH1, A. GRZYBOWSKA1 & K. POPIŃSKA3
1Department of paediatric dentistry, Warsaw Medical University; 2Department of oral pathology, the Children's Memorial Health Institute; 3Nutrition Clinic, the Children's Memorial Health Institute, Warsaw, Poland

Effects of tooth extractions on hippocampus in senescence-accelerated mice
M. INUMA1, H. HIROI, Y. ICHIHASHI1, Y. TAMURA1 & K. KUBO2
1Department of Pediatric Dentistry, Asahi University School of Dentistry, Mizuho Gifu; 2Department of Oral Anatomy, Division of Oral Structure, Function and Development, Asahi University School of Dentistry, Mizuho Gifu, Japan

The effect of different transfusion on dental development in severe talassemic children
P. HOONCHAREON3, V. JIRARATTANASOPA1, A. KAWKUNCHON1 & K. TORCHARUS2
1Department of Pediatric Dentistry, Mahidol University; 2Division of Pediatric Hematology, Queen Sirikit National Institute of Child Health; 3Division of Pediatric Hematology, Phramongkutklao College of Medicine, Bangkok, Thailand

The effect of BTXA injection on mandibular growth in growing rats
S. Y. KWAK, J. Y. KIM & K. T. PARK
Department of Pediatric Dentistry, the Institute of Oral Health Science, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea

Biomarkers of mineral status in primary teeth in children born prematurely
E. MORENO4, E. PLANELLS5, D. FLOREA5, E. MILLÁN5 & P. PLANELLS1
1Department of Estomatologia IV, Universidad Complutense of Madrid; 2Institute of Nutrition, Biomedical Research Center, University of Granada, Spain

Emergence of permanent teeth in a Hungarian child population
J. A. NEMES1 & Z. PAPP2
1Department of Pediatric Dentistry, Faculty of Dentistry, University of Debrecen, Debrecen; 2Private practice, Nylregyháza, Hungary

The development of German versions of paediatric sleep quality assessment instruments
D. SAGHERI1, A. WIATER1, R. D. CHERVIN5, J. A. OWENS4 & B. B. BRAUMANN1
1Department of Orthodontics, Cologne University Hospital, Cologne, Germany; 2The Children's Hospital Sleep Disorders Laboratory, Porz am Rhein Hospital, Cologne, Germany; 3Sleep Disorders Center, Department of Neurology, University of Michigan, Ann Arbor, USA; 4Academic General Pediatrics, Rhode Island Hospital, Brown University, Providence, USA

The central neuronal activity regarding gustatory stimulus in tube-feeding rat
T. OOKA, T. HAINO, S. HIRONAKA & Y. MUKAI
Department of Hygiene and Oral Health, School of Dentistry, Showa University, Tokyo

Morphological and chemical aspects of primary teeth from pre-term infants
M. RYTHÉN1,2, J. G. NORÉN1, F. STEINIGER1, W. DIETZ1 & A. ROBERTSON1
1Department of Pedodontics, Institute of Odontology at the Sahlgrenska Academy, University of Gothenburg, Gothenborg, Sweden; 2Department of Pedodontics, Public Health Service, Region of Western Götaland, Gothenburg and Borås, Sweden; 3Centre of Electron Microscopy, Friedrich-Schiller-University Jena, Germany

Combined effect of TCDD and fluoride on dental hard tissue formation in vitro
E. SALMELA1, A. M. PARTANEN1, C. SAHLBERG1, P. L. LUKINMAA2,3 & S. ALALUUSUA1,4
1Department of Pediatric and Preventive Dentistry, Institute of Dentistry, University of Helsinki; 2Department of Oral Pathology, Institute of Dentistry, University of Helsinki; 3Department of Pathology, Helsinki University Central Hospital; 4Department of Oral and Maxillofacial Diseases, Helsinki University Central Hospital, Helsinki, Finland

Dental development in children with mild-to-moderate hypodontia
E. S. TUNC, S. BAYRAK & A. E. KOYUTURK
Department of Pediatric Dentistry, Faculty of Dentistry, University of Ondokuz Mayis, Samsun, Turkey

Age estimation of Amelogenesis Imperfecta patients using three different methods: a retrospective study
Z. KIRZIOGLU, K. G. ULU & A. C. ALTUN
Department of Pediatric Dentistry, University of Süleyman Demirel, Isparta, Turkey
Thursday (June 18, 2009)

**Poster presentations**

**17:00**  
Influence of feeding methods on the development of the mandibular dental arch  
T. YONEZU¹, M. YAKUSHIJI¹, S. SHINTANI¹, N. MATSUBARA² & H. SIRAI²  
¹Department of Pediatric Dentistry, Tokyo Dental College, Chiba; ²Combi Co, Tokyo, Japan

**17:05**  
Establishment of ameloblasts derived from induced pluripotent stem cells  
M. ARAKAKI, A. YAMADA & S. FUKUMOTO  
University Graduate School of Dentistry, Division of Pediatric Dentistry, Department of Oral Health and Development Sciences, Sendai, Japan

**17:10**  
TMJ internal derangement following condylar fractures: impact on facial growth  
P. DEFABIANIS  
Dental School, Department of Biomedical Sciences and Human Oncology, Section of Pedodontics, Traumatology and oro-facial malformations in the growing patients, University of Torino, Italy

**17:15**  
Body weight of Australian children undergoing treatment of caries under general anaesthesia  
H. FUNG¹, N. PRABHU¹, A. CAMERON¹ & A. BLINKHORN³  
¹Department of Paediatric Dentistry, Westmead Hospital; ²Faculty of Dentistry, University of Sydney, Sydney, Australia

**17:20**  
Acoustic Characteristics of children of the Japanese Consonants[s][ʃ]  
T. SUGIYAMA, J. ASARI, M. SATO & M. INOUE  
Showa University School of Dentistry, Department of Pediatric Dentistry, Japan

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**Hallmark Hotel (von Weber / Orff / Reger)**

**P05**  
Poster session – MORITA PRIZE

**09:00**  
Oral manifestation and behavior attitude of autistic patients in United Arab Emirates  
A. S. HUSSAIN, H. M. MUSTAFA & A. H. ZIAD  
Department of growth and development, Ajman University, Ajman, United Arab Emirates

**09:05**  
Anodontia in Hypohidrotic Ectodermal Dysplasia (HED), early intervention  
J. HASSI¹, M. ZUNIGA², J. MUÑOZ² & P. GÁLVEZ²  
¹Pediatric Dentistry and Orthodontic department, University of Chile; ²Private Practice

**09:10**  
Dental treatment in a patient with a Factor XII deficit: case report  
M. L. HERMIDA, L. ALVAREZ, W. LEWIS, B. BOGGIN & I. RODRÍGUEZ  
Transfusional Department, Pereira Rossell Hospital, Montevideo, Uruguay

**09:15**  
Oral rehabilitation of Ectodermal Dysplasia with anodontia: a case report  
T. ALCAN¹, M. I. SALIH², M. A. DURHAN³ & B. KARGUL³  
Departments of Orthodontics, Oral Surgery and Pediatric Dentistry, Dental School, Marmara University, Istanbul, Turkey

**09:20**  
Management of visible enamel defects: seeking children’s perspectives  
G. YESUDIAN, A. ABDUL-KARIM, Z. MARSHMAN, M. FARNAM & H. D. RODD  
Department of Oral Health and Development, School of Dentistry, Sheffield, UK

**09:25**  
Clinical evaluation of conventional versus colored compomers for Class II restorations  
F. ERTUGRUL, D. COGULU, Y. OZDEMIR & N. ERSIN  
Ege University School of Dentistry, Department of Pedodontics, Izmir, Turkey

**09:30**  
Quality of the interface of primary dentin bonded with antibacterial fluoride-releasing adhesive  
Y. HOSOYA¹, S. ANDO¹, K. YAMAGUCHI², S. OOOKA² & F. R. TAY³  
¹Nagasaki University Graduate School of Biomedical Sciences, Medical and Dental Sciences, Department of Pediatric Dentistry, Nagasaki, Japan; ²Nihon University Dental School, Department of Operative Dentistry, Tokyo, Japan; ³Medical College of Georgia, Dental School, Department of Endodontics, Augusta, USA

**09:35**  
Comparison of remineralization effect between Fuji IX and Surefil  
A. YETKINER¹, C. ERONAT¹, D. ŞİMŞEK² & M. ÇIFTÇIOĞLU²  
¹Department of Pediatric Dentistry, Ege University; ²Department of Chemical Engineering, Izmir Institute of Technology, Izmir, Turkey

**09:40**  
Two-year clinical evaluation of fiber-reinforced nanofill resin composite in stress-bearing cavities  
N. ERONAT & U. CANDAN  
Department of Pediatric Dentistry, Ege University, School of Dentistry, Izmir, Turkey

**09:45**  
Obesity and dental caries of Greek preschool children  
A. AGOUROPOULOS, S. MAMALI, S. GIZANI, L. PAPAGIANNOULIS  
Department of Paediatric Dentistry, University of Athens, Greece
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<th>Authors</th>
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<td>11:00</td>
<td><strong>Poster session – Dental anxiety and behavioural management</strong></td>
<td>A. Sugimoto, M. Ozaki &amp; W. Motokawa</td>
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<td><em>Investigation of human reliability relations between child patients and dentist</em></td>
<td>Division of Pediatric Dentistry, Department of Oral Growth and Development, Fukuoka Dental College, Japan</td>
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<td>11:05</td>
<td><strong>Child behaviour modulation during first dental visit after administration of lemon balm</strong></td>
<td>K. Pardo-Alave, M. E. Diaz-Pizan, L. F. Villegas &amp; E. Bernabe</td>
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<td><em>Universidad San Martin de Porres, Lima Peru; Universidad Peruana Cayetano Heredia, Lima Peru, Department of Epidemiology and Public Health, University College London, London, UK</em></td>
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<td>11:10</td>
<td><strong>Success rate and side-effects by different inhalation sedation systems in paediatric dentistry</strong></td>
<td>C. Vergalle, A. A. Neves, D. Declerck &amp; F. Vinckier</td>
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<td>Dental School, Unit of Paediatric Dentistry and Special Care, Catholic University of Leuven, Belgium</td>
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<td>11:15</td>
<td><strong>Children’s stress in dental treatment with salivaary chromogranin A</strong></td>
<td>C. Mitsuhata, J. Suzuki &amp; K. Kozai</td>
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<td>Department of Pediatric Dentistry, Hiroshima University Graduate School of Biomedical Sciences, Hiroshima, Japan</td>
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<td>11:20</td>
<td><strong>Evaluation of children’s pain by students during dental anaesthesia</strong></td>
<td>A. Marie-Cousin, A. Huet, B. Hingant, J. C. Robert &amp; J. L. Sixou</td>
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<td>Department of Paediatric Dentistry, University of Rennes 1 and CHU of Rennes, France</td>
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<td>11:25</td>
<td><strong>Pilot study in the adaptation of CFSS-DS Latvian version</strong></td>
<td>L. Kronina, M. Rascevska &amp; R. Care</td>
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<td>Pediatric Department, Institute of Stomatology, Riga Stradins University; Faculty of Pedagogy and Psychology, Latvian University; Department of Conservative Dentistry, Riga Stradins University, Riga, Latvia</td>
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<td>11:30</td>
<td><strong>Do uncooperative children feel more afraid of the dentist than those who cooperate well?</strong></td>
<td>A. Czerlinski, D. J. Koenen, H. Lang &amp; P. Kropp</td>
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<td>Department of Operative Dentistry and Periodontology; Department of Medical Psychology, University of Rostock, Germany</td>
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<td>11:35</td>
<td><strong>The effects of extraction on recovery characteristics in deeply sedated pediatric patients</strong></td>
<td>L. Ozzer, Z. B. Oktem &amp; Z. Kucukyavuz</td>
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<td>Department of Pedodontics; Department of Oral and Maxillofacial Surgery, Faculty of Dentistry, Ankara University, Ankara, Turkey</td>
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<td>11:40</td>
<td><strong>Measurements of dental fear in 7 years old children</strong></td>
<td>D. Galamb, A. Lenkey, J. Math &amp; M. Alberth</td>
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<td>Department of Pediatric Dentistry, Faculty of Dentistry; Department of Clinical Biochemistry and Molecular Pathology, Medical and Health Science Center; Institute of Psychology, University of Debrecen, Debrecen, Hungary</td>
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<td>11:45</td>
<td><strong>Dental anxiety patterns in adolescents born preterm compared with matched controls</strong></td>
<td>S. Brogaard-Roth, K. Stjernqvist, L. Mattsson &amp; G. Klingberg</td>
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<td>Department of Paediatric Dentistry, Faculty of Odontology, Malmö University; Department of Psychology, Lund University, Sweden</td>
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<td>11:50</td>
<td><strong>The German version of the child perceptions questionnaire – association to overall well-being</strong></td>
<td>K. Bekes, H. G. Schaller &amp; C. Hirsch</td>
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<td>Department of Paediatric Dentistry, Martin-Luther University Halle-Wittenberg, Halle; Department of Paediatric Dentistry, University of Leipzig, Leipzig, Germany</td>
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<td>11:55</td>
<td><strong>Which premedication agent is more comfortable for anxious children in dental treatment?</strong></td>
<td>O. Baygin, H. Bodur &amp; B. Isik</td>
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<td></td>
<td>Department of Paediatric Dentistry, Karadeniz Technical University Faculty of Dentistry, Trabzon; Department of Paediatric Dentistry, Department of Oral and Maxillo Facial Surgery, Gazi University Faculty of Dentistry, Ankara, Turkey</td>
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<tr>
<td>12:00</td>
<td><strong>Guidelines for nonpharmacologic behavior management: changes through the last 20 years</strong></td>
<td>K. Arapostathis, V. Boka, E. L. Exarchou &amp; N. Kotsanos</td>
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<tr>
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<td>Department of Paediatric Dentistry, School of Dentistry, Aristotle University of Thessaloniki, Greece</td>
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<td>Department of Pediatric Dentistry, Nippon Dental University, Tokyo, Japan</td>
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<td>12:10</td>
<td><strong>Relationship between dental anxiety, oral health status and sociodemographic factors in children</strong></td>
<td>Z. Kirzioglu, A. C. Altun, K. G. Ulu &amp; Y. Erdogan</td>
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<tr>
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<td>Department of Pediatric Dentistry, University of Suleyman Demirel, Isparta, Turkey</td>
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<tr>
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<td>Department of Pediatric Dentistry, Faculty of Dentistry; Department of Clinical Biochemistry and Molecular Pathology, Medical and Health Science Center; Institute of Psychology, University of Debrecen, Debrecen, Hungary</td>
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</tbody>
</table>
Dental anxiety in 7-11 years-old children and its relationship to dental caries
A. AKBAY OBA1, C. T. DÜLGERGIL2 & I. ŞAROĞLU SÖNMEZ1
1Department of Pediatric Dentistry; 2Department of Operative Dentistry, School of Dentistry, University of Kirikkale, Turkey

A case report of Trichotillomania and its influence on dental treatment
D. TSIANTOU, D. VELONIS & N. KOTSANOS
Department of Paediatric Dentistry, Aristotle University of Thessaloniki, Thessaloniki, Greece

Prevalence of three-rooted primary mandibular first molars among Taiwanese children
J. F. LIU1, M. G. TU2, M. J. JOU3 & S. Y. CHEN2
1Department of Pediatric Dentistry, Taichung Veterans General Hospital; 2School and Department of Dentistry, China Medical University and Hospital; 3Department of Anatomy, China Medical University, Taichung, Taiwan

The study of impacted supernumerary teeth in infants by means of cone-beam CT
W. MOTOKAWA & M. OZAKI
Dept. of Oral Growth and Development, Fukuoka Dental College, Japan

Double primary teeth and the correlation with the permanent successors
Y. T. LIN & Y. T. LIN
Department of Pediatric Dentistry, Chang Gung Memorial Hospital-Kaohsiung Medical Center, Chang Gung University College of Medicine, Taiwan

Management of Dens Evaginatus in premolars in the School Dental Service (Singapore)
O. C. EU & J. J. NG
School Dental Service, Youth Health Division, Health Promotion Board, Singapore

Peculiarities of enamel formation in the first permanent molars of children living in an area of endemic fluorosis
S. S. BOGOMOLOVA & L. P. KISELNIKOVA
Department of Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Russia

Designing a clinical tool to record molar incisor hypomineralisation
M. APPS1, S. HIBBERT1 & E. MAHONEY2
1Paediatric Dentistry Department, Westmead Hospital, Sydney, Australia; 2Hutt Valley District Health Board, Lower Hutt, New Zealand

Prevalence of dental developmental anomalies: a radiographic study
K. DALCI1, A. ALANKUS KALENDER1, L. ÖZKAN1, L. VAHDETTIN2 & S. ÇETINER1
1Department of Pediatric Dentistry; 2Department of Orthodontics, Near East University, Lefkoşa, Cyprus

Microleakage of fissure sealant: beveling of fissures on buccal surfaces of teeth
F. MAZHARI, M. MEHRABKHANI & S. SADEGHI
Paediatric Department, Mashhad University of Medical Sciences, Mashhad, Iran

The effect of sealant viscosity and different bonding agents on sealant microleakage in vitro
M. MEHRABKHANI, F. MAZHARI & S. SADEGHI
Paediatric Dentistry, Faculty of Dentistry, Mashhad University of Medical Sciences (Mums), Mashad, Iran
Retention and caries prevention of a resin-based sealant and a glass-ionomer used as a fissure sealant: a clinical study
T. ULUSU1, M. E. ODABAŞ, T. TÜZÜNER2, H. SİLELİÖĞLU1 & Ö. BAYGIN1
1University of Gazi, Faculty of Dentistry, Department of Pediatric Dentistry Ankara; 2University of Karadeniz Technical, Faculty of Dentistry, Department of Pediatric Dentistry Trabzon, Turkey

Comparison of new and 3-month-old tooth brushes in the removal of plaque in children
B. MALEKAFZALI, H. ABBASSI & A. MIRFASİHI
Beheshti university, Pediatric dentistry, Tehran, Iran

Professionally applied toothbrushing study to evaluate plaque removal in children
M. PELKA1, K. RUMI1, A. PELKA1, M. DELAURENTI2 & J. WEI2
1Dental Clinic 1, Erlangen, Germany; 2Philips Oral Healthcare, Snoqualmie, WA, USA

Comparative plaque removal efficacy of two power toothbrushes in children
T. RIMMER1, D. PAYNE1, M. OLSON2, P. SCHMITT2 & A. MASTER2
14 Front Research, Chester, UK; 2Philips Oral Healthcare, Snoqualmie, WA, USA

Brushing-duration and use-interaction patterns of manual versus sonic toothbrushes in children
J. STRATE, J. DEFENBAUGH, A. MASTER, P. SCHMITT & W. JENKINS
Philips Oral Healthcare, Snoqualmie, WA, USA

Plaque removal efficacy of two power toothbrushes in children
J. L. MILLEMAN1, M. S. PUTT1, A. MASTER2, M. OLSON2 & P. SCHMITT2
1University-Park Research Center, IN; 2Philips Oral Healthcare, Snoqualmie, WA, USA

Plaque removal efficacy of sonic versus manual toothbrushes in children
M. S. PUTT1, J. L. MILLEMAN1, W. JENKINS2, M. OLSON2 & P. SCHMITT2
1University-Park Research Center, IN; 2Philips Oral Healthcare, Snoqualmie, WA, USA

Number, length and end-rounding quality of bristles in manual child toothbrushes
T. İLERİ KECELİ, B. TEZEL, M. D. TÜRĞÜT, M. TEKCİÇEK & Z. C. CEHRELİ
Department of Paediatric Dentistry, Hacettepe University, Ankara, Turkey

Impact of different recommendations on the amount of toothpaste used for infants
Š. BURNIK1, T. TOMAŽEVIČ2 & R. KOSEM1
1Department of Paediatric and Preventive Dentistry, University Medical Centre Ljubljana; 2Department of Paediatric and Preventive Dentistry, Faculty of Medicine, University of Ljubljana, Slovenia

Oral hygiene management of pediatric transplantation patients
Y. WAGNER & R. HEINRICH-WELTZIEN
Department of Preventive Dentistry, Friedrich-Schiller-University of Jena, Germany

The influence of foods and tooth brushing on Streptococcus mutans
K. YANAGITA, M. OZAKI, Y. NOMURA & W. MOTOKAWA
Pediatric Dentistry, Fukuoka Dental College, Japan

Caries preventive effect of Bifluorid12® on first permanent molars
N. NEHRING1, M. WAGNER2, T. TSEREKHAVA1, N. SHAKOVETS2 & A. BORUTTA1
1Friedrich-Schiller University of Jena, Dental School/WHOCC, Germany; 2Friedrich-Schiller University of Jena, Department of Business Statistics, Germany; 1University of Minsk, Dental School, Belorussia

Urinary fluoride excretion in preschool children exposed to fluoridated salt (150ppmF) in Belarus
T. V. PAPRUZHENKA & T. N. TSERAKHAVA
Chair of Paediatric Dentistry, Belarusian State Medical University, Belarus

Effect of fluoride varnish on the enamel demineralization
E. Y. YOON, S. H. LEE & N. Y. LEE
Department of Pediatric Dentistry, College of Dentistry, Chosun University, Gwangju, Republic of Korea

Fluoride concentrations of tap waters in Greece for up to 6 months
G. MASTORAKIS & K. J. TOUMBA
Department of Paediatric Dentistry, Leeds Dental Institute, University of Leeds, UK

Dental erosions in young adults and lifestyle factors during young ages
H. ISAKSSON1, L. K. WEND7, G. KOCH1, D. BIRKHED1 & C. ULLBRO1
1Department of Paediatric Dentistry, The Institute for Postgraduate Education, Jo’ nko’ ping, Sweden; 1Centrum of Oral Health, School of Health Siences, Jo’ nko’ ping University, Jo’ nko’ ping, Sweden; 1Department of Cariology, Institute of Odontology, Sahlgrenska Academy at Go’ teborg University, Sweden
**M5**  New methods in caries diagnosis and monitoring  
Sponsor: 3M ESPE AG

- **09:00** D. Ricketts (GBR)  
  New methods in caries diagnosis and monitoring – Visual methods
- **09:30** J. Kühnisch (GER)  
  Potential of additional caries detection and diagnostic methods
- **10:00** I. Häberlein (GER)  
  Clinical treatment opportunities by modern caries activity diagnosis

**10:30** Morning Break

**M7**  Caries protective treatment

- **11:00** R. Frankenberger (GER)  
  Antibacterial adhesives  
  Sponsor: Kuraray Europe GmbH
- **11:30** G. Pearson (GBR)  
  Photo Activated Disinfection as a means of bacterial control in dental disease  
  Sponsor: SciCan GmbH
- **12:00** U. Schöffner (GER)  
  Fluoride releasing restorative materials

**12:30** Lunch at the Exhibition Area (Gasteig)

**M9**  Caries therapy  
Sponsor: SS White Burs Inc.

- **14:00** T. Watson (GBR)  
  How clean should a cavity be before restoration?
- **14:30** K.-H. Kunzelmann (GER)  
  New methods in caries therapy – Self limiting caries excavation
- **15:00** N. Krämer (GER)  
  New aspects in minimal-invasive restorative techniques

**15:30** Afternoon Break

**M11**  Traumatology 1 – Treatment strategies after traumatic tooth loss in adolescents

- **16:00** B. Thilander (SE)  
  Orthodontic aspects of the use of oral implants in adolescents
- **16:45** M. Kern (GER)  
  Current prosthetic measures for replacing the early lost anterior permanent teeth

**20:00** Bavarian Evening at the Löwenbräukeller
# Gasteig Small Concert Hall / Kleiner Konzertsaal

**M6**  
Pulp therapy in primary and immature permanent teeth  
<table>
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<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>09:00</td>
<td>K. Huth (GER)</td>
<td>Pulpotomy in primary teeth</td>
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<tr>
<td>09:30</td>
<td>A. Fuks (ISR)</td>
<td>Pulpectomy and root canal treatment in Primary Teeth</td>
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<tr>
<td>10:00</td>
<td>C. Kaaden (GER)</td>
<td>Endodontics in immature permanent teeth</td>
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<td>10:30</td>
<td><strong>Morning Break</strong></td>
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**M8**  
Postgraduate training in Paediatric Dentistry  
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<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>11:00</td>
<td>J. Berg (USA)</td>
<td>Postgraduate Training in the US</td>
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<tr>
<td>11:20</td>
<td>L. Martens (BEL)</td>
<td>EAPD concept of postgraduate training in Europe / ADEE</td>
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<tr>
<td>11:40</td>
<td>J. Toumba (GBR)</td>
<td>Postgraduate Training in Paediatric Dentistry</td>
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<tr>
<td>12:00</td>
<td>C. Hirsch (GER)</td>
<td>Current trends in Germany</td>
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<td>12:30</td>
<td><strong>Lunch at the Exhibition Area (Gasteig)</strong></td>
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**M10**  
Traumatology 1  
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<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tr>
<td>14:00</td>
<td>H. Dietz (GER)</td>
<td>Traumatology in Pediatrics</td>
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<td>14:45</td>
<td>H. van Waes (SUI)</td>
<td>Guidelines for treatment of traumatized teeth</td>
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<td>15:30</td>
<td><strong>Afternoon Break</strong></td>
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**M12**  
Customized treatment and care concepts for children. The basis for well-being today and in future  

Sponsor: Ivoclar Vivadent AG

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<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>16:00</td>
<td>S. Kneist (GER)</td>
<td>Early risk diagnostics – important for oral health and future general well-being?</td>
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<tr>
<td>16:20</td>
<td>S. Twetman (DEN)</td>
<td>Preventive and non-invasive therapeutical treatment strategies</td>
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<td>16:40</td>
<td>C. Pine (GBR)</td>
<td>Public health and individual care go hand in hand</td>
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<tr>
<td>17:00</td>
<td>N. Krämer (GER)</td>
<td>Customized restorative and after care programs for children of different age groups</td>
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<td>17:20</td>
<td><strong>Discussion</strong></td>
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<tr>
<td>20:00</td>
<td><strong>Bavarian Evening at the Löwenbräukeller</strong></td>
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O13 Oral session – Epidemiology 1

09:00 Prevalence of dental fluorosis and the influence of water fluoride level on caries activity
M. NICHANI
Department of Pedodontics Sree Balaji Dental College and Hospital Chennai, Tamilnadu, India

09:11 A comparison of DGA for children in ambulatory and stationary care (Hesse/Germany)
I. WOLTMANN, V. KNAPP, R. SIAHI-BENLARBI & W. E. WETZEL
Poliklinik für Kinderzahnheilkunde, Zentrum für ZMK, Giessen

09:22 Parental knowledge and behavioral aspects regarding oral health of preschool children
G. STEL1 & A. TJALOSMA2
1Radboud University Nijmegen Medical Centre, College of Dental Sciences, Department of Preventive and Restorative Dentistry, Nijmegen; 2Netherlands Institute for Health Promotion and Disease Prevention (NIGZ), Woerden, The Netherlands

09:33 Parents’ locus of control and caries in their toddlers
A. HIPPKE, C. ZABEL & U. SCHIFFNER
Dept. of Restorative and Preventive Dentistry, University of Hamburg, Hamburg, Germany

09:44 Relationship between oral health, socioeconomic parameters and BMI in 6-year-old Filipino students
R. HEINRICH-WELTZIEN1, M. SEIFERT1 & B. MONSE2
1Department of Preventive Dentistry, Friedrich-Schiller University of Jena, Germany, 2Department of Education, Health and Nutrition Centre, City of Division Cagayan de Oro, Philippines

09:55 Re-examination of caries experience and fluorosis prevalence of children in Jamaica
H. MEYER-LUECKEL1, K. BITTER2, W. HOPFENMULLER2 & S. PARIS1
1Clinic for Operative Dentistry and Periodontology, School of Dental Medicine, Christian-Albrechts-Universität zu Kiel, Germany; 2Department of Operative Dentistry and Periodontology, University School of Dental Medicine, Charité-Universitätsmedizin Berlin, Germany; 3Department of Medical Informatics, Biometry, and Epidemiology, Institute of Medical Biometry and Clinical Epidemiology, Charité -Universitätsmedizin Berlin, Germany

10:06 Reasons for seeking dental care among children in Chennai, India
V. CHARANYA, M. S. MUTHU, E. M. G. SUBRAMANIAN, A. SHARATH & S. SHIFA
Pedo Planet, Pediatric Dental Centre, Chennai, India

10:17 Oral health and associated factors in 12 year-old children in Thimphu, Bhutan
S. NGEDUP1, P. LEELATAWEEWUD1 & D. LEXOMBOON2
1Department of Pediatric Dentistry, 2Department of Community Dentistry, Faculty of Dentistry, Mahidol University, Bangkok, Thailand

10:06 – 12:30 GABA Practitioner Prize
... for the best case report in Paediatric Dentistry (in German language)

Dressler S., Jablonski-Momeni A. und Pieper K.
Abteilung Kinderzahnheilkunde, Philipps-Universität Marburg

Kant J. M.
Zahnärztin, Oldenburg, GER

Laurisch L.
Korschenbroich

Wolff A.
Poliklinik für Zahnerhaltungkunde, Universitätsklinikum Heidelberg

Jockel-Schneider Y. und Feierabend S.
Poliklinik für Zahnerhaltung und Parodontologie, Universität Würzburg

Jaklitsch-Willhuber U. und Städtler P.
Universitätsklinik für Zahn-, Mund- und Kieferheilkunde, Abteilung für Zahnerhaltung
O14  Oral session – Epidemiology 2
14:00  A group of pediatricians’ knowledge and practices regarding the pediatric dentistry in Turkey
S. PEKER1, B. KARGUL1, A. DURHAN1 & B. KARADAG2
1Marmara University Dentistry Faculty, Pediatric Dentistry Dept; 2Marmara University Medicine Faculty, Division of Pediatric Pulmonology, Istanbul, Turkey
14:11  Caries experience of schoolchildren in two industrial areas in Romania
Paediatric Dentistry Department, Carol Davila University, Bucharest, Romania
14:22  Caries incidence in adolescent’s one rural and suburban area in Croatia
T. RIJETKOVIC1, H. JURIC2
1Private practice, Garesnica; 2School of Dental Medicine, University of Zagreb, Department of pediatric and preventive dentistry, Croatia
14:33  Dental prevalence, diagnostics and prevention of children population in Ukraine
O. DENGA
Odessa State Medical University, Odessa, Ukraine
14:44  The impact of socioeconomic factors on dental health status of Lithuanian adolescents
V. BRUKIENĖ1 & J. ALEKSEJŪNIENĖ2
1Institute of Odontology, Faculty of Medicine, Vilnius University, Vilnius, Lithuania; 2Department of Oral Health Sciences, Faculty of Dentistry, The University of British Columbia, Vancouver, Canada
15:55  Caries pattern in small children in Riga, Latvia
S. SKRIVELE1, S. BERZINA1, R. CARE1, S. KNEIST2 & A. BORUTTA2
1Department of Conservative Dentistry, Riga Stradins University, Riga, Latvia; 2Friedrich Schiller University of Jena, Germany
15:06  Translation and validation of a Chinese language version of the ECOHIS
G. H. M. LEE1, C. MCGRATH2, C. K. Y. YIU1 & N. M. KING1
1Paediatric Dentistry and Orthodontics; 2Periodontology and Dental Public Health, Faculty of Dentistry, The University of Hong Kong, Hong Kong SAR, China

O15  Oral session – Dental materials
16:00  Clinical assessment of two adhesive systems on sealant retention in newly-erupted teeth
M. KARAMI NOGOURANI1, P. KHADEM2, Z. JADIDI3, G. AMIRPOOR3 & S. H. JALALI3
1Pediatric Dentistry Dep., Islamic Azad University Korasgan Branch, Esfahan; 2Community Dentistry Dep., Islamic Azad University Khorasgan Branch, Esfahan; 3Esfahan, Iran
16:11  Chlorhexidine release from Calcium Phosphate Cements
C. PAPADOVASILAKI1, S. PAREKH1, G. PALMER2 & A. YOUNG2
1Unit of Paediatric Dentistry; 2Department of Biomaterials, UCL Eastman Dental Institute, London, UK
16:22  Sealing ability and fissure penetration level of a nano-filled resin-based sealants
G. QADRI, S. N. F. MOHD NOOR & C. H. SPLIETH
Department of Preventive and Pediatric Dentistry, Greifswald University, Germany
16:33  Quality and longevity of posterior restorations in permanent teeth of adolescents
V. QVIST
Dental School, University of Copenhagen, Denmark
16:44  Clinical evaluation of GC Fuji IX GP-Fast restorations after 24 months
A. C. CHIS1, D. D. D. PRELIPCEAN1, A. STROIANU2 & R. LUCA1
1Paediatric Dentistry Department, Carol Davila University, Bucharest, Romania; 2Paediatric Dental Clinic, Barzilai Medical Center, Ashkelon, Israel
16:55  Enamel shear-bond strength of Glass Carbomer after heating with three polymerization units
D. GLAVINA, K. GORSETA, D. NEGEOVETIC-VRANIC & I. SKRINJARIC
School of Dental Medicine, University of Zagreb, Croatia
17:06  Enamel remineralization potential of two dentifrices based on CPP-ACP and Novamin® (Calcium-sodium-phosphosilicate)
E. GJORGIEVSKA1 & J. W. NICHOLSON2
1Faculty of Dental Medicine, Department of Paediatric and Preventive Dentistry, University “Sts. Kiril and Metodij” Skopje, Republic of Macedonia; 2School of Science, University of Greenwich, Medway, Kent, UK
17:17  Microhardness and surface roughness of Glass Ionomer Cements after APF and TiF4 application
A. K. A. TOPALOGLU1, D. COGULU1, N. ERSIN KOCATAS1 & B. H. SEN2
1Department of Pedodontics; 2Division of Endodontology, Ege University, School of Dentistry, Bornova, Izmir, Turkey
17:45  Mitgliederversammlung (DGK)
Oral presentations

**Hilton Hotel Ballroom / Ballsaal**

**O16  Oral session – Traumatology**

09:00  
**Avulsion guidelines – do they agree?**

**P. SHAH, S. PAREKH, D. R. MOLES & P. ASHLEY**

UCL Eastman Dental Institute and Hospital, London, UK

09:11  
**Effect of non-setting calcium hydroxide and MTA on human dentine following long term application**

**W. A. TWATI, D. J. WOOD, T. W. LISKIEWICZ & M. S. DUGGAL**

Dept Paediatric Dentistry and Dept of Dental Materials, Leeds Dental Institute, School of Mechanical Engineering, University of Leeds, UK

09:22  
**Dental and orofacial injuries among snowboard riders, Turkey**

**E. CAGLAR, O. O. KUSCU, S. ÇALIŞKAN & N. SANDALLI**

Dept. of Paediatric Dentistry, Dental School, Yeditepe University, Istanbul, Turkey

09:33  
**Choosing patient-centred outcome measures for a randomised controlled trial involving non-vital incisors**

**Z. MARSHMAN1, M. HALL1, J. PORRITT1, S. ALBADRI2 & H. D. RODD1**

1Department of Oral Health and Development, School of Dentistry, Sheffield; 2Department of Paediatric Dentistry, School of Dental Science, University of Liverpool, UK

09:44  
**Direct pulp-capping in traumatized teeth with ‘Homemade’ MTA: a report of cases**

**J. JAE CHEOUN LEE**

Seoul Children’s Dental Center, Seoul, Korea

09:55  
**Tooth fragment reattachment – a report of two cases**

**B. KAUR**

Department of Pediatric Dentistry, Institute of Dental Sciences, Jammu University, Jammu, India

10:06  
**Late presentation of traumatised anterior teeth – management of two cases**

**S. STEPHEN**

Department of Paediatric Dentistry, Sydney Dental Hospital, Sydney, Australia

10:17  
**Association between trauma to primary incisors and various types of root resorption**

**G. HOLAN & K. SHEINVALD-SHUSTERMAN**

Department of Pediatric Dentistry, The Hebrew University – Hadassah School of Dental Medicine, Jerusalem, Israel

**O17  Oral session – Endodontics**

11:00  
**Radiographic changes associated with pulp-infection in primary incisors**

**M. ASHKENAZI1, E. HERSHKOVITZ2 & L. AFEK1**

1Private practice, Tel Aviv; 2The Maurice and Gabriela Goldschleger School of Dental Medicine, Tel-Aviv University, Tel-Aviv, Israel

11:11  
**Effectiveness of German chamomile, MTAD and sodium hypochlorite irrigants on smear layer**

**V. VENKATARAM, A. KOHLI, K. MALLIKARJUN & A. KUMAR**

Department of Paediatric and Preventive Dentistry, Rama Dental College, Hospital and Research Centre, Dr. Ambedkar B R University, Agra Kanpur, India

11:22  
**MTA produces superior outcomes in vital primary molar pulpotomy**

**M. CASAS1, T. DOYLE2, D. KENNY1 & P. JUDD1**

1The Hospital for Sick Children and University of Toronto, Toronto; 2IWK Health Center, Halifax and Dalhousie University, Halifax, Canada

11:33  
**Investigation of one-visit endodontic therapy for children with acute periradicular periodontitis**

**M. LIU, S. LI, E. CHEN & Q. XU**

West China College of Stomatology, Sichuan University, PR China

11:44  
**Pulpotomy in primary teeth using ferric sulfate and mineral trioxide aggregate**

**M. MUELLER1, S. A. BENZINGER2 & H. J. M. VAN WAES2**

1Department of Paediatric Dentistry, Sydney Dental Hospital, Sydney, Australia; 2Clinic for Orthodontics and Paediatric Dentistry, Center for Dental and Oral Medicine and Cranio-Maxillofacial Surgery, University of Zurich, Zurich, Switzerland

11:55  
**Antibacterial efficacy of NaOCl/Biopure MTAD, diode laser and NaOCl/EDTA in primary molars**

**S. S. KUVVETLI1, S. K. CILDIR1, E. CAGLAR1, N. TOPCUOGLU2 & N. SANDALLI1**

1Yeditepe University Faculty of Dentistry, Department of Pedodontics; 2Istanbul University Faculty of Dentistry, Department of Oral Microbiology, Istanbul, Turkey
12:06  Direct pulp capping with self etching adhesives in primary pig teeth
       A. SHAYEGAN¹, M. PETEIN², R. ATASH¹ & A. VANDEN ABBELE¹
       ¹Department of Operative and Paediatric Dentistry; ²Department of Pathology and Cell Biology Université Libre de Brussels, Brussels, Belgium


O18  Oral session – Miscellaneous

14:20  Evaluation of an online and nationally-distributed child protection learning resource
       J. C. HARRIS¹, ², J. BRADBURY³, F. NILCHIAN² & C. D. FRANKLIN⁴
       ¹Sheffield Salaried Primary Dental Care Service; ²Department of Oral Health and Development, School of Clinical Dentistry, University of Sheffield; ³School of Life Sciences, Kingston University; ⁴South Yorkshire and East Midlands Regional Postgraduate Dental Deanery, Sheffield, UK

14:31  Preschool Children’s awareness to absence of maxillary primary incisors
       D. RAM¹, D. KATZIR-GOLDENBOUM², V. N. MATALON² & G. HOLAN¹
       ¹Department of Pediatric Dentistry, Hebrew University - Hadassah School of Dental Medicine; ²Psychological Services of the Jerusalem Municipality, Jerusalem, Israel

14:42  Scientific case presentation – laser in pediatric dentistry: Frenectomy
       G. SCHINDLER & N. GUTKNECHT
       Department of Restorative Dentistry and Pediatric Dentistry, RWTH Aachen University, Aachen, Germany

14:53  An analysis of children requiring multiple General Anaesthetics (GA’s) for dental treatment
       F. L. BELL
       Department of Paediatric Dentistry, Westmead Centre for Oral Health (WCOH), Sydney, Australia

15:04  The urine-fluoride concentration after fluoride tablets intake of disabled children in special education schools
       S. T. HUANG¹, ², ³, H. Y. LIU¹, S. Y. HSIAO³ & W. C. HU⁴
       ¹Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University; ²Graduate Institute of Oral Health Sciences, College of Dental Medicine, Kaohsiung Medical University; ³Division of Pediatric Dentistry, Department of Dentistry, Kaohsiung Medical University Hospital; ⁴Graduate Institute of Dental Sciences, PhD course, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan

16:00  IME-Seminar – Ernährungserziehung – gut gemeint aber oft verkehrt” (in German Language)
       Ellrott (GER)

Poster presentations  Friday (June 19, 2009)

Hilton Hotel (von Weber / Orff / Reger)

P09  Poster session – Prevention 2

09:00  Results of a 1-year Dental Programme for pre-school and school children in Moscow (Russia)
       L. P. KISELNKOVA, T. E. ZUEVA, M. V. MIROSHKINA, S. I. SOKOLOVA & M. M. NAGOEVa
       Department of Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Moscow, Russia

09:05  Oral health practice in Taiwanese primary schools
       T. CHIANG, S. HUANG, S. LIU, S. SHIE & Y. CHO
       Department of Dental Hygiene, Kaohsiung Medical University, Kaohsiung, Taiwan

09:10  Quantitative analysis of periodontopathogens in subgingival plaque in adolescents by real-time PCR
       N. Y. YANG, Q. ZHANG & Q. SHI
       Pedodontic Department, Capital Medical University School of Stomatology, Beijing, PR China

09:15  A pilot study: A communication sheet to improve children’s preventive care
       R. FITZGERALD & C. CAMPBELL
       Department of Paediatric Dentistry, Glasgow Dental Hospital and School, Glasgow, UK
Friday (June 19, 2009)  

**Poster presentations**

09:20  Oral health educational program for HIV(+) mothers  
**M. E. GUERRA, A. RODRÍGUEZ, S. RODRÍGUEZ & V. TOVAR**  
Centro de Atención a Pacientes con Enfermedades Infectocontagiosas, Facultad de Odontología Universidad Central de Venezuela

09:25  Air quality in a busy university pediatric dental clinic  
**N. KARIYA1, O. RODIS2, M. NISHIMURA1, S. MATSUMURA2 & T. SHIMONO2**  
1Dental Hospital; 2Department of Behavioral Pediatric Dentistry, Okayama University, 2-5-1 Shikata-cho, Okayama City, Japan

09:30  Oral health related knowledge/attitude of school faculties in Taiwanese primary schools  
**Y. LIU, S. HUANG, S. LIU, S. SHIE & Y. CHO**  
Department of dental hygiene, Kaohsiung medical university, Kaohsiung/Taiwan

09:35  Dental education project for preschool children: towards healthier first permanent molars  
**R. LUCA, I. A. STANCIU, C. FARCASIU, A. MUNTEANU & A. OALARU**  
Paediatric Dentistry Department, Carol Davila University, Bucharest, Romania

09:40  Prevention of dental decay from theory to every day practice  
**A. MUNTEAN, M. MESAROS, A. SERBANESCU & M. SIMU**  
Department of Paediatric Dentistry, University of Medicine and Pharmacy "Iuliu Hatieganu", Cluj Napoca, Romania

09:45  Long-term effects on oral health of preventive activities in preschool children  
**A. SUNDELL, C. ULLBRO & G. KOCH**  
The Department of Paediatric Dentistry, the Institute for Postgraduate Dental Education, Jönköping, Sweden

09:50  Bifidobacterium lactis Bb12 may reduce the risk of respiratory infections in children  
**T. TAIPALE1, K. PIENIHÄKKINEN2, P. ALANEN2, J. JOKELA1 & E. SÖDERLING2**  
1Korpilahti-Muurame Health Care Center, Muurame; 2Institute of Dentistry, University of Turku, Turku, Finland

09:55  The dental hygiene /dietary behavior of young children with S-ECC in southern Taiwan  
**H. Y. HU1, S. T. HUANG1,2, R. S. TANG6, S. Y. HSIAO1 & H. S. CHEN1,3**  
1Division of Pediatric Dentistry, Department of Dentistry, Kaohsiung Medical University Hospital; 2Department of Oral Hygiene, Kaohsiung Medical University; 3Graduate Institute of Oral Health Sciences, College of Dental Medicine, Kaohsiung Medical University; 4Graduate Institute of Dental Sciences, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan

10:00  Early Childhood Caries (ECC) and the Occurrence of Candida albicans  
**S. KNEIST, K. SENF, A. HARZENDORF, A. UDHARDT & A. BORUTTA**  
Friedrich-Schiller-University of Jena, Centre of Dentistry, Jena, Germany

10:05  Knowledge of parents of 3-year-old children about early dental health care promotion  
**A. RAHMAN, T. SPANIER, K. MEYER & H. GUNAY**  
Department of Conservative Dentistry, Periodontology and Preventive Dentistry, Hannover Medical School, Germany

10:10  The nutritional status of young children with S-ECC in southern Taiwan  
**R. S. TANG1, S. T. HUANG1,2,4, M. C. HUANG5,6, F. H. CHUANG6 & H. S. CHEN1,4**  
1Graduate Institute of Dental Sciences, College of Dental Medicine, Kaohsiung Medical University; 2Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University; 3Graduate Institute of Oral Health Sciences, College of Dental Medicine, Kaohsiung Medical University; 4Division of Pediatric Dentistry, Department of Dentistry, Kaohsiung Medical University Hospital; 5Department of Nutrition and Dietetics, Kaohsiung Medical University Hospital; 6Faculty of Medicine & Respiratory Care, College of Medicine, Kaohsiung Medical University; 7Division of Endodontic Dentistry, Department of Dentistry, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan

10:15  Occurrence of Cariogenic microflora in infants and their mothers  
**T. TSERAKHAVA & N. SHAKAVETS**  
Belorussian State Medical University, Department of Paediatric Dentistry

10:20  The erosive potential of lollipops  
**H. S. BRAND1, D. L. GAMBON2, A. PAAP1, M. S. BULTHUIS1, E. C. I VEERMAN1 & A. V. NIEUW AMERONGEN1**  
1Department of Dental Basic Sciences, Section of Oral Biochemistry, Academic Centre for Dentistry Amsterdam (ACTA), Amsterdam; 2Bambodino Pediatric Dental Clinic, Rotterdam, The Netherlands

P10  Poster session – J. Andreasen Award

11:00  Discolouration of teeth following avulsion and replantation, a randomised controlled trial  
**P. F. DAY1, M. S. DUGGAL2, A. HIGH3, A. ROBERTSON3 & S. WESTLAND4**  
1Department of Paediatric Dentistry, 2Department of Oral Pathology, 3Department of Medical & Dental and 4School of Design, University of Leeds, UK
11:05  **One Step Apexification using two types of Mineral Trioxide Aggregate**  
A. MOORE, M. F. HOWLEY & A. C. O’CONNELL  
Department of Public & Child Dental Health, Dublin Dental School and Hospital, Dublin, Ireland

11:10  **Management of a complicated trauma case of avulsed permanent teeth**  
A. S. BOUGA & G. P. VADIAKAS  
Department of Paediatric Dentistry, School of Dentistry, University of Athens, Greece

11:15  **Tooth avulsion in growing patients: mini-implant rehabilitation?**  
A. MURRI DELLO DIAGO & L. GIANNETTI  
University of Modena and Reggio Emilia, School of Dentistry, Department of Paediatric

11:20  **Luxation injuries to permanent incisors-factors affecting development of complications**  
G. VADIAKAS, I. VASILIOUDIS, A. BOUGA & L. PAPAGIANNOULIS  
Department of Paediatric Dentistry, School of Dentistry, University of Athens, Greece

11:25  **Parents’ ability to recall past injuries to maxillary primary incisors in their children**  
K. SHEINVALE SHUSTERMAN & G. HOLAN  
Department of Pediatric Dentistry, The Hebrew University – Hadassah School of Dental Medicine, Jerusalem, Israel

**P11 Poster session – Traumatology**

14:00  **Mineral Trioxide Aggregate in the treatment of internal root resorption: case report**  
C. DEVECİ  
Department of Pedodontics, Gazi University Faculty of Dentistry, Ankara, Turkey

14:05  **Basketball players’ experience of dental injury and awareness about mouthguard in China**  
W. L. MA  
Department of Pediatric Dentistry, Peking University, School and Hospital of Stomatology, Beijing, China

14:10  **Anastrophic impacted maxillary permanent incisor: a case report**  
S. JUNG1, F. OBRY2, R. MATHIS2 & M. C. MANIERE1  
1Department of Paediatric Dentistry; 2Department of Orthodontics, Faculty of Dentistry, Strasbourg, France

14:15  **Restoration using the avulsed crown following loss of an upper permanent incisor**  
M. EIDE, A. KEIGHTLEY & C. CAMPBELL  
Department of Child Dental Health, Glasgow Dental Hospital and School, Glasgow, Scotland UK

14:20  **From intrusive luxation to acute relapsing glomerular nephritis**  
K. GINZELOVA  
Charles University, 2nd Medical School, Department of Paediatric Stomatology, Prague, Czech Republic

14:25  **Esthetic management of complicated crown fracture in an immature permanent incisor**  
S. SHIFA, M. S. MUTHU, M. FARZAN, V. CHARANYA & S. A. GOURI  
Pedo Planet, Pediatric Dental Centre, Chennai, India

14:30  **Unraveling permanent incisor - a case report**  
C. SAMPATH REDDY  
Dept. of Pedodontics, Sri Sai College of Dental Surgery, Vikarabad, India

14:35  **Multidisciplinary treatment to a subgingival complicated crown-root fracture**  
J. WANG & P. F. MAO  
Department of pediatric Dentistry, School of Dentistry, Shanghai Jiao Tong University, Shanghai, China

14:40  **The clinical and radiographic changes of fractured immature teeth after pulpotomy**  
R. Z. JIA RZ1, S. G. ZHENG2 & G. ZHANG2  
1Pedodontic Department, CapitalMedical University School of Stomatology; 2Pedodontic Department, Peking University School of Stomatology, Beijing, China

14:45  **Prevalence of traumatic dental injuries in preschool children in Brazil**  
D. HESSE1, G. A. V. C. BONINI1, C. C. BONIFÁCIO2, F. M. MENDES2 & M. BÔNECKER1  
1Department of Pediatric Dentistry, Dental School, University of Sao Paulo, Sao Paulo, Brazil; 2Department of Pediatric Dentistry, ACTA, Amsterdam, The Netherlands

14:50  **Traumatic injuries of permanent teeth in schoolchildren in Kadıköy region of İstanbul**  
U. KABALAY, J. ATUKEREN, Y. AYDIN, B. DOGUSOY & S. ERGENELI  
Kadıköy Municipality’s Dental Clinics, Kadikoy, Istanbul, Turkey
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<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Affiliations</th>
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<tr>
<td>14:55</td>
<td>Epidemiological survey of dentofacial trauma occurrence on children at county emergency unit</td>
<td>A. J. NOGUEIRA, R. NOGUEIRA &amp; G. F. EMMI</td>
<td>Federal University of Pará, Odontology, Belém, Pará, Brazil</td>
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<td>15:00</td>
<td>How many avulsions are preventable?</td>
<td>A. KEIGHTLEY, G. WRIGHT &amp; R. WELBURY</td>
<td>Glasgow Dental School &amp; Hospital, University of Glasgow, Glasgow, Scotland</td>
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<td>15:05</td>
<td>Traumatic dental injuries in children with Attention Deficit/Hyperactivity Disorder</td>
<td>A. AVSAR, S. AKBAŞ &amp; T. ATAİBİŞ</td>
<td>Department of Pedodontics, Ondokuz Mayis University; Department of Child Psychiatry, Faculty of Medicine, Samsun, Turkey</td>
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<td>15:10</td>
<td>The profile of dental trauma presenting to a specialist centre recorded on a computer database</td>
<td>P. KANDIAH &amp; P. DAY</td>
<td>Department of Paediatric Dentistry at the Leeds Dental Institute, Leeds, UK</td>
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<td>15:15</td>
<td>Retrospective analysis of dentofacial trauma patients attending the Royal Children's Hospital, Melbourne</td>
<td>N. KILPATRICK &amp; J. LUCAS</td>
<td>Department of Dentistry, Royal Children's Hospital, Melbourne, Australia</td>
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<td>15:20</td>
<td>Factors that influence children's psychosocial adjustment to dentoalveolar trauma</td>
<td>J. M. PORRITT, S. R. BAKER &amp; H. D. RODD</td>
<td>Department of Oral Health and Development, University of Sheffield, Sheffield, UK</td>
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<td>15:25</td>
<td>Predictors for pulp necrosis in permanent incisors following crown fractures with concurrent luxation</td>
<td>E. F. LAURIDSEN, N. V. HERMANN, S. A. CHRISTENSEN &amp; J. O. ANDREASEN</td>
<td>Department of Pediatric Dentistry and Clinical Genetics, School of Dentistry, Faculty of Health Sciences, University of Copenhagen; Resource Centre for Rare Oral Diseases, Copenhagen University Hospital; Resource Centre for Rare Oral Diseases and Department of Oral and Maxillo-facial Surgery, Copenhagen University Hospital, Copenhagen, Denmark</td>
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**P12 Poster session – Epidemiology 1**

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<tr>
<td>16:00</td>
<td>Early Childhood Caries in children up to four years of age in Chile</td>
<td>M. E. GUEVARA, G. SIFRI, C. BARRIOS, N. TORRES &amp; M. CUEVAS</td>
<td>Pediatric Department, San Sebastian University, Concepción, Chile</td>
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<td>16:05</td>
<td>The relation between dental caries and BMI in preschool children in Babol, Iran</td>
<td>M. GHASEMPOUR, K. HAJIAN, Z. MOAZEZY &amp; M. ZAVAR</td>
<td>Pediatric Dentistry Department, Babol University of Medical Sciences, Iran</td>
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<td>16:10</td>
<td>Caries pattern and the related socio-economic factors in preschool children in Taiwan</td>
<td>Y. S. HONG, S. T. HUANG, S. Y. HSIAO &amp; H. Y. LIU</td>
<td>Graduate Institute of Dental Sciences, PhD course, College of Dental Medicine, Kaohsiung Medical University; Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University; Graduate Institute of Oral Health Sciences, College of Dental Medicine, Kaohsiung Medical University; Division of Pediatric Dentistry, Department of Dentistry, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan</td>
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<td>16:15</td>
<td>Research of sealant treatments for the intervention in school children of Aborigines</td>
<td>H. J. HSIEH, S. T. HUANG, C. C. TSAI, M. J. CHIOU &amp; C. D. LIAO</td>
<td>Graduate Institute of Dental Sciences, College of Dental Medicine, Kaohsiung Medical University; Faculty of Dental Hygiene, College of Dental Medicine, Kaohsiung Medical University; Division of Pediatric Dentistry, Department of Dentistry, Chung-Ho Memorial Hospital, Kaohsiung Medical University; Division of Periodontal Dentistry, Department of Dentistry, Chung-Ho Memorial Hospital, Kaohsiung Medical University; Taoyuan Township Public Health Center, Kaohsiung County, Taiwan; Graduate Institute of Oral Health Sciences, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan</td>
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<td>16:20</td>
<td>Oral health status and treatment needs of elementary school children in Taiwan</td>
<td>Y. C. HOU, Y. S. LIN, S. T. HUANG &amp; S. Y. HSIAO</td>
<td>Division of Pediatric Dentistry, Department of Dentistry, Kaohsiung Medical University Hospital; Graduate Institute of Oral Health Sciences, College of Dental Medicine, Kaohsiung Medical University; Graduate Institute of Dental Sciences, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan</td>
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<td>16:25</td>
<td>Assessment of hygiene procedures among dental practitioners in Istanbul, Turkey</td>
<td>N. BEKIROGLU &amp; B. KARGUL</td>
<td>Biostatistics Department, Medical School; Pediatric Dentistry, Dental School, Marmara University, Istanbul, Turkey</td>
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Poster presentations

Friday (June 19, 2009)

16:30 Oral status of 12~18 years old students in Taiwan
J. LIN¹, 4, S. T. HUANG², 3, 4, N. T. WANG¹, S. Y. HSIAO⁴ & H. S. CHEN³, 4
¹Graduate Institute of Dental Sciences, College of Dental Medicine, Kaohsiung Medical University; ²Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University; ³Graduate Institute of Oral Health Sciences, College of Dental Medicine, Kaohsiung Medical University; ⁴Division of Pediatric Dentistry, Department of Dentistry, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan

16:35 Oral health knowledge of 8- to 12-years-old Turkish children and of their parents
G. SEYDAOGLU¹, M. C. DOGAN¹, S. UGUZ², R. S. DILER⁴ & C. SARITURK¹
¹Department of Biostatistics, University of Pittsburgh, USA; ²Department of Psychiatry, Faculty of Medicine; ³Department of Pedodontics, Faculty of Dentistry, Cukurova University, Adana-Turkey; ⁴Western Psychiatric Institute and Clinic, University of Pittsburgh, USA

16:40 Caries prevalence of 3- to 12-year-olds in Moscow (Russia)
L. P. KISELNKOVA, T. E. ZUEVA, M. V. MIROSHKINA, S. I. SOKOLOVA & A. A. ALIBEKOVA
Department of Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Moscow, Russia

16:45 Caries patterns of under three year-old children in Taiwan
C. T. TSENG¹, Y. C. TAI¹, S. T. HUANG², 3, 4, H. Y. LIU⁴ & C. C. CHEN¹
¹Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University; ²Graduate Institute of Oral Health Sciences, College of Dental Medicine, Kaohsiung Medical University; ³Division of Pediatric Dentistry, Department of Dentistry, Kaohsiung Medical University Hospital; ⁴School of Dentistry, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan

16:50 Oral health and molar-incisor-hypomineralisations (MIH) in Turkish children
E. YAMAC YILMAZ, D. ONER OZDAS, G. AREN & Z. AYTEPE
Istanbul University, Faculty of Dentistry Department of Pedodontics, Istanbul, Turkey

16:55 Evaluation of oral health and caries prevalence in 3-5 Year old children
K. DALCI¹, B. EMRE² & S. ÇETINER¹
¹Department of Pediatric Dentistry, Near East University, Lefkoşa, Cyprus; ²Department of Pediatric Dentistry, Ankara University, Ankara, Turkey

17:00 Prevalence of malocclusion in 6-8-year-old schoolchildren in Santiago: 2005-2006
G. ZILLMANN¹, A. MUÑOZ², R. ORTIZ¹, J. HASSI¹ & S. ECHEVERRÍA¹
¹Área de Odontopediatría; ²Área Salud Pública, Departamento del niño y ortopedía dentomaxilar, Facultad de Odontología, Universidad de Chile

17:05 Decline in Acute Necrotizing Ulcerative Gingivitis in Ile – Ife, Nigeria
C. A. ADEKOYA – SOFOWORA¹, K. C. NDUKWE² & K. E. ADEBIYI²
¹Department of Child Dental Health, Faculty of Dentistry, Obafemi Awolowo University, Nigeria; ²Department of Oral / Maxillofacial Surgery and Oral Pathology, Obafemi Awolowo University

17:10 Caries and sealant prevalence on occlusal surfaces in permanent molars in Greek adolescents
C. OULIS & E. BERDOUSES
Department of Paediatric Dentistry, Dental School, University of Athens

17:15 Prevalence of caries on the first and second permanent molars of Greek adolescents and use of sealants
C. OULIS, E. BERDOUSES & M. MICHALAKI
Department of Paediatric Dentistry, Dental School, University of Athens

17:20 Evidence-based medicine in paediatric dentistry
S. FEIERABEND
Department of Conservative Dentistry and Periodontology University of Würzburg, Germany

17:25 Comparison of a basic and risk-specific school-based preventive programme for caries-risk students
C. DROSEN¹, H. SENKEL² & R. HEINRICH-WELTZIEN¹
¹Department of Preventive Dentistry, Friedrich-Schiller University of Jena; ²Health Department of the Ennepe-Ruhr-District, Schwelm, Germany
P16  Syndromes and Genetics

09:00  Zinsser-Engman-Cole syndrome: a case report

B. BADRE1, A. BOUSFIHA2, M. C. MANIERE3, A. BLOCH-ZUPAN3, 4, S. EL ARABI1

1Department of Paediatric Dentistry, Faculty of Medicine Dentistry, Casablanca, Morocco; 2Department of Paediatrics, Faculty of Medicine, Casablanca, Morocco; 3Department of Paediatric Dentistry, Faculty of Dentistry, Strasbourg University, France; Reference Centre for Oral Manifestations of Rare Diseases, Hôpitaux Universitaires de Strasbourg, France; 4IGBMC, Inserm, U964; CNRS, UMR7104, Illkirch, France

09:05  Ellis-van Creveld syndrome (case report)

H. BANGAR & M. ALSIMI

Pediatric Dentistry Department, Riyadh Military Hospital, Riyadh, Saudi Arabia

09:10  Floating–Harbor Syndrome: orofacial manifestations and dental management

N. CHRYSAFI, S. GKOURTSOGIANNI & M. S. DUGGAL

Department of Paediatric Dentistry, Leeds Dental Institute, University of Leeds, UK

09:15  Rothmund-Thomson Syndrome: a case report

M. C. DOGAN1, H. OZTUNC2, İ. SASMAZ3 & B. ANTMEN3

1Department of Paediatric Dentistry; 2Department of Oral Diagnosis and Radiology, School of Dentistry, Cukurova University, Adana, Turkey; 3Department of Paediatric Haematology, School of Medicine, Cukurova University, Adana, Turkey

09:20  A case report of Pallister-Killian syndrome (PKS): new dental findings

R. Y. DU, C. W. M. CHUNG & N. M. KING

Paediatric Dentistry and Orthodontics, Faculty of Dentistry, The University of Hong Kong, Prince Philip Dental Hospital, Pokfulam, Hong Kong SAR, China

09:25  Unusual dental findings in a girl with Russell-Silver syndrome

V. L. GOPALAKRISHNAN, C. W. M. CHUNG & N. M. KING

Paediatric Dentistry and Orthodontics, Faculty of Dentistry, University of Hong Kong, Prince Philip Dental Hospital, Hong Kong SAR, China

09:30  Ketone Utilization Disorder and Hypodontia

A. ALAÇAM1, Z. A. GÜÇLÜ1 & A. HASANOĞLU2

1Department of Pediatric Dentistry, Faculty of Dentistry; 2Department of Pediatric Metabolism and Nutrition, Faculty of Medicine, Gazi University, Ankara, Turkey

09:35  Levy-Hollister Syndrome - Case Report

B. HAVLOVICOVA1, R. IVANCAKOVAR1 & J. JUTTNEROVA2

1Dept. of Dentistry, University Hosp. and Medical Faculty, Charles University; 2Dept. of Genetics, University Hospital, Hradec Kralove, Czech Rep

09:40  Ectodermal Dysplasia – A case report

S. NATESH, V. ANANTHAN, V. RAJENDREN & R. APATHSAKAYAN

Department of Pedodontics and Preventive Dentistry, Sri Ramachandra Dental College, Porur, Chennai, India

09:45  Airway characteristics implications in Pierre Robin Sequence on intubation for dental treatment

Y. PALMON1 & P. BOKSENBOJM2

1Pediatric Dentistry Clinic; 2Surgical Day Care Unit, Anesthesia Department, Barzilai Medical Center, Ashkelon, affiliated to the Faculty of Health Sciences Ben-Gurion University of The Negev, Israel

09:50  Management of anodontia in hypohidrotic ectodermal dysplasia

G. L. RICHARDSON, F. MACAULAY & K. E. HARLEY

Department of Paediatric Dentistry, Edinburgh Postgraduate Dental Institute, Edinburgh, UK

09:55  Phenotype and treatment of Amelogenesis Imperfecta with unerupted and resorbed permanent teeth

A. STROIANU, S. SEGAL & U. ZILBERMAN

Pediatric Dental Clinic, Barzilai Medical Center, Ashkelon, Israel

10:00  Dental management for patient with Incontinentia Pigmenti: a case report

J. M. SU

Dental Department, Show-Chwan Memorial Hospital, Chang-Hua, Taiwan

10:05  Uncommon oral findings in Ellis-van Creveld syndrome: a case report

B. TEZEL1, T. ILERI KECELI1, M. TEKCICEK1, M. D. TURGUT1 & Y. ALANAY2

1Department of Paediatric Dentistry; 2Clinical Genetics Unit, Department of Paediatrics, Hacettepe University, Ankara, Turkey

10:10  Infantile Malignant Osteopetrosis: dental findings and management in 2 siblings

H. J. TONG & M. S. DUGGAL

Child Dental Health, Leeds Dental Institute, Leeds, UK
10:15 Dental management of a young girl diagnosed with neurofibromatosis
K. SEREMIDI, A. BOUGA, I. VASILIOUDIS & G. VADIAKAS
Department of Paediatric Dentistry, School of Dentistry, University of Athens, Greece

P17 Oral medicine and pathology
11:00 Pathologic root resorption of maxillary primary central incisors
Department of Pediatric Dentistry, Yonsei University, College of Dentistry, Seoul, Korea

11:05 Frey’s syndrome, a complication of congenital haemangiopericytoma
H. ZAITOUN1, M. FARMA1 & A. Y. YOUSEFPOUR2
1Department of Paediatric Dentistry; 2Department of Oral and Maxillo-facial Surgery, School of Clinical Dentistry, Sheffield, UK

11:10 Management of Arteriovenous malformation
S. AL-BAHLANI
Al-Nahdha Hospital, Muscat, Oman

11:15 Alteration in Odontogenesis caused by Chemotherapy and Radiotherapy in Children’s Oncology – Report of two cases
L. ARANEDA1,2, F. YURGENS3, S. PARROCHIA3, M. PINTO2 & ZUNINO2
1Children’s Hospital Roberto del Rio; 2Escuela Odontologia Fac. Medicina-Clinica Alemana-Universidad del Desarrollo; 3Hospital San Jose, Santiago, Chile

11:20 Unexplained oral self-mutilation in a young boy: a case report
R. G. E. C. CAUWELS & L. C. M. MARTENS
Department of Paediatric Dentistry & Special Care, PaeCaMed Research, Ghent University, Ghent, Belgium

11:25 Multifocal epithelial hyperplasia in Australia – a case report
C. L. HALL, M. MCCULLOUGH, C. ANGEL & D. J. MANTON
Paediatric Dentistry, School of Dental Science, University of Melbourne, Melbourne, Australia

11:30 Fanconi anemia manifesting as a squamous cell carcinoma after bone marrow transplantation
A. PINAR ERDEM1, G. IKIKARAKAYALI1, N. YALMAN2, G. AK3 & E. SEPET1
1Department of Pedodontics; 2Department of Medical Biology; 3Department of Oral Surgery and Medicine, Istanbul University, Istanbul, Turkey

11:35 Oral rehabilitation of a child with gastroesophageal reflux disease: Case report
A. KARAGIANNI, M. ANGELOPOULOU, D. ZAMPELI & G. VADIAKAS
Department of Paediatric Dentistry, University of Athens, Greece

11:40 Oral-anal Crohn’s Disease with Staphylococcus Aureus infection
R. KAUR & J. FEARNE
Paediatric Dental Department, Dental Hospital, Royal London Hospital, New Road, London, UK

11:45 Solitary Bone cyst – an unusual case report in a 7 year-old patient
D. LAZARIDOU1, A. ARHAKIS1, N. KOTSANOS1, A. KEVREKIDOU1 & K. ANTONIADIS2
1Department of Paediatric Dentistry, Aristotle University, Thessaloniki; 2Department of Maxillofacial Surgery, Thessaloniki, Greece

11:50 Adenomatoid odontogenic tumor associated with deciduous molar: report of an unusual case
P. EELATAWEEWUD1, S. VISUTTIWATTANAKORN3 & S. POOMSAWAT3
1Department of Pediatric Dentistry; 2Department of Surgery; 3Department of Oral Pathology, Faculty of Dentistry, Mahidol University, Bangkok, Thailand

11:55 A difficult diagnosis of a large unilocular radiolucency in the mandible
N. LUSH1, V. LOPES2 & K. E. HARLEY3
1Department of Paediatric Dentistry; 2Department of Oral Surgery; 3Department of Paediatric Dentistry, Edinburgh Dental Institute, Edinburgh, UK

12:00 Spontaneous regression of congenital epulis: a case report
P. RITWIK1, R. BRANNON2 & R. MUSSELMAN1
1Department of Paediatric Dentistry, LSU School of Dentistry New Orleans, USA; 2Oral and Maxillofacial Pathology LSU School of Dentistry New Orleans, USA

12:05 Amelogenesis Imperfecta in 11 Year-old Girl: a case report
A. I. SASMIT & A. M. KANIA
Department of Pediatric Dentistry Padjadjaran University, Bandung-West Java, Indonesia

12:10 Intraoral osseous choristoma in a newborn: A case report
D. SOTERIOU1, E. PAPADOPOULOU2, N. NIKITAKIS3 & G. VADIAKAS1
1Department of Paediatric Dentistry; 2Department of Oral Pathology, Dental School, University of Athens, Greece

12:15 A case of bilateral parotid and submandibular salivary gland aplasia
S. S. TAJI1, N. W. SAVAGE1, T. HOLCOMBE2, F. KHAN1 & W. K. SEOW1
1The University of Queensland, Brisbane, Australia; 2‘Kingston Oral Health Centre, Queensland Health, Brisbane, Australia; 3Private Practice, Brisbane, Australia
12:20  Irritation fibroma in a 3 year-old child: a case report  
K. TAOUFIK, C. REPPA & G. VADIAKAS  
Department of Pediatric Dentistry, Dental School, Athens University, Athens Greece

**P18  Syndromes and Genetics / Oral medicine and pathology**

14:00  A novel DSPP mutation (p.V18D) causing Dentinogenesis Imperfecta type II  
M. KIDA¹, T. TSUTSUMI², M. SHINDOH³ & T. ARIGA¹  
¹Department of Pediatrics; ²Hinode Dental Office; ³Oral Pathology and Biology, Hokkaido University Graduate School of Dentistry, Japan

14:05  KBG syndrome – clinical features and specific dental findings  
A. A. ALMANDAEY¹, R. P. ANTHONAPPAS² & N. M. KING²  
¹Paediatric Dentistry, Hamad Medical Corporation Qatar; ²Paediatric Dentistry and Orthodontics, Faculty of Dentistry, University of Hong Kong, Prince Philip Dental Hospital, Hong Kong SAR, China

14:10  The clinical study on a Chinese family with Amelogenesis imperfecta  
J. ZHONG, L. GE & S. ZHAO  
Department of Pediatric Dentistry, Peking University School of Stomatology, Beijing, China

14:15  A survey of oral biopsies from paediatric patients at the University Hospital  
M. TOMIZAWA¹, T. TSUDA², S. HAYASHI-SAKAI³ & F. IIZAWA²  
¹Department of Oral Health and Welfare, Faculty of Dentistry, Niigata University; ²Division of Pediatric Dentistry, Department of Oral Health Science, Niigata University Graduate School of Medical and Dental Sciences, Niigata, Japan

14:20  Investigation of the correlation between intestinal parasitic infections and bruxism among preschool children  
M. TEHRANI¹, N. PEDESTCHIAN², H. YOUSEFI³ & H. SEKHAVATI⁴  
¹Department of Pediatric Dentistry, School of Medicine, Isfahan University of Medical Sciences; ²School of Medicine, Isfahan University of Medical Sciences; ³School of Medicine, Isfahan University of Medical Sciences; ⁴Dental Practitioner, Torabinejad Research Center, Isfahan, Iran

14:25  Dentilisin involvement in coaggregation between Treponema denticola and Tannerella forsythia  
Y. SANO¹, M. YAKUSHUI¹, S. SHINTANI¹ & K. ISHIHARA¹  
¹Department of Pediatric Dentistry; ²Department of Microbiology, Tokyo Dental College, Chiba, Japan

14:30  Gingival expression of SOD and NOS mRNA in NOS1 knockout mice  
M. ISHIHARA¹, H. WATANABE², Y. ISHIHARA³, T. YANAGISAWA² & S. SHINTANI¹  
¹Department of Paediatric Dentistry, Tokyo Dental College; ²Department of Oral Histology, Department of Morphological Biology, Ohu University School of Dentistry; ³Department of Periodontology, Tokyo Dental College; ²Department of Ultrastructural Science, Tokyo Dental College, Japan

14:35  Can mesiodentes be resorbed?  
T. MENSAH, C. ULLBRO & G. KOCH  
Department of Paediatric Dentistry, The Institute of Postgraduate Dental Education in Jönköping, Sweden

14:40  Clinic and subgingival bacteria research on aggressive periodontitis and chronic periodontitis  
D. Y. LI & L. Y. GAO  
Oral Basic Department, Ninth People's Hospital, Shanghai Jiao Tong University, School of Medicine, Shanghai Key Laboratory of Stomatology, PR China

14:45  Some salivary parameters of children with and without black stain  
A. GARAN¹, S. AKYUZ¹, L. KOC OZTURK² & A. YARAT²  
¹Departments of Paediatric Dentistry, ²Basic Science, ³Dental School, Marmara University, Istanbul, Turkey

14:50  IMUDON for treating atopic cheilitis in children  
L. N. DROBOTKO, S. Y. STRAKHOVA, V. M. ELIZAROVA & A. V. DIKAYA  
Department of Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Moscow, Russia

14:55  Clinic and laboratory aspects of herpetic stomatitis severity course in children  
L. N. DROBOTKO & S. Y. STRAKHOVA  
Department of Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Moscow, Russia

15:00  Vermilion border and tongue at children with diseases of the alimentary tract  
A. V. GORELOV, V. ELIZAROVA & A. DIKAYA  
Moscow State University of Medicine and Dentistry, Department of Pediatric dentistry, Moscow, Russia

15:05  Buco-dental health in children with HIV  
C. ANDREUCIC², L. ARANEDA¹, I. GALAZ¹, I. ESPINOZA² & M. PINTO²  
¹Children's Hospital Roberto del Río; ²Universidad de Chile, Santiago, Chile

15:10  Dental health of children with cleft lip and palate  
A. E. ANUROVA, V. M. ELIZAROVA & V. D. SHCHEGOLEVA  
Department of Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Russia
15:15  Taste perception evaluation in a 100 healthy children sample
E. BARDELLINI, F. AMADORI, S. BONADEO, P. FLOCCHINI & A. MAJORANA
University of Brescia, Italy

P19  Othodontics
16:00  Odontoma associated with impacted teeth: three case reports
H. ZHU
Department of Stomatology, Beijing Children's Hospital, Capital Medical University, Beijing, China

16:05  Rapid palatal expansion for the treatment of an ectopically erupting maxillary canine
K. T. PARK & J. Y. KIM
Department of Pediatric Dentistry, the Institute of Oral Health Science, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea

16:10  Autotransplantation: Using cone beam CT and computer-aided rapid prototyping. Two case reports
R. FITZGERALD, D. L. CROSS, R. A. MCKERLIE & P. MCLAUGHLIN
Department of Paediatrics and Orthodontics, Glasgow Dental Hospital and School, Glasgow, UK

16:15  Orthodontic traction of an impacted tooth using a modified removable appliance: a case
D. S. LEE1, 2, M. J. KIM1, J. H. SHIN1, S. KIM1 & T. S. JEÖNG1
1Department of Pediatric Dentistry, School of Dentistry, Pusan National University; 2Seo-Myeun Children's Dental Clinic, Busan, Korea

16:20  Management of ectopically erupting lower second deciduous molar by modified Halterman Appliance: a case report
Department of Pediatric Dentistry and Institute of Oral Biology, College of Dentistry, Kyung Hee University, Seoul, South Korea

16:25  Correction of anterior cross bite using different techniques
N. LOGANATHAN & S. STEPHEN
Department of Paediatric Dentistry, Sydney Dental Hospital, Sydney, Australia

16:30  Autotransplantation of maxillary canine using the stereolithographic model: report of 2 cases
Department of Pediatric Dentistry and Institute of Oral Biology, School of Dentistry, Kyung Hee University, Seoul, South Korea

16:35  Aesthetic fixed appliance using a natural tooth: a case report
M. G. MARTINEZ & A. C. MEDINA
Department of Paediatric Dentistry, Faculty of Dentistry, Central University of Venezuela

16:40  Functional appliance with raising tongue trainer
T. WATANABE
Tatsuya Koyanagi, Yuji Funabashi, Naomi Uno and Syouko Matushia, Owari orthodontic clinic, Aichi, Japan

16:45  Orthodontic treatment possibilities of allergic patients
G. VITÁLYOS, J. TÖRÖK, T. RADICS & C. S. HEGEDÜS
Faculty of Dentistry, Medical and Health Science Center, University of Debrecen, Debrecen, Hungary

16:50  Orthodontic treatment needs of children: comparison of three indices
F. SEYMEN1, M. YILDIRIM1, A. PATIR2, E. B. TUNA1 & G. ACAR2
1Department of Pedodontics; 2Department of Endodontics, Istanbul University, Faculty of Dentistry, Istanbul, Turkey

16:55  The true three-dimensional craniofacial anatomy: 3-D versus 2-D cephalometric analysis
G. FARRONATO, U. GARAGIOLA, D. FARRONATO & D. DE NARDI
Department of Orthodontics, School of Dentistry I, University of Milan, Milan, Italy

17:00  Prevalence of hypodontia in some children attended in Mashhad School of Dentistry
M. SHABZENDEDAR1, B. AJAMI2 & M. MEHRJERDIAN3
1Department of Pediatric Dentistry, Mashhad Dental School, Mashhad University of Medical Sciences; 2Department of Pediatric Dentistry, Mashhad Dental School, Mashhad University of Medical Sciences; 3Mashhad, Iran

17:05  Three-dimensional space changes after premature loss of a primary first molar
J. H. LEE, J. Y. KIM & K. T. PARK
Department of Pediatric Dentistry, Sungkyunkwan University School of Medicine, the Institute of Oral Health Science, Samsung Medical Center, Seoul, Korea

17:10  Orthodontic treatment need in 4th and 5th grade students in Al-Mabrur, Bandung (Indonesia)
A. SETIAWAN, D. S. LATIF & R. SAPTARINI
Department of Pediatric Dentistry Padjadjaran University, Bandung-West Java, Indonesia

17:15  Ultrasound bone measurement age changes in cerebral palsy children before orthodontic treatment
S. BABII
Department of Paediatric Dentistry, Odessa State Medical University, Odessa, Ukraine
**Gasteig Carl Orff Hall / Call-Orff-Saal** (Übertragung und Simultanübersetzung in Black Box)

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>09:00</td>
<td>S. Paris (GER)</td>
<td>Caries sealing and infiltration: theoretical background</td>
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<tr>
<td>09:30</td>
<td>J. Berg (USA)</td>
<td>Clinical application of smooth surface sealing and infiltration in children</td>
</tr>
<tr>
<td>10:00</td>
<td>H. Meyer-Lückel (GER)</td>
<td>Indication and efficacy of smooth surface sealing and infiltration</td>
</tr>
</tbody>
</table>

**10:30** Morning Break

**M15** Early Childhood Caries 1

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00</td>
<td>K. Pieper (GER)</td>
<td>Early Childhood Caries (ECC) – epidemiology and association with (of?) independent variables</td>
</tr>
<tr>
<td>11:45</td>
<td>S. Twetman (DEN)</td>
<td>Early childhood caries – microbiological aspects and vertical transmission</td>
</tr>
</tbody>
</table>

**12:30** Lunch at the Exhibition Area (Gasteig)

**M17** Early Childhood Caries 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Speaker</th>
<th>Topic</th>
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<tbody>
<tr>
<td>14:00</td>
<td>D. Declerck (BEL)</td>
<td>Prevention of ECC: Why is it so difficult?</td>
</tr>
<tr>
<td>14:45</td>
<td>K. Bücher (GER)</td>
<td>Therapy strategies for early childhood caries</td>
</tr>
</tbody>
</table>

**15:30** Afternoon Break

**15:45** Closing ceremony

**20:00** Congress Dinner at Hilton Park Hotel
Main Lectures  
Saturday (June 20, 2009)

Gasteig Small Concert Hall / Kleiner Konzertsaal

**M14  Timing of orthodontic intervention and early orthodontic treatment**

- **09:00** F. Stahl (GER)  
  Prevalence of malocclusions and of orofacial dysfunctions and their interrelation in the primary and early mixed dentition

- **09:30** B. Kahl-Nieke (GER)  
  Early Orthodontic Treatment and Timing of Transversal Discrepancies

- **09:50** I. Rudzki-Janson (GER)  
  Early orthodontic treatment and timing of sagittal discrepancies

- **10:10** A. Wichelhaus (GER)  
  Early Orthodontic treatment and timing of vertical discrepancies

**10:30  Morning Break**

**M16  Interdisciplinary treatment approaches for patients with syndromes**

- **11:00** A. Cameron (AU)  
  Dental treatment planning for children with craniofacial anomalies

- **11:45** H. Korbmacher (GER)  
  Orthodontic treatment in patients with syndrome

**12:30  Lunch at the Exhibition Area (Gasteig)**

**15:30  Afternoon Break**

**15:45  Closing ceremony**

**20:00  Congress Dinner at Hilton Park Hotel**
<table>
<thead>
<tr>
<th>Session</th>
<th>Title</th>
<th>Authors</th>
<th>Institution</th>
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</thead>
<tbody>
<tr>
<td>09:00</td>
<td>High school children as advocates of oral health promotion in schools</td>
<td>S. BHASKAR, A. AL-HAMOUR, M. AL-SHARQI &amp; R. AL-ADWANI</td>
<td>Department of Growth and Development, Faculty of Dentistry, AUST, Fujairah, UAE</td>
</tr>
<tr>
<td>09:11</td>
<td>Prevention of oral health – knowledge of Polish paediatricians</td>
<td>K. EMERICH</td>
<td>Department of Paediatric Dentistry, Medical University of Gdansk, Poland</td>
</tr>
<tr>
<td>09:22</td>
<td>The role of salivary carboanhydrase and salivary buffers in caries prevention in children</td>
<td>D. ŠURDILOVIĆ, I. STOJANOVIĆ, M. IGić, M. APOSTOLOVIĆ, O. TRICKOVIC JANJIĆ &amp; L. J. KOSTADINOVIC</td>
<td>Department of Paediatric Dentistry, Medical University of Gdansk, Poland</td>
</tr>
<tr>
<td>09:33</td>
<td>Obesity and oral health among adolescents in the United Arab Emirates</td>
<td>F. A. KHADRI, M. P. HECTOR &amp; E. S. DAVENPORT</td>
<td>Queen Mary University of London, Barts and The London School of Medicine and Dentistry, Institute of Dentistry, London, UK</td>
</tr>
<tr>
<td>09:44</td>
<td>Pathway to oral health: the management of high caries risk paediatric patients</td>
<td>A. M. SANARES, A. STEPHEN &amp; L. SANK</td>
<td>Dept. of Paediatric Dentistry, Sydney Dental Hospital, Sydney, Australia</td>
</tr>
<tr>
<td>09:55</td>
<td>Pregnant women's knowledge of oral health care for children</td>
<td>B. DRUMMOND, J. ROTHNIE, C. WALSH, M. WANG &amp; K. MORGANE</td>
<td>Department of Oral Sciences, University of Otago School of Dentistry, Dunedin, New Zealand</td>
</tr>
<tr>
<td>10:06</td>
<td>Comparison of salivary characteristics between children with ECC and caries-free children</td>
<td>A. BAGHERIAN, G. H. ASADI KARAM, A. JAFARZADEH &amp; M. REZAEIAN</td>
<td>Dept. of Pedodontics, Dental School; Department of Biochemistry, Medical School; Department of Immunology, Medical School; Department of social medicine, Medical School, Ransfan University of Medical Sciences, Ransfan, Iran</td>
</tr>
<tr>
<td>10:17</td>
<td>Baby clinic – a pre- and postnatal project to promote oral health</td>
<td>E. MAMBER, S. FAIBIS, M. MOSKOVITZ, Y. SHAPIRA &amp; K. ZISKIND</td>
<td>Department of Pediatric Dentistry, Hadassah School of Dental Medicine, Hebrew University, Jerusalem, Israel</td>
</tr>
<tr>
<td>11:00</td>
<td>New method of in vivo monitoring of the enamel surface</td>
<td>J. HANDZEL, M. MARYŠKA</td>
<td>Stomatological Clinic, Faculty of Medicine, Charles University Prague; Institute of Chemical Technology, Dept. Glass and Ceramics, Prague, Czech Republic</td>
</tr>
<tr>
<td>11:11</td>
<td>The richest infant feed – a tested approach</td>
<td>A. M. XAVIER, K. RAI &amp; A. M. HEGDE</td>
<td>Dept. of Pedodontics and Preventive children dentistry, Rajiv Gandhi University of health sciences, Mangalore, India</td>
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<tr>
<td>11:22</td>
<td>Effect of xylitol-containing chewing gum on S.mutans scores in pregnant women</td>
<td>N. S. POPOVA, L. P. KISELNKOVA, O. A. OKSENTJUK, J. N. JAKOLOVA &amp; E. V. KIRILLOVA</td>
<td>Moscow Medical-Stomatological University Chair of children's stomatology, Russia</td>
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<td>11:44</td>
<td>Effect of CPP-ACP and APF on S.mutans biofilm: an in vitro study</td>
<td>A. PINAR ERDEM, E. SEPET, T. AVSHALOM, V. GUTKIN &amp; D. STEINBERG</td>
<td>Department of Pediatric Dentistry, Istanbul University, Istanbul, Turkey; Institute of Dental Sciences, Hebrew University, Jerusalem, Israel; The Harvey Krueger Center for Nanoscience and Nanotechnology, Hebrew University, Jerusalem, Israel</td>
</tr>
<tr>
<td>11:55</td>
<td>Effect of xylitol on some salivary risk factors of caries in schoolchildren</td>
<td>A. TRUMMLER &amp; W. STRÜBIG</td>
<td>Childrens Dental Clinic, St. Gallen, CH;  School Dental Clinic, Bern, CH</td>
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<tr>
<td>12:06</td>
<td>The Effect of CPP-ACP and Fluoride on Salivary Parameters in Malay Adolescents</td>
<td>A. VENKITESWARAN, H. AWANG &amp; Z. H. A. RAHIM</td>
<td>University of Malaya, Kuala Lumpur, Malaysia</td>
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<tr>
<td>12:17</td>
<td>Examination of antimicrobial and clinical effect of chlorhexidine-containing oral health care gel in children</td>
<td>A. BEGZATI, S. KNEIST, A. RAKA, T. ADEMAJ-KUTLLOVCI &amp; G. DAVID</td>
<td>Department of Pedodontics and Preventive Dentistry, University of Prishtina, Dental School of Prishtina, Kosova; Department of Preventive Dentistry, Friedrich-Schiller-University of Jena, Jena, Germany; Ivoclar Vivadent, Liechtenstein</td>
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<td>14:00</td>
<td>Sel1L may cross-talk with Notch and Tgf-beta signaling in tooth development</td>
<td>X. Xing, X. Wang, L. Wen &amp; Y. Jin. Department of pediatric dentistry, school of stomatology, Fourth Military Medical University, Xi’an, Shaanxi, China</td>
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<tr>
<td>14:11</td>
<td>Expression and Localization of Connexin 43 in odontoblast-like cells</td>
<td>L. A. Wu1, Y. Takagi1, I. Morita2, X. J. Wang1 &amp; L. Y. Wen1. School of Stomatology, Fourth Military Medical University, Xi’an, China; 2Graduate School, Tokyo Medical and Dental University, Tokyo, Japan</td>
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<tr>
<td>14:22</td>
<td>The relationship between bite force and body mass index (BMI) in adolescents</td>
<td>K. T. Sun1, S. C. Chen2, H. H. Chiang1 &amp; H. H. Tsai1. Department of Pediatric Dentistry, China Medical University Hospital; 2Department of Endocrinology, Cheng Ching Hospital; 1Department of Pedodontics, School of Taipei Medical University, Taipei, Taiwan, R.O.C.</td>
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<tr>
<td>14:33</td>
<td>Space changes following premature loss of a primary maxillary first molar: a 12-month study</td>
<td>Y. T. J. Lin &amp; Y. T. Lin. Department of Pediatric Dentistry, Chang Gung Memorial Hospital-Kaohsiung Medical Center, Chang Gung University College of Medicine, Taiwan</td>
<td></td>
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<tr>
<td>14:44</td>
<td>The developing apical foramen in permanent incisors</td>
<td>H. M. Liversidge1 &amp; T. Molleson2. 1Queen Mary University of London, Barts &amp; The London School of Medicine and Dentistry; 2Palaeontology Department, Natural History Museum, London, UK</td>
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<tr>
<td>14:55</td>
<td>Apoptosis and proliferation approach of human primary teeth with physiological root resorption</td>
<td>Z. Ben Aoun1, B. Sriha2, A. Bazziz3 &amp; S. Ghoul-Mazgar1. 1Laboratory of Histology and Embryology, Dental Faculty of Monastir, University of Monastir; 2Department of Pathology, Farhat Hached Hospital, Sousse, University of Sousse; 3Paediatric Department, Dental Clinic of Monastir, University of Monastir, Tunisia</td>
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<tr>
<td>15:06</td>
<td>The effect of pulpectomy on root resorption of deciduous teeth without successors</td>
<td>Y. Zhao, J. Yang, B. Lin &amp; L. Ge. Department of Pediatric Dentistry, School and Hospital of Stomatology, Peking University, Beijing China</td>
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Hilton Hotel Ballroom / Ballsaal

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<tr>
<td>09:00</td>
<td>N. Krämer (GER)</td>
<td>First experiences with a new local anesthesia with al lower adrenalin concentration</td>
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<tr>
<td>09:30</td>
<td>Repeated sessions of rectal midazolam-sedation for dental treatment in children</td>
<td>M. Bågesund1 &amp; C. Malmcrona2. 1Division for Public &amp; Child Dental Health, Dublin Dental School &amp; Hospital, Trinity College, University of Dublin, Ireland; 2Centre for Orthodontics and Pediatric Dentistry Norrköping, Sweden</td>
</tr>
<tr>
<td>09:41</td>
<td>Preoperative analgesics for additional pain relief in children having dental treatment</td>
<td>A. Behbehani1, S. Parekh1, D. M. Moles2 &amp; P. F. Ashley1. 1Unit of Paediatric Dentistry; 2International Centre for Evidence-Based Oral Health (ICEBOH), UCL Eastman Dental Institute, London, UK</td>
</tr>
<tr>
<td>09:52</td>
<td>Oral and rectal administration of midazolam in pediatric dentistry</td>
<td>E. Koerperich1 &amp; M. Atar2. 1Centre for Dental and Craniofacial Sciences Department of Orthodontics, Dentofacial Orthopaedics and Paediatric Dentistry Charité Universitätsmedizin Berlin CC3, Berlin, Germany; 2Head Swiss Smile Kids Dental Clinics, Mayfair, London, UK</td>
</tr>
<tr>
<td>10:03</td>
<td>Evaluation of osteocentral (trans-septal) anaesthesia in children and adolescents</td>
<td>J. L. Sixou, A. Marie-Cousin, A. Huet, B. Hingant &amp; J. C. Robert. Department of Paediatric Dentistry, University of Rennes 1 and CHU of Rennes, France</td>
</tr>
</tbody>
</table>
Outcome measures used for dental sedation in children and adolescents
S. PARALIKAKI1, D. M. MOLES2, S. PAREKH1 & P. F. ASHLEY1
1Unit of Paediatric Dentistry; 2International Centre for Evidence-Based Oral Health (ICEBOH), UCL Eastman Dental Institute, London, UK

Discussion

Oral session – Dental anxiety and behavioural management 2

11:00 Tramadol-A viable local anaesthetic alternative for pediatric dental extractions
M. Y. PADMANABHAN & R. K. PANDEY
Department of Pedodontics with Preventive Dentistry, Faculty of Dental Sciences, CSM Medical University (Erstwhile, King George Medical University), Lucknow, India

11:11 Dental Fear in children with CLP, a prospective study
W. E. J. C. VOGELS & J. S. J. VEERKAMP
Dept. of Cariology, Endodontology, Pedodontology, ACTA, Amsterdam, The Netherlands

11:22 Confidence of therapy students in paediatric dentistry
E. GIBSON1, P. DAY1, J. ROWBOTHAM2 & L. MORROW3
1Department of Child Dental Health; 2Department of Dental Hygiene and Therapy; 3Department of Restorative Dentistry, University of Leeds, Leeds, UK

11:33 The effects of different hypnotic interventions and distraction in pediatric dentistry
L. JILG, B. DETTMER & T. SCHNELLER
Medical Psychology, Medical University, Hannover, Germany

11:44 Child-parent interaction in different daily- and dentistry-related situations, an explorative analysis
M. A. KLAASSEN1, 2, J. S. J. VEERKAMP1 & J. HOOGSTRATEN2, 3
1Department of Cariology Endodontology Pedodontology, Academic Centre for Dentistry Amsterdam (ACTA); 2Department of Social Dentistry and Behavioural Sciences, Academic Centre for Dentistry Amsterdam (ACTA); 3Department of Psychological Methods, University of Amsterdam (UvA), Amsterdam, The Netherlands

Lunch & Learn KaVo

Oral session – Dental anxiety and behavioural management 3

14:20 Child rearing styles, dental anxiety and emotional and behavioral problems; an exploratory study
J. B. KRIKKEN & J. S. J. VEERKAMP
Dept. Cariology, Endodontology, Pedodontology, ACTA, Amsterdam, The Netherlands

14:31 Efficacy of non-aversive behaviour management techniques: Based on video assisted parental ratings
O. O. KUSCU, E. CAGLAR & N. S&ALLI
Department of Paediatric Dentistry, Yeditepe University, School of Dentistry, Istanbul, Turkey

14:42 Evaluation of aversive conditioning techniques in pediatric practice in Chennai, India
M. S. MUTHU, S. A. GOURI, V. CHARANYA & S. SHIFA
Pedo Planet, Pediatric Dental Centre, Chennai, India

14:53 Behaviour management techniques employed by dentists for their child patients
F. A. OREDUGBA & O. O. SANU
Department of Child Dental Health, College of Medicine, University of Lagos, Nigeria

15:04 The effect of low level laser therapy on pain during cavity preparation with laser in children
I. TANBOGA, F. EREN, F. ERTUGRAL & B. ALTINOK
Marmara University, Dentistry School, Department of Pediatric Dentistry Istanbul, Turkey
P13  Poster session – Epidemiology 2
09:00  Provision of dental general anaesthesia for children and associations with social deprivation
F. GILCHRIST1, S. A. CRAIG1, H. D. RODD1, A. KING2 & Z. MARSHMAN2
1Department of Oral Health and Development, School of Dentistry, Sheffield; 2NHS Sheffield, UK

09:05  The pattern of attendance of the paediatric patient to the undergraduate clinic
L. GARTSHORE & S. ALBADRI
Paediatric Dentistry Department, Liverpool University Dental Hospital, Liverpool, UK

09:10  Effect of health counseling of women in childbirth on children’s dental health
S. GREINER1, T. BISCHOF2, G. BORGERT3 & R. H. WELTZIEN3
1Department of Preventive Dentistry, Friedrich-Schiller University of Jena, Germany; 2Zahnprophylaxe Vorarlberg GmbH, Bregenz, Austria

09:15  Characteristics of children treated for early childhood caries in Tygerberg, Cape Town
N. MOHAMED1 & J. BARNES2
1Department of Paediatric Dentistry, University of the Western Cape; 2Department of Community Health, University of Stellenbosch, Cape Town, South Africa

09:20  Emergency dental care for children: an attendance profile
A. MORGAN1, C. PATCHETT2, S. ALBADRI3, C. DEERY1 & H. D. RODD1
1Paediatric Dentistry Department, Charles Clifford Dental Hospital, Sheffield; 2Paediatric Dentistry Department, University Dental Hospital of Manchester, Manchester; 3Paediatric Dentistry Department, School of Dental Science, University of Liverpool, Liverpool

09:25  Salivary antioxidant status of healthy and type 1 diabetic children
D. ONER OZDAS1, S. CAN TROSALA2, Y. GUVEN2 & G. AREN1
1Faculty of Dentistry, Department of Pedodontics; 2Faculty of Dentistry, Department of Biochemistry, Istanbul University, Istanbul, Turkey

09:30  Knowledge of parents about oral health in children with heart disease
H. NOOROLLAHIAN
Mashhad University of Medical Sciences, Dept. of Pediatric Dentistry, Mashhad, Iran

09:35  Epidemiological evaluation of temporomandibular disorder in a group of Iranian students
M. EBRAMI, H. DASHTI & M. ARGHAVANI
1Department of Pediatric Dentistry, Mashhad Dental School, Mashhad University of Medical Sciences; 2Department of Prosthodontics, Mashhad Dental School, Mashhad University of Medical Sciences; 3Dentist, Mashhad, Iran

09:40  Comparing the root-crown ratio of Japanese, Hungarian and German young population
B. RENCZ, M. INUMA, B. REMPORT, G. FABIÁN & I. TARBÁN
1Department of Paedodontics and Orthodontics, Semmelweis University, Budapest, Hungary; 2Department of Paediatric Dentistry, Asahi University School of Dentistry, Hozumi, Japan

09:45  Oral health awareness in 8- to 12-year-olds in Adana, Turkey
M. C. DOGAN1, G. SEYDAOGLU2 & C. SARITURK2
1Department of Pedodontics, Faculty of Dentistry; 2Department of Biostatistics, Faculty of Medicine, Cukurova University, Adana, Turkey

09:50  Parent’s awareness on their children’ malalignment and malocclusion in China
W. XIAOJING1, L. YINGFENG1, S. HIROSHI2 & Y. MASASHI2
1Department of Pediatric Dentistry, School of Stomatology, The Fourth Military Medical University, Xi’an, China; 2Department of Pediatric Dentistry, Tokyo Dental College, Masago, Mihama-ku, Chiba, Japan

09:55  Radiographic evaluation Of third molar development in a group of Turkish children
E. YAMAC YILMAZ, A. PINAR ERDEM, E. SEPET & Z. AYTEPE
Department of Pedodontics, Istanbul University, Istanbul, Turkey

10:00  The related factors of bruxism in children
X. ZHU, S. G. ZHENG & C. YU
Department of Pediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China

10:05  Use of sealants among general dental practitioners and paediatric dentists in Greece
M. SIFAKAKI, M. MICHALAKI, E. BERDOUSES & C. OULIS
Department of Pediatric Dentistry, Dental School, University of Athens, Greece

10:10  Some issues on dental public health in in rural parts
G. GONCHIG1, M. MYAGMARJAV2 & U. KHASBAZAR3
1Shidet-Od’ dental clinic, Ulaanbaatar; 2Mongolian Development Institute; 3Rural Public Health Centre, Khuvsgul, Mongolia

10:15  Oral health status according to WHO criteria and laser fluorescence measurements
S. KADIC1, V. PICEK1, O. LULIC ĐUKIC2, B. DELIJA3 & Z. SOSTAR3
1Department of Paediatric Dentistry, Dental Polyclinic Zagreb; 2Department of Paediatric Dentistry, School of Dental Medicine, University of Zagreb; 3City Office for Health, Labour, Social Protection and War Veterans, Zagreb, Croatia
Saturday (June 20, 2009)  

Poster presentations

**P14  Poster session – Cariology 1**

11:00  **Caries risk, cariogenic bacteria and the Cariostat: From childhood through old age**  
O. Rodis\(^1\), S. Matsumura\(^1\), N. Kariya\(^2\), Y. Okazaki\(^1\) & M. Nishimura\(^2\)  
\(^1\)Department of Behavioral Pediatric Dentistry, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences;  
\(^2\)Dental Hospital, Okayama University, Shikata-cho, Okayama City, Japan

11:05  **Levels of S-IgA among the infants with or without Early Childhood Caries**  
H. R. PoureSlami  
Department of Paediatric Dentistry, Member of Kerman Oral & Dental Diseases Centre, Dental School, Kerman, Iran

11:10  **The prevalence and etiological factors of dental erosion in children**  
M. Menderes, D. Cogulu \& N. Ersin  
Ege University School of Dentistry, Department of Pedodontics, Izmir, Turkey

11:15  **Functional analysis of ATP transporter proteins associated with antibiotic resistance in Streptococcus mutans**  
M. Matsumoto-Nakano, K. Nagayama, S. Inagaki, K. Fujita \& T. Ooshima  
Department of Pediatric Dentistry, Osaka University Graduate School of Dentistry, Suita, Osaka, Japan

11:20  **Influence of chlorhexidine and xylitol on oral microflora in children with ECC**  
E. V. Kirillova, L. P. KiselniKOva \& N. S. Popova  
Department of Pediatric Dentistry, and V. N. Tsarev, Dept. of Microbiology, Moscow State University of Medicine and Dentistry, Russia

11:25  **Infiltration of resin adhesive into proximal early caries lesions according to pretreatment methods**  
Dept. of Pediatric Dentistry, School of Dentistry, Pusan National University, Busan, Korea

11:30  **The antibiotic activity of Actinomyces isolated from black-stained primary teeth to S.mutans**  
Dept. of Pediatric Dentistry, School of Dentistry, Pusan National University, Busan, Korea

11:35  **Effect of extremely low frequency magnetic field on enamel microhardness in rats**  
B. Kargul\(^1\), I. Yavuz\(^2\), Z. Akdag\(^2\), A. Durhan\(^1\)  
\(^1\)Marmara University, Dental School, Department of Paediatric Dentistry, Istanbul;  
\(^2\)Dicle University, Dental School, Department of Pediatric Dentistry, Diyarbakir, Turkey

11:40  **Performance of ICDAS-II and fluorescence methods for detection of occlusal caries**  
A. Jablonski-Momeni\(^1\), S. M. Rosen\(^1\), H. M. Schipper\(^1\), M. Heinzelt-Gutenbrunner\(^1\) \& K. Pieper\(^1\)  
\(^1\)Dental School, Department of Paediatric and Community Dentistry, Philippus-University, Marburg, Germany

11:45  **Reproducibility of three fluorescence methods for occlusal caries diagnosis in permanent teeth**  
S. M. Rosen\(^1\), K. Pieper\(^1\), V. Stachniss\(^2\), M. Heinzelt-Gutenbrunner\(^1\) \& A. Jablonski-Momeni\(^1\)  
\(^1\)Dental School, Department of Paediatric and Community Dentistry;  
\(^2\)Dental School, Department of Operative Dentistry, Philippus-University, Marburg, Germany

11:50  **Contribution of recA gene for gtf expression by Streptococcus mutans**  
S. Inagaki, M. Matsumoto-Nakano, K. Fujita, K. Nagayama \& T. Ooshima  
Department of Pediatric Dentistry, Osaka University Graduate School of Dentistry, Suita, Osaka, Japan

11:55  **Senior dental students’ experience with cariogram in a pediatric dental clinic**  
C. Gonzalez\(^1\) \& C. Okunseri\(^2\)  
\(^1\)Department of Developmental Sciences/Pediatric Dentistry;  
\(^2\)Department of Clinical Services/Dental Public Health, Marquette University School of Dentistry, Milwaukee, WI, USA

12:00  **Identification of oral Streptococci by Denaturing Gradient Gel Electrophoresis (DGGE)**  
I. Konishi, T. Hoshino, Y. Kondo \& T. Fujiiwara  
Department of Pediatric Dentistry, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan

12:05  **Correlation of biological properties and expression profile of glucan-binding protein B in Streptococcus mutans clinical isolates**  
K. Fujita, M. Matsumoto-Nakano, Y. Takashima, S. Inagaki \& T. Ooshima  
Department of Pediatric Dentistry, Osaka University Graduate School of Dentistry, Suita, Osaka, Japan

12:10  **Black stain: A PCR microbiological study of cariogenic and periodontopathogenic microflora**  
B. Bartsch\(^1\), S. Eick\(^2\) \& R. Heinrich-Weltzien\(^3\)  
\(^1\)Health Department of Rhein-District, Neuss;  
\(^2\)Institute of Medical Microbiology, Friedrich-Schiller-University, Jena;  
\(^3\)Department of Preventive Dentistry, Friedrich-Schiller-University, Jena, Germany
12:15 In vitro activity of Scutellaria baicalensis Georgi extracts against Streptococcus mutans biofilms
C. DUAN1, S. MATSUMURA2, N. KARIYA2 & T. SHIMONO2
1Department of Pediatric Dentistry Zhong Shan Hospital of Dalian University, Dalian, China; 2Department of behavioral Pediatric Dentistry, Okayama University Graduate School of Medicine Dentistry Sciences, Okayama, Japan

12:20 The correlation between the mean DMFT and odontogenic infections in children
T. ADEMAJ-KUTLLOVCI1, A. BEGZATI1, K. MEQA2, A. J. BEGZATI1 & B. BRUČI1
1Department of Pedodontics and Preventive Dentistry; 2Department of Periodontology and Oral Medicine, University of Prishtina, Dentistry School, Prishtina, Kosova

12:25 A clinical study of enameloplasty applied in deep pit and fissure of young permanent molars
Y. CHANG, G. LIHONG, Z. YAN & Z. XIMING
Department of Second Dental Centre, Peking University School & Hospital of stomatology, Peking, China

12:30 An in-vitro comparison of visual inspection, bite-wing radiography and laser fluorescence methods for the diagnosis of occlusal caries
S. J. POURHASHEMI
Department of Pediatric Dentistry, School of Dentistry, Tehran University of Medical Sciences Tehran, Iran

P15 Poster session – Cariology 2

14:00 Characterization of enamel remineralization under sealants via polarized light microscopy
R. P. RUSIN1, K. J. DONLY2, I. HAEBERLEIN3 & A. M. PFARRER1
13M ESPE, Maplewood, MN, USA; 2University of Texas Health Science Center, San Antonio, USA; 33M ESPE, Seefeld, Germany

14:05 Micro-computed tomographic evaluation of effects of CPP-ACP on demineralized dentin
S. WARITA, K. OGATA, K. SHIMAZU, T. KAWAKAMI & H. KARIBE
Department of Pediatric Dentistry, Nippon Dental University, Tokyo, Japan

14:10 Selection of filling materials for conservative adhesive restorations in occlusal fissures
E. S. BOYARKINA & L. P. KISELENKOVA
Department of Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Russia

14:15 Use of “atraumatic restorative treatment” by pediatric dentistry professors in Brazil
C. FELL1, L. B. CAMARGO2, J. C. P. IMAPARATO2, A. E. HADDAD2 & D. P. RAGGIO2
1Sao Leopoldo Mandic; 2Pediatric Dentistry Department, University of São Paulo, São Paulo, Brazil

14:20 Correction of artefacts and calibration of μCT for studying caries-excision methods
A. A. NEVES, E. COUTINHO, S. JACQUES, P. LAMCREHTS & B. VAN MEERBEEK
Leuven BIOMAT Research Cluster, Department of Conservative Dentistry, Catholic University of Leuven, Belgium

14:25 Microhardness of dentine under Glass Ionomer Cement after three different caries removals
C. THANAO LARN, V. JIRARATTANASOPA & A. PHONGHANYUDH
Department of Pediatric Dentistry, Mahidol University, Bangkok, Thailand

14:30 The clinical performance of the occlusal minimally invasive restorations in primary molars
A. M. RĂDUCANU1, C. HERTELIU1, I. FERARU1 & I. CRISTEA1
1Department of Paediatric Dentistry, U.M.F. “Carol Davila”, Faculty of Dental Medicine; 2Department of Statistics and Econometrics, University of Economics, Bucharest, Romania

14:35 Assessment of manual restorative treatment (MRT) with amalgam: results after 5 years
I. M. SCHULER1, B. MONSE2 & R. HEINRICH-WELTZIEN1
1Department of Preventive Dentistry, University Hospital Jena, Germany; 2Department of Education, Health and Nutrition Center, Cagayan de Oro, Philippines

14:40 Effects of lasers and fluoride on the acid resistance of human decalcified enamel
C. C. CHEN1 & S. T. HUANG2, 3, 4
1Graduate Institute of Dental Sciences, College of Dental Medicine, Kaohsiung Medical University; 2Graduate Institute of Oral Health Sciences, College of Dental Medicine, Kaohsiung Medical University; 3‘Dentistry for Children and Disabled, Chung-Ho Memorial Hospital, Kaohsiung Medical University; 4Faculty of Dental Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan

14:45 Effects of an ART restoration on dentin
N. L. VISSER, C. P. J. M. BOON, W. E. VAN AMERONGEN & A. M. KEMOLI
Department Cariology Endodontology Pedodontology, Academic Centre of Dentistry Amsterdam (ACTA), Amsterdam, The Netherlands

14:50 Influence of the Hall-technique on the open bite and the crown length
W. E. VAN AMERONGEN & L. RADEMAKERS
Academic Centre of Dentistry Amsterdam (ACTA), Department Cariology Endodontology Pedodontology, Amsterdam, Netherlands
<table>
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<tr>
<td></td>
<td>Dept. of Paediatric Dentistry, Moscow State Medicine and Dentistry University, Moscow, Russia</td>
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<tr>
<td>15:00</td>
<td>Delivery of treatment in a paediatric dental practice – Changes over a 10-year period</td>
<td>N. KOTSANOS¹,², &amp; M. KOSTOPOULOU³</td>
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<td>¹Department of Pediatric Dentistry, Aristotle University; ²Paediatric dentist, Thessaloniki, Macedonia province, Greece</td>
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<td>15:10</td>
<td>The influence of ozone on retention of sealing material: a clinical study</td>
<td>W. DUKIC¹, O. LULIC DUKIC¹, A. ERDELJAC² &amp; S. KADIC³</td>
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<td>¹Department of Pediatric Dentistry, School of Dental Medicine, University of Zagreb; ²Department of Pediatric Dentistry, Dental Polyclinic Zagreb, Zagreb, Croatia</td>
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<td>15:15</td>
<td>The effect of ozone pretreatment on the microleakage of fissure sealants</td>
<td>S. B. CEHRELI¹, Z. YALCINKAYA¹, T. DEMIR¹ &amp; G. GUVEN-POLAT²</td>
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<td>¹Dept. of Paediatric Dentistry, Baskent University Faculty Dentistry; ²Dept. of Paediatric Dentistry, Center of Dental Sciences, Gulhane Medical Academy, Ankara, Turkey</td>
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<td>15:20</td>
<td>Effect of saliva contamination on microleakage of three different fissure sealants</td>
<td>A.R. ALPOZ &amp; A. TOPALOGLU-AK</td>
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<td>Ege University, School of Dentistry, Department of Pedodontics, Bornova, Izmir, Turkey</td>
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<td>15:25</td>
<td>Risk factors for Early Childhood Caries (ECC) in 2 to 5 year-old children</td>
<td>M. YILDIRIM, A. PATIR &amp; F. SEYMEN</td>
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<td>Istanbul University, Faculty of Dentistry, Department of Pedodontics, Istanbul, Turkey</td>
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<td>15:30</td>
<td><strong>Poster presentations</strong></td>
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**Saturday (June 20, 2009)**

**Poster case reports**

**Gasteig 2nd Floor**

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<th>P20</th>
<th>Dental trauma</th>
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<tr>
<td>09:00</td>
<td>Measurement of pulpal blood flow oscillation in luxated permanent incisors by laser Doppler flowmetry</td>
<td>T. SHIRAKAWA¹,², M. TAKEUCHI² &amp; T. KIKUIRÌ¹</td>
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<td>¹Division of Oral and Craniomaxillofacial Research, Dental Research Center; ²Department of Pediatric Dentistry, Nihon University School of Dentistry, Tokyo; ³Dentistry for Children and Disabled People, Department of Oral Functional Science, Hokkaido University Graduate School of Dental Medicine, Sapporo, Japan</td>
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<td>09:05</td>
<td>Use of pacifier and type of dental injury in children 0-2 years</td>
<td>B. H. ØSTERGAARD¹, J. O. ANDREASEN², S. S. AHRENSBURG³ &amp; S. POULSEN¹</td>
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<td>¹Dept. Pediatric Dentistry, School of Dentistry, Aarhus University; ²Dept. of Oral and Maxillofacial Surgery, Copenhagen University Hospital, Denmark</td>
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<tr>
<td>09:10</td>
<td>School teachers’ knowledge on dental trauma first aid</td>
<td>K. ARAPOSTATHTIS¹, A. KEVREKIDOU¹, A. MICHAILIDOU², V. TOPITSOGLOU² &amp; S. KALFAS²</td>
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<td></td>
<td>¹Department of Pediatric Dentistry; ²Department of Preventive Dentistry, Periodontology and Implant Biology; School of Dentistry, Aristotle University of Thessaloniki, Greece</td>
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<td>09:15</td>
<td>Knowledge, attitude and practices of school teachers in Lagos on the emergency management of dental trauma</td>
<td>O.O. ORENUGA, O. O. OLATOSI &amp; B. C. NWANIA</td>
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<td>Department of Child Dental Health, College of Medicine University of Lagos/ Lagos University Teaching Hospital, Nigeria</td>
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<td>09:20</td>
<td>Microscopic management of three patients with root fractures using mineral trioxide aggregate</td>
<td>G. ABOU AMEIRA, L. FOO &amp; P. BRIGGS</td>
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<td>Dept Paediatric Dentistry, St Georges Hospital, UK</td>
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<td>09:25</td>
<td>Management of avulsed permanent incisors with an immature apex: Two case reports</td>
<td>K. TAOUFIK¹, A. AGRAFIOTI², D. ZAMPELI¹ &amp; G. VADIAKAS¹</td>
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<td>¹Department of Pediatric Dentistry; ²Department of Endodontology, Dental School, Athens University, Athens, Greece</td>
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<td>09:30</td>
<td>Replacement of a lateral luxated primary incisor by using composite inclined plane</td>
<td>V. ARIKAN &amp; S. SARI</td>
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<td>Ankara University, Faculty of Dentistry, Department of Pedodontics, Ankara, Turkey</td>
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<td>09:35</td>
<td>The observation of dental trauma using limited cone beam CT: case report</td>
<td>J. ASARI, T. SUGIYAMA, K. YAMASHITA, M. KADENA &amp; M. INOUE</td>
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<td>Showa University School of Dentistry, Department of Pediatric Dentistry, Japan</td>
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</table>
09:40 Management of horizontal root fracture in mature permanent teeth: Two cases reports
N. ALTAY, S. BEKTAS, E. CANOGLU & H. C. GUNGOR
Department of Paediatric Dentistry, Hacettepe University, Ankara, Turkey

09:45 Post-traumatic aesthetic approach in primary teeth: case report
A. L. COSTA, M. T. XAVIER, J. C. RAMOS & B. P. LEMOS
Department of Dentistry, Coimbra Medical and Dental School, Portugal

09:50 Management of multiple traumatized teeth
P. K. DHANPAL & N. M. KING
Paediatric Dentistry and Orthodontics, The University of Hong Kong, Hong Kong SAR

09:55 Conservative approach of condylar fracture in growing patient: 1 year follow-up
E. B. TUNA¹, A. DUNDAR², B. CANKAYA² & K. GENCAY¹
¹Department of Pedodontics; ²Department of Oral Surgery, Istanbul University Faculty of Dentistry, Istanbul, Turkey

P21 Dental anomalies

11:00 Two cases of eruption disturbance of primary teeth
R. OKAWA, K. NAKANO, M. MATSUMOTO & T. OOSHIMA
Department of Pediatric Dentistry, Osaka University, Osaka, Japan

11:05 Dentin Dysplasia (DD) type II: report of an atypical case
K. TAOUFIK, C. REPPA, R. PITURO & D. EMMANOUIL
Department of Pediatric Dentistry, Dental School, Athens University, Athens Greece

11:10 Dentinogenesis imperfecta type II: Case report
R. PITURO, D. ZAMPELI & D. EMMANOUIL
Department of Paediatric Dentistry, University of Athens, Greece

11:15 The co-occurence of mesiodens and talon cusp: Two case reports
B. AKSOY, T. ILERI KECELI & H. C. GUNGOR
Dept. of Paediatric Dentistry, Hacettepe University, Ankara, Turkey

11:20 Report of two cases of Dentin Dysplasia with rootless teeth
A. PINAR ERDEM¹, B. BALLI¹, H. KURT¹, I. ULUKAPI¹ & E. SEPET¹
¹Department of Pedodontics; ²Department of Prosthodontics, Istanbul University, Istanbul, Turkey

11:25 Molar Incisor Hypomineralization – clinical management
P. FISCHER, V. BARDENHEUER, N. HAJEK-AL KHATAR & L. PIEHLMEIER
Kids Dental Care Center, München, Germany

11:30 Fiber-reinforced composite post restorations in Molar Incisor Hypomineralization: a case report
S. PEKER, S. GUNER & B. KARGUL
Department of Paediatric Dentistry, Faculty of Dentistry, Marmara University, Istanbul, Turkey

11:35 Long-term conservative management of regional odontodysplasia
S. OLMEZ, M. D. TURGUT & I. GUZELER
Department of Paediatric Dentistry, Hacettepe University, Ankara, Turkey

11:40 Hemisection and vital treatment of a fused tooth: a case report
T. ILERI KECELI¹, H. G. KECELİ¹, M. D. TURGUT¹, Z. YILMAZ² & M. TEKÇİÇEK¹
¹Department of Pediatric Dentistry, Hacettepe University; ²Specialist in Periodontology, Private Practice; ³Department of Endodontics, Hacettepe University, Ankara, Turkey

11:45 Developmental disturbances of teeth after cancer therapy: case reports
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

11:50 Management of an unerupted dilacerated maxillary central incisor with transplantation: Case Report
G. M. KELLY & A. C. O’CONNELL
Division of Public and Child Dental Health, Dublin Dental School and Hospital, Dublin, Ireland

11:55 Conservative management of hypomineralised enamel defects
R. MATSIUK & K. E. HARLEY
Department of Paediatric Dentistry, Edinburgh Postgraduate Dental Institute, Edinburgh, UK

12:00 Using nanocomposites in restorative treatment of dental fluorosis in children
E. A. SKATOVA, Y. N. NAZAROVA, S. S. BOGOMOLOVA, G. A. OSIPOV & G. R. BADERTDINOVA
Department of Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Moscow, Russia
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<tr>
<td>12:05</td>
<td>Restorative management of primary teeth affected by Hypoplastic Amelogenesis Imperfecta</td>
<td>S. SOOD &amp; K. E. HARLEY</td>
<td>Department of Paediatric Dentistry, Edinburgh Dental Institute, Edinburgh, UK</td>
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<td>12:10</td>
<td>Prosthetic rehabilitation of hypodontia: two cases report</td>
<td>İ UZEL¹, A. K. A. TOPALOĞLU¹, B. ÖZPINAR², G. UZEL² &amp; B. GÖKÇE²</td>
<td>Department of Prosthodontics, Ege University, Izmir, Turkey</td>
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<tr>
<td>12:15</td>
<td>Dens invaginatus or “dens in dente”: a case report, histological evaluation</td>
<td>S. VAN BEVEREN¹, M. PETERIN², T. H. DUJARDIN², A. VANDEN ABBELEÉ³ &amp; A. SHAYEGAN¹</td>
<td>Department Paediatric dentistry of Children’s Hospital of Queen Fabiola; Pathology and genetic department; Department of orthodontics of Children’s Hospital of Queen Fabiola; Department of adult and children operative dentistry, Université Libre de Bruxelles, Brussels, Belgium</td>
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<td>P22 Special needs patients</td>
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<td>14:00</td>
<td>Dental treatment under general anesthesia for a cleft palate child with heart disease</td>
<td>Y. HORIKAWA¹, Y. MIYAUCH¹, S. YOSHIMURA², M. SATO¹ &amp; M. INOUE M¹</td>
<td>Dept. of Pediatric Dentistry; Dept. of Dental Anesthesiology, Showa Univ. School of Dentistry, Tokyo, Japan</td>
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<tr>
<td>14:05</td>
<td>Hypohidrotic ectodermal dysplasia: prostodontic treatment in a paediatric patient</td>
<td>M. PĂUNA¹, A. M. RĂDUCANU², I. V. FERARU¹ &amp; R. ANGHELESCU³</td>
<td>Prosthodontics Department, U.M.F. “Carol Davila”, Faculty of Dental Medicine; Paediatric Dentistry Department, U.M.F. “Carol Davila”, Faculty of Dental Medicine; Paediatric dentist, Bucharest, Romania</td>
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<td>14:10</td>
<td>Orthodontic management of patients with disabilities: report of three cases</td>
<td>A. TRIKALIOTIS¹, E. KAKLAMANOS², D. VELONIS¹, N. KOTSANOS¹ &amp; N. TOPOUZELIS²</td>
<td>Department of Paediatric Dentistry; Department of Orthodontics, Aristotle University of Thessaloniki, Greece</td>
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<td>14:15</td>
<td>Childhood diabetes as dental risk factor</td>
<td>K. KÁRPÁTI¹, K. KÜRTI², E. KÓKAI¹ &amp; G. KOCSIS SAVANYA¹</td>
<td>University of Szeged Faculty of Dentistry; University of Szeged Faculty of Medicine, Szeged, Hungary</td>
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<td>14:20</td>
<td>Oral findings in Patients with NF1</td>
<td>L. KONDO¹, F. AMADORI¹, P. FLOCCHINI¹, G. PIANA¹ &amp; A. MAJORANA²</td>
<td>Department of Dental Science, Special Care Patients Unit, Alma Mater Studiorum University of Bologna; Department of Pediatric Dentistry, University of Brescia, Italy</td>
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<td>14:25</td>
<td>Research of utilizing TEACCH on oral hygiene education for autistic children</td>
<td>Y. H. HO¹ &amp; S. T. HUANG¹.²</td>
<td>Department of Oral Hygiene; Division of Pediatric Dentistry, Kaohsiung Medical University</td>
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<td>14:30</td>
<td>Oral health of underprivileged Romanian children: special needs versus normal kids</td>
<td>A. VINEREANU¹, A. GARRET-BERNARDIN², S. JUNG², F. CLAUSS² &amp; D. ANDRITOIU¹</td>
<td>Department of Pediatric Dentistry, University Carol Davila, Bucharest, Romania; Department of Pediatric Dentistry, University of Strasbourg, Strasbourg, France</td>
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<td>14:35</td>
<td>Monitoring of healthy and handicapped patients within treatment under general anesthesia</td>
<td>A. BUCEK, M. STANKOVA, K. GINZAŁOVA &amp; T. DOSTALOVA</td>
<td>Charles University, 2nd Medical School, Department of Pediatric Stomatology, Prague, Czech Republic</td>
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<td>14:40</td>
<td>Oral health status of cardiac surgical children in Istanbul</td>
<td>E. BOZDOGAN¹, A. DINDAR² &amp; O. AKTOREN¹</td>
<td>Department of Pedodontics, Faculty of Dentistry; Department of Paediatric Cardiology, Istanbul Faculty of Medicine, Istanbul University, Istanbul, Turkey</td>
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ABSTRACTS
MAIN LECTURES
Almut Zeeck is a Professor for Psychosomatic Medicine and Psychotherapy at Freiburg University and responsible for the day clinic as well as the outpatient clinic for eating disorders. She was born in 1963 in Frankfurt a. Main / Germany and attended Medical School in Göttingen / Germany. Clinically, she is specialized in Psychosomatic Medicine and Psychotherapy as well as in Psychiatry. Her main research interests are in eating disorders, psychotherapy research and day clinic treatment. She has published several articles in this field. Currently, she is involved in the development of the German AWMF guidelines for the treatment of eating disorders. Until March 2009 she was a member of the managing board of the German College for Psychosomatic Medicine (DKPM).

**Eating disorders in children and adolescents (M1)**

Eating disorders like anorexia nervosa and bulimia nervosa most often have their onset in childhood or adolescence. They can be associated with serious medical problems. One possible consequence is acidrelated dental erosion, which can be caused by exogenic (selection of food) or endogenic (gastric acid) factors. Dentists and general practitioners therefore are important collaborators of psychotherapists in the treatment of these patients.

First, an overview over different forms of eating disorders will be given, including etiology, characteristic symptoms, treatment and prognosis. A focus will be on early detection and intervention, which is crucial to prevent a chronic course of the illness. Besides general practitioners, dentists often are in “the front line” in detecting an eating disorder, especially bulimia nervosa. The typical difficulties in the interaction with eating disordered patients, who are highly ambivalent regarding treatment and their parents are addressed.

Finally, some characteristic damages to the teeth are reviewed and suggestions made for preventive and therapeutic interventions.
Obesity and dental caries of Greek Preschool children (M1)

Introduction

Obesity is a risk factor for several general health problems. The purpose of the present study is to investigate the relationship between obesity and dental caries in preschool Greek children.

Patients and methods

Using one-stage cluster sampling, children were randomly selected from 28 public kindergartens of the major area of Attica, Greece. The study protocol was approved by University of Athens Dental School Ethics Committee. After obtaining parental consent, a clinical dental examination was performed, recording open caries lesions. Weight and height were measured and the Body Mass Index (BMI) as well as z-scores were calculated for each child. Associations were estimated using correlation coefficients and a regression analysis model. A 5% level of significance was used to evaluate the results.

Results

One thousand and forty two children 2–6 years old were examined, out of which 36.4 % had at least one carious lesion. Regarding obesity, 17.5 % of the boys were overweight and 5.8 % were obese, while 15.8 % of the girls were overweight and 6.4 % obese. An increase of the boys’ mean BMI, comparing to the growth charts of the Greek population, was observed. The correlation coefficients as well as the regression analysis results indicate a negative relationship between obesity and dental caries, but this was statistically significant only for 4 yo boys (p= 0.01) and 5yo girls (p=0.003).

Conclusion

The results indicate that children with carious lesions have reduced growth as indicated by the BMI index. Obesity was not found to be a risk factor for dental caries in preschool Greek children.
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 20 years has covered several aspects of erosion, caries diagnosis as well as minimally invasive preparation techniques in operative dentistry. The publications in English has reached a number of over 170. He has received numerous National and International awards.

Etiology, Diagnosis and Epidemiology (M2)
Erosive tooth wear is becoming increasingly important when considering the long term health of the dentition. There is some evidence that dental erosion is growing steadily. Dental erosion is a multifactorial condition: The interplay of chemical, biological and behavioural factors is crucial and helps explain why some individuals exhibit more erosion than others. It is important that diagnosis of the tooth wear process in children and adults is made early. Clinical detection of erosive tooth wear is important once dissolution has started. The clinical appearance is the most important sign for dental professionals to diagnose erosion. Adequate preventive measures can only be initiated when the different risk factors are known and interactions between them are present. This lecture deals with the importance of early diagnosis of dental erosion, with its epidemiology as well as with its risk factors.
Dental Erosion – Prevention and Therapy (M2)

Dental erosion is a phenomenon which is subject of increasing scientific efforts and – because it is an acid induced disease – mostly is addressed in the frame of our knowledge from cariology. However, dental erosion has to be considered as an entity. For better understanding of the various aspects of prevention and therapy, the presentation will at first address its particular pathomechanism.

Going further to prevention, reasonable approaches for the primary prevention of the condition will be suggested. Most important is the appropriate information about causes of erosive tooth damage within the scope of the established prevention strategies and individual mentoring. Further measures related to the population depend upon the prevalence of erosion and should therefore be discussed specifically for the country in question. Secondary prevention should focus on the diagnostically correct detection of the early stages of erosions and should be followed by individually tailored causal approaches.

For therapy, effective causal and symptomatic strategies will be presented. Causal therapy essentially means the identification and elimination of the acid source whilst symptomatic measures aim to strengthen or protect the tooth surface so that both erosive demineralisation and loss of microhardness are inhibited. Substances that lead to acid resistant mineral precipitations in or on the tooth surface or that form permanent coatings are suitable for this. An update on the role of fluorides will be presented; further, particular emphasis will be given to oral hygiene recommendations. The presentation will conclude with a flow chart for prevention/treatment and case reporting.
Professor in education and research on oral health care for deprived communities, College of Oral Science, University of Nijmegen, Netherlands.

Previously, Professor in Community and Preventive Dentistry, Faculty of Medicine, Dar es Salaam, Tanzania and co-ordinator of the establishment of the dental faculty in Tanzania.

Former vice-chairman of the FDI World Dental Development Health Promotion Committee and now expert to the WDDHPC

Consultant and PhD supervisor for oral health projects in Bangladesh, Indonesia, Nepal, Turkey, China, Philippines, South Africa, Laos, Burma (Myanmar), Syria, Guatemala

Co-author of the WHO endorsed report “Basic Package of Oral Care”

Co-editor Nederlands Tijdschrift voor Tandheelkunde

**Oral health problems in children – a global analysis (M3)**

Globally, dental caries remains the major child oral health problem. In most countries caries in children remains largely untreated resulting in toothache, pulp involvement, painful ulcerations in the surrounding mucosal tissues, abscesses and fistulas. These conditions impact on the general health of children. Worldwide, caries contributes 15 times more to the burden of disease expressed in disability-adjusted life year (DALY) as compared to periodontal disease. Disability means pain and discomfort and lack of self care, mobility (school absenteeism), cognition, interpersonal activities, sleep and energy.

Globally, for the last 70 years data on caries have been collected worldwide using the DMFT/dmft index. This classical index provides information on caries and treatment experiences but fails to give information on the consequences of untreated dental caries that leads to disabilities. The recently developed PUFA index records the presence of severely decayed teeth with visible pulp involvement (P/p), ulceration caused by dislocated tooth fragments (U/u), fistula (F/f) and abscess (A/a). The PUFA index may be helpful in setting priorities in oral health planning with a reduction in PUFA being a priority goal in any National Oral Health Plan. Furthermore, there is a need to collect data on duration of toothache that children of different ages may experience in order to scale up a data collecting system that can be used for the calculation of DALYs. DMFT/dmft data do not stir the minds of political decision makers, but PUFA and DALYs may do so in advocating for action for improving oral health.
Reorientating oral health care for children – building from the basics (M3)

In most countries, including many high-income countries, caries in children remains largely untreated. Moreover, in low- and middle-income countries, a restorative approach for all children would largely exceed available resources. This failure to correctly address the caries issue in children points to the need for an alternative strategy.

In 2002, the Basic Package of Oral Care (BPOC) was developed with the intention of reorientating oral health care from an highly expensive “top-down” approach, which largely benefited the more wealthy, to a more primary health care approach with its leading principle of basic oral care for all. Here the emphasis was on prevention and affordable and sustainable basic care to meet peoples’ perceived needs and treatment demands.

The BPOC has three evidence-based components: a preventive program based on brushing with an affordable but effective fluoride toothpaste (AFT), provision of emergency care for toothache, odontogenic infections and trauma (OUT) and where feasible simple restorations using Atraumatic Restorative Treatment (ART). The first priority for any nationwide strategy to deal with caries must however be the implementation of AFT and OUT.

While originally conceived of principally for middle and low income countries with scarce resources, it has become recognised that the concept of the BPOC is as valid here as in many high-income countries where the poorer, disadvantaged communities often not only have the highest levels of oral disease but also the lowest access to oral health care services.
Worked for 13 years in Germany in her own dental practice focused on paediatric dentistry. Since 2002 working in the frame of an integrated expert program of German Development Cooperation to support the Department of Education in the Philippines in research and implementation of cost effective school based health programs.

Oral health within general health – the “Fit for School” program in the Philippines (M3)

Background: The health status of the child population in the Philippines is alarmingly poor. Mortality rates for infectious diseases like diarrhea and respiratory tract infections are highest among children below 5 years, two-thirds of pre- and school age children have soil transmitted helminth (worm) infection and nearly all elementary school children suffer from dental caries. According to the 2006 National Oral Health Survey caries prevalence in 6-year-olds was 91 %, with a mean dmft of 8.4 and a mean of 3.4 teeth with pulp involvement. Caries prevalence among 12-year-olds was 82 % with a mean DMFT of 2.9. On average, each 12 year old child has one tooth with pulp involvement. Curative treatment is not affordable.

Program: Schools with their administrative system and structure offer the ideal venue to address social inequities and expose all children to proven, evidence based and cost effective preventive measures. Daily handwashing with soap and toothbrushing with fluoride toothpaste is the school intervention of choice in the Philippines. Biannual de-worming of all children is the third health component of this “Fit for School” program. The costs for materials and supply are 0.40 Euro per child/year. Currently 630 000 children are enrolled in the program. Nationwide expansion is planned and the model can be easily modified to be appropriate for other countries.

Promising results have been obtained from a 18-month pilot study on the oral health component of the program with a 40 % preventive fraction for caries increment and 60 % reduction for caries progression into the pulp.
Molar Incisor Hypomineralisation (MIH) – a challenge for diagnosis and treatment

Diagnosis, Epidemiology and Etiology (M4)

The last decades, disintegrating permanent first molars of obscure origin have puzzled the dentists. The defects of the molars are often associated with disintegration of the enamel especially at the occlusal surfaces and the cusps. From a clinical point of view, these teeth are creating severe problems for the patients as well as for the treating dentists due to loss of substance, hypersensitivity and problems in performing adequate filling therapy.

In this presentation I am aiming at elucidating the clinical and histological diagnostic criteria of MIH. Further, I will show recent research concerning prevalence and etiology.

MIH is characterized by demarcated opacities in the enamel of the permanent first molars. The number of affected teeth varies and so the expression of the defects. The incisors are often concomitantly affected. Similar defects also can be seen at the tips of the permanent canines and in the primary second molars. Histologically the hypomineralized enamel had a distinct border to the normal enamel following the band of Hunter-Schreger. The more porous yellow/brown defects extend through the whole enamel layer while the white-cream opacities were situated in the inner parts of the enamel. The prevalence is varying in different European child populations (3.6 – 37.3 %). Prevalence studies from the remaining world are still sparse. The etiology is still obscure. Medical problems in the prenatal, perinatal, postnatal periods seem to influence the prevalence.
During 1990’s and until 2004 I was head of the department of Paediatric Dentistry at the Eastman Dental Institute in Stockholm. During that period I was also the director of the postgraduate program in Paediatric Dentistry and 15 dentists have been authorized as specialists in Paediatric Dentistry under my supervision. In 2001 I was assigned a professorship in Paediatric Dentistry at the Faculty of Odontology, Malmö University, Sweden. In 2007 I was appointed Professor Emerita. In 2005 I was assigned to chair the project group on ‘Caries - diagnosis, risk assessment and early treatment’ at the Swedish Council on Technology Assessment in Health Care (SBU). The report was published in December 2007. During 1999–2002 I was a member of the project group ‘Caries prevention’ at SBU and in 2003. Presently I am a consultant and member of a group at the National Board of Health and Welfare on National guidelines related to the Swedish insurance system of adult dentistry. I am also a member of a project group at SBU on ‘Evidence-based endodontic therapy’.

MIH – present knowledge about its cause and effective therapy (M4)
Seemeral studies on the occurrence of Molar Incisor Hypomineralization (MIH) from around the world indicate that the condition is a global phenomenon. The reported prevalence and severity of MIH vary, however. This may reflect true regional differences, but part of the prevalence variation probably depends on different criteria and methods used to define the presence and severity of MIH. The mineralization disturbances most probably originate from pregnancy, delivery or early infancy and a critical time up to the age of 4 has been suggested. The aetiology remains, however, unclear. Correlations between MIH and severe diarrhoea, episodes of high fever, antibiotic use, chicken pox or other prolonged infections during early infancy are reported, but healthy children without such experiences also meet with MIH.

There is little reported experience and practically no evidence of the effectiveness of different long-term treatment strategies. This presentation includes the clinical features of MIH and aspects of differential diagnostic issues. It will also focus on clinical experience of long-term treatment options and their effectiveness. Lastly, the presentation will highlight the importance of proper temporary treatment and long-term treatment planning in agreement with the parent and the patient, particularly in cases of severe MIH.
David Ricketts qualified at Guys Hospital Dental School, now GKT Kings College, in 1986. He worked in hospital and General Practice for two and a half years and returned to Guys to study for an MSc in Conservative Dentistry in 1989. During this period his main research interest in Cariology, and in particular caries diagnosis and its appropriate management, began and led to a PhD which was gained in 1995. He has published widely in his research area and in other aspects of restorative dentistry. His research has led to collaboration with colleagues in numerous European Countries and North and South America. In 1999 David moved to Dundee and was promoted to Senior Lecturer / Honorary Consultant in Restorative Dentistry in 2003. In 2006 he became leader of the Section of Operative Dentistry, Fixed Prosthodontics and Endodontontology at Dundee Dental School and in 2007 became Professor of Cariology and Conservative Dentistry.

**New methods in caries diagnosis and monitoring – Visual methods (M5)**

Examination of the dentition for caries always starts with a visual examination. The way in which this examination is carried out varies considerably depending on the nature of the setting and purpose for which its results will be use. A clinical examination in a general practice setting which informs the individual patient’s management plan may be different to an epidemiological examination which collects data for disease prevalence trends for populations, which in turn may be different in a clinical trail looking at the efficacy of a new fluoride toothpaste for example. This lack of consistency means that data collected on caries in different clinical settings or studies are not comparable. In addition criteria for scoring caries from a visual examination is often not associated with the histopathology of the disease.

To address these issues the International Caries Detection and Assessment System (ICDAS) was devised which is based upon the examination of clean, and wet and dry teeth. The system characterises the increasing severity of lesions from the first visible signs of caries to the advanced cavitated lesion and relates this to the histopathology of the disease. It also aims to provide an evidence base for appropriate management of caries. This presentation reviews the development of the ICDAS criteria, the evidence base for its use and how it can be used in conjunction with more novel techniques.
Potential of additional caries detection and diagnostic methods (M5)

In recent decades epidemiological studies have shown a general drop in the caries prevalence together with a concentration of lesions in the pits and fissures of permanent molars in children and young adults in many industrialized countries. While progression of caries lesions generally appears to slow down with increasing age, the paediatric dentist will diagnose young patients and adolescents with non-cavitated caries lesions more frequently. Therefore, early detection, correct diagnosis and monitoring of those lesions are key targets in the overall effort to move away from operative towards non-operative preventive dentistry. Reflecting basic requirements of adjunct caries detection and diagnostic methods, e.g. validity, reproducibility and clinical practicability, the lecture will conclude that visual inspection will be the primary examination method. Nevertheless bitewing radiographs and laser fluorescence measurement (DIAGNOdent) will help the clinician to detect and diagnose visual non-detectable enamel and dentine caries lesions in the primary and/or secondary dentition. Furthermore, the potential of the available methods for caries monitoring will be discussed.
Clinical treatment opportunities by modern caries activity diagnosis (M5)

Caries is a multi-factorial oral disease. Some of the factors which have been considered as essential in the caries process have been used in commercially available caries diagnostics to evaluate individual’s caries risk. Many years of clinical experience revealed that almost none of these caries risk diagnostics improve the efficiency of today’s Gold Standard for caries risk: DMF(S). Oral microbiology considers caries is an opportunistic disease. That is, the presence of caries bacteria is a prerequisite for caries but not a sufficient condition to understand individual’s caries risk. Everybody possesses teeth, consume carbohydrates and harbour substantial amounts of caries pathogens in mouth. Although, everything is in place, individual’s can live for decades without caries damages. Obviously, individuals can tolerate the presence of caries bacteria in mouth. It seems to become more and more apparent that the activity of the prevailing caries bacteria in mouth increases and decreases over time when it is “opportune”. In this presentation different techniques to determine the activity of caries bacteria in dentin lesions, initial lesions and in the oral microflora will be considered as well as its use to improve treatment procedures and to monitor treatment success. Finally, it will be highlighted that new and adequate caries diagnostics as new guidance in minimal invasive dentistry or minimal interventional dentistry are essential.
Pulpotomy in primary teeth (M6)
Pulpotomy is the common therapy for cariously-exposed pulps in symptom-free primary molars, its aim being to preserve the radicular pulp, avoid pain, swelling and ultimately retain the tooth. Although many techniques have been suggested, there is still need of evidence to which is the most appropriate technique. Dilute formocresol is regarded as the past “gold standard” due to its concerns regarding cytotoxicity and potential mutagenicity. Calcium hydroxide has reported problems with internal resorption. Ferric sulphate has been used recently due to its haemostatic effect and the Er:YAG laser has also been suggested as an alternative due to its haemostatic, antimicrobial and cell stimulating properties with only slight thermal alteration to the pulpal tissue. Grey and white mineral trioxide aggregate (MTA) is currently the most promising technique, not only for pulpotomy purposes but also for apexification and other special endodontic indications. There is also answer in sight regarding the high costs of MTA with a generic cement from Switzerland called “Weisser Portlandzement”. The aim of this presentation is to give an overview about the different techniques as well as some data to their long-term effectiveness.
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 in South and Central America, Mexico, United States, Canada, Italy, France, Spain, Greece, Cyprus, Panama, Germany, China, South Africa, Ireland, Thailand and Australia, and became honorary member of the Mexican, Italian, Belgian and Brazilian Academies of Pediatric Dentistry.

Dr. Fuks is a member of the American Academy of Pediatric Dentistry and of the editorial board of several dental journals. Having received several international prizes in research, she has published over 110 articles and 85 abstracts in many international journals, and wrote 15 chapters in Pediatric Dentistry books. Presently she continues teaching at the Department of Pediatric Dentistry of the Hadassah School of Dental Medicine in Jerusalem is a member of the State Board Exams for Pediatric Dentistry and Endodontics, and is President of the International Association of Pediatric Dentistry.

**Pulpectomy and root canal treatment in Primary Teeth (M6)**

When the pulp of a primary tooth becomes irreversibly infected or necrotic, a pulpectomy and root canal treatment is indicated.

This presentation will focus initially on the indications and contraindications of pulpectomy for primary teeth, followed by a brief description of the techniques available for preparation of the canals and the various rinsing solutions recommended.

The properties of the most commonly used resorbable filling materials will be described and compared to the traditionally employed ZOE. Complications such as the development of cysts or ectopic eruption of the permanent successor will be analyzed. Finally a search of the existing literature on clinical trials of root canal treatments in primary teeth using various materials will be reported. Not too many articles were available and one can conclude that there is no conclusive evidence for the superiority of any type of filling material for primary teeth. There is a substantial need for well-designed clinical studies on this subject.
Associate Professor of Clinical Endodontics, Department of Operative Dentistry & Periodontology at the Ludwig-Maximilians-University Munich/Germany (Dean: Prof. Dr. R. Hickel). Dr. Kaaden also maintains a private endodontic practice in Munich, Germany.

09/1999–10/2000 Visiting Fellow at the Biomaterials Research Centre University of Texas, Houston (Dean: Prof. Dr. J.M. Powers)
11/2000–12/2005 Assistant Professor at the Department of Operative Dentistry & Periodontology-Ludwigs-Maximilians-University Munich/Germany (Dean: Prof. Dr. R. Hickel)
2003–2006 International Endodontic Program-University of Pennsylvania, Philadelphia/USA (Dean: Prof. Dr. S. Kim)
2006 Certified Specialist in Endodontics (DGZ)
01/2006 Associate Professor at the Department of Operative Dentistry & Periodontology-Ludwigs-Maximilians-University Munich/Germany (Dean: Prof. Dr. R. Hickel)
2008 part-time private practice limited to endodontics in Munich/Germany

Endodontics in immature permanent teeth (M6)
Caries and traumatic injuries are great challenges to the integrity of the developing tooth. They can result in irreversible pulpal damage, eventually causing pulpal necrosis and arrested development of the tooth root. This presentation will review former and current concepts of endodontics in immature permanent teeth and will further address future trends in regenerative endodontics.
Antibacterial adhesives (M7)

Effective adhesion to tooth hard tissues is a fundamental prerequisite for clinical success with bonded tooth-colored dental biomaterials. In times of more and more totally bonded restorations, especially dentin bonding gained importance for durable retention of primary teeth restorations. Neglecting dentin bonding may lead to medium-term failures when occlusal enamel is abraded during the first years of clinical service.

Up to now, there exist several recommendations for cavity disinfection from hydrogen peroxide to sodium hypochlorite to chlorhexidine gluconate or even simply phosphoric acid. The present keynote lecture covers different aspects of cavity disinfection, especially by using antibacterial adhesives like Clearfil Protect Bond (Kuraray, Tokyo, Japan), which is proven to reveal antibacterial effects through its effective component MDPB. A comparison of antibacterial efficacy is given compared to conventional methods and discussed together with recent aspects of preserving resin-dentin hybrid layers. Moreover, μ-TBS and chewing simulation results of recent adhesives are shown and open questions and future projects on the subject are discussed such as clinical impact and alternative strategies such as silver particle incorporation into primers, adhesives and resin composite materials.

Using antibacterial adhesives is an interesting trend which is clinically proven at least for Clearfil Protect Bond, however, also alternative strategies are promising.
Gavin Pearson trained as a dentist and is also a clinical material scientist. Since retirement three years ago, he has remained as an Honorary Professorial Research Fellow at Queen Mary University of London. He has carried out extensive research on PAD and glass ionomer cements leading two research groups in these areas. He has published widely on both subjects and is currently continuing work on PAD with the University of Brighton.

Photo Activated Disinfection as a means of bacterial control in dental disease (M7)

Introduction: The concept of photo activated disinfection (P.A.D) for use in dentistry dates from the late 1980s. This technique involves the use of a photosensitising agent which targets the rapidly multiplying bacteria and a light operating at a wavelength matched to the peak excitation of the photosensitiser. The photosensitisers are generally low concentration aqueous solutions of phenothiazine derivatives such as Methylene blue and Tolonium chloride. The initial studies utilised laser diodes as the light source. Recently it has been shown that the LED light sources can provide the requisite energy to produce a similar effect. This has led to a diversification in the applications for which this technique may be used.

Materials and methods. Laboratory studies using the LED light sources have measured the bacterial load reduction both in planktonic solutions and in biofilms. Additional investigations have investigated the effect of this treatment on bacteria within dentine. Temperature changes at the operation site were also evaluated.

Results. Substantial bacterial load reduction was achieved in both planktonic and biofilm models. These are similar to those observed with a laser light source. This finding was also noted on bacteria protected by up to 1mm of dentine. A maximum 3°C rise in temperature was observed over the longest treatment time, two minutes.

Conclusions. The results show that use of LED light has a similar effect to light from a laser light source and provide and effective means of controlling bacterial colonies in dental infection.

The authors wish to acknowledge the funding for this research provided by Denfotex Ltd Handcross UK.
Main research: Caries aetiology and -prevention, Caries epidemiology

**Fluoride releasing restorative materials (M7)**

Due to the well-documented caries inhibiting effects of fluoride different restorative materials have been developed which are able to set minor amounts of fluoride free. The rationale for this concept is to prevent secondary caries or primary caries at adjacent sites. Among the fluoride releasing materials are glass ionomer cements (GIC), composites and their modifications. The fluoride release is highest from conventional GIC but diminishes quickly after an initially high release. The release from other materials follows the same pattern but with lower fluoride amounts. In vitro studies have shown that the fluoride released from the different materials is bound in or on the adjacent enamel, and that, predominantly by glass-ionomers and compomers, secondary caries can be reduced. In vivo, fluoride-releasing materials can increase the fluoride level in saliva, plaque and enamel. However, in vivo studies have shown conflicting results with respect to caries inhibition. In particular, when other fluoride sources like dentifrices are used regularly, there seems to be no additional effect of the fluoride release from the restorative material. This applies also for the caries inhibiting effect after a fluoride ‘rechargement’ of the material. However, in children who do not use a fluoridated dentifrice as recommended the use of fluoride releasing restorative materials provides some caries inhibiting potential.
Joel H. Berg, DDS, MS
Seattle, USA

Department of Pediatric Dentistry, University of Washington, School of Dentistry, and Seattle Children’s Hospital, Seattle, Washington, USA

Joel H. Berg, DDS, MS, is Professor and Lloyd and Kay Chapman Chair for Oral Health. He serves as the Chair of the Department of Pediatric Dentistry at the University of Washington and as Dental Director at Seattle Children’s Hospital. He is a Board Certified Pediatric Dentist, and is a Trustee of the American Academy of Pediatric Dentistry. Dr. Berg previously held positions as Vice President of Clinical Affairs at Philips Oral Healthcare from 2000–2003, Head of the Scientific Department for ESPE Dental AG from 1998–2000, and Director of the Postgraduate/Residency Program in Pediatric Dentistry at the University of Texas, Houston from 1989 through 1995, where he conducted numerous clinical trials evaluating restorative materials. He is the author of over a multitude of manuscripts, abstracts and book chapters regarding a variety of subjects, including restorative materials for children and other work related to biomaterials, and is a co-editor of a textbook on early childhood oral health. His current research interests include the development of dental caries prevention programs using risk assessment models and early childhood oral health.

Postgraduate Training in the US (M8)
Advanced education in Pediatric Dentistry in the United States is an area of active and growing interest. Whereas 10 years ago there were only around 250 entering positions per year, there are now over 300 per year. In addition, the number of applicants to programs has grown in even greater proportion to the number of slots. Programs are characterized as being primarily school-based or hospital-based, and offer a variety of advanced degrees in addition to granting a certificate in pediatric dentistry, allowing one to declare themselves as a specialist in the field, and making one educationally qualified to become board certified. In spite of the rapid growth in support and interest in the specialty, there are many challenges facing advanced education in Pediatric Dentistry. Foremost is the matter of recruitment and retention of qualified faculty. Provision of services for an ever growing underserved population is a great challenge. Financial support for programs is getting sparser each year, and governmental programs to sustain residency growth are challenged each year. This program will discuss pre-doctoral and postgraduate Pediatric Dentistry in the United States, and will provide a basic layout of the curriculum as well as providing answers to current and potential challenges. Examples of programs that have developed creative solutions for some of the described issues will be given.
Clinical application of smooth surface sealing and infiltration in children (M13)

Caries is a time-dependent biofilm induced, and saliva mediated acid demineralization of enamel and dentin. Clinicians treating children are continually confronted with caries lesions that are too large to successfully remineralize yet too small to justify cutting into healthy tooth structure merely to gain access to the cavity and create a restoration. In some instances, surface sealing can be used, and this technique will be described. Recently, a technique has been introduced into the marketplace that will allow restoration of caries affected tooth structure, even at or slightly beyond the depth of the dentino-enamel junction, without cutting tooth structure, and obtain restoration. This technique has been developed by Meyer-Lückel & Paris of the University of Kiel and is known as “Infiltration”. In the primary dentition, caries progresses even at a greater rate than in the permanent dentition and therefore, there may be a greater need to halt progression of caries lesions before the surface is deeply cavitated, and a traditional restorative procedure is required. This presentation will describe the clinical techniques for using infiltration in the primary dentition on both accessible facial and lingual surfaces as well as less accessible interproximal surfaces. Reference will be made to the science allowing infiltration while focusing on practical clinical requirements to achieve success. The author will present cases performed using the infiltration technique in several different clinical circumstances. Careful review of the appropriate and related techniques of behavior management and rubber dam placement will be described. Clinical success using the new infiltration product, as with any effective restorative technique requires adherence to good clinical protocol.

This presentation is supported by DMG-Hamburg.
Luc Martens, Prof. Dr. Gent, Belgium

Prof. Dr. Luc Martens (UGent 1980) is chairman of the dept. of Paediatric Dentistry and Special Care at the university of Ghent-Belgium. He is the director of the Masters programme in Paediatric Dentistry and Special care and coordinates the PaeCaMeD research group. He promoted 6 PhD theses and published > 75 international papers. Prof Martens is scientific advisor of the European Archives of Paediatric Dentistry and is reviewer for several international journals. Furthermore he is a wellknown national and international lecturer and organised the 3rd European congress of paediatric dentistry (1996) and the 4th European Laser conference in Belgium. Prof Martens is past-president of the Belgian and the European Academy of Paediatric Dentistry. Recently he became past-president of the International Association for disability and oral health (IADH). In 2007 he was appointed as visiting professor at ACTA-Amsterdam. Prof Martens will be the congress president of the 20th IADH congress in Ghent, Belgium-2010.

EAPD concept of postgraduate training in Europe / ADEE (M8)

After the founding of the EAPD 1990, it was a major concern to work on training programmes. After a first review on the variety in training programmes throughout Europe, the need for curriculum guidelines became clear. A task force came together in Gothenborg and at the 2nd EAPD congress (Athens 1994), a forum was organised with 15 academics in paediatric dentistry. After approval of the final guidelines (Bruges 1996), they were published in 1997 (International journal of Paediatric Dentistry: 1997; 7:273-281). The EAPD defined the specialty of Paediatric dentistry as the practice, teaching of and research in the comprehensive, preventive and therapeutic oral care of children from birth to adolescence. One of the major ideas behind this EAPD concept for postgraduate training is to uniform programmes and to train candidates to a comparable standard throughout Europe. For this the general and basic guidelines are the following:

– a 3 years programme or equivalent to 4800 hrs training.
– within the programme there should be a distribution of
  • clinical experience including hospital dentistry (min. 50 %)
  • didactic study and academic courses (10 %)
  • a research project (10 %) suitable for presentation at a scientific congress and/or publication in a scientific journal.
– The core programme requires 75 % of the specified EPAD training guidelines.

The published document includes guidelines for: main goals of a programme, programme objectives, general and specific conditions, objectives of obligatory courses for education and training of paediatric dentists. For each obligatory course, the level of expected knowledge and competence was pointed out.
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. He is Director of postgraduate taught courses at Leeds Dental Institute and is also the postgraduate tutor for the MDentSci programme in Paediatric Dentistry at Leeds. Prof Toumba has published over 60 research papers/books/articles in international journals and obtained research grants valuing £2m. Jack is co-author of ‘Restorative Techniques in Paediatric Dentistry’ and handbook of 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 and the use of fluorides.

Postgraduate Training in Paediatric Dentistry (M8)

University postgraduate training programmes in Paediatric Dentistry are usually Master’s degree programmes of either two or three years duration. Some Institutions like the University of Leeds are introducing new three year Professional Doctorate programmes in Paediatric Dentistry. In principle approval must be obtained with an external review of the proposed programme followed by approval from the hierarchy of University learning and teaching committees before the full detailed application is then submitted for final approval. The new course must then be advertised together with details of the fees. Postgraduate students wish to gain knowledge and clinical experience to become competent Paediatric Dentists at specialist level or equivalent on completion of their course and good programmes will endeavour to achieve this. The academic curriculum must be up to date and cover all aspects of the subject with the students participating in tutorials, seminars, literature reviews and journal clubs etc.

Clinical training involves a wide range of experiences from personal treatment sessions to trauma and consultant (specialist) clinics and treatments under sedation or general anaesthesia. Examinations and assessments must be performed and feedback given to students on a regular basis. Research projects on a topic related to Paediatric Dentistry must be undertaken and most students also perform an audit project. Final graduation involves the presentation of a number of clinical board cases covering a range of specified topics, written examinations and the defence of a research dissertation. Some Institutions have their programmes accredited by outside professional bodies for example by the European Academy of Paediatric Dentistry. Students are encouraged to present their research and clinical cases at Paedodontic conferences and subsequently to publish in peer reviewed journals.
He received his DDS from the Martin-Luther-University Halle-Wittenberg in 1992. Since 1993 he has been member of the department of paediatric dentistry at the same university, since 2002 as associate professor. He obtained his Dr. med dent in 1997. He received his Dr. med. dent. habil. in 2003. In 2007 he became a full professor for paediatric dentistry at the University of Leipzig and 2008 president of the German Association of Paediatric Dentistry. Research interests are: aetiology and epidemiology of temporomandibular disorders in children and adolescents, oral health related quality of life in children and adolescents. He is a peer-reviewer for several professional journals. Membership: German Association of Paediatric Dentistry, International Association for Dental Research (IADR).

Current Trends in Germany (M8)

Due to the historical development after World War II, the development of paediatric dentistry was different in both parts of Germany. For a long time, paediatric dentistry did not play a role neither in the dental curriculum nor in postgraduate dental education in Western Germany. The first steps to establish paediatric dentistry took place in the late 1980s. In the former Eastern part of Germany (GDR), there had been established a specialist career of paediatric dentistry since 1961 including a broad range of clinical knowledge and experiences at specialist level.

After the German reunification in 1990, there was an upturn of paediatric dentistry due to many reasons, for example due to the European and international development and the increasing number of members in the newly founded German Association of Paediatric Dentistry. Since 1993 paediatric dentistry has been part of the undergraduate dental curriculum in Germany. Currently postgraduate education in paediatric dentistry in Germany includes 2 levels. Interested dentists can achieve:

- a “Certificate for Paediatric Dentistry” based on a 150 hrs program with weekend courses;
- a diploma as a “Dentist with additional qualification in dentistry for children and young patients” based on a 3-year full-time program (equivalent to 4800 hrs of training) at an university dental school accredited by the German Association of Paediatric Dentistry and the German Association for Conservative Dentistry.

Within the program participants should:

- gain clinical experience including hospital dentistry proven by a number of own treated clinical cases,
- take part in didactic studies and academic courses,
- perform a research project suitable for presentation at a scientific congress and publication in a peer-reviewed journal.

To achieve a “Master of Science” degree (based on the ECTS) is a further discussed option. For the future, the aim is to establish an official “Specialist of Paediatric Dentistry” in Germany.
How clean should a cavity be before restoration? (M9)

Dental caries is an infective process where there is a dynamic relationship between the host and the invading bacteria. There are now known to be hundreds of different types of bacteria present in the mouth, with or without the development of caries and, indeed, they will be present under restorations with absolutely no signs of disease. These bacteria work together to respond to environmental changes e.g. either locally in a restoration-tooth interface or in the mouth as a whole. The dilemmas facing clinicians is more complex now than ever, as we have materials that can have a range of effects: from being simple sealers – to prevent bacterial ingress and proliferation, to materials with anti-bacterial properties.

Furthermore, one mustn’t forget that the pulp – dentine complex is a vital living organ and can respond by healing, with the laying down of reparative dentine, especially in the presence of therapeutic agents.

This talk will look at ways of determining the extent of dentine caries, using sound observational techniques backed up by microscopical imaging and bacteriological studies. The dynamics of the bacteria-tooth complex in clinical caries management experiments has shown that there are changes in the depths of a cavity with time, as bacteria and the pulp-dentine complex re-establish equilibrium. This may not result in the continuation of the carious process.

This lecture will therefore give food-for-thought on how much decayed tissue needs to be removed during cavity preparation and how we can use new research methods to measure precisely the amount of remaining carious dentine. New (and old) techniques for caries removal will be briefly introduced, with the main emphasis being the interaction of the residual cavity surface with adhesive restorative materials.
New methods in caries therapy – Self limiting caries excavation (M9)

Caries excavation can be performed with a variety of techniques. The key question associated with all excavation techniques is, how much material has to be removed. Defining the therapeutic endpoint for caries excavation still remains a question very hard to answer even today, especially when overtreatment should be avoided.

It would be nice if the excavation technique would be self-limiting. The term “self-limiting” refers to methods which have an implicit therapeutic endpoint. Enzymatic techniques, for example, are self-limiting because the enzymes can only remove tooth substance which is the primary target of the enzyme action.

Polymer burs rely on another self-limiting approach. They are softer than sound dentin, but hard enough to remove certain amounts of demineralized dentin.

There is no single criterion to evaluate the performance of the excavation methods. Therefore a multitude of techniques is usually applied like micro-computer-tomography, CLSM, QLF, WDX-element-analysis, FE-SEM, TEM or micro- and nano-hardness measurements.

All of them prove, that it is possible to preserve tooth tissue. The new self-limiting caries excavation methods, however, change the tactile feedback with an explorer. The tooth surface is still soft. In addition radiographs exhibit translucent halos under the restorations. Moreover, morphological evaluations show remaining microorganisms.

To be sure that we can rely on the excavation quality of the new approaches still a lot more investigations are necessary. But if we add new criteria for excavation, disinfect the cavities and obtain tightly sealed margins we have now the instruments at hand to save tooth tissue and hopefully keep more teeth vital then now.
New aspects in minimal-invasive restorative techniques (M9)
Despite a general caries decline by successful prevention, the caries problem is not solved. Given an early and precise diagnostic, minimum intervention strategies are demanded in pediatric dentistry. For cavity preparation, according to the indication, different measures were described:

– A controlled fissure extension is limited by kinetic cavity preparation. Rotary burs show some advantages here in terms of saving sound tooth hard tissue.

– Among lasers, erbium-based solid-state infrared lasers have demonstrated to be effective in dental applications.

– Using oscillating preparation, minimally invasive cavities are realizable in both dentitions with additional protection of adjacent teeth. In permanent Class II cavities, however, a rotary begin is mandatory. Sectional matrix systems help to re-achieve anatomically correct proximal contacts.

The restoration of defects should generally be adhesive and conducted with different material viscosities in accordance to defect size. In the first dentition, dentin adhesion gains importance due to the thin enamel margins. In permanent teeth, multi-step etch-and-rinse adhesives are still superior to self-etch adhesive systems.

Customized restorative and after care programs for children of different age groups (M12)
Despite an effective caries decline, not every child equally profits of improved oral health. While early childhood caries is a major issue in primary teeth, hidden fissure and proximal caries is an important point in adolescents. Additionally, anomalies such as MIH are very problematic.

For an adequate therapy in both dentitions, following recommendations are given:

– Glass ionomer cement is well-suited for Class I cavities in children with low compliance.

– Polyacid-modified resin composites (composites) show the best long term results in primary tooth restorations. However, these materials at least require a certain minimum compliance during application of adhesive and restorative material.

– Perfect alternative still is the stainless steel crown for larger lesions and postendo restorations.

– Resin composites are suited for small and medium sized cavities in permanent teeth.

– In children with high caries risk and/or hard tissue anomalies, a stepwise therapy with short recall intervals is mandatory.

– A customized preventive care program maintains the oral health status after restoration.
Medical School
1971–1978  University of Munich
1978    final Examination

Activity
Since August 1979  Department of Pediatric Surgery LMU Munich
October 1986    Consultant for Surgery
October 1986    Consultant for Pediatric Surgery
Juli 1996    Professor for Pediatric Surgery
Mai 2008    Dr. h.c. University Mostar, Medical School

Membership: Deutsche Gesellschaft für Kinderchirurgie, Deutsche Gesellschaft für Chirurgie, Deutsche Gesellschaft für Unfallchirurgie, ESPU (European Society of Paediatric Urology), AAP (American Academy of Pediatrics)

Traumatology in Pediatrics (M10)
Trauma is the most frequent reason for hospitalisation in children, and up to the age of sixteen the most frequent reason of unnatural death. Head injury, thoracic trauma, blunt or penetrating abdominal trauma and especially polytrauma are the real life threatening injuries in children. These patients should be referred to level I trauma center with a 24 hours available trauma team including one paediatric surgeon as trauma leader and paediatric specialised physicians in anaesthesiology, neurosurgery, further more one paediatric intensive care team and all necessary diagnostic facilities including ct-scan.
Mild head injuries are the most frequent reasons for outpatient consultation and even hospitalisation in children. The neurological investigation and the use of the Paediatric Glasgow Coma Scale are the key stones in diagnostic reasons and necessary for the therapeutic algorithm. Peripheral skeletal injuries are the second frequent reasons in injured children and play an important role in paediatric trauma centers.
The rationale of orthopaedic and operative treatment in joint luxation and fractures, in the therapy of epiand metaphyseal fractures and as well in shaft fractures are explained in principles in brief and illustrated with the most frequent and typical examples. Avoiding growth disturbance by injured physis, malunion through therapeutically mistakes and healing problems is the target of fracture therapy.
One of the most challenging problems for the paediatric trauma team are battered children. Not to overlook such patients with the risk of death and not to bring wrong suspicion is the important work for the first contacting physician.
Guidelines for treatment of traumatized teeth (M10)

Patients with dental trauma are a challenge for all dental practitioners. Therefore different national and international societies have developed guidelines for the treatment of such incidents. The presentation will outline the current guidelines and try to highlight differences between them. Several clinical cases will be presented and possible treatment options will be discussed. Furthermore new developments and trends will be discussed.
Orthodontic aspects on the use of oral implants in adolescents (M11)

Introduction. Missing teeth because of trauma or congenital absence affect the upper incisor and the premolar areas. Dento-facial growth/development is a complex process with continuous changes from childhood to adolescents and even up to adult ages. In this complex region, we have to decide which alternative is optimal to the adolescent patient, orthodontic space closure or open up for replacement of an implant. Such a decision shall be performed already in young ages.

Material and Method. From our radiographic and histological studies in growing pigs we could show that osseointegrated titanium dental implants do not move with the eruption of the adjacent teeth. These experimental results were tested clinically and radiographically in adolescent subjects, first during a 3-year period, and then in a 10-year follow-up study.

Results and Conclusion. The longitudinal follow-up showed that dental implants are a treatment alternative for replacing missing teeth, provided that the individual dental/skeletal development is complete. However, disadvantages may be related to the upper incisor region, due to slight continuous eruption of adjacent teeth, which will be discussed against own studies on dentofacial growth/development in normal individuals followed from 5 to 31 years of age.
Current prosthetic measures for replacing the early lost anterior permanent teeth (M11)

Resin-bonded fixed dental prostheses (RBFDPs, so-called Maryland bridges) with two retainer wings have been introduced over 30 years ago for a minimal invasive replacement of missing permanent teeth, when the abutment teeth are caries-free. However, for the replacement of early lost anterior permanent teeth for example after traumatic tooth loss, they had been recommended only after completion of the transversal growth of the jaws, to prevent any growth inhibition. So teeth lost earlier had to be replaced by removable dental prostheses.

RBFDPs with only one retainer wing developed 13 years ago overcome these age restrictions and are even less invasive than the two retainer RPFDPs. In the meantime long-term data of this minimal invasive treatment option are available and it is well-known how to bond these restorations clinically successfully. However, it is a prerequisite that the dentist has a good understanding about indications, materials properties and the clinical procedures including specific bonding techniques.

This lecture summarizes the essential knowledge on the successful clinical application of RBFDPs. It will also show that today high-strength all-ceramic materials are an alternative to base metals as framework.

In the anterior area all-ceramic resin-bonded restorations present a highly esthetic and biocompatible treatment alternative.
Born in 1950 in Mihla.
1969–1974  Study of Biology at the Friedrich-Schiller University of Jena
1973–1974  Type Culture Collection at the Central Institute of Microbiology and Experimental Therapy, Jena
1979   obtaining the doctorate (Dr. rer. nat.), University of Jena.
1974–1981  Department of Medical Mycology of the Medical School of Erfurt
Since 1981  Experimental Research Unit of the Department of Preventive Dentistry of the Medical School of Erfurt
1987   Habilitation and Facultas docendi for Preventive Dentistry, advarded lectorship, Medical School of Erfurt
1986–1990  Postgraduated education in Experimental and Diagnostic Microbiology, Institute of Postgraduate Education in Medicine, Berlin
1990–2003  Department of Preventive Dentistry at the Dental School of the Friedrich-Schiller-University of Jena
Since 2003  Biological Laboratory at the Dental School of the Friedrich-Schiller-University of Jena
2004   Professor of Preventive Dentistry.

Research interests: Microbial Taxonomy, Medical Mycology, Oral Microbiology, Caries Prevention Member of the German Scientific Dental Society (DGZMK). Member of the German International Association for dental Research (IADR). Member of the European Organization for Caries Research (ORCA).
Author or co-author of 124 publications and 370 oral or poster presentations.

Early risk diagnostics – important for oral health and future general well-being? (M12)
The presence of teeth is the first factor in the aetiology of early childhood caries (ECC). The primary incisors will be erupt between 6 and 8 month of age and will be susceptible to caries from the onset. The second factor is the transmission of mutans streptococci (ms) in the mouth of children. This occurs from the mother’s by saliva. If a mother does not harbour ms in her mouth, then the transfer cannot occur and the risk for ECC is low. The third factor is the use of a cariogenic diet, mostly as a result of the use of sweetened drinks given via a bottle. The most dangerous period is during the night as the saliva flow ceases while sleeping. If a child’s teeth are covered with sweetened drinks during the night, then the protective action of the saliva is absent and ms growing out. A fourth factor is the absence of any protective factors. In the main this is the use of fluorides. Taking these factors into account can be used to predict ECC. Especially salivary ms in the mouth of mothers and small children together with visible plaque on upper incisors are the early signs to predict the risk of ECC. The reduction of ms together with the use of a trainer cup of one year of age, using safety drinks and brushing daily with a fluoride toothpaste can prevent ECC in small children. The prevention is very important to keep children from serious oral and general diseases.
Preventive and non-invasive treatment strategies (M12)

Dental caries is one of the most prevalent diseases that affect children of all ages worldwide but the distribution is skewed with socioeconomic and behavioural determinants. It forms through a complex interaction over time between acid-producing bacteria, fermentable carbohydrates and many host factors as recently explained by the ecological plaque hypothesis. On the individual level, the disease can be described as an ongoing battle between de- and re-mineralisation; if more mineral is lost than gained from the hard tissues, a lesion will occur over time. The ultimate goal in caries prevention and caries control is to achieve an ecological balance between the pathological and the protective factors.

Primary prevention comprises procedures taken in order to reduce the risk for caries-free people to be decayed while secondary prevention aims to hinder an already existing lesion to progress or even to reverse its natural course. In general, the primary prevention should be population-based and utilize the common risk factor approach. Secondary prevention consists of non-invasive measures for caries control on individual level based on a comprehensive risk assessment. Based on recent systematic reviews and controlled trials, the presentation will cover the evidence for non-operative interventions to reduce caries risk and control lesions in childhood and adolescence. The cornerstones are fluoride, fissure sealants, antibacterial agents/sugar substitutes and empowerment. Self-administrated regimens, such as daily tooth brushing with fluoridated toothpaste, are the most cost-effective way to reduce risk but they require compliance. Professionally applied fluoride varnish at least two times per year is the most effective professional alternative in those with high risk and poor compliance. General guidelines will be discussed but the clinical recommendations must be adapted to local conditions.

The uneven distribution of caries has called for a risk-based strategy in order to provide additional preventive treatments to those with the greatest need. The prerequisite for such a strategy is that there are i) useful and inexpensive predictors available, and ii) cost-effective interventions that not only reduce the risk but also the true incidence of caries. Several recent studies have indicated that the risk-based concept is costly with severe limitations and therefore, a dental age-related strategy can be an alternative. The background thinking is to focus the preventive and risk-reducing efforts on community level to the periods in life when the primary and permanent teeth emerge in the oral cavity; A) the preschool age: 6 month-3 years, B) the early school age 5–7 yr (1st permanent molars), and C) adolescence 12–15 yr (2nd molar and premolars).

Dental caries forms through a complex interaction over time between acid-producing bacteria, fermentable carbohydrates, and host factors.
carbohydrates and many host factors including teeth and saliva as recently explained by the ecological plaque hypothesis. On the individual level, it can described as an imbalance between de- and re-mineralisation; if more mineral is lost than gained from the had tissues over time, a lesion will occur.

On the demineralisation side of the balance, the pathological risk factors are found such as aciduric bacterial overgrowth, frequent carbohydrate intakes, and reduced saliva flow. On the remineralisation side, the protective factors such as fluoride exposure, saliva components and antibacterial measures are located. The ultimate goal in caries prevention and caries control is to achieve a balance (homeostasis) between the pathological and the protective factors. Thus, in individuals with high caries risk or a proven caries activity, the challenge is to decrease the pathological factors and to increase the protective factors.

**Early childhood caries – microbiological aspects (M15)**

Dental caries forms through a complex interaction over time between acid-producing bacteria, fermentable carbohydrates and host factors including teeth and saliva. The colonisation of the oral cavity starts at birth and the contact with many different bacteria early in life ensures a microbial diversity that is associated with oral health. However, extended periods of low pH in oral environment favour a microbial shift towards an overgrowth of various aciduric species promoting a cariogenic challenge. It is well established that early colonisation of mutans streptococci (MS) is a key factor in early childhood caries (ECC) and that the mothers are the principal sources. Modern molecular techniques have however questioned the “window of infectivity” and the prerequisite of non-shedding surfaces. The early colonisation of MS is determined by a number of factors such as transmission-behaviour, diet, virulence and biofilm diversity as well as saliva and immunological host factors. A recent systematic review has concluded that presence of MS, both in plaque or saliva of young caries-free children, appears to be associated with a considerable increase in caries risk. The strategy to combat vertical transmission of cariogenic bacteria from parents to their off-springs is termed primary-primary prevention. Interventions, based on antibacterial measures, has been directed to mothers of newborn babies with high counts of salivary MS and implemented during the eruption of the primary teeth. Collectively, a number of clinical trials provide limited evidence that such maternal prevention programs can prevent dental caries in their children by inhibiting, or delaying, the transmission of MS from mother to the child. The lecture will also discuss and suggest probiotic therapy as an alternative strategy to maintain a diverse microbial community in early childhood.
Hendrik Meyer-Lückel, PD Dr.
Kiel, Germany

Education
1992  Graduation from school (Abitur)
1992–1997  Dental School in Giessen, Germany (Justus-Liebig-Universität)
1997  Final Examination (Staatsexamen) in Giessen
2000  Doctorate degree (Promotion) ‘Effects of saliva substitutes and mouth rinses on sound and demineralised dentin in vitro’, Albert-Ludwigs-Universität Freiburg
2008  PhD in Dental Medicine (Habilitation), ‘Micro-invasive treatment of caries by resin infiltration’, Charité – Universitätsmedizin Berlin
2007–2009  Master of Public Health (Focus: Epidemiology) Berlin School of Public Health at Charité

Employment
02/98–09/98  Postgraduate Scientist Department of Periodontology, Dental School, Justus-Liebig-Universität Giessen (Prof. Dr. J. Meyle)
10/98–09/00  Employed as dentist in private practice
10/00–10/08  Postgraduate Scientist / Assistant Professor (10/01) Department of Operative Dentistry and Periodontology, Freie Universität Berlin/Charité – Universitätsmedizin Berlin (Prof. Dr. A. M. Kielbassa)
since 11/08  Associate Professor Clinic for Conservative Dentistry and Periodontology
Universitätsklinikum Schleswig-Holstein-Campus Kiel, Christian-Albrechts-Universität zu Kiel (Prof. Dr. C. Dörfer)

Main scientific contributions
Dr. Meyer-Lückel has authored and co-authored more than 40 original papers, 20 review articles, 4 book chapters and more than 50 abstracts. His main scientific interests are: microinvasive therapy of carious lesions, de- and remineralization of dental hard tissues, clinical studies on caries prevention, epidemiology of caries and periodontitis, dental public health, and postendodontics.

Indication and efficacy of smooth surface sealing and infiltration (M13)
Fissure sealants have been used in occlusal surfaces in primary and permanent teeth for many years. Sound fissures as well as surfaces showing enamel lesions are supposed to benefit from this treatment the most. The caries process at proximal lesions has been mainly ‘managed’ by using non-operative options, as fluorides, oral hygiene education, and dietary control or by placing restorations. Caries infiltration is a new micro-invasive approach to deal with caries lesions also for proximal sites. Current use of the sealing technique as well as the development of the infiltration technique and its clinical feasibility will have been shown in the previous lectures. In this presentation treatment thresholds of both techniques with respect to caries extensions at various tooth sites will be discussed. Moreover, current clinical data will be reported for both smooth surface (buccal and proximal) treatments: sealing and infiltration. Guidelines for the use of both techniques will be proposed and discussed.

This presentation is supported by DMG-Hamburg.
Education
1997   Graduation from school (Abitur)
1998-2003  Dental School Freie Universität Berlin/Charité – Universitätsmedizin Berlin
2003   Final Examination (Staatsexamen) in Berlin
2005   Doctorate degree (Promotion), Sealing of incipient caries lesions with adhesives and a fissure sealant in vitro; Charité – Universitätsmedizin Berlin

Employment
03/04-7/08  Postgraduate Scientist Department of Operative Dentistry and Periodontology, Freie Universität Berlin/Charité – Universitätsmedizin Berlin (Prof. Dr. A. M. Kielbassa)
since 08/08  Postgraduate Scientist Clinic for Conservative Dentistry and Periodontology
Universitätsklinikum Schleswig-Holstein-Campus Kiel, Christian-Albrechts-Universität zu Kiel (Prof. Dr. C. Dörfer)
since 08/06  Research Grant Deutsche Forschungsgemeinschaft (German Research Foundation)
„Microinvasive therapy of enamel caries lesions by infiltration with dental resins“

Main scientific interests: microinvasive therapy of carious lesions, de- and remineralization of dental hard tissues, caries epidemiology, postendodontics, immune responses of the dental pulp, antimicrobial peptides

Caries sealing and infiltration: theoretical background (M13)
Fissure sealing is a well-established treatment to prevent caries formation in susceptible fissures. However, existing caries lesions in early stages can also be prevented from further progression by sealing their surface with resins. The concept of caries sealing has been successfully transferred to proximal smooth surfaces. In contrast to sealing, caries infiltration aims to penetrate the lesion body of enamel carious lesions with low viscous light curing resins – so called infiltrants. After curing the resin occludes the lesion pores and thus prevents further demineralization. To achieve sufficient resin penetration into the lesion body the pseudo intact surface layer has to be eroded by etching with hydrochloric acid gel before applying the resin. Moreover, the material properties of the infiltrant have to be optimized for fast capillary penetration. In this presentation the concepts of caries sealing and caries infiltration will be presented. Moreover, the chemical and technical requirements for both techniques will be discussed.

This presentation is supported DMG, Hamburg
Prevalence of malocclusions and of orofacial dysfunctions and their interrelation in the primary and early mixed dentition (M14)

Introduction: The aim of this study is to provide basic data on the prevalence of malocclusions and orofacial dysfunctions in the primary and early mixed dentition, to examine occlusal relationships in their functional context, and to analyze the need for and potential of orthodontic prevention.

Patients and Methods: Occlusal relationships and myofunctional status were evaluated clinically in 766 and 2275 children with primary and early mixed dentitions, respectively. Findings comprised orthodontic findings in single jaws, intermaxillary occlusal relationships, presence of dynamic and static myofunctional disorders as well as presence of oral habits.

Parents consented to their children's participation in the study. Comparison of absolute frequencies of specific characteristics was tested with chi-square test. Statistical significance was assessed at the 5 % level.

Results: Prevalence rates of malocclusions and orofacial dysfunctions increased significantly from primary to mixed dentition period. The frequency of myofunctional disorders was statistically significantly higher in children with increased maxillary overjet, frontal open bite, lateral crossbite and mandibular prognathism. Individuals with frontal open bite, lateral crossbite, reduced and increased maxillary overjet presented static dysfunctions significantly more frequently than those in dentitions with normal occlusion. Dynamic dysfunctions were significantly more prevalent in subjects with frontal open bite and lateral crossbite than in those with normal occlusion.

Conclusion
Our results enable us to prognosticate which children risk future orthodontic problems. Orthodontic prevention and early treatment must include functional rehabilitation so as to eliminate or at least diminish those factors causing undesirable developments.
President of the German Orthodontic Society (2005-2009), FEO Vice-President
Chair of the Department of Orthodontics (1998) and Medical Director at the University Medical Center
Hamburg-Eppendorf.
Postgraduate orthodontic training in 1986 and PhD thesis in 1994 at the Department of Orthodontics of the
University of Cologne.
2007 to 2009 Vice-Dean of the Medical Faculty at the University of Hamburg.
Since 2005 Ombudsperson for “good clinical research” University of Hamburg.
Scientific and clinical expertises: treatment timing, early orthodontic treatment, functional jaw orthopedics of
juvenile idiopathic arthritis, condylar fractures and hemifacial microsomia patients, interdisciplinary treatment
in CLP-patients.

Early Orthodontic Treatment and Timing of Transversal Discrepancies (M14)
Orthodontic and orofacial orthopaedic treatment of children with deciduous teeth and first permanent teeth
represents a challenge for modern dental medicine that focuses on prevention. The main objective of the early
treatment is the prevention of progredient dysgnathies by interrupting the progression of morphological as
well as functional abnormalities.
The presentation will be focussed on diagnostic and therapy aspects of the transverse dimension which
includes asymmetries of the face and jaws as well as the dentition.
According to the guidelines of the German Orthodontic Society the indications for early orthodontic
treatment in patients with class III, crossbite, CLP, condylar fracture, Juvenile Idiopathic Arthritis and hemifacial
microsomia are defined and discussed with the latest scientific results of the literature.
Systematic diagnostics of obvious and hidden early findings and individual modifications of anomaly-specific
orthodontic treatment concepts complete the overview of the spectrum of early orthodontic treatment.
Early orthodontic treatment and timing of sagittal discrepancies (M14)
The prevention of tooth irregularities and malocclusions is very important since 50 percent of the inaccurate stomatognathic findings can be classified as acquired anomalies. Habits and disfunction of the surrounding muscles are able to lead to a devious growth of the upper and lower jaw.
The knowledge of these causes allows a timely intervention within the interaction of morphology and function. Primarily this can be achieved by briefing of the parents during the infancy, where the impact of nutritional disturbances, habits, para- and disfunction has to be pointed out. The opportune identification of aberrations of the stomatognathic system is very important in order to prevent a malocclusion become manifest. The right time for early orthodontic intervention is during the deciduous and early-mixed dentition.
The main treatment approaches are the elimination of inaccurate occlusion, frontal open bite and of transversal or sagittal forced bite. Problems regarding the sagittal occlusion, caused by sucking habits, premature contacts, habitual open mouth as well as by dysfunctions of the lips and the tongue enhance a growth retardation in the mandible and a deformation of the maxilla. The giving up of such habits by means of removable bimaxillary orthodontic appliances, as well as by a rapid maxillary expansion if necessary with orthopaedic control of the maxilla, can lead to a normalization of the occlusion.
The early orthodontic intervention should secure a relaxed lip seal with an undisturbed nasal respiration. These are important parameters for a further accurate development of the jaws.
Early orthodontic treatment and timing of vertical discrepancies (M14)

The open bite is a vertical anomaly that can occur during the deciduous dentition, the early and late mixed dentition and during the adolescence.

For the aetiology of this vertical anomaly exogenous and acquired factors as well as genetically causal factors play a role.

The therapy of the open bite is determined by the need due to the often present open mouth position and the existing mouth breathing.

Hence a higher risk for infections of the upper air passages and a higher prevalence of gingivitis may result. In the deciduous dentition good treatment results can be achieved for an existing open bite by using a resilient oral shield. Own investigation showed that this leads to an activation of the perioral muscles and to an enhanced muscular tonus.

In the early mixed dentition the Sander-I-Appliance (Spring-Activator) is indicated. As shown by own studies the Sander-I-Appliance induces a counter-clockwise-rotation of the mandible and activates the musculus pterygoideus pars posterior. Thereby, in this phase of growth a skeletal open bite can be affected in a positive way.

The open bite treatment in the adults always implies an extensive orthodontic treatment. In most of the cases orthognathic osteotomies are necessary. For prophylaxis of relapse after surgical intervention a positioner is a must. Results of our sirognathographic studies in adults show enhanced muscle coordination after treatment with a positioner. Simulations by a hexapod and 6-component-measurement sensors show a positive effect in the specific settling achieved with the positioner after surgical intervention.

Andrea Wichelhaus, Prof. Dr. Munich, Germany
Early Childhood Caries (ECC) – epidemiology and association with (of?) independent variables (M15)

Introduction: ECC is a major problem in developing and industrialized countries. The aim of the lecture is to present an overview about studies from different countries and special results of a study which was performed in Germany. Caries experience of 3-4-year-old children was assessed and correlated to various independent variables.

Patients and Methods: 1532 3-4-year-old children visiting Kindergarten took part in the study which was approved by an institutional ethic committee. Only those children participated whose parents had given their informed consent. d3+4mft values were recorded according to WHO criteria and information about feeding practices during early childhood and preventive measures were collected by a structured questionnaire for each child.

Results: The mean d3+4mft score amounted to 0.66 (f-component = 0.12), the proportion of caries-free children being 83%. The mean d3+4mft of children who were given baby bottles during the night for longer than seven months was 1.62, significantly higher than that of children who were not fed in this way (d3+4mft: 0.47, p < 0.001). The binary logistic regression analysis revealed: sugary drinks at night, frequent use of baby bottles during the day and frequent in-between meals were positively correlated with ECC while early start of tooth brushing, intake of fluoride supplements, regular visits to the family dentist and application of topical fluorides showed a negative correlation.

Conclusions: The results of the binary logistic regression analysis suggest that long-term use of baby bottles at night is the most important factor in the development of ECC.
A/Professor Angus Cameron completed dentistry at the University of Sydney in 1984. He started work in the Department of Paediatric Dentistry at Westmead Hospital as a junior registrar in 1987 and completed his specialty training in 1991. He was appointed a specialist in 1992 and Head of Department in 1997. He is currently Clinical Associate Professor and Head of Discipline in Paediatric Dentistry at the University of Sydney and holds teaching appointments at the Universities of Adelaide and Newcastle. He is also Registrar of the Royal Australasian College of Dental Surgeons. His research interests include craniofacial and developmental biology and his main clinical interests are in the management of children with dental anomalies, developmental pathology and oral medicine.

Dental treatment planning for children with cranio-facial anomalies (M16)
The management of children with disorders of development is complex and requires a multidisciplinary approach. Usually, the relationship with the parents and the child exists over many years and the trust that develops between the treating clinicians and the family is dependant on knowledge and understanding of the condition, and interest in the individual and not the condition, and an empathy for the child. Treatment planning cannot take place in isolation and the formation and development of professional interdisciplinary teams with particular expertise is essential. Diagnosis of children with complex craniofacial anomalies requires an intimate knowledge of the embryological basis for normal development that will enable a prediction of future growth and treatment outcomes. The fundamental basis of the growth anomaly may give indicators as to the timing of surgery or orthodontic treatment. Nonetheless, the maintenance of oral hygiene and prevention of dental disease is essential if more complex procedures are to be successful. This presentation will highlight important aspects of treatment planning for this group of children with special reference to the process of diagnosis and identification of growth patterns.
Heike Korbmacher, PD Dr.
Hamburg, Germany

Received her DDS from the university of Aachen in 1996. She obtained her Dr. med dent in 1997 from the same University. Since 1998 she is member of the department of orthodontics, University Hospital Hamburg-Eppendorf. Since 2000 she has been associate professor. She received her Dr. med habil in 2006. Her research interests are: evaluation of form and function (myofunctional therapy, orthodontic treatment in patients with orthopedic disorders and patients with syndromes); basic investigations of mechanically induced sutural growth and questions concerning maxillofacial biology. She is a peer-reviewer and commentary writer for several professional journals. She has received DGKFO research grant and the Arnold Biber Award of the DGKFO in 2007.

Orthodontic treatment in patients with syndromes (M16)
The successful treatment of the orofacial region in patients with syndromes is based on an interdisciplinary treatment approach which takes individual diagnostic records, compliance, patient’s and parent’s complaints and expectations into account. Therefore, the team is often composed by paediatricians, orthodontists, physiotherapists, speech therapists and maxillofacial surgeons. Due to strong form and function correlations the treatment should be terminated as early as possible during early childhood.

We recommend the first clinical inspection in an interdisciplinary consultation hour. From the orthodontic point of view, the treatment represents a stepwise program starting with stimulation in order to harmonize orofacial functions such as swallowing, eating and breathing disorders. The orofacial regulation therapy according to Castillo Morales represents such an early orofacial treatment approach. It consists of functional exercises and a specific manual program of neuromuscular stimulation. For a daily exercise, parents are taught to conduct a small program of orofacial stimulation. Only as a supplement subject to a strict indication a stimulating plate is inserted. Our results on that treatment approach underline the importance of the initial orofacial findings for the long-term development of the orofacial region.

Within the next orthodontic treatment step skeletal discrepancies, i. e. such as an enlarged overjet, should be corrected. Finally, the dentoalveolar development should be controlled on a regular base and when necessary orthodontic correction should be conducted.

Due to the complex clinical situation, successful orthodontic treatment requires an interdisciplinary treatment approach that is strongly based on the individual situation.
Prevention of ECC: why is it so difficult? (M17)

Early Childhood Caries (ECC) continues to affect considerable numbers of children, not only in deprived areas but also in communities with well-developed health care systems. This disease entity has a strong impact on the quality of life of the child and its family, not only at young age but also later in life, and therefore needs to be considered as an important public health issue. The clinical condition is well-known and risk factors and determinants have been investigated in depth. Poor control of plaque accumulation and inappropriate dietary habits are often involved. However, preventive approaches seem to fail in this group of children and when extensive oral rehabilitation is performed, the success of restorative treatment is often poor – in most cases because of failing (secondary) prevention.

Although the evidence on preventive strategies for ECC has improved during the last decades, many issues remain inconclusive or even contradictory. Fair evidence is available to support the daily use of fluoride in toothpaste and the application of professional fluoride varnish in high-risk children. Available evidence regarding dental health education includes the promotion of regular tooth cleaning and limitation of consumption of sugar-containing drinks and snacks. Studies evaluating the success of this measure are often contradictory. The evidence supporting the use of anti-bacterial products and primary prevention interventions (mother-child transmission) is inconclusive. An important reason for this is the lack of well-conducted studies allowing the build-up of evidence. Although lack of evidence is not synonymous with absence of effect, the need for high-quality intervention studies is large.

In Flanders (Belgium) a longitudinal oral health promotion project, the Smile for Life project, was launched. More than 1000 newborns received an integrated oral health promotion programme, starting from birth, and were followed for 5 years. Some of the results of this study will be presented.
Despite the remarkable efforts to prevent early childhood caries (ECC) over the last decades, this form of extensive tooth decay still affects a large number of children under the age of six all around the world. To avoid serious medical consequences as well as developmental disadvantages related to the teeth, invasive dental treatment may be unavoidable. Over the last years, the classical understanding of „fill and drill“ has changed to a more medical approach that understands ECC as a multifactoral infectious disease and bounds the success of dental intervention even more inseparably with preventive measures.

Though classical treatment techniques are still valid, this change of thought has influenced our understanding of caries treatment with respect to the point and way of treatment as well. Traditional, alternative as well as lately discussed treatment approaches and techniques will be presented and a variety of solutions will be illustrated. In Conclusion, a modern treatment concept for the ECC patient should not only comprise the correct choice of dental intervention, but necessarily has to take other factors influencing the effectiveness of dental treatment into account. The reduction of elimination of caries risk factors accompanied by educational, behavioural and social support is inevitable to make treatment a success for the young paediatric patient suffering from this medical condition.
"For my patients who need eXtra care!"

- Continuous release of fluoride
- Fast application – short curing time
- More than thirteen years of clinical success**
- Especially for young, senior and high caries-risk patients

+++ New Study Result +++
Caries Preventive Effect Demonstrated!*
ABSTRACTS
GABA – PRACTITIONER PRIZE
Verzögert auftretende Komplikation eines dentalen Traumas – ein Fallbericht

DRESSLER S., JABLONSKI-MOMENI A. UND PIEPER K.
Abteilung Kinderzahnheilkunde, Philippus-Universität Marburg
Georg-Voigt Str. 3-5, 35037 Marburg


Amelogenesis imperfecta – klinisches Management – eine praktische Herausforderung

JAKLITSCH-WILLHUBER U. UND STÄDTLER P.
Universitätsklinik für Zahn-, Mund- und Kieferheilkunde, Abteilung für Zahnerhaltung
A-8036 Graz, Auenbruggerplatz 6a

Ein 13-jähriges Mädchen mit Amelogenesis imperfecta stellte sich mit dem Wunsch nach Verbesserung ihres Aussehens in unserer Abteilung vor. Die Inspektion zeigte eine Dysplasie des Schmelzes (DDE 8-3) der gesamten Dentition, einen bis zu 1cm offenen Biss im Seitenzahnbereich, massive Beläge, eine hochgradige Gingivitis und völlig unästhetische, inadäquate, sowohl vertikal als auch horizontal überdimensionierte Frontzahnauflagen mit teilweise bis zu 2 mm breiten Überständen.


Die Versorgung mit direkten Kompositrestorationen stellt eine zwar von der Zeit her aufwendige aber gute Möglichkeit der ästhetischen und funktionellen Versorgung besonders jüngerer Patienten mit Amelogenesis imperfecta dar.
Behandlung einer Kronen-Wurzel-Fraktur mit zusätzlicher Wurzelfraktur
JOCKEL-SCHNEIDER, Y. und FEIERABEND, S.
Poliklinik für Zahnerhaltung und Parodontologie, Universität Würzburg
Pleicherwall 2, 97070 Würzburg


Hypnose, eine Alternative zur Analgosedierung?
KANT, J. M.
Zahnärztin, Tätigkeitsschwerpunkt Kinderzahnheilkunde, niedergelassen in Oldenburg, BRD

Eine Fallvorstellung
Bei der Behandlung von Kindern verdienen Verhaltensführung und Schmerzkontrolle unsere besondere Aufmerksamkeit.
Diese Fallvorstellung zeigt das Video einer Extraktion eines subakut entzündeten zweiten Milchmolaren im Oberkiefer. Die Patientin hatte seit längerem Schmerzen und hatte Angst vor dem Eingriff. Trotz einer deutlichen Schwellung zeigte der Zahn 65 eine Restvitalität und eine heftige Blutung bei der Trepanation. Vor der Extraktion wurden Antibiotika gegeben und der Zahn wurde trepaniert.
Frühkindliche Prophylaxekonzepte
LAURISCH, L.
Arndtstr. 25, 41352 Korschenbroich


Ergebnis: Es konnte gezeigt werden, dass es möglich ist, die im Alter von 2 Jahren erfolgte Colonisation der kindlichen Mundhöhle mit Mutans-Streptokokken rückgängig zu machen. Über den Beobachtungszeitraum von bis zu 8 Jahren traten keine neuen kariösen Läsionen auf und es entwickelte sich eine stabile Mundhöhlenökologie ohne Mutans-Streptokokken.

Verbesserung der Compliance durch Gebärdensprache
WOLFF, A.
Poliklinik für Zahnerhaltungskunde, des Universitätsklinikums Heidelberg
INF 400, 69120 Heidelberg


Eine direkte Arzt-Patienten-Beziehung konnte etabliert werden. Der Einsatz der Gebärdensprache in der zahnärztlichen Behandlung in Verbindung mit einem geeigneten Behandlungsmanagement haben die Compliance des Patienten und die Basis für eine eigenständige Gesundheitsfürsorge im zahnärztlichen Bereich geschaffen.
SOCIAL EVENTS
Opening Ceremony (June 17)
The opening ceremony of the 22nd Meeting of the IAPD will take place on Wednesday evening, 17 June 2009, at 6.00h in the assembly hall (Große Aula) of the
Ludwig-Maximilians-University, Geschwister-Scholl-Platz 1 (main entrance)
Public transportation from the Gasteig Convention Center: any S-Bahn (direction to „Hauptbahnhof“), change at „Marienplatz“ for underground U3 or U6, get off at „Universität“

Reception by the Bavarian State Government (June 18)
On Thursday, 18 June 2009 a Reception by the Bavarian State Government will be offered at the
Munich Residence, entrance: Max-Joseph-Platz 1
At 6:30 pm (sharp!) the reception will start with a guided tour to the “Antiquarium“. This hall is the oldest room of the Munich Residence and the largest and most lavish Renaissance interior north of the Alps with wall and ceiling paintings.
www.residenz-muenchen.de
Public transportation from the Gasteig Convention Center: any S-Bahn (direction to „Hauptbahnhof“), change at „Marienplatz“ for underground U3 or U6, get off at “Odeonsplatz“ or get off at Marienplatz and have a 10 min walk through Munich’s pedestrian zone.

Bavarian Evening (June 19)
We couldn’t bring the 22nd Meeting of the IAPD to the Oktoberfest, so we have brought Munich’s world-famous beer festival to the conference. Join us on Friday evening, 19 June 2009 at 8 pm for a night of Bavarian festivities, hearty food and Munich’s legendary beer!
Löwenbräu Beer Hall, Stiglmaierplatz
Public transportation from the Gasteig Convention Center: any S-Bahn (direction to „Hauptbahnhof“), change at „Hauptbahnhof“ for underground U1 (direction to “OEZ“), get off at “Stiglmaierplatz”

Closing Ceremony (June 20)
The closing ceremony will be held on Saturday, 20 June 2009, at the
Gasteig Convention Centre

Gala Dinner (June 20)
The gala dinner of the conference will take place on Saturday, 20 June 2009, at 8:00 pm at the
Hilton Munich Park Hotel, Am Tucherpark 7
From the highest floor of the building you will have an impressive view over Munich, the famous English Garden, and with good weather conditions up to the Alps. We are sure this will be an unforgettable evening with friends and colleagues from all over the world! Please note that the Hilton Munich Park Hotel is a different hotel to the Hilton Munich City Hotel (next to the Gasteig Convention Center). Shuttle busses will leave from the Hilton Munich City Hotel at 7:30 pm and bring you back after the dinner.
Public transportation from the city center: any S-Bahn to „Isartor“, change to tramway 17 (direction to “Effnerplatz“), get off at “Tivolistrasse“, from the tramway station it is a 5 min walk.
22\textsuperscript{nd} Meeting of IAPD
18 – 20 June, 2009, Munich

Gala Dinner
Hilton Munich Park Hotel
Am Tucherpark 7
Saturday 20 June 8:00 pm

Opening Reception
Ludwig-Maximilians-Universität
Geschwister-Scholl-Platz 1
Wednesday 17 June 6:00 pm

Bavarian Evening
at the Löwenbräu Beer Hall
Stiglmaierplatz
Friday 19 June 8:00 pm

Reception by the Bavarian State Government
at the Munich Residenz
Max-Joseph-Platz 1
Thursday 18 June 6:30 pm

Gasteig Conference Center
**Banks**
Banks are usually open from Monday to Friday from 9:00 – 12:00 am and from 1:30 – 4:00 pm. Some banks are also open on Saturday.

**Climate**
Munich has a continental climate. Summers are generally warm and sunny with a few wet or cloudy days. In June, the average temperature during the day is between 18 and 25 degrees Celsius.

**Currency**
The German currency is the Euro.

**Electricity**
Standard international type C or type E plug with 220 V, 50 Hz.

**Emergency calls**
In case of emergency dial 112 (police and fire department).

**Insurance**
Participants are responsible for their own travel insurance. The organizers cannot be held liable for any damages, losses or accidents occurring during the journey to/from Munich or during the Congress. All guests participate at their own risk.

**Shopping**
Shops are usually open from Monday to Friday from 10:00 am – 8:00 pm and on Saturday from 9:00 am – 4:00 pm.

**Time zone**
Central European summer time (GMT +2).

**Tips**
Tips in restaurants, hotels and taxis are not mandatory, but usual for satisfying services.

**Travelling**

**Arriving by plane:** The Munich airport is situated approx. 50 km from the city centre. The suburban railway “S-Bahn” (lines S8/S1) runs every 10 minutes to the centre. The journey takes about 40 min. The cost for a one-way-ticket is approx. 9.20 Euro. Munich Airport International: www.munich-airport.de

**Arriving by train:** The main train station “Hauptbahnhof” is located in the city centre. All suburban trains (S-Bahn) bring you in 6 minutes to the Gasteig Convention Center. German railway: www.bahn.de/international/view/en/index.shtml

**Visitor’s information**
If you are interested in visiting Munich, please collect some information material at the registration desk.
Day trips and sightseeing tours by bus with Gray Line: www.stadtrundfahrten-muenchen.de/eng/index.html
Munich Tourist Office: www.muenchen.de/home/60093/Homepage.html
Conference Organiser
International Association of Paediatric Dentistry
c/o FDI World Dental Federation
L’Avant Centre
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Telefax: +33 450 40 55 55
iapd@fdiworldental.org
www.iapdworld.org

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www.iapd2009.org

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info@csm-congress.de
www.csm-congress.de

Conference Office on site / Registration desk
Gasteig Convention Center
Rosenheimer Strasse 5
81667 Munich, Germany
First floor (US: second floor)
Telephone: ++49 / 89 / 480 98 97 200

opening hours:
Wednesday, 17 June       16.00h – 19.00h
Thursday,       18 June        08.00h – 18.00h
Friday,             19 June        08.00h – 18.00h
Saturday,        20 June        08.00h – 17.00h
Conference City – Munich
Munich, the capital of Bavaria, is located close to the Alps of south-east Germany. Direct flights connect the International Airport with all major European cities as well as numerous destinations around the world. Founded as a monastery village in 1158, the town has a proud and colorful history of 850 years (and an equally long tradition of beer brewing).
Today, Munich has evolved into a high-tech city with two major universities, renowned research centers and industry engaged in aerospace, automobile manufacturing, electronics and biotechnology. Numerous theaters, art galleries, museums, and castles are just some of the town's famous sights, which attract millions of tourists from all over the world each year.
Discover some interesting places of Munich and Bavaria! www.muenchen.de

Conference Venue
The Gasteig Convention Center (Rosenheimer Strasse 5) located in the heart of Munich near the Isar river is the conference venue of the 22nd Meeting of the IAPD. The Gasteig is easy to reach by public transportation. www.gasteig.de
Some of the oral and poster sessions will take place at the Hilton Munich City Hilton (Rosenheimer Strasse 15), located right next to the Gasteig Convention Center. For further information on the lecture halls, please see scientific program.

How to get to the Gasteig Convention Center:
S-Bahn (suburban train): S1 - S8 to “Rosenheimer Platz” (follow the signs to “Gasteig”) - any suburban train from the airport, central station or city center
Tramway: line 18 station “Am Gasteig” or line 15/25 station “Rosenheimer Platz”
Parking (from Rosenheimer Strasse):
underground parking of the Gasteig Convention Center
underground parking of the Hilton Munich City Hotel

Official Language
The official congress language will be English. The main program at Carl-Orff-Saal on Friday and Saturday will be translated into German.

Oral Presentations
Please hand in all oral presentations the day before your presentation in the speakers’ room (next to Kleiner Konzertsaal – Small Concert Hall).

Industrial Exhibition
The 22nd Meeting of the IAPD will include an exhibition designed to highlight the latest services and products of dentistry business, institutes and research groups. The exhibition will be open on Thursday, Friday and Saturday.
Please see the list of exhibitors and the floor plan on page 15–17

Internet Services
An internet café will be available for congress participants.

Meals
During breaks, drinks and snacks / lunch will be served in the exhibition area. Food and beverages can also be purchased in the cafeteria and the self service restaurant in the Gasteig Convention Center.

Hotels
Accommodation has been secured in various categories at special rates. The hotels are situated within walking distance or have good access to the public transportation system. All prices quoted on the registration form are per room / per night and include breakfast and all taxes.
The Hilton Munich City Hotel is in the building next to the Gasteig, the Holiday Inn Munich City Center is right across the street.
Public Transport
Discover Munich with a flexible ticket for public transport!
Congress tickets for the public transport (MVV) can be purchased at the registration desk
(not valid for trips to the Munich airport).
Ticket for 3 days: 12 Euro
Ticket for 4 days: 15 Euro

Registration fees

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<tr>
<td>Member (IAPD, DGK)</td>
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<td>530 Euro</td>
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<td>Non-Member</td>
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<td>Student/Postgraduate</td>
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<td>KaVo Lunch &amp; Learn Session (20 June)</td>
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<td>Bavarian State Government (18 June)</td>
<td>price included for congress participants</td>
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<td>Gala Dinner (20 June)</td>
<td>95 Euro for congress participants</td>
<td>120 Euro for guests</td>
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The registration fee includes:
• Scientific program & abstracts
• Coffee & refreshments during breaks
• Lunch
• Welcome Reception
• Reception by the Bavarian State Government
• Reduced prices for the Bavarian Evening and Gala Dinner

Credit points
The 22nd Meeting of the IAPD has been evaluated with 24 credit points as equivalent to 24 hours of continuing medical education according to the guidelines of the BZÄK / KZBV & DGZMK.

Program changes
Nor the organizer nor the congress secretariat can be held responsible for any liabilities caused by program changes.
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Anwendungsgebiete: Zur Kariesprophylaxe; therapeutische Anwendung zur Unterstützung der Behandlung der Initialkaries und zur Behandlung überempfindlicher Zahnhälsen.
