The right combination for any procedure.

Total-Etch, Self-Etch, Selective-Etch - no matter what adhesive technique you choose Single Bond Universal Adhesive is the only adhesive you’ll need. It combines uncompromising performance for any indication on any surface and provides consistent, reliable bond strengths - while guaranteeing virtually no post-operative sensitivity.

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Single Bond Universal Adhesive
“It adapts to my child. Not the other way round.”

The soother with the natural shape: NUK Genius.

Not without my soother! The NUK Genius soother relaxes babies and encourages the healthy development of the mouth and jaw: the anatomical NUK shape resembles a mother’s breast while breastfeeding. One of many qualities, with which NUK Genius can soothe – both child and mother. Find out more at nuk.com

BORYUNG

Understanding Life
“Improved quality combined with much better value for money”

- Easy Fitting! In most cases, Kids Crowns can be placed without trimming and often with only slight crimping for a perfect fit.
- Effortless trimming adapts the Kids Crown to the natural gingival contours.
- High overall surface gloss and easy polishing in gingival area.
- Bio-identical non-allergic transparent ceramic coating.
칼슘이온의 강한 생명력

TS III CA

칼슘이온의 강력한 표면 활성화 에너지가 만드는 놀라운 초전수성과 뛰어난 초기 골유착 성능으로 치료기간을 단축시킬 수 있는 신념 임플란트
The 54th Annual Session of Korean Academy of Pediatric Dentistry

제54회 대한소아치과학회 중합학술대회 및 정기총회

The Korean Academy of Pediatric Dentistry

PROGRAM

“This work was supported by the Korean Federation of Science and Technology Societies Grant funded by the Korean Government.”

24th Congress of the International Association of Paediatric Dentistry

June 12 – 15, 2013
Seoul, Korea
i-Kids

Ivoclar Vivadent | Pediatric Dental Solutions

OptraPol
the one-step polishing system

OptraGate Junior
the flexible lip and cheek retractor

Cervitec Plus
the protective varnish with chorhexidine

CRT bacteria
the test for determining cariogenic bacteria

Tetric N-Ceram Bulk Fill
the composite

Fluor Protector N
the protective varnish with fluoride

Tetric N-Bond
the total-etch-adhesive

Helioseal F
the fissure sealant

Proxyt
the prophy-paste

Ivoclar Vivadent AG
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www.ivoclarvivadent.com
TABLE OF CONTENTS

WELCOME MESSAGES .............................................................. 009

CONGRESS INFORMATION ...................................................... 017
• Venue Plan
• Important Information
• Social Program
• Registration
• Information for Speakers & Presenters

SCIENTIFIC PROGRAM ........................................................... 031
• Program at a Glance
• Scientific Program
• Abstracts of Symposia & Invited Lectures
• Oral Presentations
• Poster Presentations
• Speakers & Chairpersons
• Authors Index

SPONSORS, SUPPORTERS AND EXHIBITORS ......................... 239
• Acknowledgements
• Exhibition Plan
• Exhibitors Profiles
• Communication Supporters

GENERAL INFORMATION .......................................................... 257
• Weather / Time Difference / Electric / Tax & Tipping / Currency
• Liability and Insurance / Emergency / Coex Information / About Seoul
The answer to white spots: I can Icon!

Quick, gentle, aesthetic: Infiltration treatment with Icon.

Cariogenic white spots – as unwelcome as they are frequent, particularly after bracket removal. Now you can offer your patients a gentle form of treatment rather than an invasive intervention. Infiltration with Icon has been shown to enable the effective masking of white spots on smooth surfaces. Quick, gentle, aesthetic. In just one session. Good news for you and your patients. www.dmg-dental.com
Cariogenic white spots – as unwelcome as they are frequent, particularly after bracket removal. Now you can offer your patients a gentle form of treatment rather than an invasive intervention. Infiltration with Icon has been shown to enable the effective masking of white spots on smooth surfaces. Quick, gentle, aesthetic. In just one session. Good news for you and your patients.

www.dmg-dental.com

Quick, gentle, aesthetic : Infiltration treatment with Icon.

The answer to white spots: I can Icon!

courtesy of Prof. Dr. Carlos Rocha Gomes Torres, DDS, Msc, PhD
Dear Colleagues,

I am delighted to welcome you to the 24th IAPD Congress at the impressive COEX Exhibition Centre in Seoul, Korea. The congress theme of “New Visions for Paediatric Dentistry” is appropriate with the advancement and evolving scientific knowledge as we relate it to everyday practice.

The main scientific sessions draw on a diverse range of presenters and lecturers from around the world. This in turn supplements the main keynote speakers who are the leading experts in each of their chosen areas within paediatric dentistry and related fields. A number of pre congress courses have been scheduled followed by the main scientific sessions over four consecutive days.

IAPD is proud to work along side the Korean Academy of Pediatric Dentistry (KAPD) and we are extremely grateful for their hard work and years of preparations towards the realization of this scientific event. Our hosts have prepared an exciting scientific program, a strong dental exhibition trade and an exciting social program showcasing the delights of their rich local culture.

I would also like to thank the sponsors and the dental trade for supporting this important biannual event of IAPD.

On behalf of IAPD, I would like to thank Prof Sang Ho Lee, Chair of the 24th congress and the local organising committee for their dedication, hard work and vision in the planning of this event.

I hope you enjoy the congress and the hospitality of Seoul and its surroundings.

Eduardo Alcaino
President
IAPD
Thank you for Soon Hyun Nam, the President of Korean Academy of Pediatric Dentistry, and people who try hard every day to improve the pediatric dentistry.

Also, for those who came to Seoul from the other countries to participate in the 24th Congress of the International Association of Pediatric Dentistry, Welcome to Korea!

I would like to congratulate the third International Association of Pediatric Dentistry held in Asia which will become an event of studying new trend of domestic and international dentistry and pediatric dentistry. I am also pleased to see this respectful academic congress here in South Korea.

Korea's academic and technological level of dentistry have grown significantly to the global's top level. Now we could see many foreigners visiting Korea to experience the Korean dentistry.

So, I hope this could be a great opportunity to enhance Korea's position in pediatric dentistry, and show the excellence of it by holding this event.

This congress will be held four days from June 12th to 15th in Seoul COEX with the theme of “New Visions for Pediatric Dentistry” and will discuss about; recent trend of dental caries care, early childhood caries care, current material of dental restoration, stem cells in pediatric dentistry, and this will be helpful to members of Pediatric Dentistry association.

Please listen closely to the lecturers that the speakers prepared with their whole energy, and hope this could be a great opportunity for you to learn useful information and knowledge to apply in the clinical procedures.

Lastly, I would like to say thanks to Prof. Sang-Ho Lee, the chair of the local organizing committee for IAPD 2013 Seoul Congress, and Soon-Hyun Nam, the President of Korean Academy of Pediatric Dentistry, and its board members, and I wish for everyone’s wellbeing and happiness.

Thank you very much.

Se-Young Kim
President
Korean Dental Association
Dear Colleagues,

It is an honor to be a part of the 24th International Congress of Paediatric Dentistry in Korea which will open a new prospect in the future paediatric dentistry. I sincerely welcome all the domestic and foreign participants to the 24th congress of IAPD in Seoul.

IAPD (International association of paediatric dentistry) with more than 40-year of history and world-renowned opinion leaders has over 15,000 members since its establishment in 1969 and has consolidated its strong academic field where the clinical and research findings are dynamically being shared by more than 2000 paediatric specialists from over 70 countries.

Since the establishment of the Korean Academy of Pediatric Dentistry in 1959, it has been engaged in a variety of academic activities with the purpose of improving the oral health of child and youth. It has paved its way to the 5th academic association in size among the world paediatric dentistry associations and has taken the leading role in the qualitative improvement of paediatric dentistry.

I am assured that IAPD 2013 in Seoul will be a great opportunity to make known the modern progress of Korean pediatric dentistry and its competitiveness in dental industry at home and abroad. In addition, I wish that the Korean Academy of Pediatric dentistry, jointly with Japan, be the leading countries in Asia to move forward the pediatric dentistry to compete globally.

This congress of IAPD 2013 which will be held in Seoul Coex from June 12th to 15th consists of excellent lectures from the world-renowned speakers under the common theme of “New Visions for Paediatric Dentistry”.

Your attention and support to this congress of IAPD 2013 is greatly appreciated and I hope this congress of IAPD 2013 be remembered as the most successful one throughout the history, both in quantity and quality.

Lastly, I would like to acknowledge the hard work of Prof. Soon-Hyeun Nam, the president of the Korean Academy of Pediatric Dentistry and show special thanks to Prof. Sang-Ho Lee, the chair of the congress of IAPD2013 and other board members and wish you all great health and happiness.

Kyung-Wook Kim
President
The Korean Academy of Dental Science
Dear Colleagues, Guests and Friends:

On behalf of Korean Academy of Paediatric Dentistry, I would like to welcome and thank everyone for coming to 2013 Seoul IAPD conference.

Children are our hope for the future. Improving children’s dental health by preventing and treating oral diseases is pediatric dentists’ rights and responsibilities.

Under the new theme of IAPD congress “New Visions for Paediatric Dentistry” we have prepared lectures on recent topics and study trends to foresee future trend of pediatric dentistry.

I hope this congress could be the place of exchange of academic information and network so that we could improve dental health of children in the world while developing the pediatric dentistry.

We, the KAPD and Organizing Committee of IAPD 2013 Seoul Congress, worked hard to host this conference successfully. If you have any question or need an assistance, please do not hesitate to let us know.

South Korea possess its own old and beautiful traditions, and there are many kind people living in this country. I hope you enjoy Korea’s beautiful scenery and culture during the stay and wish it remains in your memory. Thank you.

Soon-Hyeun Nam
President
Korean Academy of Pediatric Dentistry
It is my great honor, as the chair of LOC of the Seoul IAPD Congress, 2013, to welcome and greet all of you to the 24th Congress of IAPD in Seoul. I would like to express my special gratitude to the Mayor of Seoul, Park Won-Sun for honoring us with his presence today. I also would like to thank the board members of IAPD for the confidence they have shown in entrusting us with the organization of this significant global gathering in Seoul.

For the first time in Korea’s history, in 2013, we are able host this Pediatric Dentistry Congress – something which, up until now, seemed like just a dream. Over the past few years, many National Societies of Pediatric Dentistry successfully accomplished the IAPD Congress. I hope that this year’s Congress also will leave in your memories as successful one.

Preparing the congress, we have encountered some challenges. First thing was that it was somewhat difficult to secure sponsors for this congress when the global economy was down. However, we were able to pull it through successfully with the support from the IAPD board and other individuals and organizations. Another thing was internationally reported recent conflict between South and North Korea, which resulted in the reversal of the participation from a number of people including some of the invited speakers. Nevertheless, large number of registration from all over the world has boosted the morale of the organization committee and I would like to take this chance to express my appreciation to all of you. I hope that everyone will get to experience how safe it is in Korea while attending this congress. Lastly, I am honored and pleased to show special thanks to everyone who made it possible to celebrate the opening of the congress of IAPD 2013 here in Seoul, Korea.

On this occasion of the Seoul IAPD Congress, a total of 1,450 people participated from 63 countries around the world. 653 of these participants were domestic and 797 international. For this Congress, numerous regional associations including EAPD, AAPD, ALOP, PDAA beside the IAPD, and National Societies of Pediatric Dentistry, including Japan, Australia-New Zealand, Brazil, Peru, Israel and Greece have supported us in the hosting of this congress. Dr. Alcaino, the president of IAPD and all board members of IAPD, showed great cooperation and attention, and many companies, including 3M ESPE, Shinheung, Boryung and GC Korea. have supported us for providing sponsorship. I want to take this opportunity to express my heartfelt thanks to all of these people and organizations.
Along the theme of the 24th Congress “New Visions for Pediatric Dentistry” we aim to provide terrific opportunities to illuminate the future prospects of Pediatric Dentistry and the role of the Pediatric Dentist for Children’s oral health care over the world.

The scientific program of this congress consists of two plenary lectures, seven symposiums, nine lectures and three panel discussions in a new scientific format, which will propose new visions for the Pediatric Dentistry. To accomplish all of this, our committee has cultivated the opportunity for a forum of discussion alongside more than 70 speakers of international repute. Furthermore, approximately 700 general subjects will be delivered by 150 oral presentations and 550 poster presentations, which will enrich the congress.

The five pre-congresses held this morning were very successful and well attended, with a large number of participants participating in distinguished lectures and hand-on practices. We are also operating a website designated for mobile phones for participant of the congress. Everyone may benefit from this service by accessing this mobile website from their smartphones, and receiving complete information about the congress. We hope that you will also take advantage of the Q&A sessions after lectures using your smartphone.

Our committee has planned a number of on-site tour programs during the congress. I believe that these programs will provide participants with an unforgettable experience of Korea.

Also various social programs will introduce fascinating Korean culture including traditional styles, tastes and spectacles.

I sincerely hope that IAPD 2013 Seoul Congress will prove to be a truly meaningful experience for all our delegates. I hope that you enjoy the beautiful, dynamic, and safe city of Seoul, and Korea. Thank you.

Sangho Lee  
Chair  
Organizing Committee of IAPD 2013
Supporting healthy oral environment –

Bio-material “Giomer”


text

I N F O R M A T I O N

Lecture
June 13(Thu) 11:00~ , GBR103
Prevention of dental caries using S-PRG containing materials
Satoshi Fukumoto, D.D.S, Ph D
Division of Pediatric Dentistry,
Tohoku University Graduate School of Dentistry

Lunch & Learn
June 13(Thu) 12:30~ , GBR105
Possibility of bioactive materials containing
Surface Pre-Reacted Glass-ionomer filler
Shuichi Ito, D.D.S, Ph D
Division of Clinical Cariology and Endodontology,
Department of Oral Rehabilitation,
School of Dentistry Health Sciences University of Hokkaido
Congress Venue
Venue Plan

Session Rooms

1A: GBR 101+102
- Lecture
- Symposium
- Lunch & Learn

1B: GBR 103
- Lecture
- Symposium
- Lunch & Learn
- Closing Ceremony

1C: GBR 104
- Oral Session
- Symposium

1D: GBR 105
- Pre-Congress 2
- Oral Session

Exhibition Hall

- B2 Hall
- Exhibition Area
- Poster Area
- Coffee Break
- Internet Lounge
- Refresh Zone
- Special Exhibition

Function Spaces

1: Registration Desk
2: Preview Room
3: Speaker’s Ready Room
4: Q&A Lounge
**Congress Information**

**2F**

### Session Rooms
- Room 203: Pre-Congress 4
- Room 208: Pre-Congress 1, Oral Session
- Room 208A: Pre-Congress 3

### Meeting Rooms
- Room 201: IAPD Council Meeting
- Room 202A: IAPD Membership Committee Meeting
- Room 202B: BSBF Award Competition

### Function Rooms
- Room 204: Secretariat IAPD HQ
- Room 205: Press & Secretary General’s Office
- Room 206: KAPD Room

**3F**

### Session Rooms
- Auditorium: Opening Ceremony & Welcome Reception
- Keynote Lecture

### Function Rooms
- Room 1: KAPD-JSPD MOU Ceremony
Important Information

Congress Venue
Coex Convention Center (Grand Ballroom, B2 Hall)
159 Samseong dong, Gangnam-gu, Seoul 135-731, Korea
Tel.: 82 2 6000 0114

Official Language
The official language of the Congress is English.

Name Badges & Congress Material
Name badges and congress material will be provided on-site to registered delegates at the Congress Registration Desk.
All delegates are kindly requested to wear their name badge during all Congress functions.

Certificate of Attendance
All registered delegates will be able to print out Certificate of Attendance at ‘My Page’ of www.iapd2013.org after the Congress by logging in with their ID and PW.

Q&A Lounge
Q&A Lounge is open during break time in front of registration desk. Delegates will get a chance to discuss the topic with the invited speakers after each session.

Continuing Education Credits
All registered delegates are kindly advised to contact the National Dental Association in their country, regarding CE credits for attending the Congress. The LOC will issue certificate of attending hours of sessions that you attended to.

Mobile Webpage
Delegates can check out the program schedule and Congress information at http://iapd2013.org/m2.
Online question board is arranged during the plenary session to increase audience interactivity. Please leave your questions online during plenary sessions.

Accommodation & Tour
Accommodation & Tour desk is located in the Grand Ballroom Lobby (1F). The tour desk is open to arrange the optional tours during/after the congress. Participants are asked to confirm their participation at least one day before departure for each tour. For receipt or any inquiries regarding your room reservation, please visit the Hotel & Tour Desk. Onsite tour program is available.
**Lunch**
Delegates will be provided with a daily lunch during June 13th-15th. Lunch & Learn sessions will be run on June 13th and 14th, 2013.

**Coffee Breaks**
Delegates will be provided with daily coffee breaks during the congress at the Exhibition Hall.

**Internet Lounge**
Free internet access will be provided at the internet lounge which is located at the Exhibition Hall.

**Coex Free Wi-fi**
Delegates are able to use Wi-fi for free at convention hall and exhibition hall. Everyone who has Mobile Device (Smart-phone, Laptop) is able to use it for free. Available Wi-fi: Coex Free Wi-fi zone.

---

**Special Exhibition**
Fascinating and special collection of the Dentist Figurine will be displayed at the special exhibition Zone. Each set of collection features distinguished theme that is unique and fun.

Dr. Kweon’s classic book collection is also one of the most special events for pediatric dentistry. Thanks to his devotion, this collection contains a wide historical spectrum of pediatric dentistry history from 1742 to 2012. Please come and take a look in IAPD 2013.

The first organized text book related to pediatric article (1742)  
Text book published by Dr. Jordon who is first pediatric dentistry (1925)
## Social Program

**Opening Ceremony & Welcome Reception**
- **Date:** Wednesday, June 12, 2013
- **Time:** 17:30
- **Venue:** Coex Convention Center
- **Hall:** Auditorium (3F)
- **Ticket:** All delegates are welcome.
  
  Opening ceremony will feature various performances by children's brass band and Korean traditional percussion music group.
  
  There will be a standing cocktail reception with light refreshment that will give you an opportunity to mingle with other colleagues.
  
  Do not miss out on our special event for a taste of traditional Korean Bibimbap during the welcome reception.

**Gala Dinner**
- **Date:** Friday, June 14, 2013
- **Time:** 19:00
- **Venue:** Myong Wol Gwan (Sheraton Grande Walkerhill)
- **Dress code:** Smart casual
- **Ticket:** 110 USD (SOLD OUT)
- **Transportation:** Shuttle bus is scheduled to leave at 6 pm at North Gate in front of Grand Ballroom.
  
  With its spectacular view of the Han River, the gala dinner will allow you to spend a summer night at a cozy garden with entertainments. Enjoy the BBQ party with unlimited beer.

  **Tel:** 02-450-4595
  **Website:** www.sheratonwalkerhill.co.kr

**Closing Ceremony**
- **Date:** Saturday, June 15, 2013
- **Time:** 16:30
- **Venue:** Coex Convention Center
- **Hall:** Grand Ballroom 103 (1F)
- **Ticket:** All delegates are welcome.

**Farewell Party**
- **Date:** Saturday, June 15, 2013
- **Time:** 19:00
- **Venue:** Sam Cheong Gak
- **Dress code:** Casual
- **Ticket:** 70 USD
- **Transportation:** Shuttle bus is scheduled to leave at 6 pm at North Gate in front of Grand Ballroom.
  
  Korean style dinner will highlight the last day of the Congress with a very local atmosphere.

  **Tel:** 02-765-3700
  **Website:** www.samcheonggak.or.kr
Registration

Registration desk is located at Grand Ballroom Lobby near North Gate. There will be 2 domestic registration desks, 3 overseas registration desks, a speaker & chair registration desk, and one on-site & cashier’s desk.

<table>
<thead>
<tr>
<th>Date</th>
<th>Operating Hours</th>
<th>Place</th>
</tr>
</thead>
<tbody>
<tr>
<td>12 (Wed)</td>
<td>08:00 - 18:00</td>
<td>Grand Ballroom Lobby</td>
</tr>
<tr>
<td>13 (Thu)</td>
<td>07:30 - 18:00</td>
<td></td>
</tr>
<tr>
<td>14 (Fri)</td>
<td>07:30 - 18:00</td>
<td></td>
</tr>
<tr>
<td>15 (Sat)</td>
<td>07:30 - 16:00</td>
<td></td>
</tr>
</tbody>
</table>

Pre-registrants can register conveniently if you bring barcode image we emailed in advance.

Congress Kit includes Abstract Book, Program Book, Pocket Book, Pen and note, Brochure from sponsors.

Congress Registration Fees (Currency: USD)

<table>
<thead>
<tr>
<th>REGISTRATION TYPE</th>
<th>Early Registration (April 15, 2013)</th>
<th>Late Registration (May 12, 2013)</th>
<th>On-site Registration (June 12-15, 2013)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Member</td>
<td>$ 630</td>
<td>$ 720</td>
<td>$ 850</td>
</tr>
<tr>
<td>Non-member</td>
<td>$ 720</td>
<td>$ 850</td>
<td>$ 1010</td>
</tr>
<tr>
<td>Honorary / Senior / Supported Member</td>
<td>$ 350</td>
<td>$ 460</td>
<td>$ 525</td>
</tr>
<tr>
<td>Trainee / Postgraduate student</td>
<td>$ 350</td>
<td>$ 420</td>
<td>$ 500</td>
</tr>
<tr>
<td>Undergraduate Student</td>
<td></td>
<td>$ 160</td>
<td></td>
</tr>
<tr>
<td>Dental Auxiliary</td>
<td></td>
<td></td>
<td>$ 350</td>
</tr>
<tr>
<td>Accompanying Person</td>
<td></td>
<td></td>
<td>$ 160</td>
</tr>
<tr>
<td>Exhibition Visit ONLY (OnSite)</td>
<td></td>
<td></td>
<td>KRW 20,000</td>
</tr>
</tbody>
</table>

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

* Postgraduate or Undergraduate students are kindly requested to provide the secretariat with a proof of their status.
Pre-Congress Postgraduate Student Workshop: When things go wrong – Clinical failures in paediatric dentistry.
Participation fee: $20 per person. (Up to 50 attendants)

Contemporary Sedation in Paediatric Dentistry.
Participation fee: $150 per person. (Up to 100 attendants)

Pre-Congress Workshop in Oral Hygiene: Instruction and Monitoring Caries Activity.
Participation fee: $60 per person. (Up to 60 attendants)

Pre-Congress Hands-on Seminar: Clinical Application of Resin Infiltration.
Participation fee: $50 per person. (Up to 30 attendants)

Pre-Congress Seminar: Anterior and Posterior Ceramic Pediatric Crowns – Hands on Instruction.
Participation fee: $50 per person. (Up to 60 attendants)

Lunch and Learn Sessions (free entrance)
• NuSmile (June 13) • Shofu (June 13) • 3M ESPE (June 14)

Badges

A badge is required for admittance to all official congress sessions and events. Please note that access to the scientific session rooms are strictly restricted to the registered participants wearing their badges.

<table>
<thead>
<tr>
<th>Color Codes</th>
<th>Entitlement</th>
</tr>
</thead>
<tbody>
<tr>
<td>Delegate</td>
<td>• Participation in all scientific sessions • Entrance to the exhibition area • Participation in the Opening Ceremony • Participation in the Closing Ceremony • Participation in the Welcome Reception • Congress Materials • Coffee Breaks • Light Lunches</td>
</tr>
<tr>
<td>Chairperson</td>
<td></td>
</tr>
<tr>
<td>Speaker</td>
<td></td>
</tr>
<tr>
<td>IAPD Board Member</td>
<td></td>
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<tr>
<td>Organizing Committee</td>
<td></td>
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<tr>
<td>Past President</td>
<td></td>
</tr>
<tr>
<td>Pre-Congress</td>
<td>• Participation in paid pre-congress course</td>
</tr>
<tr>
<td>Accompanying Person</td>
<td>• Entrance to the exhibition area • Participation in the Opening Ceremony • Participation in the Closing Ceremony • Participation in the Welcome Reception • Congress Materials</td>
</tr>
<tr>
<td>Exhibitor</td>
<td>• Entrance to the exhibition area</td>
</tr>
<tr>
<td>VISITOR</td>
<td>• Entrance to the exhibition area</td>
</tr>
<tr>
<td>STAFF</td>
<td></td>
</tr>
</tbody>
</table>
Information for Speakers & Presenters

Instructions for Invited Speaker and Oral Presenter

Preview Room

All invited speakers and oral presenters must check in and submit their PowerPoint presentation files at the Preview Room (Next to Grand Ballroom 103, 1F, Coex) at least 2 hours before their scheduled presentation time. This is how we make sure that you are present and that you are made aware of any last-minute instructions or changes concerning your session.

• Place & Operating Hours

<table>
<thead>
<tr>
<th>Date &amp; Time</th>
<th></th>
</tr>
</thead>
<tbody>
<tr>
<td>12 (Wed), 13:00 - 17:00</td>
<td></td>
</tr>
<tr>
<td>13 (Thu) - 14 (Fri), 07:30 - 18:00</td>
<td></td>
</tr>
<tr>
<td>15 (Sat), 07:30 - 14:30</td>
<td></td>
</tr>
<tr>
<td>Place</td>
<td>Function Room (Next to Grand Ballroom 103, 1F, Coex)</td>
</tr>
</tbody>
</table>

- Please visit the Preview Room to upload and check your presentation files at least 2 hours before your session to ensure that all materials are satisfactory. A technician will be ready to assist you.
- If your presentation file contains animations or video clips, you are advised to check over all materials and technical matters 4 hours prior to your session.
- Please bring your PowerPoint presentation file with you on a CD or USB memory stick so that edits or updates can be made easily.

• Prior Meeting

- Each presenter is expected to be at the podium on time for their scheduled presentation.
- Presenters are required to meet chairpersons at the session room before the session starts, and take a seat within the ‘Reserved Seat’ section for speakers (first row of chairs within the room) at least 10 minutes before the session.
Instructions for Poster Presenter

Poster Presentation Schedule

Poster Sessions will be divided into each group as shown below. Poster presenters are required to be present at their assigned boards at the designated time on their scheduled presentation day to give a brief oral presentation.

• Date & Time

<table>
<thead>
<tr>
<th>Session</th>
<th>Session Code</th>
<th>Presenting Date &amp; Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>P01</td>
<td>Dental Materials</td>
<td>P01 (1~48)</td>
</tr>
<tr>
<td>P02</td>
<td>Growth and Development - Orthodontics 1</td>
<td>P02 (49~84)</td>
</tr>
<tr>
<td>P03</td>
<td>Special Needs Patients</td>
<td>P03 (85~118)</td>
</tr>
<tr>
<td>P04</td>
<td>Syndromes and Genetics 1</td>
<td>P04 (119~136)</td>
</tr>
<tr>
<td>P05</td>
<td>Dental Anxiety and Behavioral Management</td>
<td>P05 (137~174)</td>
</tr>
<tr>
<td>P06</td>
<td>Syndromes and Genetics 2</td>
<td>P06 (175~194)</td>
</tr>
<tr>
<td>P07</td>
<td>Epidemiology</td>
<td>P07 (195~210)</td>
</tr>
<tr>
<td>P08</td>
<td>Cariology 1</td>
<td>P08 (212~231)</td>
</tr>
<tr>
<td>P09</td>
<td>Dental Trauma</td>
<td>P09 (232~260)</td>
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<td>P10</td>
<td>Cariology 2</td>
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<td>The Jens Andreason Award</td>
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<td>The Morita Prizes</td>
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<td>P13</td>
<td>Public Health</td>
<td>P13 (375~403)</td>
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<td>P14</td>
<td>Growth and Development - Orthodontics 2</td>
<td>P14 (405~438)</td>
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<td>P15</td>
<td>Dental Anomalies</td>
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<td>P16</td>
<td>Oral Medicine and Pathology</td>
<td>P16 (493~531)</td>
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<td>P18</td>
<td>Endodontics 2</td>
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<td>P19</td>
<td>Prevention</td>
<td>P19 (573~608)</td>
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</table>
**Congress Information**

• Place: B2 Hall (1F), COEX  
• Mounting / Display / Demounting Schedule

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<th>Poster No.</th>
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<td>13 (Thu) 07:30~08:30</td>
<td>13 (Thu) 08:30~17:00</td>
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* Posters that are not removed by the given demounting time will be discarded without notice.

**Placing (Mounting) the poster**

1. Each poster board will bear the abstract presentation number indicating your place among the poster boards.

2. Authors should place their posters on the corresponding boards and other necessary materials for mounting the posters (Mounting board, pin and tape) will be provided at the ‘Authors Help Desk’.

3. Authors (presenters) who present on a specific date will be required to place their poster in the morning (07:30-08:30) of that date and remove it in the afternoon (June 13-14, 17:00-18:00 / June 15, 16:00-16:30), after their presentation has been finished.
NuSmile’s full-line of Zirconia crowns takes center stage
Scientific Program

The 24th Congress of the International Association of Paediatric Dentistry
# IAPD 2013 Program at a Glance

- June 12 (Wed)

<table>
<thead>
<tr>
<th>Time/Date</th>
<th>June 12 (Wed)</th>
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- **Opening Ceremony & Welcome Reception**
- **BSBF Award Competition**
- **IAPD Council Meeting**
- **Pre-Congress Hands-on Seminar: Clinical Application of Resin Infiltration**
- **Pre-Congress Workshop in Oral hygiene: Instruction and Monitoring Caries Activity**
- **Contemporary Sedation in Paediatric Dentistry**
- **Pre-Congress Seminar: Anterior and Posterior Ceramic Pediatric Crowns - Hands on Instruction**
### June 13 (Thu)

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<th>Exhibit Hall(1F)</th>
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<tr>
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<td>Keynote Lectures &amp; Open Forum 1</td>
<td>&quot;New Dental Apps in Caries Prevention&quot;</td>
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**Coffee Break** (Exhibit Hall)

### Lunch Break
12:15~13:15
Lunch & Learn by

- **101-102**: Nusmile
- **103**: Shofu

Lunch provided each room

### Poster Sessions
- **Poster Session 1**: Dental Materials
- **Poster Session 2**: Growth and Development - Orthodontics 1
- **Poster Session 3**: Special Needs Patients
- **Poster Session 4**: Syndromes and Genetics 1
- **Poster Session 5**: Dental Anxiety and Behavioral Management

### Clinical Practice
- **Clinical Practice What’s New? (I)**
• June 14 (Fri)

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<td>Lectures 6 Dental Materials II</td>
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<td>Treasure Island My Strategy in Private Practice</td>
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### June 15 (Sat)

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<td>Symposium 4 Dental Stem Cells for Regenerative Dentistry</td>
<td>Oral Session 15 Cariology 3</td>
<td>Oral Session 16 Dental Anxiety and Behavioral Management 1 / Endodontics 1</td>
<td>Poster Session 15 Dental Anomalies</td>
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<td>Symposium 6 Dental Education &quot;HOW TO BECOME A PEDIATRIC DENTIST&quot;</td>
<td>Clinical Practice What’s New? (III)</td>
<td>Oral Session 19 Oral Medicine and Pathology</td>
<td>Oral Session 20 Dental Anomalies 2</td>
<td>Poster Session 18 Endodontics 2 Poster Session 19 Prevention</td>
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**Lunch Break**
13:00~13:30 KAPD Meeting [105]
Lunch provided Room 101-104

**Closing Ceremony**

**Farewell Party**
Sam Cheong Gak
# Scientific Program

## June 12 (Wednesday)

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
<th>Details</th>
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<tbody>
<tr>
<td>13:00~16:00</td>
<td>Pre-Congress Course 1</td>
<td>208 (2F)</td>
<td>Angus Cameron (Australia) Mike Harrison (UK)</td>
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<tr>
<td>PC 1</td>
<td>Pre-Congress Postgraduate Student Workshop:</td>
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<td>When things go wrong - Clinical failures in paediatric dentistry</td>
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<tr>
<td>09:00~12:00</td>
<td>Pre-Congress Course 2</td>
<td>GBR 105 (1F)</td>
<td>Eduardo Alcaino (Australia) Stephen Wilson (USA) Dimitris Emmanouil (Greece) Douglas Stewart (Australia)</td>
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<tr>
<td>09:00~12:00</td>
<td>Pre-Congress Workshop in Oral hygiene</td>
<td>208 (2F)</td>
<td>Willem Amerongen (Netherlands) Marcelo Bönecker (Brazil) Ji-Yeon Kim (Korea)</td>
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<td>09:00~12:00</td>
<td>Pre-Congress Course 3</td>
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<td>Jin-Ho Phark (USA) Vera Soviero (Brazil)</td>
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<td>Pre-Congress Hands-on Seminar</td>
<td>203 (2F)</td>
<td>Pre-Congress Hands-on Seminar Clinical Application of Resin Infiltration</td>
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<td>09:00~12:00</td>
<td>Pre-Congress Course 5</td>
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<td>Pre-Congress Seminar Anterior and Posterior Ceramic Pediatric Crowns-Hands on Instruction</td>
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<td>11:00~13:00</td>
<td>BSBF Award Competition</td>
<td>202 B (2F)</td>
<td>Sponsored by Colgate</td>
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<td>13:30~16:00</td>
<td>IAPD Council Meeting</td>
<td>201 (2F)</td>
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<td>17:30~19:00</td>
<td>Opening Ceremony of the 24th IAPD 2013 Seoul Congress</td>
<td>Auditorium (3F)</td>
<td>All delegates are welcome. (Performances Included)</td>
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<tr>
<td>19:00~21:00</td>
<td>Welcome Reception</td>
<td>Auditorium Lobby (3F)</td>
<td>All delegates are welcome. (Light refreshments are prepared)</td>
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</table>
June 13 (Thursday)

08:30~10:30  Keynote Lectures & Open Forum 1
: New Dental Apps in Caries Prevention  Auditorium (3F)

Chairpersons: Joel Berg (USA), Jorge Luis Castillo (Peru)

08:30~09:15  PL 1  “Control the biofilm stress!”  Svante Twetman (Denmark)
Sponsored by

09:15~10:00  PL 2  New paradigms of caries management by risk assessment  John Featherstone (USA)

10:00~10:30  Discussion

10:30~11:00  Coffee Break  Exhibition Hall (B2 Hall, 1F)

11:00~12:00  Lectures 1: Minimal-Invasive Dentistry  GBR 101+102 (1F)

Chairpersons: Fouad Salama (Saudi Arabia), Joe Verco (Australia)

11:00~11:25  L1-1  Clinical performance of Caries Infiltration - 5 years of experience  Ulrich Schiffner (Germany)
Sponsored by

11:25~11:50  L1-2  Minimally Invasive Management of Early Childhood Caries  Amr Moursi (USA)

11:50~12:00  Q&A

11:00~12:00  Lectures 2: Dental Materials I  GBR 103 (1F)

Chairpersons: Byeong Ju Baik (Korea), Norbert Krämer (Germany)

11:00~11:25  L2-1  Prevention of dental caries using S-PRG containing materials  Satoshi Fukumoto (Japan)
Sponsored by

11:25~11:50  L2-2  Preserving vitality- the new mission of contemporary Pediatric Dentistry  Mark Cannon (USA)
Sponsored by

11:50~12:00  Q&A

11:00~12:10  Oral Session 01  GBR 104 (1F)

Special Needs Patients 1  Chairpersons: Clive Friedman (Canada), Seong Oh Kim (Korea)
11:00-12:00  Oral Session 02  GBR 105 (1F)
Prevention 1  
Chairpersons: Dorte Haubek (Denmark), Katsuyuki Kozai (Japan)

11:00-12:00  Poster Session 01  Exhibition Hall (B2 Hall, 1F)
Dental Materials (Group 1)  Chairpersons: Luc Martens (Belgium), Joseph Jen-Juhng Tsai (Taiwan)
Dental Materials (Group 2)  Chairpersons: Yumiko Hosoya (Japan), Cynthia Yiu (Hong Kong, China)
Dental Materials (Group 3)  Chairpersons: Naichia Teng (Taiwan), Helena Yli-Urpo (Finland)

12:15-13:15  Lunch & Learn  
GBR 101+102 (1F)
LL1  Ceramic pediatric crowns - when, where, how & why  
Anne O’Connell (Ireland)  
Sponsored by

LL2  Possibility of bioactive materials containing Surface Pre-Reacted Glass-ionomer filler  
Shuichi Ito (Japan)  
Sponsored by

14:00~15:30  Lectures 3: Genetic Perspectives in Paediatric Dentistry  GBR 101+102 (1F)
Chairpersons: Mark Hector (UK), Boyen Huang (Australia)
L3-1  Genetic aspect of Amelogenesis imperfecta  
Jung-Wook Kim (Korea)
L3-2  The syndromes of the smallest teeth and the biggest teeth in the world  
Nik Kantaputra (Thailand)
L3-3  Omic determinants of dental caries for personalized risk assessment and disease prevention & treatment  
Gajanan Kulkarni (Canada)
Q&A

14:00~15:30  Lectures 4: Dental Trauma  GBR 103 (1F)
Chairpersons: Warren Brill (USA), Maria Liza Centeno (Philippines)
L4-1  Introduction-Outcomes for replanted teeth  
Hubertus van Waes (Switzerland)
L4-2  Trauma, Transplants and Orthodontics. The Leeds approach for the multidisciplinary management of traumatised anterior teeth with poor prognosis.  
Monty Duggal (UK)
### Scientific Program

**New Visions for Paediatric Dentistry**

<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>14:00-15:00</td>
<td>Oral Session 03</td>
<td>Special Needs Patients 2</td>
<td>Nan Young Lee (Korea), Kareen Mekertichian (Australia)</td>
</tr>
<tr>
<td>14:00-15:30</td>
<td>Oral Session 04</td>
<td>Cariology 1</td>
<td>Claes Crossner (Norway), Ferranti Wong (UK)</td>
</tr>
<tr>
<td>14:00-15:30</td>
<td>Poster Session 02</td>
<td>Growth and Development – Orthodontics 1 (Group 1)</td>
<td>Ashima Goyal (India), So Hui Oh (Korea)</td>
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<td>Growth and Development – Orthodontics 1 (Group 2)</td>
<td>Jose Hassi (Chile), Mochamed Rizal (Indonesia)</td>
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<tr>
<td>14:00-15:30</td>
<td>Poster Session 03</td>
<td>Special Needs Patients (Group 1)</td>
<td>Jengfen Liu (Taiwan), Diana Ram (Israel)</td>
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<td>Special Needs Patients (Group 2)</td>
<td>Sam Gue (Australia), Yeon Mi Yang (Korea)</td>
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<tr>
<td>15:30-16:00</td>
<td>Coffee Break</td>
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<tr>
<td>16:00-17:30</td>
<td>Lectures 5: &quot;Special Smiles I&quot; Dental Care for Special Children</td>
<td>GBR 101+102 (1F)</td>
<td>SeungHo Baek (Korea), Leda Mugayar (USA)</td>
</tr>
<tr>
<td>16:00-16:25</td>
<td>L4-3</td>
<td>Multidisciplinary Bone management and Auto-Transplantation in posterior region</td>
<td>Mitsuhiro Tsukiboshi (Japan)</td>
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<tr>
<td>15:15-15:30</td>
<td>Q&amp;A</td>
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16:00-17:30

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<th>Time</th>
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<tbody>
<tr>
<td>16:00-16:25</td>
<td>L5-1</td>
<td>Dentistry for every child – All children should have a chance to see a pediatric dentist</td>
<td>Kazumi Kubota (Japan)</td>
</tr>
<tr>
<td>16:25-16:50</td>
<td>L5-2</td>
<td>Asthma: implications for oral and dental care</td>
<td>Richard Welbury (UK)</td>
</tr>
<tr>
<td>16:50-17:15</td>
<td>L5-3</td>
<td>Oral and Dental Care for Children with Cancer</td>
<td>Marcio Da Fonseca (USA)</td>
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<tr>
<td>17:15-17:30</td>
<td>Q&amp;A</td>
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Collaborated with **IADH**
### 16:00–17:40 Clinical Practice: What’s New? (I)  
**Chairpersons:** Johan Aps (USA), Joseph Chan (Hong Kong, China)

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<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>16:00–16:20</td>
<td>CP1-1 Feeding, speech and tongue ties: A contemporary approach to a common problem</td>
<td>Angus Cameron (Australia)</td>
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<tr>
<td>16:20–16:40</td>
<td>CP1-2 The related factors of bruxism in children</td>
<td>Shuguo Zheng (China)</td>
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<tr>
<td>16:40–17:00</td>
<td>CP1-3 Muscle habits and developing malocclusions in children</td>
<td>Kee Sang Hong (Korea)</td>
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<tr>
<td>17:00–17:20</td>
<td>CP1-4 Clinical treatment for premature loss of multiple primary teeth. Are space maintainers necessary?</td>
<td>Aida Carolina Medina (Venezuela)</td>
</tr>
<tr>
<td>17:20–17:40</td>
<td>CP1-5 Implants for the Adolescents – possibilities and limitation</td>
<td>Noraini Yunus (Malaysia)</td>
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### 16:00–16:50 Oral Session 05  
**Chairpersons:** Taku Fujiwara (Japan), Nikos Kotsanos (Greece)

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<th>Time</th>
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<tbody>
<tr>
<td>16:00–17:30</td>
<td>Prevention 2</td>
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### 16:00–17:30 Oral Session 06  
**Chairpersons:** Gideon Holan (Israel), Helen Rodd (UK)

<table>
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>16:00–17:30</td>
<td>Dental Trauma</td>
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### June 14 (Friday)

#### 08:30–11:00 Keynote Lectures & Open Forum 2  
**Chairpersons:** Eduardo Alcaino (Australia), Luciane Costa (Brazil)

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<tr>
<th>Time</th>
<th>Session</th>
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<tr>
<td>08:30–09:10</td>
<td>Sedation and Special Needs patients: Rolling the dice</td>
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<th>Time</th>
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<tr>
<td>08:30–11:00</td>
<td>New Horizons and Challenges in Paediatric Dental Sedation</td>
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<tr>
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<td>Sedation and Special Needs patients: Rolling the dice</td>
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<tr>
<td>08:30–09:10</td>
<td>Leda Mugayar (USA)</td>
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<th>Time</th>
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<tr>
<td>08:30–11:00</td>
<td>Auditorium (3F)</td>
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<tr>
<td>08:30–09:10</td>
<td>PL 3 Sedation and Special Needs patients: Rolling the dice</td>
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<td>08:30–09:10</td>
<td>Leda Mugayar (USA)</td>
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<td>09:10~09:50</td>
<td>PL 4</td>
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<td>09:50~10:30</td>
<td>PL 5</td>
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<td>08:30~10:10</td>
<td>GBR 103</td>
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<td>08:30~08:50</td>
<td>CP2-1</td>
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<td>08:50~09:10</td>
<td>CP2-2</td>
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<td>09:10~09:30</td>
<td>CP2-3</td>
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<td>09:30~09:50</td>
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<td>09:50~10:10</td>
<td>CP2-5</td>
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<td>11:30~12:30</td>
<td>GBR 101+102</td>
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<td>11:30~11:55</td>
<td>L6-1</td>
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<td>11:55~12:20</td>
<td>L6-2</td>
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<td>12:20~12:30</td>
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<td>11:30~12:30</td>
<td>GBR 103</td>
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<td>11:30~11:55</td>
<td>L7-1</td>
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<tr>
<td>11:55-12:20</td>
<td>Hard and soft tissue applications in every daily practice</td>
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<td>Giovanni Olivi (Italy)</td>
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<tr>
<td>12:20-12:30</td>
<td>Q&amp;A</td>
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<tr>
<td>11:30-12:30</td>
<td>Oral Session 07 - Growth and Development - Orthodontics 1</td>
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<td>Chairpersons: Young Chul Choi (Korea), Aida Carolina Medina (Venezuela)</td>
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<tr>
<td>11:30-12:30</td>
<td>Oral Session 08 - Cariology 2</td>
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<td>Chairpersons: Mervat Rashed (Egypt), Ulrich Schiffner (Germany)</td>
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<tr>
<td>11:30-12:30</td>
<td>Oral Session 09 - Public Health 1</td>
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<td>Chairpersons: Martine Gemert-Schriks (Netherlands), Amy Kim (USA)</td>
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<tr>
<td>11:30-12:30</td>
<td>Poster Session 06 - Syndromes and Genetics 2 (Group 1)</td>
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<td>Chairpersons: Andre Saadia (Mexico), Margaretha Suharsini (Indonesia)</td>
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<td>11:30-12:30</td>
<td>Poster Session 07 - Syndromes and Genetics 2 (Group 2)</td>
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<td>Chairpersons: Nik Kantaputra (Thailand), Guangtai Song (China)</td>
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<tr>
<td>11:30-12:30</td>
<td>Poster Session 08 - Epidemiology</td>
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<td>Chairpersons: Hiroyuki Karibe (Japan), Norbert Krämer (Germany)</td>
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<tr>
<td>12:45-13:45</td>
<td>Lunch &amp; Learn - Management of Early Caries Lesions - current thoughts and strategies</td>
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<td>Michael Burrow (Australia)</td>
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<td>Sponsored by 3M ESPE</td>
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## Lectures 8: Pulp

**Chairpersons:** Namki Choi (Korea), Anna Fuks (Israel)

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<th>Session</th>
<th>Title</th>
<th>Speaker</th>
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<tbody>
<tr>
<td>14:00-14:25</td>
<td>L8-1</td>
<td>New visions for pulp treatment of primary teeth</td>
<td>Helen Rodd (UK)</td>
</tr>
<tr>
<td>14:25-14:50</td>
<td>L8-2</td>
<td>New visions for pulp treatment of immature permanent teeth</td>
<td>Ling H. Chueh (Taiwan)</td>
</tr>
<tr>
<td>14:50-15:15</td>
<td>L8-3</td>
<td>New visions for pulp treatment of permanent teeth</td>
<td>Hyun-Jung Ko (Korea)</td>
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<tr>
<td>15:15-15:30</td>
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<td>Q&amp;A</td>
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## Symposium 1: Early Caries Detection

**Chairpersons:** Amr Moursi (USA), Evangelia Papagiannouli (Greece)

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<th>Time</th>
<th>Session</th>
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<th>Speaker</th>
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<tbody>
<tr>
<td>14:00-14:25</td>
<td>S1-1</td>
<td>Why is “early caries detection” important in clinical dentistry?</td>
<td>Ivar Espelid (Norway)</td>
</tr>
<tr>
<td>14:25-14:50</td>
<td>S1-2</td>
<td>Proximal caries detection without x-rays? – First clinical results with the DIAGNOcam device</td>
<td>Jan Kühnisch (Germany)</td>
</tr>
<tr>
<td>14:50-15:15</td>
<td>S1-3</td>
<td>Q-ray: New technology of optical plaque and white spot detection</td>
<td>Baek-IL Kim (Korea)</td>
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<td>15:15-15:30</td>
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<td>Discussion</td>
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## Oral Session 10

**Chairpersons:** Hyunjung Kim (Korea), Priya Subramaniam (India)

## Oral Session 11

**Chairpersons:** Comfort Adekoya-Sofowora (Nigeria), Mark Cannon (USA)

## Oral Session 12

**Chairpersons:** Masao Ozaki (Japan), Tarun Walia (UAE)
14:00-15:30 Poster Session 09 Exhibition Hall (B2 Hall, 1F)
Dental Trauma (Group 1)  Chairpersons: Sung Chul Choi (Korea), Betty Mok (Singapore)
Dental Trauma (Group 2)  Chairpersons: Hyun Woo Seo (Korea), Osama El Shahawy (Egypt)

14:00-15:30 Poster Session 10 Exhibition Hall (B2 Hall, 1F)
Cariology 2 (Group 1) Chairpersons: Seon Mi Kim (Korea), Nina Wang (Norway)
Cariology 2 (Group 2)  Chairpersons: Adrian Lussi (Switzerland), Takahide Maeda (Japan)

14:00-15:30 Poster Session 11 Exhibition Hall (B2 Hall, 1F)
The Jens Andreasen Award Chairpersons: Betul Kargul (Turkey), Jun Wang (China)

14:00-15:30 Poster Session 12 Exhibition Hall (B2 Hall, 1F)
The Morita Prizes (Group 1) Chairpersons: Maria Liza Centeno (Philippines), Soni Stephen (Australia)
The Morita Prizes (Group 2)  Chairpersons: Birgitta Jälevik (Sweden), Kazumi Kubota (Japan)
The Morita Prizes (Group 3) Chairpersons: Joseph Chan (Hong Kong, China), Francisco Ramos-Gomez (USA)
The Morita Prizes (Group 4)  Chairpersons: Shigenari Kimoto (Japan), Shuguo Zheng (China)

15:30~16:00 Coffee Break Exhibition Hall (B2 Hall, 1F)

16:00~17:50 Treasure Island: My strategy in Private Practice GBR 101+102 (1F)
Chairpersons: James Lucas (Australia), Eilly Lau (Hong Kong, China), Justin J.C. Lee (Korea)

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<th>Time</th>
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<th>Speaker, Country</th>
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<tbody>
<tr>
<td>16:00-16:10</td>
<td>T1</td>
<td>Comprehensive Pediatric Dentistry (mission, practice philosophy, goals and challenges)</td>
<td>Yasmi Crystal (USA)</td>
</tr>
<tr>
<td>16:10-16:20</td>
<td>T2</td>
<td>Maintaining a smiling healthy family</td>
<td>Rute Efigénio Gomes (Portugal)</td>
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<tr>
<td>16:20-16:30</td>
<td>T3</td>
<td>Heart to heart approach to pediatric dental patient &amp; parents</td>
<td>Seung June Jeon (Korea)</td>
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<tr>
<td>16:30-16:40</td>
<td>T4</td>
<td>Comprehensive dental and surgical management of children under GA—a private practice perspective</td>
<td>Kareen Mekertichian (Australia)</td>
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<tr>
<td>16:40-16:50</td>
<td>T5</td>
<td>Treatment Alliance &amp; hypnosis in Paediatric Dentistry</td>
<td>Jan Rienhoff (Germany)</td>
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<tr>
<td>16:50-17:00</td>
<td>T6</td>
<td>Providing a painless treatment (with a positive attitude &amp; a good team work)</td>
<td>Yuke Rustan (Indonesia)</td>
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<td>17:00-17:10</td>
<td>T7</td>
<td>About how to build up a successful paediatric dentistry practice</td>
<td>Jinous Tahmassebi (UK)</td>
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<tr>
<td>17:10-17:20</td>
<td>T8</td>
<td>Using Motivational Interviewing and CAMBRA to Promote Health in Our Patients</td>
<td>Ben Taylor (USA)</td>
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<tr>
<td>17:20-17:30</td>
<td>T9</td>
<td>Prevention-oriented behavior management</td>
<td>Anthony Tsai (Taiwan)</td>
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<tr>
<td>17:30-17:40</td>
<td>T10</td>
<td>Perfecting communicative skills when restrain and medication are not an option</td>
<td>Anna Vierrou (Greece)</td>
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<td>17:40-17:50</td>
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<td>Discussion</td>
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**Symposium 2: Dental Erosions in Children**

Chairpersons: Adrian Lussi (Switzerland), Svante Twetman (Denmark)

- 16:00-16:25 S2-1 Diagnosis, Epidemiology and Risk factors
- 16:25-16:55 S2-2 Medical and Psychological Aspects
- 16:55-17:10 S2-3 Prevention
- 17:10-17:40 S2-4 Treatment of dental erosion in children
- 17:40-17:45 Discussion

**Symposium 3: “Special Smiles II” Dental Care Systems for Patients with Special Needs**

Chairpersons: Dimitris Emmanouil (Greece), Jaeho Lee (Korea)

- 16:00-16:25 S3-1 Oral health care system for special children in Sweden
- 16:25-16:50 S3-2 Dental care systems for patients with special needs in Canada
- 16:50-17:15 S3-3 Dental care systems for patients with special needs in Japan
- 17:15-17:30 Discussion

**Oral Session 13**

Chairpersons: Hyung-Jun Choi (Korea), Ece Eden (Turkey)

**Oral Session 14**

Chairpersons: Mike Harrison (UK), Kalaiarasu Peariasamy (Malaysia)
# SCIENTIFIC PROGRAM

## Poster Session 13

16:00-17:30

### Public Health (Group 1)
Chairpersons: Andrej Grijbovski (Norway), Masaaki Ishikawa (Japan)

### Public Health (Group 2)
Chairpersons: Xu Chen (China), Vibeke Qvist (Denmark)

## Poster Session 14

16:00-17:30

### Growth and Development - Orthodontics 2 (Group 1)
Chairpersons: Vuokko Anttonen (Finland), Mitsuo Iinuma (Japan)

### Growth and Development - Orthodontics 2 (Group 2)
Chairpersons: Marja-Liisa Laitala (Finland), Maria Alejandra Lipari (Chile)

## Gala Dinner

19:00–21:00

Gala Dinner Myong Wol Gwan Garden, Sheraton Walkerhill Seoul

Shuttle bus will leave at 18:00 pm in front of the North Gate, Coex.
BBQ Party & Entertainment is prepared.

## June 15 (Saturday)

### Lectures 9: Dental Impaction
08:30–09:30

Chairpersons: Francisco Hernandez (Colombia), Soon Hyeun Nam (Korea)

- **L9-1**
  Factors related to the position of the impacted maxillary canines
  Ki-Taeg Jang (Korea)

- **L9-2**
  Importance of eruption space for upper canines
  Ryuzo Kanomi (Japan)

- **Q&A**

### Coffee Break
09:30–10:00

### Symposium 4: Dental Stem Cells for Regenerative Dentistry
08:30–10:00

Chairpersons: Angus Cameron (Australia), Shobha Tandon (India)

- **S4-1**
  Current opinion in Biotooth
  Han-Sung Jung (Korea)

- **S4-2**
  Responses of dental pulp stem/progenitor cells to tooth replantation/transplantation and the effect of a triple antibiotic solution on traumatized teeth
  Hayato Oshima (Japan)

- **S4-3**
  Dental epithelial differentiation from iPS cells
  Satoshi Fukumoto (Japan)

- **Discussion**
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<tr>
<td>08:30-09:40</td>
<td>Oral Session 15</td>
<td>GBR 104 (1F)</td>
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<td>Cariology 3</td>
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<td>Chairpersons: Gajanan Kulkarni (Canada), Pattarawadee Leelataweewud (Thailand)</td>
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<td>08:30-09:50</td>
<td>Oral Session 16</td>
<td>GBR 105 (1F)</td>
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<td>Dental Anxiety and Behavioral Management 1 / Endodontics 1</td>
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<td>Chairpersons: Man Qin (China), Douglas Stewart (Australia)</td>
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<tr>
<td>08:30-10:00</td>
<td>Poster Session 15</td>
<td>Exhibition Hall (B2 Hall, 1F)</td>
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<td>Dental Anomalies (Group 1)</td>
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<td>Chairpersons: Anne O’Connell (Ireland), Jing Zou (China)</td>
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<td>Dental Anomalies (Group 2)</td>
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<td>Chairpersons: Yasutaka Yawaka (Japan), Noraini Yunus (Malaysia)</td>
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<tr>
<td>10:00-10:30</td>
<td>Coffee Break</td>
<td>Exhibition Hall (B2 Hall, 1F)</td>
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<tr>
<td>10:00-12:00</td>
<td>Lectures 10: Early Orthodontic Treatment</td>
<td>GBR 101+102 (1F)</td>
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<td>Chairpersons: Eung-Kwon Pae (USA), Stephen Wei (Hong Kong, China)</td>
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<tr>
<td>10:00-10:25</td>
<td>L10-1 Early treatment of mandibular displacement cases in primary dentition period</td>
<td>Youichi Yamasaki (Japan)</td>
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<tr>
<td>10:25-10:50</td>
<td>L10-2 Dos and don'ts of Early treatment of Class II Maloclusion with Twin Block</td>
<td>Jorge Luis Castillo (Peru)</td>
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<td>10:50-11:15</td>
<td>L10-3 Class III treatment scenario</td>
<td>Kitae Park (Korea)</td>
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<td>11:15-11:40</td>
<td>L10-4 New Paradigms of Orthodontic Treatment</td>
<td>Yanheng Zhou (China)</td>
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<td>11:40-12:00</td>
<td>Q&amp;A</td>
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<td>10:30-12:00</td>
<td>Symposium 5: Early Childhood Caries</td>
<td>GBR 103 (1F)</td>
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<td>Chairperson: Francisco Ramos-Gomez (USA)</td>
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<td>10:30-10:55</td>
<td>S5-1 Keeping children's teeth cavity free and healthier through Early Intervention and Risk assessment, CAMBRA</td>
<td>Francisco Ramos-Gomez (USA)</td>
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<tr>
<td>10:55-11:20</td>
<td>S5-2 Disease Management of ECC: Results of a Quality Improvement Collaborative</td>
<td>Man Wai Ng (USA)</td>
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<td>11:20-11:45</td>
<td>S5-3 Innovative therapies and treatment for ECC</td>
<td>Young J. Kim (Korea)</td>
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<td>11:45-12:00</td>
<td>Discussion</td>
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### 10:30-11:50

**Oral Session 17**  
Endodontics 2  
*Chairpersons: Rita Cauwels (Belgium), Jae-Hong Park (Korea)*

**Oral Session 18**  
Dental Anxiety and Behavioral Management 2 & Dental Anomalies 1  
*Chairpersons: Nigel King (Australia), Howon Park (Korea)*

### 10:30-12:00

**Poster Session 16**  
Oral Medicine and Pathology (Group 1)  
*Chairpersons: Ji-Hun Kim (Korea), Elena Maslak (Russian Federation)*

Oral Medicine and Pathology (Group 2)  
*Chairpersons: Saul Paiva (Brazil), Seikou Shintani (Japan)*

**Poster Session 17**  
Endodontics 1  
*Chairpersons: Seung June Jeon (Korea), Je Seon Song (Korea)*

### 13:00-13:30

**KAPD Meeting**  
*Chairpersons: Milton Houpt (USA), Shin Kim (Korea)*

### 14:00-16:00

**Symposium 6: Dental Education**  
"HOW TO BECOME A PEDIATRIC DENTIST"  
*Chairpersons: Milton Houpt (USA), Shin Kim (Korea)*

| 14:00-14:18 | S6-1 | An overview of Pediatric Dental Education in Europe  
The Specialty of Paediatric Dentistry in the United Kingdom | Evangelia Papagiannouli (Greece)  
Mark Hector (UK) |
| 14:18-14:36 | S6-2 | Pediatric Dentistry Education in Israel  
Becoming a Pediatric Dentist in Japan  
Changes in Pediatric Dentistry Education in the United States | Anna Fuks (Israel)  
Yasuo Tamura (Japan)  
Joel Berg (USA) |
| 14:36-14:54 | S6-3 | Information Technologies in Pediatric Dental Education in Brazil  
Discussion | Marcelo Bönecker (Brazil) |
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<td>14:00~15:40</td>
<td>Clinical Practice: What’s New? (III)</td>
<td>GBR 103 (1F)</td>
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<td><em>Chairpersons: Lihong Ge (China), Anna Vierrou (Greece)</em></td>
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<td>14:00~15:20</td>
<td>Oral Session 19</td>
<td>GBR 104 (1F)</td>
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<td><em>Oral Medicine and Pathology: Halimah Awang (Malaysia), Rashid Tahir (Singapore)</em></td>
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<td>14:00~15:30</td>
<td>Poster Session 18</td>
<td>Exhibition Hall (B2 Hall, 1F)</td>
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<td><em>Endodontics 2: Jiyoung Ra (Korea), Anthony Tsai (Taiwan)</em></td>
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<td>14:00~15:30</td>
<td>Poster Session 19</td>
<td>Exhibition Hall (B2 Hall, 1F)</td>
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<td><em>Prevention (Group 1): So Youn An (Korea), Figen Seymen (Turkey)</em></td>
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<td><em>Prevention (Group 2): Byung Duk Ahn (Korea), Georgina Remulla (Philippines)</em></td>
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<td>16:30~17:30</td>
<td>Closing Ceremony of the 24th IAPD 2013 Seoul Congress</td>
<td>GBR 103 (1F)</td>
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<td>19:00~21:00</td>
<td>Farewell Party (Korean Taste on the Mountain)</td>
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<td><em>Shuttle bus will leave at 18:00 pm in front of the North Gate, Coex. Traditional Korean cuisine will be served.</em></td>
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Abstracts of Symposia & Invited Lectures

Pre-Congress Courses

PC1
Pre-Congress Postgraduate Student Workshop:
When things go wrong - Clinical failures in paediatric dentistry

ANGUS CAMERON (Australia), MIKE HARRISON (UK)

Much more knowledge is gained from examining mistakes and when things go wrong rather than just looking at successes. Clinical failures are common and may arise from unexpected events, surprises and unpredicabilities, inadequate investigation or plainly: an incorrect diagnosis. Materials and techniques are often stretched past the limits of their design. When treating children, behaviour management may often be the one determinant of success of a particular procedure and the clinician needs to be pragmatic and astute enough to predict when failures will occur and be able to manage them appropriately. This course will postgraduate students give an insight into the common causes of failures in paediatric dentistry and highlight some unexpected events and possible clinical catastrophes. It will involve group-work in solving clinical problems and trying to predict when and where failures may occur.

PC2
Contemporary Sedation in Paediatric Dentistry

EDUARDO ALCAINO (Australia), STEPHEN WILSON (USA), DIMITIRIS EMMANOUIL (Greece), DOUGLAS STEWART (Australia)

This course is offered for the first time in IAPD and will address common sedation techniques used around the world in paediatric dentistry. The course will identify common techniques used in children and trends in the field of sedation. These include the use of nitrous oxide sedation, oral sedation, intra-venous sedation and the use of general anaesthesia. Delegates will be exposed current literature, guidelines, monitoring devices and the need for ongoing training courses.

This course will take the form of 3-4 lectures addressing the various topics including:
1. Definition and sedation guidelines
2. Anatomy and physiology of the child patient
3. Monitoring and sedation protocols
4. Nitrous oxide sedation & oral sedation
5. Intravenous sedation and general anaesthesia

The afternoon will also have a discussion group stage where participants may interact and discuss specific topics or clinical case reports.
PC 3
Pre-Congress Workshop in Oral hygiene:
Instruction and Monitoring Caries Activity

WILLEM AMERONGEN (Netherlands), MARCELO BÖNECKER (Brazil), JI-YEON KIM (Korea)

Although the overall presence of dental caries has declined throughout developed countries over the past few decades, dental caries are still one of the most prevalent chronic diseases for children in many countries. Even in economically developed countries, many children especially from lower-socioeconomic status households suffer from severe dental caries. Over the last decade, efforts have been made to establish caries risk assessments and to present caries management methods based on individual risk levels. Early detection of carious lesions and assessment of caries activity can provide a higher chance for the inhibition of demineralization.

The aim of this pre-congress workshop is to provide good suggestions for the improvement of oral hygiene care for children at risk from dental caries. For this purpose the workshop will cover caries-risk assessment and two main caries prevention program, oral hygiene instruction and use of fluoride.

In “Traditional and new methods for oral hygiene instruction”, Prof. Amerongen will present both long-standing and recent methods for oral hygiene instruction. He will outline the drawbacks of tradition methods and why these are ineffective, how these methods can be improved, which aspects of behavior it is important to change, and how can we achieve that goal.

In “Identifying risk factors for dental caries in children”, Prof. Bönecker will cover evidence-based means for caries risk assessment. Caries risk assessment involves dentists identifying the cause of disease by assessing risk factors for each individual child. Based on the evidence presented, dentists may then effectively manage problems using specific treatment recommendations.

In “Evidence-based use of fluoride for caries prevention in children”, Prof. Kim will discuss the appropriate use of fluoride in contemporary pediatric dentistry. The paradigm of fluoride’s effect on dental caries has shifted from one of systemic action to those of topical effects on the enamel and biological effects on enzyme systems of cariogenic bacteria. Based on this concept, Kim will propose alternative suggestions for the use of fluoride according to individual caries-risk levels.

PC4
Pre-Congress Hands-on Seminar (DMG):
Clinical Application of Resin Infiltration

JIN-HO PHARK (USA), VERA SOVIERO (Brazil)

This hands-on-seminar will review the current concepts and development of resin infiltration for treatment of early caries lesions. Emphasis will be on linking research data to its clinical procedures in esthetic and preventive dentistry.
Topics to be covered:

- Current status of resin infiltration- indications and contraindications.
- Inhibition of caries progression in interproximal lesions using the micro-invasive resin infiltration.
- Considerations for the clinical application of resin infiltration in the esthetic zone – Using resin infiltration in the anterior zone on post-orthodontic white spot lesions.

The presenters, Dr. Jin-Ho Phark, Assistant Professor, Division of Restorative Sciences, University of Southern California and Prof. Vera Mendes Soviero, Professor of Pediatric Dentistry, University of Rio de Janeiro, have over 6 years of clinical experience using the Caries Infiltration technique.

PC5
Pre-Congress Seminar (NuSmile):
Anterior and Posterior Ceramic Pediatric Crowns - Hands on Instruction

ANNE O’CONNEL (Ireland), RAY STEWART (USA), WILLIAM WAGGONER (USA), SUNG-KI KIM (Korea)

The use of ceramic crowns is a relatively new technology available to pediatric dentistry for the restoration and rehabilitation of the primary dentition. NuSmile ZR (zirconia) crowns offer the ultimate combination of art and science for esthetic restoration of both anterior and posterior primary teeth. This is a “hands on” workshop which will cover the principals and techniques for sizing, preparation, fitting and cementation of NuSmile ZR crowns. At the completion of this workshop, the clinician will understand and demonstrate competence in all phases of case selection, tooth preparation, proper fitting and cementation of ceramic anterior and posterior primary crowns. All necessary equipment and materials will be available for participants to achieve the course goals.
Session | Keynote Lectures & Open Forum 1: New Dental Apps in Caries Prevention
--- | ---
Date & Time | June 13 (Thu), 08:30–10:30
Place | Auditorium (3F)

**● PL 1 “Control the biofilm stress!”**

SVANTE TWETMAN (Denmark)

The Human Microbiome Project has provided insights that human biofilms have co-evolved with mankind and play an important role for health and well-being. The current understanding is that the oral microbiota does not play a passive role but contributes actively to the maintenance of oral health through a balance between beneficial bacteria and potential pathogens. However, ecological shifts may allow overgrowth of pathogens with subsequent disease activity. Regarding caries, a prolonged acid biofilm stress by fermentable carbohydrates favours aciduric species (e.g. mutans streptococci and lactobacilli), reducing the biofilm diversity and resulting in enamel demineralisation. This event can be controlled along four main avenues: i) use of metabolic inhibitors (fluoride, xylitol), ii) diet frequency interventions, iii) saliva stimulation, and iv) new apps, such as bacteriotherapy, targeted antimicrobial peptides, and alkali-generating supplements. The lecture will give practical examples on evidence-based and emerging methods to combat biofilm stress for the maintenance of dental health in childhood.

**● PL 2 New paradigms of caries management by risk assessment**

JOHN FEATHERSTONE (USA)

Effective management of dental caries is critical for the success of the pediatric dentist. Dental caries is a bacterially based disease that progresses when acid produced by bacterial action on dietary fermentable carbohydrates travels into the tooth and dissolves the carbonated hydroxyapatite mineral. Pathological factors, including multiple species of acidogenic bacteria, salivary dysfunction, and dietary carbohydrates are related to caries progression. Protective factors, which include antibacterials, salivary calcium, phosphate and proteins, salivary flow, and fluoride in saliva can balance, prevent or reverse dental caries. This presentation will summarize the scientific evidence behind the “caries balance” concept, which is the key to caries management by risk assessment in clinical practice. Caries risk assessment methods are validated as are caries management protocols by clinical trials. New antibacterial therapy is on the horizon. Implementation of caries management by risk assessment into daily dental practice is a reality, with improvements yet to come.
L1-1  Clinical performance of Caries Infiltration - 5 years of experience

ULRICH SCHIFFNER (Germany)

The caries infiltration technique provides a new treatment option for incipient non-cavitated carious lesions. It aims to arrest early carious lesions by filling the demineralised, porous tooth structure with a highly diffusible light-cured resin. The infiltrated structure is prevented from further demineralization. An important condition for successful infiltration is that there is no cavitation of the carious surface. Thus, in approximal lesions, diagnosis based on significant radiographs is important for the clinical outcome of the technique.

Approximal caries is known to develop during adolescence and in young adults. Thus, the infiltration technique is a matter of paediatric dentistry, with adolescents being a target group for approximal caries infiltration.

Several randomized, controlled, and double-blind long-term clinical studies on approximal caries progression in adolescents and young adults have shown that the infiltration technique is able to reduce lesion progression significantly. As these age groups exhibit epidemiologically the highest risk of proximal lesions, they profit the most from caries infiltration. Studies with a period of up to 3 years have shown concurrently that there is a reduction of lesion progression of 50-89%, compared with controls. In primary teeth, a similar effect following the infiltration of approximal lesions has been shown after 1 year. Lesion progression was reduced by more than 50%.

Recently, data about the radiographic outcome of approximal caries infiltration have been reported over an observation period of five years, showing radiographic progression in 11% of the infiltrated test lesions but 53% of the control lesions. The significantly positive outcome which corresponds to a reduction of lesion progression by 79% confirms that resin infiltration is efficacious in reducing lesion progression.

A range of other studies have added to our experience about different aspects of the clinical outcome of caries infiltration. No unwanted side effects have been reported. Even in individuals with high caries risk the resin infiltration performed in private practices is efficacious in reducing lesion progression. Different studies with no control group have shown in more than 90% of infiltrated lesions an arrest of lesion progression after 12 – 18 months. Frequently, white spot smooth surface lesions which might occur after debonding of fixed orthodontic appliances have been infiltrated. This application leads to a good masking of the post-orthodontic white spot lesions, sustaining the appearance of healthy enamel and being stable over time. In some cases even the masking of developmental enamel defects has been shown.

In conclusion, the caries infiltration technique is a successful procedure to arrest early caries and to prevent further caries development in paediatric dentistry, performing significantly better than other non-operative treatments.

L1-2  Minimally Invasive Management of Early Childhood Caries

AMR MOURSI (USA)

This presentation will discuss various strategies and techniques for minimally invasive management of Early Childhood Caries (ECC). This will include the use of antimicrobial therapies, remineralization therapies (such as fluoride materials and
amorphous calcium phosphate materials), and also glass ionomer materials. This presentation will also discuss indications, contra-indications and the risks and benefits of each type of therapy.

### Session L2-1  Prevention of dental caries using S-PRG containing materials

**SATOSHI FUKUMOTO (Japan)**

Progress has since been made in developing materials with better durability and good physical properties that cause little damage to the tooth. Surface prereacted glass ionomer (S-PRG) filler has been developed, which possesses physical strength and high levels of controlled-release fluoride. Dental materials using S-PRG filler include sealant, tooth-surface coating material (PRG Barrier Coat™), composite resin, orthodontic resin bonding system, denture base resin, and root canal sealer. Through the release and recharge of fluoride and various other ions, cavities can be prevented in the area of repair and neighboring teeth, and the adhesion of plaque to the tooth surface can be suppressed.

First, in order to evaluate the shear bond strength of PRG Barrier Coat, the material was bonded to enamel and dentin using a brass ring, after which the shear bond strength was measured. Shear bond strength of 10 MPa or more was observed in enamel and dentin 24 hours after adhesion. Next, we evaluated the effect of the pH value and bacterial adhesion on PRG Barrier Coat compared with hydroxyapatite (HA) surface. Decrease of pH value after cultured with *S. mutans* or *S. sobrinus* was inhibited on PRG Barrier Coat. Further, bacterial adhesion on PRG Barrier Coat was decreased compared with HA disc, indicating that PRG barrier coat may be useful to prevent acid production and adhesion of oral bacteria on tooth surface. In clinical application of PRG Barrier Coat, dental caries was completely prevented in children with incipient caries or enamel hypoplasia. Further, in this session, we will present about the long-term application of fissue sealant containing S-PRG filler (BeautiSealant).

### Session L2-2  Preserving vitality- the new mission of contemporary Pediatric Dentistry

**MARK CANNON (USA)**

Recent developments in resin technology have propelled the introduction of hydrophilic resins for the evolution of therapeutic dental products. These resins allow for the addition of bioactive dental components in order to positively influence the pulpal health. One such innovative product is marketed as TheraCal LC. This has now also evolved into TheraCal DC, a dual cured resin based dicalcium silicate. Besides being very pulpullly kind by preserving cell vitality, dentin bridge formation is encouraged, and resorptive processes are hindered. In addition, the dentin hybrid layer is preserved.

**Learning Objectives:**
- define what resin based materials are hydrophilic and bioactive. In addition, the participant will understand why the use of hydrophobic material for therapeutic purposes is not recommended.
- list the necessary steps to maintain pulpal vitality (long term) and what animal studies have demonstrated. In addition, the participant will understand the interaction between the pulp and medicaments.
- Importance of dentin hybrid layer preservation for vitality, prevention of micro-leakage, absence of recurrent caries and post-operative sensitivity.

<table>
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<th>Lectures 3: Genetic Perspectives in Paediatric Dentistry</th>
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<td><strong>Date &amp; Time</strong></td>
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**L3-1 Genetic aspect of Amelogenesis imperfecta**

JUNG-WOOK KIM (Korea)

Tooth Enamel is unique tissue in the human body in the aspect of its exceptional hardness and fine structure. Enamel defects can be caused by genetic as well as environmental factors. Amelogenesis imperfecta (AI) is a phenotypically and etiologically heterogeneous group of inherited defects in dental enamel. The enamel malformations observed in patients with AI are often subdivided depending upon the thickness and hardness of the affected enamel. Based upon the enamel phenotype and mode of inheritance, 14 clinical subtypes of AI are recognized. The enamel malformations observed in AI patients are categorized as hypoplastic, hypocalcified, or hypomaturation types. Hypoplastic enamel is thin, which is suggestive of disturbances during the secretory stage of amelogenesis. Hypomaturation types have an enamel layer of normal thickness, but the enamel is soft and contains more residual protein than normal enamel, indicative of disturbances during the maturation stage. Hypocalcified enamel is extremely soft, and is caused by disturbances that affect both the secretory and maturation stages. Amelogenin gene in the X chromosome (AMELX) is responsible for X-linked forms of AI, which is hypoplastic and/or hypomaturation type. Autosomal hypoplastic AI can be caused by Enamelin (ENAM) in the chromosome 4q21. MMP20 and KLK4 mutations are responsible for autosomal recessive hypomaturation AI. Due to the lack of proper cleavage of enamel matrix proteins, affected enamel is hypomatured, pigmented, and softer than normal one. There are many candidate genes such as Ameloblastin (AMBN), tuftelin (TUFT), APIN, and Amelotin (AMTN). So far the mutational analysis of AI has focused on the matrix protein encoding genes. Recently genome-wide scans combined with mutational analyses have identified AI-causing genes not previously suspected to play a role in dental enamel formation. Autosomal dominant hypocalcified AI (ADHCAI) is caused by mutations in family with sequence similarity 83 member H (FAM83H) and autosomal recessive hypomaturation AI by WD repeat-containing protein 72 (WDR72). Mutations in the FAM20A gene cause autosomal recessive hypoplastic AI with gingival hypoplasia and eruption failure. C4orf26 and SLC24A4 gene mutations have been recently identified to cause autosomal recessive hypomineralized AI. It is anticipated that further characterization of the genes and mutations that cause AI will provide additional important insights into the roles of enamel matrix proteins in normal and pathological enamel formation.

**L3-2 The syndromes of the smallest teeth and the biggest teeth in the world**

NIK KANTAPUTRA (Thailand)

Dental anomalies can be isolated (non-syndromic) or associated with other features (syndromic). They have been reported to be associated with many syndromes. Small teeth (microdontia) are common. The most frequently affected ones would be the maxillary lateral incisors. They are usually presented as peg-shaped lateral incisors. Recently we
have reported patients with the smallest teeth in the world in two Thai families affected with Microcephalic Osteodysplastic Primordial Dwarfism Type II (OMIM 210720; MOPD II) (Kantaputra et al., 2011). The sizes of the mandibular permanent incisors and all premolars were approximately 2.2-2.5 mm, mesiodistally. This rare genetic disorder is caused by mutations in PCNT gene which encodes centrosomal protein pericentrin. MOPD II is a very rare autosomal recessive form of primordial dwarfism, characterized by severe pre-and postnatal growth retardation, relatively proportionate head size at birth, but pronounced microcephaly in adulthood. The craniofacial features include prominent nose with hypoplastic alae nasi, small and dysplastic pinnae, small mouth, and sparse hair. It is important to note that a number of patients have been reported with life threatening CNS hemorrhages and strokes early in life. Mutation analysis of PCNT revealed 2 novel mutations (p.Lys3154del and p.Glu1154X) and a recurrent mutation (p.Arg192X). In situ hybridization of Pcnt shows its expression in the epithelium and mesenchyme during early stages of mouse tooth development (Kantaputra et al., 2011).

Macrodontia or the condition of having larger than normal size of teeth is an uncommon condition. It has been reported as isolated incidence or as a part of syndromes including KBG and Otodental syndromes. We would like to report a Thai boy with the biggest teeth in the world. All of his teeth are very big especially the gigantic third molars. Their mesiodistal dimension are 2.5-3 cm. The shovel-shaped incisors are common observed. This extremely rare condition has been reported as Ekman-Westborg-Julin syndrome. Approximately 10 cases have been reported in the literature. Most of them had intellectual disability. It is interesting to note the association between tooth size and brain development. Dentists who have patients with this condition are cordially invited to collaborate to find the gene of this extremely rare condition.

**L3-3 Omic determinants of dental caries for personalized risk assessment and disease prevention & treatment**

GAJANAN KULKARNI (Canada)

The relative contribution of genomics to the development of dental caries and particularly to early childhood caries (ECC) has not been studied to the same extent as the classical microbiological and environmental contributions. Presently available caries risk prediction models do not provide the sensitivity or the prediction accuracy of future caries as they do not take into account the genetic predisposition of an individual for caries. Recent advances in omics based technologies provide new avenues not only for caries risk prediction but more importantly for personalized management of the disease. Highlighting the rationale, methodologies and current research in these areas, the talk will provide a vision of the future of pediatric dentistry that utilizes omic determinants of dental caries for personalized risk assessment, disease prevention and treatment.
L4-1 Introduction—Outcomes for replanted teeth

HUBERTUS VAN WAES (Switzerland)

Teeth that were replanted after avulsions have a quite poor prognosis, depending on the extraoral time and the conditions they were exposed to. Very often severe resorptions lead to a loss of normal periodontium which causes not only acute inflammations but can in the case of ankyloses also lead to severe disturbances of development of the alveolar bone. If teeth are lost or have to be extracted due to complications, the question arises, how to replace them. Especially in young children transplantation of other teeth into the location of a lost tooth is a valid option to ensure normal development together with good and aesthetic replacement. Then the question comes up, what the dentist can do to give a transplanted tooth a better prognosis compared to a replanted tooth. This lecture will be an introduction to the two following lectures and focus on some of the factors that contribute to the development of resorptions.

L4-2 Trauma, Transplants and Orthodontics. The Leeds approach for the multidisciplinary management of traumatised anterior teeth with poor prognosis.

MONTY DUGGAL (UK)

Many traumatic injuries to permanent anterior teeth in children have a poor long term outcome. Intrusion and Avulsion are two such injuries which carry a poor long term outcome due to the severity of the insult to the periodontal ligament and the pulp. Especially the injury to the periodontal ligament predisposes the teeth to bony ankylosis which leads to replacement resorption. The subsequent loss of these anterior teeth can be distressing for the child, and the replacement of the lost teeth poses a clinical challenge for the dentist. In this talk the author will focus on a multidisciplinary approach to the management of anterior permanent teeth that have a poor prognosis or have been lost due to trauma. At the Leeds Dental institute in the U.K, we have developed an approach aimed at the management of bone in the anterior region following trauma by planned and timely decoronation of the ankylosed teeth or through bone development at the site where the tooth has been lost. Through close cooperation with orthodontics long term treatment planning ensures that the lost teeth can be subsequently replaced with auto transplantation as many children have crowded dentitions and require extractions for orthodontic reasons. The extracted teeth can be used as donor teeth and transplanted to the region where anterior teeth are lost due to trauma. The purpose of this talk is to share with the delegates our experience through this approach and present cases where such approach has been used. In Leeds we have placed over 160 autotransplants with a success rate of over 87.5%. Managed replacement resorption, bone development, orthodontic treatment planning, the transplantation procedure and subsequent aesthetic management will be presented.

L4-3 Multidisciplinary Bone management and Auto-Transplantation in posterior region

MITSUHIRO TSUKIBOSHI (Japan)

If cariously hopeless molars are found in young patients, autotransplantation using third molars as donor teeth is worth taking into consideration at high priority (Fig1).
If congenitally missing teeth are found in young patients, autotransplantation of teeth should be considered at appropriate timing if there is an appropriate candidate as a donor (Fig 2).

If patients suffer juvenile periodontitis, it may be the best way to replace severely involved molars with intact third molars (Fig 3).

Autotransplantation of teeth is one of the strongest and most predictable armamentaria to reconstruct integrity of natural dentition in young patients.

In my presentation, the indications, advantages and techniques for success in autotransplantation of teeth in posterior region will be discussed.

**Fig 1.**

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<th>Just After</th>
<th>8 Years</th>
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**Fig 2.**

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<th>Just After</th>
<th>6 Years</th>
<th>6 Years</th>
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**Fig 3.**

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<th>Before</th>
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<th>7 Months</th>
<th>2.5 Years</th>
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<tr>
<th>Session</th>
<th>Lectures 5: “Special Smiles I” Dental Care for Special Children</th>
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<td>Date &amp; Time</td>
<td>June 13 (Thu), 16:00-17:30</td>
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<td>Place</td>
<td>GBR 101+102 (1F)</td>
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**L5-1 Dentistry for every child – All children should have a chance to see a pediatric dentist**

KAZUMI KUBOTA (Japan)

I have worked as a pediatric dentist under the conviction that all children should be treated equally no matter what kinds of disabilities or diseases they may have. The following are the work I did and am still doing now.

1. **Behavioral management:** Tell-Show-Do: basic approach which I learned at NYU Pediatric Dentistry
2. **Mental retardation / Autistic spectrum:** Harmacological approach including General Anesthesia
3. **Medically compromised children:**
4. **Eating and swallowing disorder:** dysphagia rehabilitation
5. **The role of the Pediatric Dentist in cleft lip and/or palate patients**

By this presentation I will talk about #4 and #5 as main topics. Eating and swallowing disorder: dysphagia rehabilitation. Children with congenital diseases are commonly impaired in feeding and swallowing functions as well as general
development to some extent. Since I worked at Kanagawa Children’s Medical Center, Japan in 1995, many chances are
given to learn dysphagia rehabilitation by Professor Mukai. I will introduce the clinical evaluation of eating and
swallowing disorder of the patients with congenital diseases such as cerebral palsy, intellectual disability, children with
syndrome, etc. The role of the Pediatric Dentist in cleft lip and/or palate patients Cleft lip and/or palate are the most
common congenital craniofacial defect and may occur in isolation or in association with other anomalies. I also have
chances to work as a pediatric dentist in the plastic and reconstructive surgery department at Keio University, Japan. I
will show my idea about the role of the pediatric dentist in cleft and/or palate patients. It includes not only the
prevention of dental caries but also the use of infant palatal plate, the instructions for bottle and/or breast feeding ,how
to eat solid food, etc.

L5-2  Asthma: implications for oral and dental care
RICHARD WELBURY (UK)

Childhood asthma affects up to 23% of children in the UK and can develop in early or late childhood and thereafter
persist or remit. Over 1.1 million children in the UK are affected and every 17 minutes a child in the UK is admitted to
hospital because of their asthma. Asthma has a complex phenotype whose aetiology is far from straightforward and
many factors have been implicated. Genetic influences are widely accepted as important and thought to contribute
towards as much as 50% of the risk for developing asthma. Environmental factors are also important and include
antenatal and postnatal exposures to tobacco smoke, dietary factors and infective agents. The heterogeneity of asthma
may be explained by interactions between different combinations of genes and environmental factors, each of which
has an influence on an outcome which involves excess mucus production, inflammation of the epithelial lining of
airways, and an increased bronchial smooth muscle tone. Asthma and its treatment may impinge upon oral and dental
care in a number of ways: anxiety and stress caused by dental treatment can precipitate asthma; asthma medication can
have a number of side effects including throat irritation, dry mouth, hoarseness, oropharyngeal candidiasis, a link with
caries and non carious tooth surface loss (erosion), decreased saliva production thereby increasing caries susceptibility
and calculus deposition, relaxation of the lower oesophageal sphincter facilitating gastric reflux; adrenal suppression
from either oral or inhaled steroids; aspirin and other non-steroidal anti-inflammatory drugs precipitating
bronchospasm; allergies to penicillin occurring more commonly; and intra venous sedation and general anaesthesia
carrying an increased risk. The paediatric dentist needs to be aware of all these interactions and work with families and
medical practitioners to minimise risk and morbidity.

L5-3  Oral and Dental Care for Children with Cancer
MARCIO DA FONSECA (USA)

This lecture will review the most common signs and symptoms of childhood cancer, its prevalence, the parameters
dental professionals need to know before doing invasive dental procedures, oral care during chemotherapy and
radiotherapy, and common acute and long-term sequelae of treatment of childhood cancer.
CP1-1  Feeding, speech and tongue ties: A contemporary approach to a common problem

ANGUS CAMERON (Australia)

Ankyloglossia is a anatomical variation of normal. There is conflicting evidence in the dental and speech pathology literature as to the indications for lingual frenectomy and most recommendations are anecdotal at best. A long-term prospective study investigating feeding and speech outcomes following early intervention is underway and this presentation will discuss some contemporary views regarding issues of breast feeding, long-term dental effects and acquisition of speech disorders with this very common anomaly. Improved breast feeding have been achieved following early tongue tie release in over 1500 infants of less than 3 months of age where documented feeding difficulties have been assessed by lactation consultants. The efficacy of different surgical and conservative management techniques will be discussed.

CP1-2  The related factors of bruxism in children

SHUGUO ZHENG (China)

**Background:** It has been defined as a parafunctional activity, carried out during the day and/or night that consists of nonfunctional contact of the teeth and includes clenching or grinding in a nonvoluntary form, rithmical or spasmodic. At present, there were many controversies about the etiology of bruxism. Although most studies of bruxism were about adult, because of the difficulty in cooperation, the study of bruxism in children especially in the deciduous and mixed dentition was seldom found in the literature. **Aim:** To summarize the relative factors of children bruxism through the inspection of psychology, occlusion and so on in bruxism children. **Design:** Data of 117 children, who were 4-10 years old were collected in the present study. There were 59 children in bruxism group and 58 children in control group. Oral and temporomandibular joint examinations were taken on each child, and the parents were asked to fill the questionnaires. The data were statistically calculated, the relationship between the factors and the occurrence of bruxism was analyzed. **Results:** The result showed that: OR (odd ratio) for psychology factor, occlusal factor, specific sleep posture, parents heredity and relatives heredity were 1.074, 1.528, 4.472, 11.164 and 8.757, respectively. **Conclusions:** Psychology factor, occlusal factor, specific sleep posture and heredity factor are the related factors of children bruxism.

CP1-3  Muscle habits and developing malocclusions in children

KEE SANG HONG (Korea)

The role of pediatric dentists involves maintaining and guiding the oral health of children throughout their growth and development. Assessment, recognition and effective interception of untoward oral muscle habits that will have detrimental effects on the child’s facial growth and occlusal development should be an important part of any pediatric dentist’s arsenal.

Cases emphasizing the importance of proper nasal breathing, lip seal at rest, correct resting tongue posture and normal somatic swallow will be presented. Also viewed will be how re-establishing proper oral posture and muscular function
Aided in the resolution of these problems. Appliances, exercises and at-home measures that were used will be shown. As the provider of comprehensive oral health care for children throughout their growth, pediatric dentists should be competent to recognize the causes and contributing factors such as mouthbreathing, open-lips posture, low tongue position and incorrect swallowing pattern and be able to provide effective, timely measures to prevent and intercept these problems.

**CP1-4 Clinical treatment for premature loss of multiple primary teeth. Are space maintainers necessary?**

AIDA CAROLINA MEDINA (Venezuela)

Premature loss of primary teeth continues to be the reality affecting many children in the 21st Century. Consequences on the developing dentition and growing facial skeleton have been widely discussed in the literature. Not all points of view concur, some authors state that deleterious effects are minimal and advise against the use of space maintainers for some cases. Other authors describe variations in arch dimensions, drifting of adjacent and antagonizing teeth, loss of vertical height, aesthetic and functional problems. Despite the lack of solid statistical proof in favour or against the use of space maintainers, most publications on this topic recommend their use, describing removable and fixed appliances. The practitioner must consider many factors in order to design an individualized treatment plan that may prove successful in preventing and intercepting malocclusion that may derive from premature loss. The goal is to promote proper occlusal development, reducing the need for orthodontic treatment. The determining factors that must be taken into account when deciding if and which treatment is appropriate include: patient’s ability to comply with treatment, caries risk, attainment of proper dental hygiene measures, presence of oral habits and functional aspects as well as facial and skeletal morphology, underlying skeletal relations, tooth/arch discrepancy, malocclusion, dental development and eruption, and socio-economic aspects. Clinical management of cases with multiple loss of primary teeth are presented in this lecture, emphasizing on how they may benefit from proper individualized preventive and interceptive orthodontic measures that include removable and/or fixed appliances.

**CP1-5 Implants for the Adolescents – possibilities and limitation**

NORAINI YUNUS (Malaysia)

**Introduction:** Implants are the newest trend in prosthetic replacement of missing teeth. Young children are not suitable for dental implants because the bone is still developing. This paper will present case reports of 5 young adolescents provided with dental implants. **Case reports:** These cases were referred to the Paediatric Dental Clinic for management either following trauma, oral pathology or affliction with specific syndrome. The first was a 16-year-old boy diagnosed with hypohidrotic ectodermal dysplasia, born anodontia of both dentitions. His knife-edge lower ridge was augmented prior to placement of implants to support an overdenture. Similar procedure was performed for a younger brother. The third case was a 16-year-old girl who sustained a dento-alveolar fracture and injuries to the teeth in a motor vehicle accident. An implant was placed in the socket of an avulsed incisor after complete healing of the bone. The fourth, a 14-year-old girl received an implant during intermaxillary fixation of fractured mandible due to trauma. The fifth patient, a 16-year-old girl, had an implant 3 years after enucleation of ameloblastoma. All the patients were seen on a regular basis to monitor their situation. **Comments:** Dental implant placements are elective treatment procedures that can be postponed until a patient is fit to receive them. However, the psychological effects of growing up with missing teeth can have a profound effect. It has been shown however, the best years for implants to be installed are 15 years of age for girls and 17 for boys. It is recommended to wait for the completion of dental and skeletal growth, except for severe cases of ectodermal dysplasia.
**PL 3  Sedation and Special Needs patients: Rolling the dice**

**LEDA MUGAYAR (USA)**

Many people when presenting a disability or a medical condition have difficulty in accessing oral health services, and, consequently, achieving good oral health. The number of people with special needs living in the community and demanding oral health care has been increasing significantly because of the improvement in medical care, decreased need for institutional care, and changes in the societal values.

Many of these individuals require additional assistance extending beyond local anesthesia in order to receive dental treatment. The purpose of this discussion is to concentrate on the decision-making process for choosing a method of treatment or a combination of methods to facilitate dental treatment for these individuals.

These considerations are envisioned to assist oral health professionals and other interested parties in planning and implementing oral health care for patients with special needs. Considerations for planning treatment and for alternative treatment modalities will be discussed, as well as the implications for combinations, regarding the repeated or frequent, use of these modalities.

Finally, the central aspect of this discussion will be our pursuit of the advocacy for adequate education and early intervention and prevention for patients with special needs.

**PL 4  Sedation of the Pediatric Dental Patient: A Broad View of the Current Horizon**

**STEPHEN WILSON (USA)**

This plenary session presentation will offer an overview of the current state of sedation of children for dental procedures primarily in the United States. The issues addressed will be the reasons and need for pharmacological management of children including child development and fear and their relationship to coping with dental procedures; practitioner training and experience with sedation, decisions for parents and practitioners including knowledge of different levels of sedation and informed consent; choices of popular sedatives, sedative combinations, and routes of administration; and procedures designed to assist with patient safety; and monitoring during sedation according to sedation guidelines.

**PL 5  Paediatric Sedation Outside of the Operating Room: Challenges, barriers and international trends**

**KEIRA MASON (USA)**

As the demand for sedation services have increased, the delivery of sedation has shifted from the operating room setting to areas distant to the operating room, both within and outside the hospital setting. Sedation delivery is no longer monopolized by any one specialty. As the field of sedation burgeons and multi-specialists enter the realm of meeting
the demands, so also have the politics increased. Unfortunately, the choice of sedative agents has not increased in parallel with the demand for sedation. The safe, efficient and predictable delivery of sedation remains at the forefront of discussion and review worldwide.

**Guidelines, Recommendations, Policies and Politics for Sedation Delivery**

In the United States, the government and the individual specialty societies have asserted themselves with respect to the delivery of sedation. Recently, in the United States, The Joint Commission (TJC) asserted that the Department of Anesthesiology is not required to have direct, responsible oversight of sedation services, privileging, or quality assurance but rather could play an advisory role. Some dental state medical boards have intervened and superseded the Joint Commission by elaborating on the qualifications necessary to provide sedation. For example, in Nevada the Board of Dental Examiners has determined that in order to provide conscious sedation or deep sedation, the service must be delivered in a facility approved by the Joint Commission and must have a conscious sedation or general anesthesia permit respectively.

The training, credentialing and maintenance of sedation skills have become of recognized importance amongst all societies. Some societies have become progressive in their efforts to address the needs of their members by publishing consensus statements and guidelines to unify and standardize the training. The American College of Emergency Physicians, American Society of Anesthesiologists, American Dental Association, American Academy of Pediatrics and American Academy of Pediatric Dentistry have within the past few years published their own guidelines for sedation training, delivery and credentialing of their members.

**Sedatives and Analgesics: The Past Decade in Review and Sedatives in Development**

Although there has been a paucity of new drugs introduced for procedural sedation, there have been interesting additions in the formulary for sedation. Analogs of approved drugs are in the pipeline, new formulations and medications are now available, and a combination of approved agents is being used clinically.

**The Future of Dental Sedation**

Large prospective studies and retrospective review of sedation performed within the last decade, are important methods to evaluate and improve sedation practice. It is critical to standardize the definition of sedation-related adverse events between all specialties globally in order to collect data using the same terminology. The Quebec Guidelines initiated this concept of employing standardized definitions in the emergency department and was landmark in that it introduced the concept of not only documenting the event but also the “intervention” employed to remedy the event. These guidelines were the foundation for the Adverse Event Sedation Reporting Tool of the International Sedation Task Force of the World Society of Intravenous Anesthesia. Published in 2012, this Tool represented the consensus of sedation experts worldwide from multi-specialties. The definitions of adverse events were standardized along with an agreement of descriptors of the “interventions”. This open-access, free of charge website (www.AESedationReporting.com), represents a repository for individual providers and groups to both save and contribute their sedation data. This Reporting Tool is a global outreach for all sedation providers to contribute sedation outcomes as a unified effort to determine predictors, outcomes and a means to improve sedation delivery.

An examination and appraisal of outcomes should focus on publications of the past and future decade as advances in physiological monitoring utilization and an increased awareness of the importance of training, credentialing and simulation have likely affected sedation outcomes. Pulse oximetry is now a mandatory monitor worldwide for any delivery of moderate sedation and deeper. Capnography is recommended by many specialty societies for moderate and deep sedation. Adherence to guidelines and consistent application of, at a minimum, pulse oximetry with the preferable addition of capnography, for all sedations needs to be a priority as it is not currently being universally practiced, and is exposing patients to undue risks. More importantly, a heightened commitment both to standardizing the definition of adverse events and to collecting and sharing outcomes will enable dental sedation providers worldwide to someday
make more conclusive recommendations and decisions regarding sedation practice and delivery.

Key Messages:
1. The demands for sedation delivery in areas separate from the operating room have increased over the past decade.
2. Sedation delivery has become a multi-specialty practice.
3. To date, there is no conclusive data to support a difference in adverse outcome when sedation is delivered by well-trained non-anesthesiologists from highly organized sedation programs versus anesthesiologists.
4. New sedative agents are in evolution which may improve the efficacy, quality and outcomes of sedation.
5. Standardized metrics of outcome are necessary to evaluate and improve sedation practice.

References:
16. Deitch K, Miner J, Chudnofsky CR, Dominici P, Latta D. Does end tidal CO2 monitoring during emergency department procedural sedation and analgesia with propofol decrease the incidence of hypoxic events? A randomized, controlled...
A thorough clinical examination can lead to the conclusion a radiological investigation is needed. Whatever the choice of radiographic examination is, three basic rules should always be obeyed.

**A. Justification Principle**
The very basic principle of radiation protection states that the use of ionizing radiation is only accepted if there are no other means to obtain the necessary diagnostic information. If recent radiographs are available and there are no reasons to suspect or expect any changes, no new radiographs should be taken. This principle also means that if you are unsure a patient is able to understand or to cope with the procedure, you shall not proceed to exposing the patient to ionizing radiation. Radiographs should also never be used to screen patients on a routine basis or to fish for information.

**B. Limitation Principle**
This principle states that at all times, the radiation dose to the patient should be kept as low as reasonably achievable. This is the ALARA principle. This also implies both the number of radiographs and the type of technique being used. Remember that non-ionizing radiation techniques, such as MRI or ultrasound imaging, should never be forgotten.

**C. Optimization Principle**
This principle states that with both previous principles in mind, one should always try to get the best diagnostic images possible. This may be limited because of the local infrastructure or because of the limited knowledge of the clinician, but it can also mean a substantial radiation burden to the patient if that is really necessary. However, if two techniques have the same diagnostic yield, the technique which results in less radiation for the patient should be preferred.

There is often confusion about radiation doses. Absorbed radiation dose, effective and equivalent dose are often used without really understanding the what they really mean.

**a. Absorbed dose**
The absorbed radiation dose is the measure of the amount of energy absorbed from the radiation beam per unit mass of tissue. The unit is Gray. It used to be measured in RAD (which stands for radiation absorbed dose) and 1 Gray equals...
b. Equivalent dose
The equivalent dose is a measure which allows the different radiobiological effectiveness of different types of radiation to be taken into account. A radiation weighting factor represents the biological effects of each type of radiation. For X-rays this weighting factor equals “one”, while for alpha particles it equals “20”. The unit of equivalent dose is the Sievert. For dentistry often milli- or microSieverts are used to express equivalent doses. The old unit was the REM (which stands for röntgen equivalent man) and 100 REM equals 1 Sievert. As the radiation weighting factor for X-rays is “one”, the absorbed radiation dose and the equivalent dose are equal. Hence the confusion in literature between Grays and Sieverts.

c. Effective dose
The effective dose allows doses from different investigations of different parts of the body to be compared. The effective dose for X-rays equals the equivalent dose and therefore is expressed in the unit Sievert as well. The doses are converted into an equivalent whole body dose. This is necessary to distinguish the sensitivity of several tissues to ionizing radiation. Therefore a tissue weighting factor has been introduced for radiosensitive organs and tissues. The sum of all tissue weighting factors equals “one”, the tissue weighting factor for the whole body. These factors have been put forward by the International Commission on Radiological Protection, the ICRP. The use of ionizing radiation holds some biological risks, which are either dose-threshold related or either estimated risks, extrapolated from higher energy exposures.

a. Deterministic effects
High energy ionizing radiation can cause damage to the tissues, such as reddening and cataract formation. The severity of these effects depends on the radiation dose and as such a certain threshold dose exists which must be exceeded in order to have the effect. It is clear that this is never the case in dental radiography, as the energies used for dental exposures are far below these dosages. Accidents like in Chernobyl, Fukushima and events like Nagasaki and Hiroshima have provided the necessary information regarding these threshold doses.

b. Stochastic effects
Low energy ionizing radiation, such as the ones used in dentistry, is a little bit more unpredictable, as there is no such threshold dose that has to be exceeded to get an effect, like leukaemia or a tumor developing. The development of so called stochastic effects is based on probability or the laws of chance, therefore we should always take our precautions when exposing patients to ionizing radiation. There is no safe dose below which no effects will happen, so every exposure carries a potential stochastic effect. The severity of the effect is not related to the radiation dose either.

As is clear from the above, ionizing radiation holds some risks. Dental radiography exposures use low energy X-rays and as such stochastic effects are always possible. Therefore providing appropriate lead shielding and collimation of the X-ray beam, to ensure the primary beam is only aimed at the region of interest and equals the size of the receptor, is of paramount importance, especially in children whose tissues are even more vulnerable to ionizing radiation.

CP2-2 Aggressive periodontitis among the young – detection of Aggregatibacter actinomycetemcomitans, when and how?
DORTE HAUBEK (Denmark)

A large number of bacterial species (>700) has been found in subgingival plaque samples and from other sites of the oral cavity. The majority of these bacterial species can be detected from plaque samples from both healthy and
periodontally diseased individuals. Some of the species are, however, detected in higher proportions in plaque samples from diseased individuals and in addition have the capacity to express unique virulence factors associated with pathogenic mechanisms. One of such oral microorganisms is *Aggregatibacter actinomycetemcomitans* (Aa) which is often found in high proportions in plaque samples from subjects with periodontitis, specifically in its localized aggressive form (LAP). Aa is genetically heterogeneous and comprises distinct clonal lineages that may have different virulence potential. This bacterial species also possesses a number of important virulence factors, among these leukotoxin that specifically activates and lysed human leukocytes. A specific clone (JP2) of Aa has a significantly enhanced expression of the leukotoxin and is strongly associated with LAP, particularly in adolescents of African descent. However, the JP2 clone of Aa can be found geographically widespread, most likely due to human migration. Seven serotypes have been identified among Aa isolates; serotypes clustering in distinct clonal lineages. The JP2 clone of Aa belongs to the cluster of serotype b strains. Differences in the serotype distribution in a number of studies have been related to geography and/or ethnic group. Aa isolates from individuals in European countries are usually represented by almost equal proportions of a, b and c. In contrast, several studies have shown a clear predominance of serotype c in populations living in Asia. It has been suggested that serotype b of Aa has a higher pathogenic potential than the other serotypes. Presence of the JP2 clone of Aa in subgingival plaque has been strongly associated with initiation of periodontal attachment loss in adolescents in North-West African countries. The JP2 clone can, however, be found geographically widespread, although it is still highly associated with individuals of African descent. Due to the high leukotoxicity of the JP2 clone, there is an increased focus on the methodology and implication of microbiological diagnostics in periodontitis patients, particularly among the young. These aspects of the clinical practice will be elucidated in this presentation.

**CP2-3**  
**Distribution and significance of MIH opacities in other than permanent 1st Molar/Incisor teeth**

NIKOS KOTSANOS (Greece)

Aetiology and pathogenesis of MIH is under investigation with inconclusive findings puzzling researchers. The study of enamel opacities and breakdown occurring on teeth other than permanent 1st molars and incisors may add some insight.

Relevant studies are few but increasing lately. Regarding primary teeth, 2nd molars seem to have from 1/3 of to nearly equal prevalence with typical MIH. Regarding the permanent teeth, the prevalence of demarcated opacities in all teeth other than 1st molars and incisors added together results in a similar or even higher prevalence than in typical MIH, on a child basis. Such findings raise questions on the correctness of the term ‘MIH’.

There is limited data on the topography of opacities. It is simply an observation that the cervical area is uninvolved and, very frequently, so are cusp tips and incisal edges. These warrant epidemiological verification and may have implications on pathogenesis as well as on restoration procedures.

Mineralization chronology of all teeth involved has to be considered. There is an overlapping of almost a year between primary 2nd and permanent 1st molars, perhaps slightly longer for the upper ones, and of 1 to 2 years between permanent 1st and 2nd molars. Causative factors may therefore spread to the mineralization times of various teeth, but it would require a longitudinal study to examine if this spread is so long as to include both primary and permanent 2nd molars in some children. Studying such parameters further may help understanding the pathogenetic mechanisms of MIH.

**CP2-4**  
**The effect of hereditary syndrome on tooth components and the importance of choosing the right restorative material**
URI ZILBERMAN (Israel)

**Background:** Hereditary disorders like Down syndrome (DS), Cerebral Palsy (CP) and Familial Dysautonomia (FD) affects tooth size, enamel apposition and the mineralization of enamel and dentin. Reduced mineral content of enamel and dentin with higher protein have a negative effect on bonding quality and may result in earlier failures of composite restorations. The effect of etching on DS primary teeth was 3 times higher than that in controls. In order to overcome the risk of failures of resin based materials, a more biocompatible material, not affected by the reduced mineralization of enamel or dentin should be consider.

**Aim:** To evaluate the use of glass-ionomer cements (Fuji 9 from GC) as the restorative material for patients with hereditary disorders.

**Results:** Glass-ionomer cement (GIC-Fuji 9) showed very good results as the restorative material for primary and permanent teeth in DS, CP or FD children.

**Conclusions:** Glass-ionomer has two very important qualities- it adheres chemically with minerals from enamel and dentin, and it etches ions with the tooth components and the surroundings. The restorations with GIC showed very good results and the acceptance of both the children and parents for the treatment was excellent. Follow-up of 10-12 years on GIC restorations on permanent molars showed that GIC can be used as permanent restorative material in both primary and permanent dentition.

CP2-5 Wound or Scar?

**Non- invasive or minimal invasive treatment of ECC**

JUSTIN J.C. LEE (Korea)

Minimal Invasive Dentistry (MID) is now mainstream all over practical dentistry. Dental caries must be also managed by changing the ecology of each patient not only by restorative treatment. Especially surgical approach to manage caries in young children is big challenge because of behavioral problems. Seoul Children’s Dental Center developed risk assessment tool for young children and applied to practice for about 10 years. In this presentation, the clinical cases managed by medical approach followed up for years will be shown and discussed the cons and pros.

<table>
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<tr>
<th>Session</th>
<th>Lectures 6: Dental Materials II</th>
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<tbody>
<tr>
<td>Date &amp; Time</td>
<td>June 14 (Fri), 11:30~12:30</td>
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<td>Place</td>
<td>GBR 101+102 (1F)</td>
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**L6-1 (NuSmile) Esthetic full coverage of grossly decayed primary teeth**

WILLIAM WAGGONER (USA)

For over half a century grossly decayed primary teeth have usually been restored by either stainless steel crowns (SSCs) in the posterior, or resin-bonded crowns (RBC) or SSCs in the anterior region. While SSCs provide a very durable
restoration, they do not provide the esthetics that many parents desire. Resin bonded (strip) crowns provide excellent esthetics for anterior teeth but are quite technique sensitive, and can develop discoloration, debonding and fracture. Two esthetic alternatives to these traditional crowns are pre-veneered crowns and Zirconia ceramic crowns. Pre-veneered crowns have a SSC substructure with an esthetic resin facing bonded to the facial surface of anterior crowns and to the occlusal and buccal surfaces of posterior crowns. Zirconia crowns for primary teeth, were introduced within the past 3 years and provide a very esthetic, durable, tooth colored crown which can be used in most situations where a SSC would be utilized. This presentation will review some of the research associated with these crowns, the limitations, indications, contraindications, and techniques for placement of both preveneered and zirconia crowns. The material presented will focus primarily, though not exclusively, on two of the more popular crowns, the NuSmile Signature pre-veneered crown and the NuSmile ZR ceramic crown.

L6-2 (3M ESPE) The effective use of modern remineralisation therapies in the practice of Paediatric Dentistry
MONTY DUGGAL (UK)

Dentists are constantly bombarded with materials and protocols aimed at the prevention and management of dental caries in children. The challenge for the clinician lies in trying to decipher what is evidence based and what is just more of the same. There has been lot of emphasis on minimal intervention over the last few years. Is minimal intervention a new concept? Or is this something many dentists have been practicing, but perhaps not under this name! The backbone of minimal intervention is various agents that promote remineralisation of lesions usually by promoting an oral environment that is supersaturated with calcium phosphate. Various other therapies have also been promoted, one such being the use of a combination of Casein Phosphopeptide and Amorphous calcium phosphate amongst other. The speaker will outline various such approaches and try and put forward approaches where such therapies can form a part of a minimal intervention approach that is aimed at caries control and not just promote supervised neglect of dental caries in children.

L7-1 Hard and soft tissue applications, a review
LUC MARTENS (Belgium)

Modern dentistry is based on minimally invasive concepts. Thanks to current refined caries diagnosis and adhesive dentistry that more attention is paid to micropreparations. Laser technology was also developed for dental purposes, and nowadays several oral applications are available for a variety of indications.
A review will be given on laser applications in children including: caries diagnosis, caries prevention, cavity preparation, pit-and fissuresealing, patient comfort, vitality testing, endodontics and soft tissue surgery.
The lecture will be illustrated by some clinical applications aswell in soft as hard tissues using respectively KTP and Er:YAG wavelengths
In modern caries management an early start of caries risk assesment is necessary. Consequently microdentistry can be applied at a very young age. In this respect it is possible that a new generation of patients will grow up having
L7-2  Hard and soft tissue applications in every daily practice

GIOVANNI OLIVI (Italy)

Laser technology offers the possibility of wide applications in Pediatric Dentistry given its good acceptance by the children in comparison to traditional rotative instruments, due to its minimally invasive approach, including the absence of contact, vibrations, noise and less use of local anesthesia and for all the clinical advantages derived from its use; high decontamination level, pulp coagulation and vaporization, soft tissue incision, vaporization and coagulation.

The lecture offers a revision of the hard and soft tissues therapy in pediatric dentistry, showing also some clinical procedures: laser applications for soft tissues in Pediatric Dentistry include applications in oral surgery as well as in periodontics and orthodontics. Laser applications on hard tissues include caries prevention and detection and application for sealing of pits and fissures; also applications for cavity preparation, carious removal and pulp therapy are discussed.

The lasers can be integrated with conventional therapies, influencing and improving the positive acceptance of dental therapy.

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<tr>
<th>Session</th>
<th>Lectures 8: Pulp</th>
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<tr>
<td>Date &amp; Time</td>
<td>June 14 (Fri), 14:00~15:30</td>
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L8-1  New visions for pulp treatment of primary teeth

HELEN RODD (UK)

Management of primary molars with deep caries remains a significant clinical problem. Considerable variation exists worldwide in favoured pulp treatments, with differences also seen between non-specialist and specialist paediatric dentistry practice. In recent years there has been a shift towards more biocompatible and regenerative regimens for vital teeth, notably indirect pulp therapies and use of materials such as mineral trioxide aggregate. Basic science research lends further support for these regenerative approaches, evidenced by the healing potential of the compromised dentine-pulp complex. Strategies for non-vital primary teeth rely on mechanical and chemical disinfection and use of a variety of non-setting intra-canal medicaments.

A cursory review of the literature suggests good clinical outcomes for a number of different pulp therapies. However, caution should be exercised in the interpretation of some of these data. Clinicians must be confident that studies have been conducted and analysed using robust and established methodology. Common flaws in study design relate to: inadequate sample size; incorrect randomisation of interventions; lack of investigator calibration and training; inadequate follow up periods; inappropriate statistical analyses and poorly defined criteria for success/failure. Thus, despite a recent increase in pulp therapy-related publications, the evidence-base for any one particular approach remains questionable.

This presentation will provide an overview of current international practices relating to pulp treatments for primary
teeth. The evidence-base for different regimens will be considered, including clinical and patient-reported outcome measures of success. The clinical relevance of findings from recent laboratory studies relating to the primary tooth pulp will also be highlighted.

**L8-2  New visions for pulp treatment of immature permanent teeth**

LING H. CHUEH (Taiwan)

Treatment of an immature open-apex permanent tooth with pulp necrosis and apical pathosis is a big challenge for dentists. Since the pulp tissue in an immature open-apex tooth has a rich blood supply and contains abundant stem cells, it possesses a great potential to heal in response to damage and subsequent proper treatment. Therefore, it is the consensus that diseased open-apex teeth should be treated conservatively to allow the residual vital pulp and apical tissues to grow and in turn to complete the apical root formation. Clinical evidence shows that some necrotic immature permanent teeth can achieve continued root development after proper endodontic treatment. Care is needed to deliver these specific endodontic procedures intended to maintain or restore the vitality of teeth. Key procedures involve removal of necrotic pulp tissues, disinfection of the root canal, and prevention of coronal leakage. Inducing bleeding to form a blood clot inside canal maybe optional. Additional application of other biological substances such as platelet rich plasma still requires more research data to determine its efficacy. Diagnosis, case selection, treatment plan, clinical procedures, complications, and adverse effects will be discussed in this presentation. The outcome of this regenerative or repair procedure with its possible biologic background and current application to traumatized immature teeth will also be included in the discussion.

**L8-3  New visions for pulp treatment of permanent teeth**

HYUN-JUNG KO (Korea)

Thorough cleaning and adequate shaping of root canal systems are always the important factors that could decide the prognosis of root canal treatment. The introduction of rotary nickel-titanium (Ni-Ti) endodontic files into daily endodontic practice has improved the efficacy of root canal cleaning and shaping in many aspects, such as saving chair time, maintenance of canal curvature, less post-treatment discomfort in consequence of less debris extrusion through apical foramen, increased cutting efficiency and so on. However, the concerns about the safety of rotary Ni-Ti endodontic files have been arising because of the instrument separations (fracture of the Ni-Ti files) that happen not infrequently.

Recently, to improve the fracture resistance of rotary Ni-Ti files, manufacturers introduced a new preparation technique, that is using reciprocating motion. The use of reciprocating motion was shown to extend the lifespan of a Ni-Ti instrument, hence resistance to fatigue, in comparison with continuous rotation. This reciprocating movement is believed to ultimately increase the lifespan of the instrument, therefore, can improve the safety of Ni-Ti instruments.

In this presentation, the advantages and disadvantages of the newly designed file systems using reciprocating movement will be overviewed and several other newly developed file systems will be introduced as well.
S1-1  Why is “early caries detection” important in clinical dentistry?

IVAR ESPELID (Norway)

Caries may be arrested before operative treatment is needed. Basic principles which are used in caries prevention may also be used in treatment of incipient caries lesions. One prerequisite for success with non-operative therapy is early caries diagnosis. Early caries diagnosis should also include judgment of the activity of the lesion. In accordance with the statement of Wulff (1976) “It should be remembered that the diagnosis is not an end in itself; it is only a mental resting place for prognostic consideration and therapeutic decisions”, some thoughts about future and treatment should also be part of the diagnostic process.

While we are detecting the early signs or symptoms of the caries disease in different tooth surfaces, it is the individual as a whole who are diseased with caries. Any sign of caries activity in one surface in one quadrant should make us suspicious about caries developing in similar surfaces in other quadrants even if no lesion is detectable yet. In addition to treat the single incipient lesions, we have to stimulate the individual to reduce the caries risk. That might cure the disease. In addition to the measures directed towards incipient lesions, we need a theoretical model for treatment of caries with an individualized, holistic approach. When it comes to the diagnosis for each tooth surface, it is important to have some idea about the sensitivity and specificity values for the caries diagnostic methods used. Regarding overtreatment, the costs are low when it comes to non-operative methods.

S1-2  Proximal caries detection without x-rays? – First clinical results with the DIAGNOcam device

JAN KÜHNISCH (Germany)

In recent decades epidemiological studies have shown a general drop in the caries prevalence together with a concentration of caries lesions on occlusal and proximal sites in the permanent dentition in industrialized nations. While progression of caries lesions generally appears to slow down with increasing age, the paediatric dentist will diagnose (non-)cavitated caries lesions in children and young adults frequently. Therefore, early detection, correct diagnosis and monitoring of those lesions are key targets to move away from operative towards non-operative preventive dentistry. Reflecting basic requirements for additional caries detection and diagnostic methods, e.g. easy clinical handling, digital image acquisition, excellent validity and good reproducibility, the near-infrared method (DIAGNOCam, KaVo, Biberach) full-fill potentially several of these requirements. The main advantage of this method has to be seen in the possibility to capture diagnostic images with near-infrared light (~780nm) instead of ionising radiation.

Beside the presentation of several clinical cases to illustrate the potential of this caries detection method the main purpose will be to present first clinical results from our validation study which aimed to determine the ability to detect proximal dentine caries lesions. In this investigation 128 proximal, visually non-cavitated carious lesions were selected according to the following criteria: 1) the corresponding bitewing radiograph (BW) showed a proximal D3-4 caries, and/or 2) the NIR image was associated with a dentine caries. The clinical validation included the caries assessment at the enamel-dentine junction (EDJ) and the excavation with a self-limiting polymer bur (PolyBur, Komet, Lemgo, Germany). The caries extension (reference standard) was determined by 1) producing a stone model of the cavity, 2) taking a BW of this model, 3) overlaying the clinical BW and the BW of the model, and 4) measuring the caries extension between the
EDJ and the pulp. Statistical analyses included cross-tabulations and calculations of sensitivity (SE), specificity (SP) and the area under the ROC curve (Az value). The SE and SP for BW amounted to 96.1% and 0.0%, respectively. In 86 cases a dentine caries lesion was directly detected on NIR images due to a less translucent enamel and dentine. 42 cases were associated with a demineralised EDJ on the NIR image only. This finding might be used as indirect indicator for the presence of a proximal dentine lesion. For the direct approach the SE and SP amounted to 67.2% and 0.0%. Using an involved EDJ as indirect predictor for proximal dentine caries detection all cases showed a caries extension into dentine (SE 100.0%, SP 0.0%). The corresponding Az values for proximal dentine caries detection were 0.82 (digital radiography), 0.51 (direct dentin caries detection with DIAGNOCam) and 1.0 (indirect dentin caries detection with DIAGNOCam).

It can be concluded that this new photo-optical diagnostic device showed a good validity for proximal dentine caries detection. Using the indirect diagnostic approach a perfect agreement between the NIR image and the validated caries extension was found. The DIAGNOCam method could help to reduce the need of bitewing radiographs.

Legend for figures: Compared to clinical examination, which provides only limited information regarding the presence of a proximal carious lesion, the near-infrared transillumination revealed a dentinal lesion when the indirect diagnostic approach - demineralised enamel and involved EDJ - was applied.

S1-3 Q-ray: New technology of optical plaque and white spot detection

BAEK-IL KIM (Korea)

The leading paradigm of dentistry was focused on the rehabilitation treatment which identified active caries, and managed them surgically to restore their original functions. However, changes in the external environment such as disease prevalence have led the field of dentistry to have a paradigm shift. The new paradigm suggests the detection of caries in their earlier stages rather than in their advanced stages, and the reversal of the incipient caries by non-surgical approach. For this to be achieved, a high-technology detection device that recognizes the changes in the earlier stages, which cannot be visually observed, is needed. Development of early caries detection device has recently become a major issue in preventive dentistry on account of this need, and QLF (Quantitative Light induced Fluorescence) conspicuously stands out among the newly released devices. The traditional QLF system can detect and quantify the amount of mineral loss by measurement of fluorescence loss compared to sound area. Recently, new QLF-D, designed in a form of digital camera, has been launched. The main mechanism of the new QLF-D is to detect the red fluorescence from bacterial metabolites called porphyrin. This enables the QLF-D to detect not only changes in mineral contents but also in caries-associated plaque. In this presentation, the fundamental concept, and the possible clinical applications as well as the recent researches about QLF-D will be explained.
T1 Comprehensive Pediatric Dentistry (mission, practice philosophy, goals and challenges)
YASMI CRYSTAL (USA)

I will make special mention to the challenges of providing this kind of approach in a system where reimbursement is procedure-based rather than based on outcomes of health. I will also mention the economical challenges of accepting all kinds of third party reimbursement methods in order to provide access to children with the highest needs, and how I use teamwork as a solution.

T2 Maintaining a smiling healthy family
RUTE EFÍGENIO GOMES (Portugal)

In this presentation you will see how we motivated all family members to great general and oral health. Our staff is a group of friends with different clinical specialties: paediatric dentist, orthodontics, paediatrician, general practitioner, nutritionist, speech therapy, orthotics, psychologists, obstetrician-gynaecologist, etc. We start very early with prevention education and the promotion of good health habits in our patients because we begin during pregnancy and then follow through the families development.

Our concept is not just that of a normal paediatric dental clinic, but of a family clinic where we involve the child, their brothers/sisters, parents, grandparents and caregivers so that the appointments can be as simple as possible with a final goal: maintaining a smiling healthy family.

T3 Heart to heart approach to pediatric dental patient & parents
SEUNG JUNE JEON (Korea)

Very many children have suffered from dental problem and dental fear. So their parents often to hesitate to go to the dental clinic just in time. If we try to meet them and do the treatment as same as normal patient, maybe we have to fail to care them. I was told by many of colleagues at other hospitals about our dental treatment procedure is quite different from others. I am often trying to adopt a wait & see approach rather than beginning treatment right away when problem seems minor and etc... So I want to share about heart to heart approach to dental patient and parents as my own methods.

T4 Comprehensive dental and surgical management of children under GA – a private practice perspective
KAREEN MEKERTICHIAN (Australia)

The aim of all practitioners involved in the provision of oral care for children, should primarily be based on prevention, education and counselling. However, a small yet increasing number of children will present to our practices in need of
extensive, comprehensive and often invasive treatment. This presentation will overview the GA cases presenting to a referral-based specialist private practice in Sydney, Australia, over a twelve month period –outlining the protocols, strategies, treatment requirements and specific details of the patient mix. The presentation will highlight the heavy burden of disease presenting in a select group of high risk patients and its biological and financial cost impacts on quality of life measures across our community.

T5  Treatment Alliance & hypnosis in Paediatric Dentistry

JAN RIENHOFF (Germany)

I have started to work on my Seoul presentation. It is nothing but a rough draft so far, but without any photographs and design, it will not cause any problems in sending and receiving... Of my 10 slides, I have used 6 for a brief introduction of the situation of Paediatric Dentistry in Germany and why our practice was designed and structured the way it is- I will go through that as fast as I can. The most important slides (and the ones I am planning to spend most time with) will be 7 to 9, in which I want to talk about the idea of a “Treatment Alliance” and about “hypnosis” in Paediatric Dentistry. I would like to end my presentation with a short video excerpt of a cute hypnosis treatment of a 4 year-old girl.

T6  Providing a painless treatment (with a positive attitude & a good team work)

YUKE RUSTAN (Indonesia)

My main strategy in our private practice is having a positive attitude and a good team work with parents and also with our dental nurses. Explanation with parents and the patients will build a strong relationship. This also called as a triad pedodontics. Using a supplemental words to create a friendly situation will make kids and parents more comfortable. Providing a painless treatment in the first visit to dentist will make the patients more confidence and the parents becoming more comfortable for the next treatment.

T7  About how to build up a successful paediatric dentistry practice

JINOUS TAHMASSEBI (UK)

I would like to talk about how to build up a successful paediatric dentistry practice and to speak about using different behaviour management techniques and use of inhalation sedation in particular for treatment of more anxious children. I firmly believe in providing prevention message at every visit and to emphasize the prevention message by written advice to the parents.

T8  Using Motivational Interviewing and CAMBRA to Promote Health in Our Patients

BEN TAYLOR (USA)

Motivational Interviewing is a non-judgmental, non-confrontational counseling approach that attempts to engage intrinsic motivation in a client to facilitate change in behavior. Caries Management by Risk Assessment, CAMBRA, is a uniform method of managing decay based on caries risk. In this presentation the use of Motivational Interviewing as part of caries risk assessment can help determine the future risk of caries and therefore can allow more conservative treatment by CAMBRA standards.
A modified dental disease risk form with motivational interviewing included will be presented as well as discussion of how dental assistants in my office currently use the form.

**T9 - Prevention-oriented behavior management**

ANTHONY TSAI (Taiwan)

Behavior management is one of the most important issues in pediatric dentistry. Being a pediatric dentist, many children are referred to my clinic due to behavior problems. Parents, however, are often surprised of the cooperation of their children in my clinic. From years of supervising trainees in pediatric dentistry, I noticed that most of the behavior problems in dental practice are preventable. Clinical cases and videos will be used to demonstrate common errors which resulted in unnecessary behavior management.

**T10 - Perfecting communicative skills when restrain medication are not an option**

ANNA VIÉROU (Greece)

I believe by now that if you find the right way to communicate with children the collaborate fantastically. I have no crying and no restraining just patience and communication and I think it is interesting to share this with you. As I understand many of us will talk about behavior management but I think each approach has a different element to add to the most important issue of our practice. I am sure that we will make a great group treasured by the audience!

<table>
<thead>
<tr>
<th>Session</th>
<th>Symposium 2: Dental Erosions in Children</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date &amp; Time</td>
<td>June 14 (Fri), 16:00~17:45</td>
</tr>
<tr>
<td>Place</td>
<td>GBR 103 (1F)</td>
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</table>

**S2-1,3  Diagnosis, Epidemiology and Risk factors / Prevention**

ADRIAN LUSSI (Switzerland)

Erosive tooth wear is becoming increasingly important when considering the long-term health of the dentition. There is some evidence that the presence of this condition is growing steadily. It is important that diagnosis of the tooth wear process is made early. Clinical detection of dental erosion is important once dissolution has started. The clinical appearance is the most important sign for dental professionals to diagnose erosion. This is of particular importance in the early stages of erosive tooth wear. Adequate preventive measures can only be initiated when the risk factors are known and interactions between them are present.

The interplay of etiological factors is crucial and helps explain why some individuals exhibit more erosion than others. The erosive potential of erosive agents like acidic drinks or foodstuffs depends on chemical factors, e.g. pH, titratable acidity, mineral content. Biological factors such as saliva, acquired pellicle, tooth structure and positioning in relation to soft tissues and tongue are related to the pathogenesis of dental erosion. Furthermore, behavioural factors like eating and drinking habits and excessive oral hygiene are predisposing factors for dental erosion. Further, preventive measure should be tailored to individual needs. This points will be covered in this lecture.
S2-2 Medical and Psychological Aspects

YOUL-RI KIM (Korea)

Eating disorders are a group of psychopathological disorders affecting patient attitude to food and her/his own body, which manifests through distorted or chaotic eating behavior. Eating disorders mainly include anorexia nervosa and bulimia nervosa, and may be burdened with life threatening complications particularly in adolescent girls. Eating disorders also show harmful effects on oral health, such as dental erosions caused by ingestion of acid substances and vomits that may also increase the number and speed of caries lesions, and other dental lesions. That is why dentists play an important role in the early identification of eating disorders as well as in the prevention and treatment of dental erosion. Dentist and psychiatrist should be important collaborators about dental problems and preventive strategies to educate their patients with eating disorders. This presentation includes the description and identification of subtypes of eating disorders, and how to psychologically approach to the patients with the disorders.

S2-4 Treatment of dental erosion in children

BERNADETTE DRUMMOND (New Zealand)

The management of dental erosion in the primary and early mixed dentitions can be complex. Even before the causative factors are diagnosed, it may be necessary to provide care to decrease sensitivity, to prevent further damage occurring and to avoid pulp exposure in severe cases. The challenge when managing dental erosion in children is to avoid the children becoming frustrated with dentistry when too many interventions take place.

In the primary dentition, the first aim is to provide a preventive plan including dietary advice and products to lessen the impact of the acids causing the erosion. The second aim should be to restore the teeth to as normal anatomy as possible to protect the pulp and avoid sensitivity or infection, to maintain the height of the occlusion and to maintain arch length for the erupting permanent teeth. This may be difficult to achieve in young children who have no experience of restorative dental care and approaches to achieve this will be discussed.

In the early permanent dentition, consideration must be given to preserving as much of the natural tooth tissue as possible and to protecting the pulp to allow for its ongoing maturation. This presents significant restorative challenges with the currently available dental materials. The lecture will present some of the more recent approaches to sealing dentine, enamel and teeth that may offer hope for improved restorative management in the future and will consider the management of erosion-damaged young permanent teeth until the child and dentition are mature enough to have permanent long-term restorations. Options for advising older children about their food and drink habits will be included.

<table>
<thead>
<tr>
<th>Session</th>
<th>Symposium 3: &quot;Special smiles II&quot; Dental Care Systems for Patients with Special Needs</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date &amp; Time</td>
<td>June 14 (Fri), 16:00~17:30</td>
</tr>
<tr>
<td>Place</td>
<td>GBR 104 (1F)</td>
</tr>
</tbody>
</table>

S3-1 Oral health care system for special children in Sweden

GÖRAN DAHLLÖF (Sweden)
In the Sweden, dental care for children and adolescents is free of charge up to the age of 19 and includes preventive services, all dental treatment and orthodontics. Most children are treated in general dentistry but those with more complex treatment needs are treated in specialized pediatric dentistry clinics. In addition three national referral centers for children and adolescents with rare disorders and specific orofacial problems have been established.

According to documents on priorities and allocation of dental care, two patient groups have priority; cases were the medical safety of the patient is at risk if dental care is not provided and patients with medical, intellectual, emotional, physical and psychological impairments.

The number of children and adolescents with disabilities is increasing. Concurrent with this is an increase among patients with disabilities referred to specialized pediatric dentistry clinics. Oral health status varies in individuals with disabilities and there are large variations between different types of disabilities. Orofacial dysfunctions related to eating, swallowing, speech and communication, chewing, drooling, aesthetics, and malocclusions are of greater importance to the patients and their families.

There are still many gaps of knowledge regarding oral health status in children with disabilities. Most studies have been carried out in selected patient materials, focusing on specific conditions or diagnoses. Problems related to oral hygiene and to gingival and periodontal problems in individuals with disabilities, foremost learning disabilities have been reported, while dental caries rates are the same as or lower than in the rest of the population.

**S3-2 Dental care systems for patients with special needs in Canada**

**CLIVE FRIEDMAN (Canada)**

This presentation will describe current systems of care for persons with special needs in Canada. Since health care in Canada is provincially mandated these systems vary considerably across the provinces. Ontario will be used as an example to describe the mult-layered nature of care and the social structure that supports that care. Given the extent of support for care in Ontario, access to care for persons with special needs remains a constant theme. In order to improve both access and the extent of care undergraduate education is an important element in this process. This presentation will highlight current issues related to this aspect of education. Furthermore, the consensus document for an undergraduate curriculum developed by the iADH education committee will also be presented and used to emphasize the need for a paradigm shift from a medical to a psychosocial model.

**S3-3 Dental care systems for patients with special needs in Japan**

**ICHIJIRO MORISAKI (Japan)**

Dental care for patients with special needs in Japan seems to be provided by unique systems compared with other countries and has several characteristics such as those shown below.

1. Basic medical as well as dental care for all the residents in Japan is covered by one of the nationwide health insurances at the level of 70% to 100% depending on their age, income or disabilities.

2. Primary dental care for those patients is provided by the private dentist, however, most are treated at the municipal dental care centers for the special needs patients. These centers are administered by local dental association and play the important role in the secondary foothold for special needs dental care.

3. Dental hospitals attached to the dental schools (private; 17, public; 1, and national; 11) and some of the other
hospitals with pediatric or special needs dentists are functioning as the tertiary dental care facility providing treatment under general anesthesia.

4. As to behavior management in special needs dentistry, it has been shifting in the past few decades from physical control/restraining to familiarization and pharmacological approaches.

5. Increasing dysphagia research in the field of special care dentistry reflects the importance of oral health care and rehabilitation for persons with this disorder in the elderly and children with severe disabilities.

6. Dental care and treatment system at patient’s home or institution has become popular not only for the bed bound elderly but for those with special needs as well.

<table>
<thead>
<tr>
<th>Session</th>
<th>Lectures 9: Dental Impaction</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date &amp; Time</td>
<td>June 15 (Sat), 08:30~09:30</td>
</tr>
<tr>
<td>Place</td>
<td>GBR 101+102 (1F)</td>
</tr>
</tbody>
</table>

L9-1 Factors related to the position of the impacted maxillary canines

KI-TAEG JANG (Korea)

In pathological terms, impacted teeth can be defined as a state where a tooth remains embedded in the oral mucosa or bone past its normal eruption period. However, the clinical definition of impacted teeth can be broadened to include teeth that are predicted to undergo abnormal eruption, even before its normal eruption period, due to position of tooth germ, tooth shape, direction of eruption, and available space.

The purpose of this presentation is to discuss and evaluate the position and aspects of impacted maxillary canines. In addition, the relationship between the characteristics of impacted maxillary canines and adjacent root resorption was analysed to reveal factors directly involved in root resorption.

Racial difference
In general, it has also been reported that palatal impaction of maxillary canines occurs 3 to 6 times more often than buccal impaction. The recent studies have reported that buccal impaction of maxillary canines occurs 2 to 3 times more often than palatal impactions in Asians of Korean and Chinese descent.

Root resorption
Tooth resorption in the CT images showed a large percentage value of 49.5 per cent. More severe root resorption was apparent when the impacted canine was positioned buccally and when the canine crown overlapped the lateral incisor root by a greater area.

Morphology of maxilla
The shape of maxillary arch was narrower and longer in the The palatally impacted canine group compared to the buccally impacted canine group, and the The palatally impacted canine group had a deeper palatal vault than the buccally impacted canine group.
Morphology of adjacent teeth
Lateral incisor root length and volume of the impacted canine side was found to be smaller compared to the lateral incisor of normal canine eruption side. These results can support the “Guidance theory”, which states that the lateral incisor root plays an important role in canine eruption.

L9-2 Importance of eruption space for upper canines
RYUZO KANOMI (Japan)

At present, most children have narrow dental arches, and impacted upper canines are frequently observed in association with the absence of eruption space. At my clinic, children with space shortage are increasingly observed as a result of narrow dental arch and unharmonized tooth size.

Some cases with severe shortage of eruption space are treated by maxillary expansion and/or serial extraction. However, many cases are not treated under observation; buccally displaced canines would consequently erupt, and this might lead to gingival recession. In other cases, impacted canines cause root resorption or dilaceration of the adjacent teeth, while dentigerous cyst and ankylosis are rare complications.

Unfortunately, impacted canines must be treated using surgical procedures, and this is associated with physical and economic burden for patients. To avoid this, effective alternative approaches are necessary. If an absence of erupting space is identified, it is important to increase the space in order to prevent canines from becoming impacted. At my clinic, arch length discrepancy is examined in early mixed dentition, and patients without sufficient eruption spaces are treated in order to provide space for erupting; the maxillary dental arch is expanded using rapid maxillary expansion, and the upper first molars are distalized in Class II malocclusion cases. To maintain the expanded maxillary arch, the mandibular dental arch is also expanded simultaneously. Unfortunately, such early treatment cannot save all impacted canines, but can reduce the risk of impaction. Thus, pediatric dentists can make important and significant contributions to overall child health.

<table>
<thead>
<tr>
<th>Session</th>
<th>Symposium 4: Dental Stem Cells for Regenerative Dentistry</th>
</tr>
</thead>
<tbody>
<tr>
<td>Date &amp; Time</td>
<td>June 15 (Sat), 08:30~10:00</td>
</tr>
<tr>
<td>Place</td>
<td>GBR 103 (1F)</td>
</tr>
</tbody>
</table>

S4-1 Current opinion in Biotooth
HAN-SUNG JUNG (Korea)

For decades, the understanding of craniofacial development has been a central issue in odontology and developmental biology. Although there is little doubt about the essential roles of homeobox genes, transcription factors, and growth factors, we now know at least the fundamental strategy of craniofacial biology. The tooth as an organ performs a whole range of functions, each of which is truly indispensable for the maintenance of life. The possession of teeth is, therefore, obviously coupled with the complication of the natural structure of an individual organism. In the following, I shall focus on a brief history of stem cell based tooth studies and some suggestions for obtaining a full understanding of teeth in the future.
This information may form the basis of both new treatment and prevention methods, probably affecting specific steps in tooth bud development. The use of BMPs in the stimulation of bone formation is already being tested clinically. There are promising results from animal experiments in which the application of signal molecules has affected specific stages of morphogenesis and in some cases partially rescued development. The study of tooth development is now stepping forward into a new dimension in which all the applicable techniques could be used for producing a Biotooth.

**S4-2  Responses of dental pulp stem/progenitor cells to tooth replantation/transplantation and the effect of a triple antibiotic solution on traumatized teeth**

HAYATO OHSHIMA (Japan)

Recently, we demonstrated that a pulse of BrdU given to prenatal animals reveals the existence of slow-cycling long-term label-retaining cells (LRCs), putative adult stem/progenitor cells, which reside in the dental pulp. This study aims to clarify responses of LRCs to tooth replantation/transplantation and to investigate the effects of a mixture of ciprofloxacin, metronidazole, and minocycline (3Mix) on the survival of dental pulp and periodontal tissues following intentionally delayed tooth transplantation. Tooth replantation/transplantation caused degeneration of the odontoblast layer, resulting in the disappearance of nestin-positive reactions in the dental pulp. On postoperative days 5-7, tertiary dentin formation commenced next to the preexisting dentin where nestin-positive odontoblast-like cells were arranged in the successful cases. In BrdU-labeled transplanted teeth, dense LRCs were maintained in the center of the dental pulp beneath the odontoblast-like cells including LRCs, whereas LRCs disappeared in the area surrounding the bone-like tissue. Tooth transplantation using GFP mice demonstrated that the donor cells constituted the dental pulp of the transplant except for endothelial cells and some migrated cells, and the periodontal tissue was replaced by recipient-derived cells except for epithelial cell rests of Malassez. These results suggest that the maintenance of BrdU label-retaining dental pulp cells play a role in the regeneration of odontoblast-like cells in the process of pulpal healing following tooth replantation/transplantation. Increased apoptosis was observed in the PBS group 1 week after intentionally-delayed tooth replantation, followed by cell proliferation at week 2, and tertiary dentin and/or bone-like tissue formation at week 3. In contrast, nestin-positive, newly differentiated, odontoblast-like cells began to align along the pulp-dentin border following the appearance of Ki-67- and TUNEL-positive cells during weeks 1-2 in the 3Mix groups, suggesting that pulpal healing was accelerated. Thus, the results suggest that the combination of ciprofloxacin, metronidazole, and minocycline triggers stem/progenitor cell-mediated cell differentiation that leads to the pulpal regeneration and accelerates the rate of dentinogenesis following intentionally-delayed tooth replantation.

**S4-3  Dental epithelial differentiation from iPS cells**

SATOSHI FUKUMOTO (Japan)

Tooth morphogenesis is regulated by epithelial-mesenchymal interaction. Ameloblasts differentiated from dental epithelial cells secrete tooth specific enamel matrix protein, such as ameloblastin (Ambn) and enamelin (Enam). Ambn is essential for dental epithelial cells differentiation into ameloblasts and enamel formation. However, the differentiation of ameloblasts has not clearly elucidated and there are few report to induce ameloblasts artificially. Therefore, we tried to induce ameloblasts from iPS cells by culturing with Ambn expressing dental epithelial cell SF2, and identify the factors important for dental epithelium differentiation.

We established dental epithelial cell line SF2 from rat incisor apical region and selected high Ambn expressing cells. We co-cultured mouse iPS cells on SF2 cells and analyzed the differentiated markers of epithelial cell and ameloblast using LNA primers. We found that Ambn positive cells were derived from mouse iPS cells even when cultured on Ambn expressing SF2 cells and cultured with SF2 conditioned medium. These cells expressed the epithelial cell markers p63 and cytokeratin-14 (CK14), and ameloblast markers Ambn and Enam. Further, only when iPS cells was cultured with
conditioned medium from full-length Ambn expressing SF2 cells, expression of Ambn was induced in iPS cells. Addition of K252a (Trk inhibitor), PD98059 (MEK inhibitor), anti-NT-4 antibody, or Noggin into conditioned medium decreased the expression of Ambn in iPS cells, however they didn’t inhibit the expression of CK14 in iPS cells. There are many differentiation factors derived from SF2 cells to induce dental epithelium and ameloblast. Our results suggested that soluble factors from SF2 including growth factors, such as BMPs and nerve growth factor NT-4, and extracellular matrix, such as ameloblastin, are the important key molecules for differentiation of ameloblast from iPS cells.

### Session L10-1: Early treatment of mandibular displacement cases in primary dentition period

**YOUICHI YAMASAKI (Japan)**

An abnormality of the dentition or occlusion in the primary dentition can be caused by early loss of primary teeth due to dental caries or trauma, or by a displaced relationship between the maxillary and mandibular dentitions due to oral habits, such as finger sucking, tongue thrusting and mouth breathing. The fundamental treatment plans of these cases in the early stage should maintain the space of the lost teeth and harmonize the shape and location of the upper and lower dentitions. Later, step-by-step management of the abnormalities suffered in the oral cavity will be necessary through the whole growing period.

The purpose of early treatment for malocclusion in the primary dentition period is to achieve a good relationship between both dental arches and good masticatory function, not to promise a perfect arrangement of the permanent teeth in the future. However, if the children's abnormalities of dentition and occlusion are not treated early, the result may be more severe cases at the end of the growing period.

In this lecture, the importance of space maintenance from the primary dentition period will be shown. Also, the importance of early treatment of malocclusion in the primary dentition will be demonstrated through the relationship between mandibular movements and improvement of malocclusions that result from displacement of the mandible, such as posterior cross bite, scissors bite, deep over bite and anterior reverse bite.

### Session L10-2: Dos and don’ts of Early treatment of Class II Malocclusion with Twin Block

**JORGE LUIS CASTILLO (Peru)**

There are different ways to treat a growing patient with a Class II Malocclusion. The Twin Block appliance (TB) is one of these methods. TB is a very effective appliance. Randomized clinical trials have determined that the TB appliance can be equally effective when used during the mixed dentition phase compared to the early permanent dentition. There is a dental and skeletal contribution to the correction of the malocclusion. Studies have determined that changes like forward movement of the mandible, increase in mandibular length, elongation of the condyle and ramus, proclination of upper incisors and retroclination of upper incisors are achieved. Is a balanced facial profile obtained after treatment with the TB appliance? Although there are many changes at the skeletal level, there are also dental changes. For that reason, changes in facial convexity may be subtle. Which is the ideal timing to start treatment with TB? Even though the appliance is effective during the mixed dentition phase and the early permanent dentition, the decision on whether
to start early or late must be done using different criteria like behavior, severity of the problem or self esteem issues. In cases when these criteria are not an issue, it is better to wait. A 6-8 month treatment with TB followed by fixed appliances, can be a good option in many cases. Are there any considerations in the construction of the appliance that can improve the effectiveness of the appliance? One of the key issues in the appliance success is the registration of the bite. We have to be very careful to make sure that the constructive bite is build with the correct height, with the correct antero-posterior position of the mandible and with the midlines in place. Also, the inclination of the bite planes should be around 70 degrees. The control of the appliance should be done every month to adjust the appliance and trim the acrylic if needed. The total treatment time is usually between 6-8 months. Following the right steps to build and to use the appliance and placing it in the indicated patients will assure us a successful treatment of the malocclusion.

L10-3  Class III treatment scenario

KITAE PARK (Korea)

Class III malocclusion is considered one of the most difficult malocclusions to be treated orthodontically. The cause of class III malocclusion can be a retrusive maxilla or protrusive mandible but, in most cases, the cause is a combination of both. Class III malocclusion with a prognathic mandible is more difficult to treat than other types of class III malocclusion because mandibular growth is very difficult to control orthopedically. Therefore, orthognathic surgery should be considered a long-term treatment option for class III malocclusion not only when orthodontic treatment has failed but also as a first-line treatment choice.

In this presentation, all treatment scenarios will be explained, beginning with primary dentition through mixed and permanent dentition, and eventually to the growth completion stage. The treatment options include bonded expander or hyrax as an intraoral appliance and face mask application. “How do we decide proper treatment timing?” The total treatment length and retention method will also be explained. This treatment scenario can be applied to almost all patients with class III malocclusion and patients can expect a long-term treatment course from the early childhood stage, consequently achieving better patient-doctor rapport, even in eventual orthognathic surgical cases.

L10-4  New Paradigms of Orthodontic Treatment

YANHENG ZHOU (China)

After more than 100 years development, the new technology is getting more popular in orthodontics, especially in 21st century. Like digital orthodontics, as well as TADs (Temporary Anchorage Device), will change the profile of orthodontics. Some difficulty cases, like severe skeletal Class II or III cases can be treated through orthodontics only with TAD, which have to be corrected by surgical orthodontics before. The digital orthodontics, like invisible aligners and customized lingual orthodontics definitely change the philosophy of orthodontics. More and more people like the invisible orthodontics, even some young kids. This presentation will show the new paradigm of orthodontics. The clinical cases treated by invisible aligners, as well as customized lingual techniques will be showed at the speech.
S5-1 Keeping children’s teeth cavity free and healthier through Early Intervention and Risk assessment, CAMBRA
FRANCISCO RAMOS-GOMEZ (USA)

Pediatric preventive oral health and comprehensive care can be best delivered in a setting where integrated, continuously-accessible, family-centered, coordinated, and culturally linguistic effective care is available. Such care should be delivered or supervised by a qualified team of child health specialists. Improving the oral health of infants and children is tied directly to expanding early intervention and disease management, consistent with American Academy of Pediatrics (AAP) and American Academy of Pediatric Dentistry (AAPD) policy of the age one visit. Targeted access to care for the most vulnerable “at risk populations” who are also the most likely to suffer from the greatest disparities in accessing care. The Infant Oral Care Clinical Program was designed based on evidence based research from the Mother and Youth Access (MAYA) and Glass Ionomer and Fluoride Varnish (GIFVT) clinical trials, which examined ECC prevention strategies in underserved, high risk populations. The program provides an early intervention with an alternate, minimally invasive, non-traditional dental home in a primary care setting that provides familial caries risk assessment (CAMBRA) containing three domains: risk/biological factors, protective factors and clinical findings. In addition to CAMBRA, a clinical exam, preventive care with Fluoride varnish and motivational interviewing with culturally sensitive self-management goals are provided.

S5-2 Disease Management of ECC: Results of a Quality Improvement Collaborative
MAN WAI NG (USA)

Until recently, standards of care for early childhood caries (ECC) called for restorative and surgical treatment, along with general recommendations to change dietary and oral hygiene practices. Young children who are not cooperative and children with special health care needs who require restorative treatment are commonly sedated or treated under general anesthesia. However, the costs of general anesthesia are significant while the relapse rates are unacceptably high. It is now known that restorative treatment alone does not address the disease process. Chronic disease management differs from a traditional approach of telling the patient what to do. Instead, it involves the care provider working with the patient or parent to understand the causative factors of the disease and to aid in selecting self-management goals to address disease etiology.

A chronic disease management (DM) approach to address preschool children with ECC was implemented and tested as a Quality Improvement (QI) demonstration project (ECC Phase I) at two hospital-based dental practices in the US. The components of the clinical protocol were: (1) Caries risk assessment (CRA); (2) Caries charting by tooth, surface and activity; (3) Effective communication with parents; (4) Self-management goals (SMG); (5) Topical fluorides and other caries inhibiting/remineralizing agents; (6) Restorative and preventive treatment based on the patient’s clinical needs and the parent’s desires; and (7) Return DM visit intervals based on caries risk.

Thirty months of ECC I results found that children in the ECC DM group experienced lower rates of new cavitated lesions, pain and referrals for restorative treatment under general anesthesia in the operating room (OR) compared to baseline historical controls. An economic evaluation of the DM model for ECC management conducted at one of the
sites found that the additional costs of the ECC intervention were offset by the reduction in restorative and OR care. The return on investment increased over time and was 10.8 over 1 year with estimated savings remaining relatively stable over periods longer than 12 months. In 2011, ECC Collaborative Phase II, also funded by DentaQuest Institute, expanded the project to 5 other sites in the US over an 18 month period. The clinical outcomes are similar to those described for Phase I.

We conclude that a chronic DM approach to address ECC utilizing QI strategies can be implemented into dental practice and has the potential to deliver better care, improve clinical outcomes and reduce costs. Further testing is needed in diverse settings. For a successful paradigm shift to risk-based disease prevention and management to occur, reimbursement is needed for CRA, non-surgical DM of caries, more frequent risk-based DM visits, education and counseling for some appropriate patients. These activities are not presently reimbursable by insurance in the current US fee-for-service system.

**S5-3  Innovative therapies and treatment for ECC**

YOUNG J. KIM (Korea)

Early childhood Caries (ECC) is multifactorial disease and its prevalence had increased significantly in children aged 2–5. ECC disproportionally affects lower socioeconomic and minority groups, especially multicultural families in Korea, is an indicator for future decay and oral health.

Multidisciplinary approach should be necessary to make ECC preventable and manageable though lots of barriers for high risk group to get the proper dental screening and treatment are present; dental home and CAMBRA and followed by multicultural staff, optimum fluoride exposure, periodic recall program and multifaceted strategies with daily use of xylitol, probiotics, fluoride, and other antimicrobials, etc.

Each child needs to get individualized therapy. Early enamel lesion can be treated successfully by innovative infiltration resin technique but not always available for the underprivileged children as well. Many NEW and INNOVATIVE therapies have been introduced to dental industry and dentists may be confused when they are choosing the best available treatment for ECC of their patients.

The key objective of the lecture is development of a ECC strategy focused on individual awareness, education and advocacy as well as evidence-based therapies you can start today such as diet counseling, bacterial reduction methodologies and intensive remineralization therapy to reduce or eliminate risk from your patients. In addition, broader management protocols should also engage communities in identifying most practical ways of oral health for our children.

**S6-1  An overview of Pediatric Dental Education in Europe**

The Specialty of Paediatric Dentistry in the United Kingdom

EVANGELIA PAPAGIANNOULI (Greece)
According to the EU Sectoral Directives which coordinate the Dental Profession, issued in 1978, there are only two dental specialties (orthodontics and oral surgery) recognised in the EU. However there are countries that recognize the specialty of pediatric dentistry through their respective Ministry of Health and dental associations, others that recognize the specialty through academia and Ministry of Education and others that do not recognize it. Even countries that recognize pediatric dentistry as a specialty do not have the same criteria for a pediatric dentistry curriculum.

This problem was addressed after the foundation of EAPD, in 1990. whose primary concern is in the practice, the education and the research related to the specialty of Pediatric Dentistry, health of children. For this purpose postgraduate curriculum guidelines were issued in 1996 to cover in a specific way the objectives, the obligatory courses and the conditions of a postgraduate program in pediatric dentistry. Furthermore, EAPD has established an accreditation procedure for the Post Graduate Programs in Pediatric Dentistry. The postgraduate programs of eight (8) institutions, so far, have been reviewed, accredited and re-accredited.

The mobility of pediatric dentists in EU is governed the Directives of the General System. That implies that each country could examine the titles and the qualifications of another EU country and ask for compensation measures in case they are not equivalent to the Diplomas provided by the host country.

MARK HECTOR (UK)

Paediatric Dentistry is recognised as a Speciality by the UK’s regulatory body for Dentistry, The General Dental Council. Training to be a specialist in Paediatric Dentistry has been formalised through agreement between the GDC and the institutions responsible for post graduate training in the UK. These institutions include the Royal Colleges of Surgeons of England (London), Edinburgh and Dublin and the Royal College of Surgeons and Physicians of Glasgow. There is a good relation between these institutions and the 15 universities with dental schools and hospitals.

Dentists wishing to train in paediatric dentistry have first to complete a period of not less than 2 years of general professional training in a combination of general dental practice, salaried service and hospital. It is often an advantage to have had Oral Surgery experience during this time. There is then competitive entry to be accepted onto a formal training pathway, recognised by the Specialist Advisory Committee (SAC) in Paediatric Dentistry and the local post graduate dean.

This initial 3 year training leading to a Certificate of Completion of Specialist training (CCST) is usually based in a Dental Hospital. It is examined by the Royal Colleges. Dental hospitals are usually linked to universities and dental schools training undergraduate and postgraduate students (exclusively in 2 cases).

Some centres also provide training shared between the University (probably through a Masters in Clinical Dentistry) and hospital and is compatible with the educational guidelines produced by the Royal Colleges and also in 2 UK centres by European Academy of Paediatric Dentistry.

A small number of candidates have chosen to combine specialist training with an academic training leading to a PhD. These posts were created in order to help train the future clinical academics in paediatric dentistry.

Having gained the CCST a dentist can be entered onto the specialist list kept by the GDC. At this point they may enter specialist practise in the general dental services, salaried service or hospital. Some specialists will go onto follow a further 2 year period of higher specialist training which upon successful completion will make them eligible for consultant appointments in the NHS, usually in a dental hospital.

In conclusion, there is a well described training pathway for dentists wishing to specialise in paediatric dentistry in the
UK. It is offered in most regions of the country and is closely monitored by the Specialist Advisory Committee. The process ensures consistency in the high standards of training expected between different centres across the UK.

S6-2 Pediatric Dentistry Education in Israel

ANNA FUKS (Israel)

Israel is a small and young country that in 1948, the year of its independence, had a population of approximately 600,000 inhabitants. Presently, 65 years later, its population has reached almost 8 million people, and Israel has become one of the most advanced centers of scientific, technological and medical research of the region.

Seven universities provide higher education in different fields of human knowledge. However, only two Dental Schools are available in the country in the undergraduate level, providing a DMD degree. Both Dental Schools, one located in Jerusalem and the other in Tel Aviv, graduate over 70 dentists per year.

The Departments of Pediatric Dentistry of the Dental Schools of Tel Aviv and Jerusalem are recognized departments for specialization approved by the Scientific Council of the Israel Dental Association, and are intended for dentists who wish to specialize in dentistry for children. Three other hospital based programs are also recognized by the Council.

The specialty programs aim to provide a better understanding of all subjects related to the oral and dental health of children and adolescents (from birth to adolescence), teaching skills to accurately diagnose oral and dental problems, to prevent oral and dental diseases, and to provide an holistic treatment to the child.

During specialization, the post-graduate student learns to know and treat young and extremely anxious children for whom sedation is needed. Treatment under sedation and general anesthesia is a main focus of concentration. Dental trauma is a topic which gains immense attention in all aspects: diagnosis and treatment of facial injuries, trauma to primary and permanent teeth, and to the supporting tissues. The specialty programs also include understanding the specific needs of patients with special needs who suffer partial or total somatic, intellectual, or emotional malfunction.

According to the Specialty Regulations of Scientific Council of the Israel Dental Association, Pediatric Dentistry is a 3 1/2 year program comprising:

• Department of Pediatric Dentistry - (at least 35 hours/ week or 1500 hours/year) for 2 years
• Hospital Department of Anesthesiology - 3 months
• Hospital Pediatric Department - 3 months
• Department of Orthodontics - 3 months
• Elective - 3 months
• Basic sciences - 6 months

Students that have an M Sc degree will be exempt for the Basic sciences.

Pediatric Dentistry Services in Israel

The subject of dental treatment as part of general health insurance was raised in 2007. Until the approval of the reform in 2009, dental services in Israel were provided mainly in private offices. Several governmental and/or private companies provided dental insurance that partially covered dental treatment for their workers. Also, some municipalities provided low cost dental treatment for a small percentage of schoolchildren.
The reform was launched in July 2010 providing free dental treatment for children aged 0-8 by dentists working at the Sick Funds Clinics (SFC). In July 2011 this service was expanded to include children until the age of 10, and in July 2012 children until age 12 were also included. This adds to 1.5 million children entitled to receive treatment. The figures for two years experience provided by the Ministry of Health will be discussed.

**S6-3  Becoming a Pediatric Dentist in Japan**

**YASUO TAMURA (Japan)**

The first formal pediatric dental education in Japan was established in 1956 when Tokyo Medical and Dental University organized the Department of Pediatric Dentistry. At present, 29 dental schools in Japan have a department of pediatric dentistry. The curriculum for pediatric dentistry begins in year 3 or 4 of 6 school years, depending on the school, and the syllabus is arranged to begin with the fundamentals, such as child growth and development and pediatric oral physiology, followed by more practical and clinically related topics. Pre-clinical laboratory practice is included, and chair side clinical practice rotations are instituted in years 5 and 6.

After completing their undergraduate courses, dental students must pass the National Examination for Dentists. Graduates are required to complete an additional year of general clinical training at a university hospital or dental clinic.

To become an accredited Pediatric Dentistry Specialist, the graduate must become a member of the Japanese Society of Pediatric Dentistry and undergo at least 5 years of additional resident postgraduate clinical training under the instruction of a pediatric dentist authorized by the JSPD. Once the dentist has demonstrated expertise and competence in pediatric dentistry, the JSPD confers the qualification and title of Pediatric Dentistry Specialist.

In 2012, there were 1147 accredited pediatric dentists (Specialists), 176 instructors and pediatric dentists authorized by the JSPD, and 4607 JSPD members.

**S6-4  Changes in Pediatric Dentistry Education in the United States**

**JOEL BERG (USA)**

Pediatric dentistry postgraduate education on the US has undergone many changes recently. The Commission on Dental Accreditation recently approved new standards that all programs must abide by. Changes include requirement changes for sedation, for general anesthesia and other changes. Other global changes in the specialty and changes in
the science base have led to other changes. This short program will identify the changes and tends in Pediatric Dental postgraduate education in the U.S.

S6-5 Information Technologies in Pediatric Dental Education in Brazil

MARCELO BÖNECKER (Brazil)

At about seven years ago in Brazil, the Ministry of Health created the Brazilian Telehealth Program, which focuses on the training of health professionals working in the country's public health service (http://www.telessaudebrasil.org.br).

One year later, the Department of Paediatric Dentistry at the University of Sao Paulo made a decision to create a "Tele Paediatric Dentistry" discipline to teach online continuing education. The aims of this discipline are to teach postgraduate students to develop electronic media and information and communication technologies (ICT) for continuing education and also use these materials for tutoring students in undergraduate courses.

During all these years lecturers and postgraduate students in our department have improved skills in information technologies and have developed continuing education activities in paediatric dentistry to undergraduate students using both objective structured clinical examination (OSCE) and blended learning tools.

The OSCE is a modern type of examination often used in health sciences. It is designed to test clinical skill performance and competence in skills such as communication, clinical examination, medical procedures / prescription, manipulation techniques, radiographic positioning, radiographic image evaluation and interpretation of results. An OSCE usually comprises a circuit of short stations, in which each candidate is examined on a one-to-one basis with one or two impartial examiner(s) and either real or simulated patients.

Blended learning combines face-to-face and e-learning. A face-to-face learning occurs in real-time, with all participants interacting at the same time. On the other hand, the e-learning is made through an asynchronous way that allows participants to engage in the exchange of ideas or information without the dependency of other participant involvement at the same time. Each tutor of the paediatric dentistry department uses this strategy and is responsible for a group of ten undergraduate students.

The e-learning resources that are used to support asynchronous learning include emails and online discussion boards that we use very often in our continuing education system. Moreover, this education method requires the development of learning resources or use free videos, blogs and soft wares available at the internet. The activities are developed in Moodle platform, integrated to the University of Sao Paulo social network (http://social.stoa.usp.br).

One of the e-learning resources that we use is the Virtual Man project in partnership with the Telemedicine Discipline at the University of Sao Paulo. The Virtual Human Project is the development of three-dimensional images of the structures of the human body, organized as islands of knowledge, applicable to different audiences within pedagogical strategies that target specific goals.

Another e-learning resources are clinical videos, videos showing interviews with experts, photographs and radiographs in a slide section and also scientific literature available in PDF format.

Among the free soft wares available at the internet, we use in our daily clinic at the dental school the cariogram which is a way to illustrate interactions between caries related factors. It demonstrates the caries risk graphically and shows the risk for developing new caries in the future and also chances to avoid new caries in the near future. It helps to understand the multifactorial aspects of dental caries. It can be used as a guide in attempts to estimate caries risk.
A well-structured continuing education activity using an e-learning approach combines communication instruments and the teaching-learning process. E-learning enables continuing educational processes to be carried out with tutors and students who are physically distant. More important, e-learning enhances the learning experience when used as a support to conventional lecturing.

In our experience, a significant improvement in the dentists’ knowledge occurred after using the e-learning course for training Brazilian Dentists on Atraumatic Restorative Treatment. This improvement suggests that a well-structured e-learning course can be a good way to introduce new treatment strategies into clinical practice, which is one of the main barriers in evidence-based medicine and dentistry. However, it is still not possible to determine whether these dentists will use this treatment in their daily clinical practice, so longer term studies should be conducted to determine the effective implementation of new knowledge.

As it is described in the education literature, there are many different levels involved in the learning process ranging from knows (knowledge) to know-how (competence) to shows how (performance) and to do (action).

Tests of knowledge level are important but are incomplete as there is more to clinical practice than knowledge. Therefore, it is also necessary to assess if individuals have a good grasp of the acquired knowledge, which is the competence level. Therefore, assessing a professional’s competence goes beyond testing acquired knowledge.

The literature shows that blended learning improves teaching and learning process by enhancing interaction between the professor/tutor and the students and also by creating more learning opportunities. At the same time, when we have the post graduate student acting as tutor under the supervision of our professors, they are developing teaching skills that have become necessary for the contemporary professionals dealing with education.

The e-learning can be reinforced by a proper planned evaluation, as OSCE, which deals not only with acquired knowledge, but also with the know-how-to-do and know-how-to-be (professional competencies and abilities).

This approach follows our national law for education and our National Curriculum Guidelines for Undergraduate courses of Dentistry.

<table>
<thead>
<tr>
<th>Session</th>
<th>Clinical Practice: What’s New? (III)</th>
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<tr>
<td>Date &amp; Time</td>
<td>June 15 (Sat), 14:00~15:40</td>
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<tr>
<td>Place</td>
<td>GBR 103 (1F)</td>
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**CP3-1 REGENERATION: Exploring new horizons in pediatric endodontics**

**SHOBHA TANDON (India)**

It is not wrong to say that in spite of so many advancements in the field of pediatric dentistry, endodontic therapy has always been very challenging to the pedodontists. Since long our specialty has been functioning around the “three ‘R’ concepts i.e. “Repair, Restore or Remove” but now we are on the verge of having a permanent answer to all our dental problems in the form of the fourth ‘R’ and that is ‘Regeneration’.

Although current treatment modalities offer high levels of success for many conditions, an ideal form of therapy might consist of regenerative approaches in which diseased or necrotic pulp tissues are removed and replaced with healthy pulp tissue to revitalize teeth. The dawn of this century is brightened by the growing understanding and
experimentation with stem cells as primary tools in the expanding regenerative medicine and tissue engineering revolution. Researchers are working toward this innovative objective for creating hopes to deliver healthy tissues to replace diseased, missing, and traumatized pulp. The potential approaches include root-canal revascularization, postnatal stem cell therapy, pulp implant, scaffold implant, three-dimensional cell printing, inject able scaffolds, and gene therapy. These regenerative endodontic techniques will possibly involve some combination of disinfection or debridement of infected root canal systems with apical enlargement to permit revascularization and use of stem cells, scaffolds, and growth factors. Although the challenges of introducing endodontic tissue engineering therapies are substantial, the potential benefits to patients and the profession are equally ground breaking.

This presentation provides an overview of the methodological issues required to develop potential regenerative endodontic therapies, with hope to present a call for action to develop these therapies for clinical use.

**CP3-2  Restoring primary anterior teeth with esthetic crowns: Up to date**

SUNG-KI KIM (Korea)

It’s very difficult to fulfill both the strength and the esthetics simultaneously regarding the restoration of primary anterior teeth. The material used for the restoration of primary anterior teeth needs to be strong enough to last until exfoliation, without sacrificing the esthetic requirements. However, metal structures used for full coverage of primary anterior teeth do not satisfy esthetic needs and some esthetic approaches such as celluloid crowns are too weak to withstand the external forces. Preveneered stainless steel crowns (SSC) are available to fulfill the incompatible two factors but the insufficient appearance and a loss of facing should be considered as fully successful methods. Zirconia is a type of ‘tooth-colored’ ceramic which is already being used for prosthetics of permanent teeth. This ceramic has sufficient strength as a dental material even if the thickness is very thin. So zirconia is suitable for making primary anterior esthetic crowns whilst fulfilling both the strength and esthetic characteristics together. Another advantage of zirconia as a dental material is the excellent result of tissue adaptation. Since newly proliferated epithelial tissue around zirconia can be connected to the surface of zirconia, gingival tissue around zirconia crowns looks like normal gingiva around the natural tooth.

The first ready-made primary anterior crowns, “ZIRKIZ® crowns” have been developed since 2010 and many pediatric dentists have used these crowns. These crowns have shown excellent results such as the rehabilitation of function, improved appearance as well as parents' satisfaction. These days “NuSmile® ZR” is also commercially available. This presentation will provide an overview of ready-made zirconia primary anterior crowns (ZIRKIZ® crowns and NuSmile® ZR) and report some clinical cases. There is also a brief explanation about posterior esthetic crowns for children.

**CP3-3  The role of Paediatric Dentist in the team approach for managing childhood obesity**

ANDREAS AGOUROPOULOS (Greece)

Obesity is a severe health problem that has increasingly affected the childhood population over the last decades. It is estimated that, globally, up to 200 million school aged children are either overweight or obese while one fourth of them are classified as obese.

The aims of this presentation are to: a) present the available data on aetiology of obesity in children, b) discuss the team approach for managing childhood obesity c) focus on the role of the paediatric dentist in this team and the prevention of the problem.
Overweight and obesity are defined as abnormal or excessive fat accumulation that may impair general health. The main causes are recognized to be increased intake of energy-dense foods that are high in fats and sugars together with decrease in physical activity.

Management of childhood obesity normally includes one or several of the following components: nutritional and physical activity advice, behavioral treatment components, decreasing sedentary activities, and increasing lifestyle activities, social and/or psychological support, pharmacological or surgical interventions. A team for managing childhood obesity includes dietitians, behavioral psychologists, paediatricians, paediatric endocrinologists, paediatric nurses, geneticists.

There is increased information on the effect of obesity in oral health problems. Obese children have been shown to have more dental caries in permanent teeth and accelerated dental development compared to normal weight children. Furthermore, obesity has been reported to relate to xerostomia in adolescents. Overweight and obese children tend to be more prone to develop type 2 diabetes mellitus, hypertension, depression and many other health problems than may affect and alter a dental treatment plan. Furthermore some pharmacological or surgical interventions may have a negative impact on oral health.

Paediatric Dentists, especially in the Western world and Australia, will treat more and more overweight and obese children in the following years. As a result they should be aware of the related problems in children and take action both in personal and community levels. Since a close and long relationship with children, in early ages, is developed in paediatric dental offices, a regular monitoring of the weigh is recommended and appropriate referral should be done when the problem is recognized. Dietary counselling should focus, not only in dental caries, but also in a general healthy diet. Close collaboration with other health care specialists will ensure safe and effective care in the dental office. Early prevention will protect children both form dental and weigh problems, when they reach the adult years and Paediatric Dentists can make a difference in this direction.

**CP3-4 ART: Current status and future expectations**

**ECE EDEN (Turkey)**

Dental caries is considered to be one of the most prevalent diseases around the world. It has social, physical and esthetic impact on daily performances for people from all ages. The current conventional restorative care has proven to be unable to serve all people in need. Atraumatic Restorative Treatment (ART) has been introduced in mid 1980's as a solution for people who cannot access to conventional dental treatment. It is an affordable, patient-friendly caries management procedure that does not rely on electricity and provides preventive and restorative care using hand instruments only. The most preferred restorative material is autocured high-viscosity glass ionomer cement but compomer and resin composite have been used as well. Currently, ART is accepted to be a suitable minimal invasive treatment for caries management in primary and permanent dentitions in both clinical and field conditions. Systematic reviews and meta-analysis revealed that the survival rate of one-surface ART restorations in primary and permanent teeth is very high, that the cavity preparation and caries removal is satisfying and that ART sealants perform as good as resin sealants. Due to the absence of anxiety provoking triggers such as local anesthesia, noise or water the acceptance of ART is very high especially for children and may have a place in oral care delivery for disabled people. It may be concluded that ART should be integrated in the dental curriculum and introduced in public oral health programs in order to provide improved oral care and increase access to dental treatments.
CP3-5 Early Caries Detection

JONG-SOO KIM (Korea)

A white lesion due to the initial loss of mineral is difficult to diagnose by visual inspection. Radiography can diagnose the enamel caries at least about half of the thickness of enamel. If the demineralization of enamel is diagnosed before cavitations, we can revert to the normal enamel by chemical therapy.

In 2004, Inspektor Company introduced the QLF system. The principles of QLF system is that normal enamel reflects fluorescent light but demineralized enamel absorb the fluorescent light. The initial version of QLF system used a oral camera, but the new version incorporate with DSLR camera.

The analyzing program assess the degree of demineralization of enamel. In addition, assess also the degree of calculus and plaque leading cause of periodontal disease. Table 1 show quantitative parameters obtained with QLF.

Table 1. Quantitative parameters obtained with QLF

<table>
<thead>
<tr>
<th>Name</th>
<th>Symbol</th>
<th>Unit</th>
<th>Description</th>
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<tbody>
<tr>
<td>Delta F</td>
<td>$\Delta F$</td>
<td>%</td>
<td>Percentage fluorescence loss with respect to the fluorescence of sound tooth tissue. Related to lesion depth.</td>
</tr>
<tr>
<td>Delta Q</td>
<td>$\Delta Q$</td>
<td>%px$^2$</td>
<td>Percentage fluorescence loss with respect to the fluorescence of sound tissue times the area. Related to lesion volume.</td>
</tr>
<tr>
<td>Lesion Area</td>
<td>$A_{\Delta F}$</td>
<td>px$^2$</td>
<td>Area with $\Delta F$ equal or smaller than a specific threshold value of $\Delta F$ (default -5%).</td>
</tr>
<tr>
<td>Delta R</td>
<td>$\Delta R$</td>
<td>%</td>
<td>Percentage of increase of the ratio of the red and the green component with respect to that ratio of sound tissue. Related to the presence of porphyrins and indirectly related to bacterial activity.</td>
</tr>
<tr>
<td>RF Area</td>
<td>$A_{\Delta R}$</td>
<td>px$^2$</td>
<td>Area with $\Delta R$ equal or higher than a specific threshold value of $\Delta R$.</td>
</tr>
<tr>
<td>Simple Plaque Score™</td>
<td>SPS™</td>
<td>-</td>
<td>A value from 0 (no mature plaque) to 5 (high amount of mature plaque).</td>
</tr>
<tr>
<td>Two-Tone Plaque Score™</td>
<td>TTPS™</td>
<td>%</td>
<td>Percentages of tooth area covered by mature (dark-blue) and immature plaque (pink-blue).</td>
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</table>

The advantages of using QLF system in Pediatric Dentistry are diagnosis of the progression of the demineralization of enamel in initial stage before cavitations, monitoring of the mineral changes of enamel surface by dietary habit control and chemical therapy in quantitatively.

Paradigm of operative treatment in Pediatric Dentistry is shifting from restoration of cavitations of tooth to chemical therapy or prevention of initial enamel mineral loss by the QLF system.
Oral Presentations –
June 13 (Thursday)

Oral Session O01

11:00- 12:10 GBR 104 (1F), COEX

Special Needs Patients 1

Chairpersons
Clive Friedman (Canada)
Seong Oh Kim (Korea)

O01-1

11:00–11:10

Designing a dental clinic protocol for children with autism
T. NELSON
Pediatric Dentistry, University of Washington, Seattle, WA, USA

O01-2

11:11–11:21

The dilemma of reporting child abuse and neglect talking with pediatric dentists
T. KVIST1, A. WICKSTRÖM2, I. MIGLIS1 & G. DAHLLÖF1
1Department of Dental Medicine, Division of Pediatric Dentistry, Karolinska Institutet, Huddinge, Sweden; 2Department of Thematic Studies, Child Studies, Linköping University, Linköping, Sweden

O01-3

11:22–11:32

Sociography and qualitative approach to the patient with special needs
M. VALLE, S. KRAMER, G. PENNACCHIOTTI, D. CARRÉÑO, S. DOREN & G. ZILLMANN
Pediatric Dentistry, Universidad de Chile, Santiago, Chile

O01-4

11:33–11:43

Perception of dental visit pictures in autistic children and their caretakers as a basic communication device
W. WIBISONO1, S. BUDIARDJO2 & B. SUDIROARMODJO3
1Pediatric Dentistry, Faculty of Dentistry, Moestopo University, Jakarta, Indonesia; 2Pediatric Dentistry, Faculty of Dentistry, University of Indonesia, Jakarta, Indonesia; 3Dental Public Health, Faculty of Dentistry, University of Indonesia, Jakarta, Indonesia

Oral Session O02

11:00-12:00 GBR 105 (1F), COEX

Prevention 1

Chairpersons
Dorte Haubek (Denmark)
Katsuyuki Kozai (Japan)

O02-7

11:00–11:10

Evaluation of fluoride-releasing capacity from polyvinyl alcohol polymer tape supplemented with NaF in oral cavity
K. Y. LEE, S. H. LEE & N. Y. LEE
Pediatric Dentistry, Chosun University Dental Hospital, Gwangju, Korea

O02-8

11:11–11:21

Retention of fissure sealants in young permanent molars affected by dental fluorosis – a twelve month clinical study
H. SHAIK1, E. R. REDDY2 & M. MANJULA2
1Department of Dental Surgery, Kakatiya Medical College/ Mahatma Gandhi Memorial Hospital, Warangal, Andhra Pradesh, India; 2Department of Pedodontics and Preventive Dentistry, Kamini Institute of Dental Sciences, Narketpally, Nalgonda/ Andhra Pradesh, India

O02-9

11:22–11:32

Schools oral and general health promoting program
G. OADRI1, M. FRANZE2, A. TREUNER1 & C. SPLIETH1
SCIENTIFIC PROGRAM

**O02-10** 11:33–11:43
Enamel decalcification of pit and fissure sealing system; self-etching primer vs phosphoric acid
S. KAKUDA, J. JIALE, M. KAGA, Y. YAWAKA & H. SANO
Graduate school of dental medicine, Hokkaido University, Sapporo, Japan

**O02-11** 11:44–11:54
The degree of compliance affects oral health status in the early mixed dentition
K. T. SUN¹, Y. C. CHANG¹ & S. C. CHEN²
¹Pediatric dentistry, China Medical University Hospital, Taichung, Taiwan; ²Endocrinology, Cheng-Ching Hospital, Taichung, Taiwan

**Oral Session O03**

**14:00-15:00**
GBR 104 (1F), COEX
Special Needs Patients 2
Chairpersons
Nan Young Lee (Korea)
Kareen Mekertichian (Australia)

**O03-15** 14:00–14:10
Oral conditions in HIV-infected children of Bangalore, India
P. SUBRAMANIAM & K. KUMAR
Pedodontics and Preventive Dentistry, The Oxford Dental College, Hospital and Research Centre, Bangalore, Karnataka, India

**O03-16** 14:11–14:21
Management of self injurious behaviour in two patients with special needs
F. OREDUGBA¹, M. ASHIWAJU¹, C. NZOMI-WU² & A. ADENAIKE²
¹Department of Child Dental Health, College of Medicine, University of Lagos, Lagos, Nigeria; ²Lagos University Teaching Hospital, Lagos, Nigeria

**O03-17** 14:22–14:32
Treatment of lingual ulcers caused by tongue thrust with hypoxic-ischemic encephalopathy
Y. E. LEE, M. H. OH, S. E. LEE & J. H. PARK

**Department of Pediatric Dentistry and Institute of oral biology, School of Dentistry, Kyung Hee University, Seoul, Korea**

**O03-18** 14:33–14:43
The impact of removable prosthetics to the quality of life of very young children
D. EMMANOULIDIS
Dental School, Univ of Athens, Pediatric Dentistry, Lecturer, Athens, Greece

**O03-19** 14:44–14:54
Congenital Hypomobility of the mandible: case report and review of literature
S. NAMINENI¹²
¹Pediatric Dentistry, Rainbow Childrens Hospital and Perinatology Centre, Hyderabad, India; ²Pediatric Dentistry, Sri Sai College of Dental Surgery, Vikarabad, India

**Oral Session O04**

**14:00-15:30**
GBR 105 (1F), COEX
Cariology 1
Chairpersons
Claes Crossner (Norway)
Ferranti Wong (UK)

**O04-20** 14:00–14:10
A prediction model for active caries progression in school-aged children at two years
K. HALLETT¹ & P. O’ROURKE²
¹Dentistry, Royal Childrens Hospital, Melbourne, Vic., Australia; ²Biostatistics, Queensland Institute of Medical Research, Brisbane, Qld, Australia

**O04-21** 14:11–14:21
Two-layer insertion technique for glass-ionomer restoration in approximal-art restorations – 30 months follow-up
C. BONIFÁCIO¹, D. HESSE², C. GUGLIELMI², D. RAGGIO², M. BÖNECKER² & E. VAN AMERONGEN¹
¹Pediatric Dentistry, ACTA, Amsterdam, The Netherlands; ²Pediatric Dentistry, USP, São Paulo, Brazil

**O04-22** 14:22–14:32
Sealing or restoring manifest occlusal caries in young permanent teeth – 5-year results
V. QVIST¹, U. LARSEN¹, T. R. ANDERSEN², K. D. MØLLER² & M. K. BORUM²
¹Cariology and Endodontics, Dental School, University of Copenhagen, Denmark; ²Public Dental Health Service, Hoersholm, Denmark

Oral Session O05
16:00-16:50
GBR 104 (1F), COEX

Chairpersons
Taku Fujiwara (Japan)
Nikos Kotsanos (Greece)

O05-29 16:00-16:10
Fluoride content of bottled water in Hong Kong
N. KING¹, H. I. AL-MULLA² & R. ANTHONAPPA³
¹Paediatric Dentistry, University Of Western Australia, Perth, WA, Australia; ²Paediatric Dentistry, Hamad Medical Corporation, Qatar

O05-30 16:11-16:21
Fluoride content of bottled water in Qatar
R. YAWARY¹, H. AL-MULLA², R. ANTHONAPPA³ & N. KING¹
¹Paediatric Dentistry, University of Western Australia, Perth, WA, Australia; ²Paediatric Dentistry, Hamad Medical Corporation, Qatar

O05-31 16:22-16:32
The remineralization effect of fluoride varnishes containing different calcium phosphate sources on primary enamel lesions
P. RIRATTANAPONG¹, K. VONGSAVAN¹, C. SAENGIRAMTRANPITAYA² & T. PORNMAHALA³
¹Department of Pediatric Dentistry, Faculty of Dental Medicine, Mahidol University, Bangkok, Thailand; ²Academic Service and Research Unit, Faculty of Dentistry, Mahidol University, Bangkok, Thailand

O05-32 16:33-16:43
Remineralizing potential of fluoride containing CPP-ACP (Tooth Mousse Plus)
V. GOPALAKRISHNAN¹, A. ITTHAGARUN², R. ANTHONAPPA¹ & N. KING¹
¹Paediatric Dentistry, University of Western Australia, WA, Australia; ²Paediatric Dentistry, University of Griffith, Queensland, Qld, Australia
### Oral Session O06

<table>
<thead>
<tr>
<th>Time</th>
<th>Room</th>
<th>Presenters</th>
</tr>
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<tbody>
<tr>
<td>16:00-17:30</td>
<td>GBR 105 (1F), COEX</td>
<td><strong>Dental Trauma</strong></td>
</tr>
<tr>
<td>Chairpersons</td>
<td>Gideon Holan (Israel) Helen Rodd (UK)</td>
<td></td>
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<tr>
<td><strong>O06-33</strong></td>
<td>16:00–16:10</td>
<td>Retrospective pilot study of the clinical and radiographic success of thermoplasticised gutta-percha in non-vital immature permanent incisors A. FARIDOUN, M. DUGGAL &amp; J. TOUMBA Department of Paediatric Dentistry, Leeds Dental Institute, University of Leeds, Leeds, UK</td>
</tr>
</tbody>
</table>
| **O06-34** | 16:11–16:21 | Evaluation of adverse events following surgical extrusion of crown-root fractures using cone beam computed tomography (CBCT) & Periotest: a nonrandomized controlled trial A. ELKHADEM, M. RASHED, A. MORTADA, S. BAHGAT & M. DAHABA  
1Pediatric Dentistry, Faculty of Oral & Dental Medicine, Cairo University, Cairo, Egypt; 2Oral Radiology, Faculty of Oral & Dental Medicine, Cairo University, Cairo, Egypt |
| **O06-35** | 16:22–16:32 | Apexogenesis in an early stage of tooth development: MTA vs Biodentine R. CAUWELS & L. MARTENS Dept Paediatric Dentistry & Special Care, PaeCaMeD research, Ghent University, Ghent, Belgium |
| **O06-36** | 16:33–16:43 | Furtively intruding primary central incisor S. R. CHERUKU  
Pediatric Dentistry, Sri Sai College of Dental Surgery, Vikarabad, Andhra Pradesh, India |
Department Paediatric Dentistry and Special Care – PaeCaMeD research, Ghent University, Ghent, Belgium |
Pediatric Dentistry, School of Stomatology, the Fourth Military Medical University, Xi an, China |
| **O06-40** | 17:06–17:16 | Effective radiation dose for the thyroid gland from occlusal and peri-apical radiographs of maxillary incisors J. APS  
Pediatric Dentistry, University of Washington, Seattle, WA, USA |
Department of Pediatric Dentistry and Institute of Oral Biology, School of Dentistry, Kyung Hee University, Seoul, Korea |

### Oral Presentations – June 14 (Friday)

#### Oral Session O07

<table>
<thead>
<tr>
<th>Time</th>
<th>Room</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>11:30-12:30</td>
<td>GBR 104 (1F), COEX</td>
<td><strong>Growth and Development – Orthodontics 1</strong></td>
</tr>
<tr>
<td>Chairpersons</td>
<td>Young Chul Choi (Korea) Aida Carolina Medina (Venezuela)</td>
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<tr>
<td><strong>O07-42</strong></td>
<td>11:30–11:40</td>
<td>Treatment of bilateral ectopic eruption of the first permanent molars: two case reports</td>
</tr>
</tbody>
</table>
**New Visions for Paediatric Dentistry**

**Scientific Program**

Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea

**O07-43 11:41-11:51**
Successful treatment of early class III malocclusion with protraction headgear

**S. WEI**
Health Dental Surgery Ltd, Hong Kong, China

**O07-44 11:52-12:02**
Long-term conservation of the second primary molars without permanent successors for space management

**H. J. KIM & T. S. JEONG**
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

**O07-45 12:03-12:13**
Clinical features predicting spontaneous space closure after the extraction of first permanent molars

**U. CHAUDHRY¹, T. TEO², Z. KORDI³, S. PATEL³, P. ASHLEY¹ & J. NOAR³**
¹Paediatric Dentistry, Eastman Dental Hospital and Institute, London, UK; ²Paediatric Dentistry, National Dental Centre, Singapore, Singapore; ³Orthodontic Department, Eastman Dental Hospital and Institute, London, UK

**O07-46 12:14-12:24**
Maxillary incisor replacement with the ectopically erupting canine

**J. E. LIM, J. H. PARK & S. C. CHOI**
Department of Pediatric Dentistry, Kyung Hee University, Seoul, Korea

**Oral Session O08**

**11:30-12:30**
GBR 105 (1F), COEX

**Cariology 2**

**Chairpersons**
Mervat Rashed (Egypt)
Ulrich Schiffner (Germany)

**O08-48 11:30-11:40**
Effects of two probiotic bacteria, and their synergism on salivary mutans streptococci of children when administered through Indian curd

**S. R. MUNNANGI¹, S. NAMINENI², S. R. CHERUKU³, V. L. BOLLA² & R. SUDHA³**
¹Pediatric Dentistry, Sri Sai College of Dental Surgery, Vikarabad, Andhra Pradesh, India; ²Periodontics, Sri Sai College of Dental Surgery, Vikarabad, Andhra Pradesh, India; ³Unique Biotech Ltd, Hyderabad, Andhra Pradesh, India

**O08-49 11:41-11:51**
Initial acquisition of mutans streptococci in Indonesian children

**U. TEDJOSASONGKO, C. ADINDA & T. B. WI-BOWO**
Department of Pediatric Dentistry, Faculty of Dentistry Airlangga University, Surabaya, Indonesia

**O08-50 11:52-12:02**
Clinical test of a new caries activity test “Cariview®” in children: a pilot study

**H. LEE¹, E. LEE³, S. CHO¹, H. JUNG², J. H. LEE¹ & B. I. KIM²**
¹Department of Pediatric dentistry, Dental College, Yonsei University, Seoul, Korea; ²Department of Preventive dentistry, Dental College, Yonsei University, Seoul, Korea

**O08-51 12:03-12:13**
Reliability of caries risk assessment at 3 years of age

**K. EMGÅRD¹,² & B. JÄLEVIK¹,³**
¹Centre for Orthodontics and Paediatric Dentistry, County Council of Östergötland, Linköping University, Linköping, Sweden; ²Department of Pedodontics, Postgraduate Dental Education Center, Public Dental Service, Örebro, Sweden; ³Department of Pediatric Dentistry, Institute of Odontology at the Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden

**O08-52 12:14-12:24**
A monoclonal antibody specific to glucosyltransferase B of Streptococcus mutans GS-5 and its glucosyltransferase inhibitory efficiency

**M. A. KIM & J. G. KIM**
Department of Pediatric dentistry, Chonbuk National University, Jeonju, Korea
Oral Session O09

11:30-12:30  
208 (2F), COEX  
Public Health 1

Chairpersons  
Martine Gemert-Schriks (Netherlands)  
Amy Kim (USA)

O09-53  
11:30–11:40  
School absence due to toothache and associated factors in a national representative sample of 12- and 15-year-old Thai children  
S. KRISDAPONG¹, P. PRASERTsom², K. RATTANARANGSIMA² & A. SHEIHAM³  
¹Community Dentistry, Chulalongkorn University, Bangkok, Thailand; ²Health, Ministry of Public Health, Thailand, Thailand; ³Epidemiology and Public Health, University College London, Nontaburi, UK

O09-55  
11:41–11:51  
Effectiveness of clinical sterilization methods in dental air/water syringes  
S. SHIN¹, Y. YANG¹, J. KIM¹, B. BAIK¹ & M. KIM²  
¹Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea; ²Institute of Oral Bioscience, Chonbuk National University, Jeonju, Korea

O09-56  
11:52–12:02  
An assesment of quality of reporting randomized control trials in paediatric dental journals  
S. RAJASEKHARAN, J. VANDENBULCKE & L. MARTENS  
Department of Paediatric Dentistry and Special Care – PaCaMed Research, Ghent University, Ghent, Belgium

O09-57  
12:03–12:13  
Diversity in the treatment methods and strategy among 15 pediatric dentists from different areas of the world  
M. TANAKA, A. OKUNO & M. KIMURA  
Pediatric Dentistry, Iwate Medical University, Morioka, Japan

O09-58  
12:14–12:24  
Residents’ expectations regarding use of an electronic portfolio in a pediatric dental residency program: a pilot study  
S. DIETRICH & N. DEMBY  
Dental Medicine, Lutheran Medical Center, Brooklyn, NY, USA

Oral Session O10

14:00-15:10  
GBR 104 (1F), COEX  
Growth and Development – Orthodontics 2

Chairpersons  
Hyunjung Kim (Korea)  
Priya Subramaniam (India)

O10-59  
14:00–14:10  
Orthodontic correction of a maxillary canine-premolar complete transposition  
J. W. PARK, H. J. CHOI, J. H. LEE & S. O. KIM  
Pediatric Dentistry, Yonsei University Dental Hospital, Seoul, Korea

O10-60  
14:11–14:21  
An approach of orofacial myology on digit-suck-related anterior open bite  
B. HUANG¹, A. LEE¹, C. LEJARRAGA², P. PUM-TANGON², Y. KANG¹ & J. ABBOTT¹  
¹School of Medicine and Dentistry, James Cook University, Cairns, Qld, Australia; ²Thumbsucking Clinic, Townsville, Qld, Australia; ³Golden Foods Siam Co. Ltd., Bangkok, Thailand

O10-63  
14:22–14:32  
A new approach to measure performance of dental age estimation methods  
H. LIVERSIDGE¹, S. ALOAHTANI¹ & M. HECTOR²  
¹Dental Institute, Queen Mary University of London, London, London, UK; ²Dental School, University of Dundee, Dundee, UK

O10-64  
14:33–14:43  
A study of dental development timings of permanent teeth from radiographs  
N. AHMAD¹, D. MOLES² & S. PAREKH³  
¹Faculty of Dentistry, Islamic Science University of Malaysia, Kuala Lumpur, Malaysia; ²Oral Health Service & Research Division, Peninsula College of Medicine & Dentistry, Plymouth, UK; ³Unit of Paediatric Dentistry, UCL Eastman Dental Institute, London, UK

O10-65  
14:44–14:54  

Prediction for the relapse of anterior teeth cross-bite in the mixed dentition after the treatment of class III malocclusion in deciduous period

**W. H. RUAN & Y. Q. CHEN**
Stomatology, the Children’s Hospital, Zhejiang University School of Medicine, Zhejiang, China

O10-66 14:55~15:05

Growth effects of botulinum toxin type a unilaterally injected into the masseter muscle of a developing rat mandible

**C. Y. PARK¹, K. T. PARK¹ & J. Y. KIM²**
¹The Institute of Oral Health Science, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea; ²Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Dental Research Institute, Busan, Korea

O11-69 14:00~14:10

Bond strength of four dentin adhesives to primary dentin

**R. VIEIRA, C. MIRANDA, L. H. PRATES & M. CHAIN**
Dentistry, Santa Catarina Federal University, Florianopolis/SC, Brazil

O11-70 14:11~14:21

Does the type of caries removal affect bond strength to dentin of primary teeth?

**N. KRÄMER¹, S. NASIRI¹, S. LÜCKER¹ & R. FRANKENBERGER²**
¹Department of Pediatric Dentistry, Medical Center for Dentistry, University Medical Center Giessen and Marburg, Campus Giessen, Gießen, Germany; ²Department of Operative Dentistry and Endodontics, Medical Center for Dentistry, University Medical Center Giessen and Marburg, Campus Marburg, Marburg, Germany

O11-71 14:22~14:32

Comparison of bond strength between prefabricated and customer-made glass fibre posts

**F. WONG¹, N. THANJAL¹ & G. FELICITY²**
¹Paediatric Dentistry, Queen Mary, University of London, Barts and The London SMD, London, UK; ²Department of Mechanical Engineering, Imperial College, UK, UK

O11-72 14:33~14:43

Bond strength of self-etch adhesives to enamel

**H. S. LEE, T. S. JEONG & J. Y. KIM**
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

O11-73 14:44~14:54

Evaluation of the effect of PVA tape supplemented with 2.26% fluoride on enamel demineralization using microhardness assessment and scanning electron microscopy: in vitro study

**M. J. KIM, S. H. LEE & N. Y. LEE**
Pediatric Dentistry, Chosun University Dental Hospital, Gwangju, Korea

O11-74 14:55~15:05

Kids crown in pediatric dentistry: the easier, the faster

**H. KWEON**
Mirae Child Dental Clinic, Gwangju, Korea

O11-75 14:00~14:10

Dental prophylaxis program in preschool institutions of Moscow central region among preschool age children

**E. BOYARKINA, L. KISELNIKOVA, M. NAGOEVA & K. FEDOTOV**
Department of paediatric dentistry, Moscow State Medical Dental University named after A.I. Yevdokimov, Russia, Moscow, Moscow, Russian Federation
O12-76 14:11–14:21
The relationship between the betel nut chewing habit and the dental health status of the aboriginal children in Taiwan
S. S. HUANG1, H. J. HSIEH1, S. T. HUANG2,3, C. C. TSAI1, M. J. CHIOU4 & C. T. LIAO6
1School of Dentistry, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung city, Taiwan; 2Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung city, Taiwan; 3Division of Dentistry for the Special Needs, Kaohsiung Medical University Hospital, Kaohsiung City, Taiwan; 4College Oral Medicine, Chung Shan Medical University, Kaohsiung city, Taiwan; 5Taoyuan Township Public Health Center, Kaohsiung City Government, Kaohsiung city, Taiwan; 6Graduate Institute of Oral Health Sciences, Kaohsiung Medical University, Kaohsiung city, Taiwan

O12-77 14:22–14:32
A systematic review of measures of oral health related quality of life for children
F. GILCHRIST, H. RODD, C. DEERY & Z. MARSHMAN
School of Clinical Dentistry, University of Sheffield, Sheffield, UK

O12-79 14:33–14:43
Oral health comparison between refugee children and youths from North Korea and children and youths in South Korea
S. H. LEE1, H. I. JUNG2, H. S. LEE1 & J. H. LEE1
1Department of Pediatric dentistry, Yonsei University Dental Hospital, Seoul, Korea; 2Department of Preventive dentistry, Yonsei Univesity Dental Hospital, Seoul, Korea

O12-80 14:44–14:54
A systematic review of the prevalence of molar incisor hypomineralization
A. SEYD1,2,3 & E. DURSUN1,2,3
1Pediatric Dentistry, Faculty of Dental Surgery of University Paris Descartes, Paris, France; 2Pediatric Dentistry, Mondor-Chenevier Hospital Complex, Creteil, France

O12-81 14:55–15:05
Prevalence of dental erosion and lifestyle factors in a Swedish population of 20-years olds
H. ISAKSSON1,2, D. BIRKHED1, G. KOCH1, A. ALM2, M. NILSSON3 & L. K. WENDT4
1Department of Paediatric Dentistry, The Institute for Postgraduate Dental Education, Jönköping, Sweden; 2Department of Cariology, Institute of Odontology, Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden; 3Department of Paediatric Dentistry, Kärnsjukhuset, Skövde, Sweden; 4Futurum – The Academy of Healthcare, County Hospital, Jönköping, Sweden; 5Centre of Oral Health, School of Health Sciences, Jönköping University, Jönköping, Sweden

O12-82 15:06–15:16
The effect of the environmental factors on the children’s of the nuclear test site Azgir dental carries development
G. VERMUHKANOVA, L. RAMANKULOVA, & B. KURMANGALIEV
Module stomatology of children’s age, Kazakh National Medical University named after S.A. Asfendiyarov, Almaty, Kazakhstan

O12-83 15:17–15:27
Correlation between skeletal maturity and dental calcification based on skeletal malocclusion
J. Y. KIM, S. H. OH
Department of Pediatric dentistry, School of Dentistry, Hallym Sacred Heart Hospital, anyang, Korea

Oral Session O13
16:00-17:20 GBR 105 (1F), COEX
Dental Materials 2
Chairpersons
Hyung-Jun Choi (Korea)
Ece Eden (Turkey)

O13-84 16:00–16:10
Vital dental pulp conservation and dentin regeneration using treated dentin matrix paste
W. GUO1,2,3, X. LI1,2,3, J. ZOU1,2,3 & W. TIAN1,2,3
1Department of Pedodontics, West China School of Stomatology, Sichuan University, Chengdu, China; 2National Engineering Laboratory for Oral Regenerative Medicine, Sichuan University, Chengdu, China; 3State Key Laboratory of Oral Diseases, Sichuan University, Chengdu, China

O13-85 16:11–16:21
Prevalence of dental erosion and lifestyle factors in a Swedish population of 20-years olds
**In vitro antibacterial activity of various adhesive materials against oral streptococci**

E. B. TUNA-INCE, F. KOLAYLI, E. OZEL & E. R. DOGANHAN

1Department of Pediatric Dentistry, Istanbul University, Faculty of Dentistry, Istanbul, Turkey; 2Department of Medical Microbiology, University of Kocaeli, Faculty of Medicine, Kocaeli, Turkey; 3Department of Operative Dentistry, University of Kocaeli, Faculty of Dentistry, Kocaeli, Turkey

**O13-86**

An assessment of antibacterial activity of three pulp capping materials on *Enterococcus faecalis* by a direct contact test: an *in vitro* study

F. SEYMEN, N. TOPCUOGLU, M. KORUYUCU, B. TUNAINECE, K. GENCAY & G. KULEKCI

1Pedodontics, Istanbul University, Faculty of Dentistry, Istanbul, Turkey; 2Microbiology, Istanbul University, Faculty of Dentistry, Istanbul, Turkey

**O13-87**

X-ray diffractometric analysis of white mineral trioxide aggregate and Biodentine™

S. RAJASEKHARAN, C. VERCRUYSSE, L. MARTENS & R. VERBEECK

1Department of Paediatric Dentistry and Special Care – PaedCaMeD research, Ghent University, Ghent, Belgium; 2Department of Basic Medical Science – Biomaterials Group, Ghent University, Ghent, Belgium

**O13-88**

Effect of resin infiltration and oxidative pretreatment on microshear bond strength of resin composite to hypomineralised enamel

P. L. CHAY, D. MANTON & J. PALAMARA

1Dental Services, KK Women's and Children's Hospital, Singapore, Singapore; 2Melbourne Dental School, University of Melbourne, Melbourne, Vic., Australia

**O13-89**

Effects of pre- or post-curing adhesive resin on bonding of resin composite to primary teeth

L. B. MESSER, J. PALAMARA & W. LIM

1Melbourne Dental School, The University of Melbourne, Melbourne, Vic., Australia; 2School Dental Service, Health Promotion Board, Singapore, Singapore

**O13-90**

Randomized controlled trial comparing three techniques of full coronal restorations in primary maxillary incisors – 6 months results

T. WALIA, A. SALAMI, R. BASHIRI & O. MUTHANNA

1Department of Growth & Development, College of Dentistry, Ajman University of Science & Technology, Ajman, UAE; 2College of Dentistry, Ajman University of Science & Technology, Ajman, UAE

**O14-91**

Genetic diagnosis and oral treatment to an Incontinentia Pigmenti patient with congenital oligodontia

X. CHEN, Z. J. DING, W. SHENG, S. ZHU & Y. GUO

1Department of Pediatric Dentistry, School of Stomatology, China Medical University, Shenyang, China; 2Laboratory of Pediatric Dentistry, Liaoning Stomatology Research Institute, Shenyang, China; 3Central Laboratory, School of Stomatology, China Medical University, Shenyang, China

**O14-92**

A retrospective study of dental treatment in young patients with amelogenesis imperfecta

G. P. LUNDGREN & G. DAHLLÖF

1COR/Department of Pedodontics, Public Dental Service, County of Dalarna, Falun, Sweden; 2Department of Dental Medicine, Division of Pediatric Dentistry, Karolinska Institutet, Stockholm, Sweden

**O14-93**
Dental characteristics of Marfan syndrome: seven years follow-up
Y. J. MOON, Y. M. YANG, J. G. KIM & B. J. BAICK
Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

Oral Presentations – June 15 (Saturday)

Oral Session O15

08:30–09:40
GBR 104 (1F), COEX
Cariology 3

Chairpersons
Gajanan Kulkarni (Canada)
Pattarawadee Leelataweewud (Thailand)

O15-98 08:30–08:40
Early establishment of oral health behaviors and dental caries development
T. I. WIGEN & N. J. WANG
Department of Paediatric Dentistry and Behavioural Science, Institute of Clinical Dentistry, University of Oslo, Oslo, Norway

O15-100 08:41–08:51
The prevalence of molar incisor hypomineralization and the status of first molars in Korean elementary schoolchildren
J. H. SHIN & S. KIM
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

O15-101 08:52–09:02
Comparison of various risk determinants of dental caries in children with cleft lip and palate (CLP) vs non-cleft high caries risk group
A. GOYAL, R. SHASHNI, K. GAUBA & A. UTREJA
Oral Health Sciences center, Postgraduate Institute of Medical Education and Research, Chandigarh, India

O15-102 09:03–09:13
The silent epidemic in children: caries and the Nigeria response
M. UKPONG1, N. ONYEJEKA2, N. CHUKUMAH3, A. ADENIYI4 & O. OLATOSI5
1Child Dental Health, Obafemi Awolowo University, Ile-Ife, Nigeria; 2Child Dental Health, University of Nigeria Teaching Hospital, Enugu, Nigeria; 3Child Dental Health, University of Benin Teaching Hospital, Benin, Nigeria; 4Child Dental Health, University of Lagos, Lagos, Nigeria; 5Preventive Dentistry, Lagos State University, Lagos, Nigeria

O15-103 09:14–09:24
A survey on preoperative conditions of endodontically treated first molars in children and adolescents
S. Y. LEE & S. KIM
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

Dental caries experience, restorative care index and pattern of dental service utilization of secondary school children in Ibadan, Nigeria
O. DENLOYE¹, M. AJAYI² & B. POPOOLA¹
¹Child Oral Health, University of Ibadan, Oyo state, Nigeria; ²Restorative Dentistry, University of Ibadan, Oyo State, Nigeria

Dental Anxiety and Behavioral Management 1 & Endodontics 1

Oral Session O16

08:30-09:50 GBR 105 (1F), COEX
Dental Anxiety and Behavioral Management 1 & Endodontics 1

Chairpersons
Man Qin (China)
Douglas Stewart (Australia)

08:30-08:40
Trend in cooperative behaviour during two dental visits in children attending a tertiary health care centre in urban Nigeria
M. O. ASHIWAJU¹, M. O. FOLAYAN², E. O. SOTE¹ & M. C. ISIEKWE¹
¹Child Dental Health, Faculty of Dentistry, College of medicine, University of Lagos, Lagos, Nigeria; ²Child Dental Health, Faculty of Dentistry, OAU, Ile Ife, Nigeria

08:41-08:51
The use of LA prior to extraction of primary teeth under GA: a clinical dilemma
S. S. E. WONG, R. JENNINGS, R. P. ANTHONAPPA & N. M. KING
Paediatric Dentistry, The University of Western Australia, WA, Australia

08:52-09:02
Failure of flumazenil as a reversal agent for intravenous midazolam for dental treatment: a case report
L. LOURENC O-MATHARU & P. RAVAL
Paediatric Department, King's College Hospital, London, UK

Factors influencing the pain children felt from injection during dental treatment
S. CAI, J. SHANG & R. JIA
Department of Pedodontics, Beijing Stomatological Hospital, Capital Medical University, Beijing, China

Regenerative endodontic treatment of infected immature permanent teeth using calcium hydroxide
M. R. PARK¹,², B. D. AHN³ & Y. J. MAH¹
¹Division of Pediatric Dentistry, Department of Dentistry, Ewha Womans University Mokdong Hospital, Seoul, Korea; ²Division of Pediatric Dentistry, Department of Dentistry, Ewha Womans University School of Medicine, Seoul, Korea

Effects of enamel matrix derivative on proliferation and differentiation of human dental pulp cells
Y. WANG, Y. ZHAO & G. E. LIHONG
Pediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China

Enhanced dental pulp cell adhesion and proliferation on mixed self-assembled monolayers under serum-free conditions
T. SASKIANTI¹, K. SUARDITA² & Y. KATO³
¹Pediatric Dentistry, Faculty of Dentistry, Airlangga University, Surabaya, Indonesia; ²Conservative Dentistry, Faculty of Dentistry, Airlangga University, Surabaya, Indonesia; ³Dental and Medical Biochemistry, Faculty of Dentistry, Hiroshima University, Hiroshima, Japan

Oral Session O17

10:30-11:50 GBR 104 (1F), COEX
Endodontics 2
O17-116  10:30–10:40
**Atypical foreign bodies in primary molars**
G. ALGALI
Pediatric Dentistry, Benghazi, Libyan Arab Jamahiriya

O17-117  10:41–10:51
**Diode laser assisted endodontics in primary teeth: a clinical success report of 3–6 months follow up**
I. MADAN
Paediatric Dentistry, Dr. Michael’s Dental Clinic, Enrolled at RWTH Aachen University for MSc Laser Dentistry 2011–2013, Dubai, UAE

O17-119  10:52–11:02
**Efficacy of diode laser pulpotomy on primary molars: case reports**
S. L. PEI1, C. L. HSU1, L. R. CHEN2 & J. F. LIU2
1Institute of dentistry for pediatric group, National Yang-Ming University, Taipei, Taiwan; 2Department of pediatric dentistry, Taichung Veterans General Hospital, Taipei, Taiwan

O17-120  11:03–11:13
**Clinical and radiographic evaluation of sodium hypochlorite and formocresol pulpotomy in primary molars**
E. KARAAHMETLI & L. ÖZER
Paediatric Dentistry, Ankara University, Faculty of Dentistry, Ankara, Turkey

O17-121  11:14–11:24
**Microscopic evaluation of MB2 canals in mesiobuccal roots of maxillary primary molars**
A. DAMODARAN1, A. SIVARANJANI1, M. S. MUTHU2,3, J. JEEVARATHAN4, V. NATANASABAPATHY5 & S. NANDHINI5
1Pediatric Dentistry, Meenakshi Ammal Dental College, Chennai/Tamilnadu, India; 2Pediatric Dentistry, Sri Ramachandra Dental College and Hospital, Sri Ramachandra University, Chennai/Tamilnadu, India; 3Chief Pediatric Dental Surgeon, Peko Planet, Pediatric Dental Centre, Chennai/Tamilnadu, India; 4Pediatric Dentistry, Sri Balaji Dental College and Hospital, Bharath University, Chennai/Tamilnadu, India; 5Conservative Dentistry and Endodontics, Meenakshi Ammal Dental College, Meenakshi University, Chennai/Tamilnadu, India

O17-122  11:25–11:35
**Clinical use of MTA in pediatric dentistry**
Department of Pediatric Dentistry, Yonsei University Dental Hospital, Seoul, Korea

O17-123  11:36–11:46
**The clinical and radiographic success rates of pulpotomy and root canal therapy of primary molars**
M. KANG1,2, B. D. AHN1,2 & Y. J. MAH1
1Division of Pediatric Dentistry, Department of Dentistry, Ewha Womans University Mokdong Hospital, Seoul, Korea; 2Division of Pediatric Dentistry, Department of Dentistry, Ewha Womans University School of Medicine, Seoul, Korea

O17-125  10:30–10:40
**Comparative evaluation of propofol vs ketofol for anxious paediatric patients**
K. GAUBA1, N. KATHURIA1, A. GOYAL1, A. KAPOOR1 & K. JAIN2
1Unit of paediatric and Preventive Dentistry, Oral Health Sciences Centre, Postgraduate Institute of Medical Education & Research, Sector12, CHANDIGARH, India; 2Department of Anaesthesia, Postgraduate Institute of Medical Education & Research, CHANDIGARH, India

O18-126  10:41–10:51
**Dental anxiety – salivary cortisol as bio-indicator in children undergoing nitrous oxide-oxygen inhalation sedation: a randomized control trial**
Pediatric Dentistry, Sri Sai College of Dental Surgery, Vikarabad, Andhra Pradesh, India

O18-127  10:52–11:02
**Clinical use of MTA in pediatric dentistry**
Department of Pediatric Dentistry, Yonsei University Dental Hospital, Seoul, Korea

Oral Session O18

10:30-11:50  GBR 105 (1F), COEX
Dental Anxiety and Behavioral Management 2 & Dental Anomalies 1
Chairpersons  Nigel King (Australia)  Howon Park (Korea)

O18-126  10:41–10:51
**Dental anxiety – salivary cortisol as bio-indicator in children undergoing nitrous oxide-oxygen inhalation sedation: a randomized control trial**
Pediatric Dentistry, Sri Sai College of Dental Surgery, Vikarabad, Andhra Pradesh, India
The effect of erbium laser caries removal in primary molars on pain perception in children: a randomized clinical trial

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

O18-130 11:03–11:13
Early pulp necrosis as a consequence of hypomineralisation in permanent molar teeth

B. SARIPUDIN
Department of Paediatric Dentistry, Hospital Serdang, Selangor, Malaysia

O18-131 11:14–11:24
Prevalence and characteristics of molar incisor hypomineralisation in a group of children in Malaysia (pilot study)

A. HUSSEIN1, A. GHANIM2, M. I. ABU-HASSAN1, D. MANTON2 & N. RAMLI1
1Faculty of Dentistry, Universiti Teknologi MARA (UiTM), Shah Alam, Malaysia; 2Melbourne Dental School, University of Melbourne, Melbourne, Vic. Australia; 3Faculty of Mathematics and Computer Science, Universiti Teknologi MARA (UiTM), Shah Alam, Malaysia

O18-132 11:25–11:35
Prevalence of developmental defects of the enamel (DDE) in the permanent teeth of a Swedish child population

B. JÄ LEVIK1,2, A. LEVIK1,2 & A. ROBERTSON3
1Institute of Odontology at the Sahlgrenska Academy, University of Gothenburg, Gothenburg, Sweden; 2County Council of Östergötland, Linköping University, Linköping, Sweden

O18-133 11:36–11:46
Mesiodentes in primary dentition and early intervention: a case report

T. K. PALANY
Paediatric Dental Surgery, Hospital Raja Permaisuri Bainun, Ipoh, Ipoh, Perak, Malaysia

Oral Session O19
14:00-15:20  GBR 104 (1F), COEX

Oral Medicine and Pathology

Chairpersons
Halimah Awang (Malaysia)
Rashid Tahir (Singapore)

O19-134 14:00–14:10
The influence of ethyl acetate fraction of simadu pineapple (Ananas comosus Merr.) on apoptosis induction of tongue cancer cells (SP-C1) through caspase -3 and -9

W. YOHANA
Pedodontic Department, Faculty of Dentistry Padjadjaran University, Bandung, Indonesia

O19-135 14:11–14:21
Association of salivary IgA levels and feeding regimes

P. SUBRAMANIAM & S. DWIVEDI
Pedodontics, The Oxford Dental College, Bangalore, India

O19-136 14:22–14:32
Oral lichenoid diseases in children: a case series

M. AL-CHIHABI1, H. ZAITOUN1 & A. HEGARTY2
1Paediatric Dentistry, Charles Clifford Dental Hospital, Sheffield, UK; 2Oral Medicine, Charles Clifford Dental Hospital, Sheffield, UK

O19-137 14:33–14:43
Bite force evaluation in children following dental treatment

L. ALHOWAISH, J. TOUMBA & G. MOUNTAIN
Paediatric Dentistry Department, Leeds Dental Institute, Leeds, UK

O19-139 14:44–14:54
Kawasaki disease masquerading as an odontogenic infection

S. CHUNG, T. NGUYEN & E. BARRETT
Dentistry, The Hospital For Sick Children, Toronto, ON, Canada

O19-140 14:55–15:05
Microbiological evaluation in root canal infections of primary teeth

M. S. KIM, S. Y. PARK, S. E. LEE & J. H. PARK
Department of Pediatric Dentistry, School of Dentistry, Kyung Hee university, Seoul, Korea

O19-141 15:06–15:16
Multiple teeth fractures in dentinogenesis imperfecta
Department of Pediatric Dentistry, Yonsei University Dental Hospital, Seoul, Korea

Oral Session O20

14:00-15:10

Multiple teeth fractures in dentinogenesis imperfecta
Department of Pediatric Dentistry, Yonsei University Dental Hospital, Seoul, Korea

14:00-14:10

A case of labially positioned mesiodens
M. H. SHEEN¹, S. T. HUANG¹², H. S. CHEN¹²
& S. Y. HSIAO¹
¹Kaohsiung Medical University Hospital, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan;
²Oral Hygiene, Kaohsiung Medical University, Kaohsiung, Taiwan

14:11-14:21

Three dimensional analysis of maxillary mesiodens using dental cbct and relation analysis between the size of mesiodens and diastema
E. J. KANG, N. K. CHOI & S. M. KIM
Department of Pediatric Dentistry, School of Dentistry, Chonnam National University, Gwang-Ju, Korea

14:22-14:32

Treatment strategy of supernumerary premolars: case report
H. I. CHOI, H. K. SON, H. J. CHOI, S. O. KIM & B. J. CHOI
Department of Pediatric Dentistry, Yonsei University Dental Hospital, Seoul, Korea

14:33-14:43

Prevalence of supernumerary teeth based on panoramic radiographs – revisited
R. ANTHONAPPA¹, N. KING¹ & A. B. RABIE²
¹Paediatric Dentistry, School of Dentistry, The University of Western Australia, Perth, WA, Australia;
²Orthodontics, Private Practice, Hong Kong, Hong Kong, China

14:44-14:54

Ghost teeth: a case report
F. JAHANIMOGHADAM
Pediatric Dentistry, Dental School, Kerman, Iran

14:55-15:05

Supernumerary teeth in Korean children: a survey of 1130 cases
O. H. NAM, H. J. AHN & S. E. LEE
Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea
**Poster Presentations – June 13 (Thursday)**

**Poster Session 1**

**Poster Session 1**

<table>
<thead>
<tr>
<th>Time</th>
<th>Session 1</th>
</tr>
</thead>
<tbody>
<tr>
<td>11:00-12:00</td>
<td><strong>B2 Hall (1F), COEX</strong></td>
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<tr>
<td></td>
<td><strong>Dental Materials (Group 1)</strong></td>
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<td><strong>Chairpersons</strong></td>
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<td>Luc Martens (Belgium)</td>
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<td>Joseph Jen-Juhng Tsai (Taiwan)</td>
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<td>P01-1</td>
<td><strong>A simplified technique for fabrication of a presurgical nasoalveolar molding appliance for infants with unilateral or bilateral cleft lip and palate</strong></td>
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<td>C. DREWS¹, G. A. FERRETTI¹ &amp; G. LAKIN²</td>
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<td>¹Pediatric Dentistry, Rainbow Babies &amp; Children’s Hospital, Cleveland, OH, USA; ²Pediatric Plastic Surgery, Rainbow Babies &amp; Children’s Hospital, Cleveland, OH, USA</td>
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<td>P01-2</td>
<td><strong>X-ray diffraction analysis of MTA-plus, MTA-angelus and bioaggregate</strong></td>
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<td>Y. GUVEN¹, E. B. TUNA-INCE¹, M. E. DINCOL² &amp; O. AKTOREN¹</td>
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<td>¹Department of Pediatric Dentistry, Istanbul University, Istanbul, Turkey; ²Department of Endodontics, Istanbul University, Istanbul, Turkey</td>
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<td>P01-3</td>
<td><strong>Indirect restoration of primary teeth with individual crowns</strong></td>
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<td>M. BURYKINA, O. ADMAKIN, E. SKATOVA, T. MEDVEDEVA &amp; N. KOZLOVA</td>
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<td>Department of Paediatric Dentistry and Orthodontics, I.M. Sechenov First Moscow State Medical University, Moscow, Russia</td>
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<td>P01-4</td>
<td><strong>Evaluation of surface characteristics of composite resins according to polishing methods</strong></td>
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<td>Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea</td>
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<td>P01-6</td>
<td><strong>Stress distribution in primary molars restored with compomer onlays: three dimentional finite element analysis</strong></td>
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<td>A. C. ALTUN¹, Z. KIRZIOĞLU² &amp; F. SENGUL³</td>
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<td>¹Pediatric Dentistry, Medical Park Hospital, Antalya, Turkey; ²Pediatric Dentistry, University of Suleyman Demirel, Isparta, Turkey; ³Pediatric Dentistry, University of Ataturk, Erzurum, Turkey</td>
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<td>P01-7</td>
<td><strong>A morphometric study on three brands of preformed stainless steel crowns for primary molars</strong></td>
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<td>E. O. HAN &amp; T. S. JEONG</td>
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<td>Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea</td>
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<td>P01-8</td>
<td><strong>Fluoride release and recharge capabilities of orthodontic resin containing S-PRG filler</strong></td>
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<td>Y. TOKUNAGA¹, T. NAKANO¹, K. KATO² &amp; O. FUKUTA¹</td>
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<td>¹Department of Pediatric Dentistry, Aichi-Gakuin University, Nagoya, Japan; ²Department of Preventive Dentistry and Dental Public Health, School of Dentistry, Aichi-Gakuin University, Nagoya, Japan</td>
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<td>P01-10</td>
<td><strong>Comparison of wear of primary anterior teeth against some currently used restorative materials</strong></td>
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<td>E. O. HAN, J. H. LEE, J. Y. KIM &amp; T. S. JEONG</td>
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<td>Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea</td>
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<td>P01-12</td>
<td><strong>A study on acid-neutralizing capacity of giomer</strong></td>
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<td>H. N. AHN, S. M. KIM &amp; N. K. CHOI</td>
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<td>Pediatric dentistry, School of dentistry, Chonnam National University, Gwangju, Korea</td>
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<td>P01-13</td>
<td><strong>Bonding ability of novel pit and fissure sealant system containing S-PRG filler</strong></td>
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| P01-14  | 11:30-11:33 | Clinical evaluation of polymer adhesive tape containing 5% naf (F-PVA) on dentin hypersensitivity reduction | H. G. JANG¹, N. Y. LEE² & S. H. LEE²  
¹Pediatric Dentistry, Chianara Dental Hospital, Goyang/ Gyeonggi-do, Korea; ²Chosun University Dental Hospital, Gwangju, Korea |
Pediatric Dentistry, Meikai University, Saitama, Japan |
Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea |
| P01-17  | 11:39-11:42 | Model plaster: alternative abrasive for heat cured acrylic plate polishing                          | V. TAKARINI¹, K. USRI¹² & R. MANURUNG³  
¹Department of Dental Material, Universitas Padjadjaran, Bandung, Indonesia; ²Dental Hospital (Rumah Sakit Gigi dan Mulut), Universitas Padjadjaran, Bandung, Indonesia; ³Department of Prosthodontics, Universitas Padjadjaran, Bandung, Indonesia |
| P01-18  | 11:42-11:45 | Compressive strength and microhardness of flowable composite resin and flowable giomer            | S. W. SHIN, S. H. YOO & J. S. KIM  
Pediatric Dentistry, Dankook University, Cheonan, Korea |
| P01-19  | 11:00-11:03 | Bonding to caries-affected dentin: a systematic review                                           | M. EKAMBARAM¹, C. YIU¹ & J. MATINLINNA²  
¹Paediatric Dentistry, Hong Kong, Hong Kong, China; ²Dental Materials Science, Hong Kong, Hong Kong, China |
| P01-20  | 11:03-11:06 | Five-year evaluation of composite resin restoration on permanent first molars in children         | I. Y. KIM, S. KIM & H. J. KIM  
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea |
| P01-21  | 11:06-11:09 | Sealing manifest occlusal caries in young permanent teeth – 5-year survival of different sealant materials | M. K. BORUM¹, T. R. ANDERSEN², K. D. MØLLER³ & V. QVIST⁴  
¹Public Dental Health Service, Hoeje Taastrup, Denmark; ²Public Dental Health Service, Høresholm, Denmark; ³Public Dental Health Service, Copenhagen, Denmark; ⁴Cariology and Endodontics, Dental School, University of Copenhagen, Denmark |
| P01-22  | 11:09-11:12 | Microtensile bond strength of resin composite to enamel and dentin treated with Er:YAG laser of primary teeth | S. ZHANG¹, T. CHEN² & L. GE¹  
¹Department of Pediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China; ²Department of Pediatric Dentistry, Tianjin Stomatological Hospital, Tianjin, China |
Pediatric Dentistry, Yonsei University College of Dentistry, Seoul, Korea |

**Dental Materials (Group 2)**

**Chairpersons**  
Yumiko Hosoya (Japan)  
Cynthia Yiu (Hong Kong, China)
Effectiveness of a low cost art sealant in permanent first molars

D. HESSE¹, C. C. BONIFÁCIO², C. DE ALMEIDA BRANDÃO GUGLIELMI¹, C. D. FRANÇA¹, F. M. MENDES¹ & D. P. RAGGIO¹
¹Department of Pediatric Dentistry, University of Sao Paulo, Sao Paulo, Brazil; ²Department of Conservative and Preventive Dentistry, Academic Centre for Dentistry Amsterdam, Amsterdam, The Netherlands; ³Department of Social Dentistry, University of Pernambuco, Recife, Brazil

P01-25  11:18–11:21
Effect of curing conditions on monomer elution of orthodontic acrylic resin

H. S. NOH & T. S. JEONG
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

P01-26  11:21–11:24
Antimicrobial effects of Portland cement against three different microorganisms: an in vitro study

J. LIN¹² & Y. WANG¹²
¹Department of Pediatric Dentistry, The Affiliated Hospital of Stomatology, Chongqing Medical University, Chongqing, China; ²Chongqing Research Center for Oral Diseases and Biomedical Science, The Affiliated Hospital of Stomatology, Chongqing Medical University, Chongqing, China

P01-27  11:24–11:27
Comparative study on the fluoride release and compressive strength of several F-containing restorative materials

S. E. JI, J. Y. PARK & J. S. KIM
Pediatric Dentistry, Dental hospital, Dankook University, Cheonan, Korea

P01-28  11:27–11:30
Comparison of the bonding properties of five adhesives in primary dentine

D. YANG¹, Y. CUI¹, Z. ZHANG², L. GE² & N. DING²
¹Pediatric Dentistry, Capital Medical University School of Stomatology, Beijing, China; ²Institute of Dentistry, Capital Medical University School of Stomatology, Beijing, China

P01-29  11:30–11:33
Comparing broad spectrum LEDs to conventional LED curing light

S. JUN & S. H. YOO
Pediatric Dentistry, Dankook University Dental Hospital, Cheonan, Korea

P01-30  11:33–11:36
Evaluation of pit and fissure sealant treatment using SR-OCT

J. ASARI¹, T. AIZAWA¹, H. MATSUMISHIKA¹, K. ARAKI¹, T. OKANO¹ & M. INOUE¹
¹Pediatric Dentistry, Showa University School of Dentistry, Tokyo, Japan; ²Radiology, Showa University School of Dentistry, Tokyo, Japan

P01-31  11:36–11:39
Effects of mineral trioxide aggregate on the proliferation and differentiation of human dental pulp stromal cells from permanent and deciduous teeth

Pediatric Dentistry, Yonsei University, Seoul, Korea

P01-32  11:39–11:42
Microhardness and surface roughness of a resin infiltrant under different curing modalities

N. H. MOHAMED, W. L. CHOO & Z. D. KOON
Faculty of Dentistry, University of Malaya, Kuala Lumpur, Malaysia

P01-33  11:42–11:45
The effects of photopolymerization of adhesive on shear bond strength and microleakage of flowable resin restoration

J. E. KANG, Y. K. PARK, S. H. YOO & J. S. KIM
Department of Pediatric Dentistry, School of Dentistry, Dankook University, Cheonan, Korea

P01-34  11:00–11:03
Effect of fluoride varnish containing calcium phosphate compounds on artificial advanced enamel caries in permanent teeth, an in vitro study

Chairpersons: Naichia Teng (Taiwan) Helena Yli-Urpo (Finland)
K. KAMONNARUMETH, N. RITWIROON, N. JUNTAPA, P. KAEWCHAI, M. WONGGARNDEE & P. PUNGCHANCHAIKUL

1Dentistry, Faculty of Dentistry, Khon Kaen University, Khon Kaen, Thailand; 2Pediatric Dentistry, Faculty of Dentistry, Khon Kaen University, Khon Kaen, Thailand

P01-36 11:03–11:06
Effect of calcium hydroxide medicaments on the anti-fracture strength of immature permanent teeth in vitro
Y. ZHAO
Pediatric dentistry, School of Stomatology, Tongji University, Shanghai, China

P01-37 11:06–11:09
The comparison of marginal integrity and demineralization resistance of light-cured glassionomer cement containing nano-sized biphasic calcium phosphate applying chewing simulator
Pediatric Dentistry, Yonsei University, Seoul, Korea

P01-38 11:09–11:12
A comparative evaluation of different luting cements for stainless steel crown retention in primary teeth
P. PANTHRI, N. SRIVASTAVA, V. RANA, V. ADLAKHA & N. KAUSHIK
Department of Paedodontics and Preventive Dentistry, Subharti Dental College, S.V.S.U, Meerut, India

Y. H. YOUN
1Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea; 2Department of Pediatric Dentistry, Children’s Dental Center in Bundang, Seongnam, Korea

P01-41 11:18–11:21
Polyethylene fiber-reinforced post in decayed maxillary primary incisors
H. J. YUN
Pediatric Dentistry, Gangneung-Wonju National University, Gangneung City, Korea

P01-42 11:21–11:24
Effect of plasma arc curing units on the microhardness and microleakage of composite resin
S. B. KIM
Pediatric Dentistry, Gangneung-Wonju National University, Gangneung City, Korea

P01-43 11:24–11:27
The effect of oxygen inhibition on interfacial bonding between composite resin layers
S. M. CHOI, S. E. LEE & Y. C. CHOI
Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea

P01-44 11:27–11:30
Morphological evaluation of prefabricated anterior pediatric zirconia crowns
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P01-45 11:30–11:33
In vitro evaluation of casein phosphopeptide-amorphous calcium phosphate (CPP-ACP) effect on eroded enamel surfaces of primary teeth. A SEM investigation
M. YU & J. LIN
1Department of Pediatric Dentistry, The Affiliated Hospital of Stomatology, Chongqing Medical University, Chongqing, China; 2Chongqing Research Center for Oral Diseases and Biomedical Science, Chongqing, China

P01-40 11:15–11:18
Clinical evaluation of proximal composite restorations with mineral trioxide aggregate (MTA) lining in primary molars
Features of the caries resin infiltration in patients with fixed orthodontics appliances
E. SKATOVA, V. KHRKE, D. KHAKIMOVA, N. KOZLOVA, A. KOZLOVA & K. PETROSYAN
Department of Paediatric Dentistry and Orthodontics, I.M. Sechenov First Moscow State Medical University, Moscow, Russia

Comparative study on morphology of the first primary molars and two types of stainless-steel crowns using three-dimensional scanner
J. H. LEE & H. K. HYUN
Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

Study on the use and utilization scheme of the 3D CBCT (three dimensional cone beam computed tomograph, 3D) in pediatric dentistry
S. Y. AN, G. H. LEE, J. Y. LA & J. H. SONG
Pediatric Dentistry, Dental Hospital of Wonkwang University, Seoul, Korea

Dental maturation in children with anterior cross-bite of a skeletal class III malocclusion
M. S. KIM, J. H. SHIN, S. KIM & U. J. AHN
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

Orthodontic treatment of impacted maxillary incisor: a case report
H. R. KIM, S. H. OH & Y. H. KIM
1Suwan Banseok Dental Clinic, Gwangju, Korea; 2Department of Pediatric Dentistry, Hallym University Sacred Heart Hospital, Anyang-Si, Gyeonggi-Do, Korea; 3Department of Pediatric Dentistry, Hallym University Sacred Heart Hospital, Anyang-Si, Gyeonggi-Do, Republic of Korea

Accuracy of cone-beam computed tomography in predicting the diameter of an unerupted tooth
S. H. KIM, T. S. JEONG & J. Y. KIM
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

Assessment of condylar asymmetry in patients with different occlusion types
Y. KASIMOGLU, E. B. TUNA-INCE, G. MARSAN, B. RAHIM & K. GENCA
Department of Pediatric Dentistry, Istanbul University Faculty of Dentistry, Istanbul, Turkey

Dental maturation in children with class III skeletal malocclusion of mandibular overgrowth type
H. J. RYU, M. S. KIM, J. Y. KIM & S. KIM
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

Ectopic eruption of maxillary canine: a case report
T. I. YEN & L. P. CHEN
Department of Pediatric Dentistry, Chang Gung Memorial Hospital, Taipei, Taiwan

Management of eruption-disturbed mandibular first molar: case reports
H. S. JEON, J. G. KIM, Y. M. YANG & B. J. BAIK
Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

The study of eruption pattern of the maxillary incisor using the cone beam CT
B. W. KWON, B. J. BAIK, J. G. KIM, Y. M. YANG & S. Y. SHIN
Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

Eruption chronology of permanent teeth in Nigerian children
E. OZIEGBE, T. ESAN & T. OYEDELE
Child Dental Health, Faculty of Dentistry, Obafemi Awolowo University, Ile-Ife, Osun, Nigeria

P02-59  14:27–14:30
A trial for compensatory adjustment of mixed dentition analysis
S. Y. LEE, S. KIM & K. H. LEE
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

P02-60  14:30–14:33
Case report of skeletal class III malocclusion in a 5 year old boy with a facial mask treatment
L. ARZAMENDI1, H. GÓMEZ2, A. PERCEVAULT3, M. TORRES2, J. ALVEAIS3, N. CASTILLO3 & A. ALVEAIS4
1Odontology, CISALUD UABC, Tijuana, Mexico; 2Odontology, UABC, Tijuana, Mexico; 3Medicine, CISALUD UABC, Tijuana, Mexico; 4Medicine, UABC, Tijuana, Mexico

P02-61  14:33–14:36
Autotransplantation of impacted maxillary canines: case reports
Y. S. KO1, J. Y. KIM2 & K. T. PARK3
1The Institute of Oral Health Science, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea; 2Department of Pediatric Dentistry, School of Dentistry, Dental Research Institute, Pusan National University, Busan, Korea

P02-62  14:36–14:39
Application of a three-phase orthodontic treatment concept for comprehensive and continual management of growing patients: a report of eight cases
N. ISHITANI1,2, T. MAENO1,2 & Y. YAMASAKI2
1Ishitani Clinic of Pedodontics and Orthodontics, Kagoshima, Japan; 2Department of Pediatric Dentistry, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima, Japan

P02-63  14:39–14:42
Unilateral modified hauteurman appliance in management of ectopically erupting permanent first molar
C. Y. PARK1, J. Y. KIM2 & K. T. PARK3
1The Institute of Oral Health Science, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea; 2Department of Pediatric Dentistry, School of Dentistry, Dental Research Institute, Pusan National University, Busan, Korea

P02-64  14:42–14:45
Roles of globoside (Gb4) during tooth development
Y. CHIBA, M. NARUSE, T. NAKAMURA & S. FUKUMOTO
Division of Pediatric Dentistry, Department of Oral Health and Development Sciences, Tohoku University Graduate School of Dentistry, Sendai, Miyagi, Japan

P02-65  14:45–14:48
Three-dimensional evaluation of impacted maxillary canines using cone beam computed tomography and panoramic radiographs
S. Y. JEON, N. Y. LEE & S. H. LEE
Pediatric Dentistry, Chosun University Dental Hospital, Gwangju, Korea

P02-66  14:48–14:51
Treatment of maxillary canine-first premolar transposition
Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

Growth and Development - Orthodontics 1 (Group 2)

Chairpersons
Jose Hassi (Chile)  Mochamed Rizal (Indonesia)

P02-67  14:00–14:03
Unilateral maxillary molar distalization with the Pendulum appliance followed by fixed orthodontic treatment: a case report
Y. J. KIM, S. M. KIM & N. K. CHOI
Pediatric Dentistry, Graduate School of Dentistry, Chonnam National University, Gwangju, Korea

P02-68  14:03–14:06
Fusion of bilateral central incisor: case report
P02-69 14:06–14:09
Orthodontic traction of the lower deciduous second molar impacted by an odontoma
Y. B. HAN1,2, H. H. JUNG1,2 & B. J. CHOI1
1Department of Pediatric Dentistry, College of Dentistry, Yonsei University, Seoul, Korea; 2Yonsei Well Kids Dental Clinic, Yong In, Korea

P02-70 14:09–14:12
Cyclic mechanical stretching on osteogenic genes expressions of human embryonic stem cells
X. LI1 & M. LI2
1Pediatric Dentistry, West China College of Stomatolgy, Chengdu, Sichuan, Congo; 2Oral and Maxillofacial Surgery, Faculty of Dentistry, National University of Singapore, Singapore, Singapore

P02-71 14:12–14:15
Maxillary labial frenum attachment in mixed dentition
H. J. JEON, Y. M. YANG, J. G. KIM, B. J. BAIK & N. Y. CHO
Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

P02-72 14:15–14:18
The orthodontic treatment for impacted teeth in bone
H. DU, Y. XIA & H. ZHU
Stomatology, Beijing Children’s Hospital, Beijing, China

P02-73 14:18–14:21
Craniofacial changes following Biobloc therapy on class II malocclusion: case report
N. CHO1, H. KIM1, Y. MITANI2, Y. YANG1 & B. BAIK3
1Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea; 2RAMPA Educational Institute, Tokyo, Japan

P02-74 14:21–14:24
Effects of different treatment for primary molar furcation involvement on children malocclusion
L. WANG1,2, J. LIN1,2 & Y. HU1,2
1Department of Pediatric Dentistry, The Affiliated Hospital of Stomatology, Chongqing Medical University, Chongqing, China; 2Department of Pediatric Dentistry, Chongqing Research Center for Oral Diseases and Biomedical Science, Chongqing, China

P02-75 14:24–14:27
Effects of mouth breathing on facial skeletal morphology
M. J. LEE, J. G. KIM, Y. M. YANG, B. J. BAIK & H. J. CHOI
Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

P02-76 14:27–14:30
Three dimensional kinetics of lip and tongue pressure during swallowing
K. MORIZONO, Y. TAKEMOTO, E. INADA, D. MURAKAMI, T. IWASAKI & Y. YAMASAKI
Pediatric Dentistry, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima-shi, Japan

P02-77 14:30–14:33
Gummy smile treatment by using biobloc therapy: case report
J. H. HAN1, H. G. KIM1, Y. MITANI2 & Y. M. YANG1
1Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea; 2RAMPA Educational Institute, Tokyo, Japan

P02-78 14:33–14:36
Investigation of abnormal lingual frenulum in Japanese children
S. MORI1, M. NANBA2, K. ISHII2, H. OKABE2, T. KONDO2, M. IINUMA2 & Y. HAGIWARA2
1Pediatric Dentistry, Mori dental Clinic, Ichinomiya, Japan; 2Pediatric Dentistry, Ban Dental Clinic, Tokyo, Japan; 3Pediatric Dentistry, Ishii Kids Dental Clinic, Kanagawa, Japan; 4Pediatric Dentistry, Okabe Dental Clinic, Tokyo, Japan; 5Pediatric Dentistry, Asahi University Department Pediatric Dent., Gifu, Japan; 6Pediatric Dentistry, Hagiwara Detral Clinic, Ibaragi, Japan

P02-79 14:36–14:39
Conservative treatment of a upper central incisor with poor prognosis
D. Y. LEE, Y. B. HAN, J. S. SONG, S. O. KIM & J. H. LEE
1Department of Pediatric Dentistry, College of Dentistry, Yonsei University, Seoul, Korea; 2Yonsei Well Kids Dental Clinic, Incheon, Korea

Poster Session 3

P02-80 14:39–14:42
Effects of different pacifiers on the early primary dentition in Japanese children
T. YONEZU, T. ARANO-KOJIMA, S. SHINTANI & H. SHIRAI
1Pediatric Dentistry, Tokyo Dental College, Chiba City, Japan; 2Ramse Dental Institute, Tokyo, Japan

P02-81 14:42–14:45
Snoring and oral mouth breathing treatment with the rampa system: case report
H. G. KIM, Y. MITANI & Y. M. YANG
1Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea; 2Rampa Educational Institute, Tokyo, Japan

P02-82 14:45–14:48
Treatment on facial asymmetry with unilateral posterior crossbite with the rampa system and biobloc therapy: case report
H. G. KIM, Y. MITANI & Y. M. YANG
1Department of Pediatric dentistry, Chonbuk National University, Jeonju, Korea; 2Rampa Educational Institute, Tokyo, Japan

P02-83 14:48–14:51
Innovative approaches in leadership creates a successful preventive pediatric dental practice
O. LOWE & J. W. CHEN
1Pediatric Dentistry, Loma Linda University School of Dentistry, Loma Linda, CA, USA; 2Advanced Education Program of Pediatric Dentistry Residency, Loma Linda University School of Dentistry, Loma Linda, CA, USA

P02-84 14:51–14:54
Evaluation of upper airway ventilation conditions in children with different anteroposterior skeletal patterns using fluid-mechanical simulation
T. IWASAKI, D. MURAKAMI, K. MORIZONO, E. KAKUNO, R. KANOMI & Y. YAMASAKI
1Department of Pediatric Dentistry, Kagoshima University Graduate School of Medical and Dental Sciences, Kagoshima City, Kagoshima, Japan; 2Kanomi Dental Office, Himeji City, Hyogo, Japan
P03-90 14:12~14:15
Case report: Freeman sheldon syndrome
Y. S. CHA & J. H. KIM
Pediatric Dentistry, Yonsei University, Wonju Severance Christian Hospital, Wonju/Gangwon, Republic of Korea

P03-91 14:15~14:18
Risk assessment of dental caries for developmental delay patient by using classification and regression trees
N. TENG1,2 & H. HUANG3
1Division of Oral Rehabilitation and Center of Pediatric Dentistry, Department of Dentistry, Taipei Medical University Hospital, Taipei, Taiwan; 2School of Dentistry, College of Oral Medicine, Taipei Medical University, Taipei, Taiwan; 3Department of Dentistry, Shuang Ho Hospital, Taipei Medical University, Taipei, Taiwan

P03-92 14:18~14:21
Dental management of a patient with Ehlers-Danlos syndrome: a case report
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P03-93 14:21~14:24
Impact of 2-year fluoride tablet ingestion on children with disabilities in Taiwan
S. T. HUANG1,2, H. Y. LIU3, H. S. CHEN1,2, S. Y. HSIAO4, C. C. CHEN5, R. S. TANG2 & T. C. CHIANG6
1Division of Dentistry for Children and Disabled, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan; 2Division of Dentistry, Kaohsiung Medical University, Kaohsiung, Taiwan

P03-94 14:24~14:27
Management of the impacted tooth associated with dentigerous cyst in autistic young patients
H. J. YOON, K. R. KIM & J. S. SONG
Department of Pediatric Dentistry, Yonsei University Dental Hospital, Seoul, Korea

P03-95 14:27~14:30
Behavioral management and oral health status of special needs pediatric adolescents at the cerebral palsy center Singapore and preventive roles parents and teachers have for prevention, detection and proper dental treatment
H. J. LEE1,2
1Singapore Dental Health Foundation, Singapore, Singapore; 2Cerebral Palsy Centre, Singapore, Singapore

P03-96 14:30~14:33
Dental management of the pediatric patient with aplastic anemia under general anesthesia: case reports
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P03-97 14:33~14:36
Nasally erupting deciduous incisor in a patient with cleft lip and palate
M. AGBAJE1, B. OGUNKOLA2 & K. OSINAIKE2
1Child Dental Health, Lagos State University College of Medicine, Ikeja/Lagos, Nigeria; 2Child Dental Health, Lagos State University Teaching Hospital, Ikeja/Lagos, Nigeria

P03-98 14:36~14:39
The strategy of behavior management for dental treatment of autistic patient
H. CHO1, J. H. KIM1 & S. H. YOU2
P03-99 14:39–14:42
Relationship between acquisition of mouth-rinsing and the developmental age in autistic children
M. TOMIE, H. NAWA, K. KATO, M. FUJII, T. OKAMOTO & O. FUKUTA
Department of Pediatric Dentistry, School of Dentistry, Aichi-Gakuin University, Nagoya, Japan

P03-100 14:42–14:45
Case report: orthodontic treatment of a visually-impaired patient
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P03-101 14:45–14:48
Factors affecting on dysphasia in Down syndrome
Y. SASAKI1, Y. KONDO1, T. KUBODERA1 & M. TAKAHASHI2
1Department of Pediatric Dentistry, Kanagawa Children’s Medical Center, Yokohama, Japan; 2Department of Hygiene and Oral Health, School of Dentistry Showa University, Japan, Japan

P03-102 14:00–14:03
Management and consideration of adenoleukodystrophy patient in dental treatment
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P03-103 14:03–14:06
Effectiveness of labial arch wire in palatal augmentation prosthesis: a case report in a cerebral palsy child
H. NISHIMATA, T. HOSHINO, Y. KAMASAKI & T. FUJIWARA
Department of Pediatric Dentistry, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan

P03-104 14:06–14:09
Gingival overgrowth in a mucopolysaccharidosis patient and dental management
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P03-105 14:09–14:12
Oral bacterial flora in disabled children and persons with feeding dysfunction
K. SATOH, H. NISHIMATA, Y. KAMASAKI, M. NISHIGUCHI, T. HOSHINO & T. FUJIWARA
Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan

P03-106 14:12–14:15
Dental treatment of a pediatric patient with medulloblastoma; considerations inperiodic MRI taking
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P03-107 14:15–14:18
Correlation between supervisor awareness and oral hygiene level of Down syndrome children
M. SUHARSINI, V. SANDIWANITA & P. ANDREEAS
Pediatric Dentistry, Jakarta, Indonesia, Indonesia

P03-108 14:18–14:21
Orthodontic treatment of a pediatric patient with ADHD
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P03-109 14:21–14:24
Oral health care sequence cards for the special needs
A. AU, D. CHAN, E. LAU, E. TANG, L. TONG & S. WEI
Hong Kong Society of Paediatric Dentistry, Hong Kong, Hong Kong, China

P03-110 14:24–14:27
The study of oral health conditions and dental management of autism spectrum disorder and cerebral palsy patients
Department of Pediatric Dentistry, School of Dentistry, Kyung-Hee University, Seoul, Korea

P03-111 14:27–14:30
Prader-will syndrome- paediatric dentists’ perspective – a case report
R. NAIR, R. DU & C. Y. K. YUNG
Paediatric Dentistry, Prince Philip Dental Hospital, Faculty of Dentistry, Hong Kong, Hong Kong, China

P03-112 14:30–14:33
Dental caries and need for treatment under general anesthesia among cleft lip and palate patients in Northern Finland
V. ANTONEN1, 2, V. LEHTONEN1, S. KOSKINEN1, P. PESONEN1, G. SANDOR1, 2 & L. YLIKONTIOLA1, 2
1Pedodontics, Cariology and Endodontology, Institute of Dentistry, University of Oulu, Oulu, Finland; 2University Hospital, Oulu, Finland

P03-114 14:33–14:36
Perception of dental care in wheelchair bound patients treated in a wheelchair recliner
C. GONZALEZ, S. KRAMER, M. VALLE & V. FAJRELDIN
Pediatric Dentistry, Facultad de Odontología, Universidad de Chile, Santiago, Chile

P03-115 14:36–14:39
Retrospective audit of dental treatment provided to special needs patients under general anaesthesia
C. YIU1 & S. MALLINEN2
1Paediatric Dentistry, Faculty of Dentistry, the University of Hong Kong, Hong Kong, Hong Kong, China; 2Abhiram Institute of Medical Sciences, AP, India

P03-117 14:39–14:42
Prevalence and severity of mucositis in pediatric patients with hematologic disease of Tijuana general hospital
Pediatric Dentistry Postgraduate Program, Universidad Autonoma de Baja California, Tijuana, Baja California, Mexico

P03-118 14:42–14:45
Autotransplantation of ectopic erupted central incisor in encephalopathy patient: 18 month follow up
Yonsei University Dental Hospital, Seoul, Korea

Poster Session 4
16:00–17:30  B2 Hall (1F), COEX

Syndromes and Genetics 1

Chairpersons
Juhyun Lee (Korea)
He Liu (China)

P04-119 16:00–16:03
Oral mucosal neuroma presenting in a patient with Clove syndrome
E. A. AKBARI & H. ZAITOUN
Paediatric Dentistry, Charles Clifford Dental Hospital, Sheffield, UK

P04-120 16:03–16:06
Dentin dysplasia type I in a family: case report
Clinical report of neurofibromatosis type 1 patient
Y. Y. SOH, Y. M. YANG, B. J. BAIK, J. G. KIM, N. Y. CHO & H. JU
Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

Oral and craniofacial manifestations of Ellis-Van Creveld (EVC) syndrome: case series
B. TUNA INCE¹, M. KORUYUCU¹, E. KURKLU², M. CIFTER³, K. GENÇAY¹, F. SEYMEN¹ & B. TUYSUZ⁴
¹Pedodontics, Faculty of Dentistry, Istanbul University, Istanbul, Turkey; ²Oral Surgery and Medicine, Faculty of Dentistry, Istanbul University, Istanbul, Turkey; ³Orthodontics, Faculty of Dentistry, Istanbul University, Istanbul, Turkey; ⁴Pediatric Genetics, Cerrahpasa Medical Faculty, Istanbul University, Istanbul, Turkey

Dental treatment of a pediatric patient with Wolf-Hirschhorn syndrome – case report
S. W. SHIN¹, S. H. YOO¹, S. G. KIM² & J. S. KIM¹
¹Pediatric Dentistry, Dankook University, Cheonan, Korea; ²Anesthesia, Dankook University, Cheonan, Korea

Y. CHANG & J. Y. LIU
Pediatric Dentistry, Taipei Medical University Hospital, Taipei, Taiwan

Comparative gene-expression analysis of periodontal ligament and dental pulp in the human permanent teeth
S. W. LEE¹, H. S. LEE², J. S. SONG¹, H. K. SON¹, H. J. CHOI¹ & S. O. KIM¹
¹Department of Pediatric Dentistry, College of Dentistry, Yonsei University, Seoul, Korea; ²Pediatric Dentistry, Yonsei Well Kids Dental Clinic, Incheon, Korea

Mutations in the COL1A1 and COL1A2 genes and association to dentinogenesis imperfecta (DI)
K. ANDERSSON¹, G. DAHLLÖF¹, E. ÅSTRÖM²,³, A. KINDMARK⁴, K. LINDAHL⁴, O. LJUNGGRE⁴ & B. MALMGREN¹
¹Division of Pediatric Dentistry, Department of Dental Medicine, Karolinska Institutet, Stockholm, Sweden; ²Department of Woman and Child Health, Karolinska Institutet, Stockholm, Sweden; ³BM3, Karolinska University Hospital, Stockholm, Sweden; ⁴Department of Medical Sciences, Metabolic Bone Diseases, Uppsala University, Uppsala, Sweden

Dental management of patient with hunter syndrome (mucopolysaccharidosis type II): a case report
K. S. OH, J. G. KIM, Y. M. YANG, B. J. BAIK & H. J. CHOI
Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

Periodontal lesions in children with Papillon-Lefèvre syndrome (inherited keratosis Palmaris et Plantaris, ICD-10q82.8)
O. KOVYLINA & T. RZAEVA
Paediatric Dentistry Department, Moscow State University of Medicine and Dentistry, Moscow, Russia

Treatment of dysphagia by using the chin-cup in nemaline myopathy patient
Pediatric Dentistry, Yonsei University Dental Hospital, Seoul, Korea

Intractable ulcerating enterocolitis
I. Y. CHOI, B. J. CHOI, J. H. LEE, J. S. SONG & H. J. CHOI
Axenfeld-Rieger syndrome in three siblings: a case report
S. SAHARUDIN¹, R. M. ROWI², S. ISMAIL³ & Z. MAHMOOD¹
¹Paediatric Dentistry, School of Dental Sciences, Health Campus, Universiti Sains Malaysia, Kelantan, Malaysia; ²Paediatric Genetics/Metabolic, School of Medical Sciences, Health Campus, Universiti Sains Malaysia, Kelantan, Malaysia; ³Ophthalmology, School of Medical Sciences, Health Campus, Universiti Sains Malaysia, Kelantan, Malaysia

Achondroplasia: clinical features and dental considerations
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

Syndromic amelogenesis imperfecta in Morocco: a cohort study
E. A. MUSTAPHA¹, C. IMANE², R. ILHAM², C. E. SIHAM², A. RACHIDA¹ & S. ABDELAZIZ²
¹Department of Pediatric Dentistry, School of Dentistry, University of Mohammed V – Souissi (UM5S), Rabat, Morocco; ²Department of Medical Genetics, National Institute of Hygiene, University Mohammed V – Souissi (UM5S), Rabat, Morocco

Cherubism: a case report
S. H. PARK, N. Y. LEE & S. H. LEE
College of Dentistry, Chosun University, Gwangju, Korea

Case report of faconi anemia in Saudi Arabia
H. BANGAR & M. ALSILMI
Dental, Prince Sultan Medical Military City, Riyadh, Saudi Arabia

Patient reported outcome measures (PROMs) of patients/carers attending for dental procedures under general anaesthesia in a paediatric dental department
P. S. ANAND¹, M. A. ABDULLATIF¹, P. ASHLEY¹ & T. KANDIAH¹
¹Paediatric Dentistry, Eastman Dental Institute and Hospital, London, UK; ²Oral & Facial Unit, Surrey and Sussex Healthcare NHS Trust, Surrey, UK

The Hall technique for carious primary molars: a case report
S. G. YU & S. KIM
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

Are we compliant with nice guidance in paediatric dental IV sedation?
P. ANAND¹, U. CHAUDHRY¹ & M. PRATT²
¹Paediatric Dentistry, Eastman Dental Institute and Hospital, London, UK; ²Maxillofacial Surgery, Queen Victoria Hospital, East Grinstead, West Sussex, UK

Comparative efficacy of 5% emla cream and 20% benzocaine gel during topical anesthesia
D. W. LEE, Y. M. YANG, B. J. BAIK, J. G. KIM & N. Y. CHO
Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

Recovery from nitrous oxide/oxygen inhalation sedation with either 100% oxygen or room air
S. CHANSRI, P. CHOMPU INWAI & S. KULPAVA-ROPAS
Mesiodens extraction under sevoflurane sedation

S. W. SHIN1, S. H. YOO1, J. S. KIM1 & S. O. KIM2
1Pediatric Dentistry, Dankook University, Cheonan, Korea; 2Anesthesiology, Dankook University, Cheonan, Korea

Children and parents attitudes towards dentist appearance and the relationship with dental anxiety

H. J. TONG, J. KHONG, C. ONG, A. NG, Y. LIN & C. HONG
Faculty of Dentistry, National University of Singapore, Singapore, Singapore

Effects of noise on the behavior and vital signs during pediatric dental sedation

Wonkwang University, Iksan-si/Jeollabuk-do, Korea

Assessment of noise in pediatric dental clinics

B. M. KWON, B. R. JEONG, T. S. JEONG & J. Y. SONG
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

Efficacy of new distraction techniques during dental treatment

F. SALAMA1, R. A. NATSHA2 & F. ABDELMEGID1
1Pediatric Dentistry and Orthodontics, King Saud University, Riyadh, Saudi Arabia; 2Dentistry, Security Forces Hospital, Riyadh, Saudi Arabia

Sevoflurane sedation in pediatric patients using a ETCO2 nasal cannula (Hudson RCI®, Teleflex, USA)

S. E. JI1, J. S. KIM1 & S. O. KIM2
1Pediatric Dentistry, Dental Hospital, Dankook University, Cheonan, Korea; 2Anesthesiology, Dental Hospital, Dankook University, Cheonan, Korea

Sevoflurane sedation for dental treatment of patient with croup: A case report

M. OTSUKA, M. KIKUCHI, M. FUJIIWARA, N. SAKAI & Y. ASADA
School of Dental Medicine, Tsurumi University, Kanagawa, Japan
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

Dental Anxiety and Behavioral Management (Group 2)

Chairpersons
Jan Kühnisch (Germany)
Mitsuro Tanaka (Japan)

P05-155 16:00–16:03
Trial of role-playing using treatment leaflets to child patients and their guardians by students of department of dentistry
K. MORIKAWA & K. MAKI
Division of Developmental Stomatognathic Function Science, Kyushu Dental University, Kitakyusyu, Japan

P05-156 16:03–16:06
A survey of dental treatment under outpatient general anesthesia in department of pediatric dentistry and clinic for disabled at Yonsei university dental hospital
D. W. LEE1,2

1Department of Pediatric Dentistry, College of Dentistry, Yonsei University, Seoul, Korea; 2Department of Pediatric Dentistry, Yonsei Well Kids Dental Clinic, Korea, Korea

P05-157 16:06–16:09
Bruxism and childhood stress: are they related?
A. SETIAWAN & Y. NONONG
Pediatric Dentistry, Faculty of Dentistry Universities Padjadjaran, Bandung, Indonesia

P05-158 16:09–16:12
An alternative technique of local anesthesia for reducing pain during needle insertion
M. H. KIM, S. H. LEE & N. Y. LEE
Pediatric dentistry, Chosun University Dental Hospital, Gwangju, Korea

P05-159 16:12–16:15
Pediatric behavior management in the dental clinic made easy
J. SHAH1, R. BONTHALA2 & S. NEKKANTI2

1Manipal College of Dental Sciences, Manipal, India; 2Preventive and Pediatric Dentistry, Manipal College of Dental Sciences, India

P05-160 16:15–16:18
The analgesic effect of nitrous oxide/oxygen inhalation
A. B. GRØNBÆK1,2, P. SVENSSON3, M. VÆTH4, I. HANSEN5 & S. POULSEN6

1Section for Pediatric Dentistry, Health, Department of Dentistry, Aarhus University, Aarhus, Denmark; 2Municipal Dental Service, Denmark, Denmark; 3Section for Clinical Oral Physiology, Health, Department of Dentistry, Aarhus University, Denmark, Denmark; 4Section for Biostatistics, Health, Department of Public Health, Aarhus University, Denmark, Denmark

P05-161 16:18–16:21
Sevoflurane inhalation sedation for patients with pulmonary arterial hypertension
S. I. CHI1, J. S. KIM1 & S. O. KIM2

1Department of Pediatric Dentistry, Dankook University, Dental Hospital, Cheonan, Korea; 2Department of Anesthesiology, Dankook University, Dental Hospital, Cheonan, Korea

P05-163 16:21–16:24
Parental anxiety-level during the dental visit of their children
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P05-164 16:24–16:27
Dental anxiety related to DMFT and other parents’ and children’s factors in 4–12 years old in Latvia
L. KRONINA1, R. CARE2 & M. RASCEVSKA3

1Department of Paediatric Dentistry, Institute of Stomatology, Riga Stradins University, Riga, Latvia; 2Department of Conservative Dentistry, Riga Stradins University, Latvia; 3Faculty of Education, Psychology and Arts, University of Latvia, Riga, Latvia

P05-165 16:27–16:30
A survey of general anesthesia, sevoflurane sedation and intravenous sedation in Chungnam dental clinic for the disabled
J. E. KANG1 & S. O. KIM2

1Department of Paediatric Dentistry, Chungnam University Dental Hospital, Daejeon, South Korea; 2Department of Anesthesiology, Chungnam University Dental Hospital, Daejeon, South Korea
P05-166 16:30–16:33
Clinical characteristics in pediatric dental outpatients using sevoflurane inhalation with laryngeal mask for general anesthesia
Y. HU1,2, L. WANG1,2 & Q. LIU1,2
1Pediatric Dentistry, Affiliated Hospital of Stomatology, Chongqing Medical University, Chongqing, China; 2Department of Pediatric Dentistry, Chongqing Research Center for Oral Diseases and Biomedical Science, Chongqing, China

P05-167 16:33–16:36
Factors associated with paediatric dentists’ perception of dental pain in young children: a mixed-methods study
A. DAHER1, M. COSTA2 & L. R. COSTA1
1Federal University of Goias, Goiania/Goias, Brazil; 2Private practice, Goiania/Goias, Brazil

P05-168 16:36–16:39
Pain during dental exam in children previously admitted to a neonatal intensive care unit: a case–control study
A. P. MUNDIM1, G. MACHADO1, P. FARIÁ1, S. PAIVA1, M. MATERANE1 & L. COSTA6
1Dentistry Graduate Program, Federal University of Goias (UFG), Goiania/Goias, Brazil; 2Pediatric Dentistry Graduate Program, Federal University of Minas Gerais (UFMG), Brazil; 3Faculty of Dentistry, UFMG, Belo Horizonte/Minas Gerais, Brazil; 4Dental School, UFG, Brazil; 5Faculty of Dentistry, UFG, Belo Horizonte/Minas Gerais, Brazil

P05-169 16:39–16:42
Comparison of dental treatment of preschoolers with pharmacological and non-pharmacological behavior management
T. PAPRUZHENKA1 & A. SENTYABRYOVA2
1Department of Paediatric Dentistry, Belarus State Medical University, Minsk, Belarus; 2Bebident, Skydent Clinic, Minsk, Belarus

P05-170 16:42–16:45
Comparison of clinical effects and satisfactions between two administrative techniques of nitrous oxide/oxygen inhalation sedation
S. KULPAVAROPAS, P. CHOMPU-INWAI & S. CHANSRI
Orthodontics and Pediatrics Dentistry, Faculty of Dentistry, Chiangmai University, Chiangmai, Thailand

P05-171 16:45–16:48
Application of the laryngeal mask airway for emergent airway management during dental treatment
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P05-173 16:48–16:51
Analysis of related factors for dental fear in some middle school students in Cheongju-city
Y. S. SHIM1; A. H. KIM2 & S. Y. AN2
1Dental Hygiene, Cheongju University, Seoul, Korea; 2Preventive Dentistry, Chosun University Dental Hospital, Seoul, Korea; 3Pediatric Dentistry, Wonkwang University, Seoul, Korea

P05-174 16:51–16:54
Case report: intravenous sedation using target controlled infusion of propofol for uncooperative children
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea
Poster Presentations – June 14 (Friday)

Poster Session 6

11:30-12:30  B2 Hall (1F), COEX

**Syndromes and Genetics 2 (Group 1)**

Chairpersons  Andre Saadia (Mexico)
               Margaretha Suharsini (Indonesia)

P06-175  11:30-11:33

**Cleidocranial dysplasia: dental considerations in young patients**
S. I. LEE, K. J. KIM, T. J. SHIN, H. K. HYUN, Y. J.
KIM, C. C. KIM & J. W. KIM
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P06-176  11:33-11:36

**Application of partial dentures for a case of early exfoliation of multiple primary teeth due to hypophosphatasia**
R. OKAWA & K. NAKANO
Department of Pediatric Dentistry, Osaka University Graduate School of Dentistry, Osaka, Japan

P06-177  11:36-11:39

**Dental management of patient with fibro dysplasia ossificans progressiva: a case report**
Y. S. KWEON, T. J. SHIN, H. K. HYUN, Y. J. KIM, S.
H. LEE, C. C. KIM & J. W. KIM
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P06-179  11:39-11:42

**Dental treatment of the patient with Russel-Silver syndrome: a case report**
LEE, C. C. KIM & K. T. JANG
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P06-181  11:45-11:48

**Cleidocranial dysplasia: clinical features, genetic and cytology cytologic analysis**
X. J. WANG, L. Z. WU & Y. ZHANG
Department of Pediatric Dentistry, School of Stomatology, Fourth Military Medical University, Xi’an, China

P06-182  11:48-11:51

**Dentinogenesis imperfecta**
A. T. LEHTONEN, M. L. LAITALA, S. KOSKINEN & V. ANTTONEN
1Institute of Dentistry, University of Oulu, Oulu, Finland; 2Oulu University Hospital, Oulu, Finland

P06-183  11:51-11:54

**Cyclic neutropenia presenting as recurrent oral ulcers and periodontitis**
Y. CHEN, L. FANG & X. YANG
Pediatric Dentistry, Affiliated Hospital of Stomatology, Zhejiang University, Zhejiang, China

P06-184  11:54-11:57

**Dental alterations of hypophosphatemic vitamin Dresistant rickets**
J. M. SU, Y. LI & G. LI
1Stomatology, Affiliated children’s hospital, School of Medicine, Zhejiang University, Hangzhou, China; 2Endocrine, Affiliated children’s hospital, School of Medicine, Zhejiang University, Hangzhou, China; 3College of Mechatronics Engineering, China Jiliang University, Hangzhou, China

Poster Session 6

11:30-12:30  B2 Hall (1F), COEX

**Syndromes and Genetics 2 (Group 2)**

Chairpersons  Nik Kantaputra (Thailand)
               Guangtai Song (China)

P06-186  11:30-11:33

**Oral characteristics of infants younger than 4 years old with systemic pathologies served at Luis Calvo Mackena hospital (HLCM)**
M. LIPARI, A. VERA, G. DE LA FUENTE & A.
MUNOZ

Paediatric Dentistry, Faculty of Dentistry, The University of Hong Kong, Hong Kong, Hong Kong, China
Abnormal root morphology of mandibular premolars with Turner syndrome: a case report

S. M. IM1, S. Y. SHIN2, Y. M. YANG2, J. G. KIM2, B. J. BAIK2 & K. S. MIN3

1Department of Pediatric Dentistry, Sun Dental Hospital, Daejeon, Korea; 2Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea; 3Department of Conservative Dentistry, Chonbuk National University, Jeonju, Korea

Ectodermal dysplasia with anodontia: a case report

Y. NG & C. K. YIU

Discipline of Pediatric Dentistry and Orthodontics, Faculty of Dentistry, The University of Hong Kong, Hong Kong, Hong Kong, China

Dental treatment of the patient with Axenfeld-Rieger syndrome: a case report


Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

Oral and craniofacial manifestations and two novel missense mutations of the NTRK1 gene identified in the patient with congenital insensitivity to pain with anhidrosis

K. XUAN, L. WEN, L. GAO & Y. BAI

Department of Pediatric Dentistry, Fourth Military Medical University, School of Stomatology, Xi’an/ Shaanxi Province, China

Long QT syndrome: case report of dental treatment under target controlled infusion of propofol

M. S. PARK, K. J. KIM, T. J. SHIN, Y. J. KIM, J. W. KIM, S. H. LEE & C. C. KIM

Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

A case report: dental treatment of the child with hemifacial microsomia


Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

Moebius syndrome: a case report

H. Y. KIM

Pediatric Dentistry, FM Dental Clinic, Dae Gu, Korea

Prevalence and pattern of hypodontia in a group of Turkish children

B. GOKKAYA, N. GULMAN & B. KARGUL

Pediatric Dentistry, Marmara University, Istanbul, Turkey

Prevalence and etiology of molar-incisor hypomineralization (MIH) in Turkish children

M. KORUYUCU1, S. OZEL2 & B. TUNA-INCE3

1Pedodontics, Faculty of Dentistry, Istanbul University, Istanbul, Turkey; 2Biostatistics and Medical Informatics, Faculty of Medicine, Istanbul University, Istanbul, Turkey; 3Pedodontics, Faculty of Dentistry, Istanbul University, Istanbul, Turkey; 4Pedodontics, Faculty of Dentistry, Istanbul University, Istanbul, Turkey; 5Pedodontics, Faculty of Dentistry, Istanbul University, Istanbul, Turkey; 6Pedodontics, Faculty of Dentistry, Istanbul University, Istanbul, Turkey; 7Pedodontics, Faculty of Dentistry, Istanbul University, Istanbul, Turkey

Prevalence and etiology of molar-incisor hypomineralization (MIH) in Turkish children

M. KORUYUCU, S. OZEL & B. TUNA-INCE

Pedodontics, Faculty of Dentistry, Istanbul University, Istanbul, Turkey; Biostatistics and Medical Informatics, Faculty of Medicine, Istanbul University, Istanbul, Turkey

Prevalence and etiology of molar-incisor hypomineralization (MIH) in Turkish children

M. KORUYUCU1, S. OZEL2 & B. TUNA-INCE3

1Pedodontics, Faculty of Dentistry, Istanbul University, Istanbul, Turkey; 2Biostatistics and Medical Informatics, Faculty of Medicine, Istanbul University, Istanbul, Turkey; 3Pedodontics, Faculty of Dentistry, Istanbul University, Istanbul, Turkey
The impact factor of dental health practices the aboriginal children in Taiwan

T. C. CHIANG\textsuperscript{1}, H. J. HSIEH\textsuperscript{1}, S. T. HUANG\textsuperscript{1,2} & C. C. TSAI\textsuperscript{1}

\textsuperscript{1}Department of Oral Hygiene, Kaohsiung Medical University, Taiwan, Taiwan; \textsuperscript{2}Division of Dentistry for Children and Disabled, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan; \textsuperscript{3}College Oral Medicine, Chung Shan Medical University, Taiwan, Taiwan

P07-200  11:42–11:45

Caries intensity in school children of 6–16 years old in Novosibirsk

C. TAMARA\textsuperscript{1}, D. LUDMILA\textsuperscript{2} & C. ILYA\textsuperscript{1}

\textsuperscript{1}Department of Pediatric Dentistry, Municipal Childrens Dental Clinic, Novosibirsk State Medical University, Novosibirsk, Russia; \textsuperscript{2}Department of Pediatric Dentistry, Moscow State Medical Dental University, Russia

P07-203  11:45–11:48

Prevalence of Malocclusion and its associated factors among preschool children in Xi’an, China

X. GE, Z. F. ZHOU, L. Z. WU & X. J. WANG

Department of Pediatric Dentistry, School of Stomatology, Fourth Military Medical University, Xi’an, China

P07-204  11:58–11:51

Investigation of molar incisor hypomineralization (MIH) in Japanese children

A. NAKAUCHI\textsuperscript{1}, A. SAKURAI\textsuperscript{1}, H. IMAI\textsuperscript{1}, Y. ARAI\textsuperscript{1}, K. EGI\textsuperscript{1}, S. SUGIYAMA\textsuperscript{1,3} & S. SHINTANI\textsuperscript{1}

\textsuperscript{1}Pediatric Dentistry, Tokyo Dental College, Chiba, Japan; \textsuperscript{2}Sugiyama Dental Clinic, Chiba, Japan; \textsuperscript{3}Yachiyo City Dental Association, Chiba, Japan

P07-205  11:51–11:54

The prevalence and risk factors of severe early childhood caries in Nanjing

C. CAI & L. ZHU

Department of Paediatric Dentistry, College of Stomatology, Nanjing Medical University, Nanjing/Jiangsu Province, China

P07-206  11:54–11:57

Trends in anterior open bite in Brazilian preschool children

C. GRADELLA\textsuperscript{1}, L. OLIVEIRA\textsuperscript{2}, M. G. RAMOS\textsuperscript{3} & M. BÖNECKER\textsuperscript{1,2}

\textsuperscript{1}Paediatric Dentistry, Pediatric Dentistry Association Amapá – Brazil, Macapá-Amapá, Brazil; \textsuperscript{2}School of Dentistry, Faculdade S–ao Leopoldo Mandic, Campinas, São Paulo, Brazil; \textsuperscript{3}Department of Orthodontics and Pediatric Dentistry, Faculty of Dentistry, Universidade de São Paulo, São Paulo, São Paulo, Brazil

P07-207  11:57–12:00

An epidemiologic study on the pediatric patients in department of pediatric dentistry, Wonkwang University Sanbon dental hospital for last 5 years (2007–2011)

Y. S. SHIM\textsuperscript{1}, G. H. LEE\textsuperscript{2}, J. Y. LA\textsuperscript{2}, J. H. SONG\textsuperscript{2} & S. Y. AN\textsuperscript{2}

\textsuperscript{1}Department of Dental Hygiene, Cheoung Ju University, Cheoung- Ju, Korea; \textsuperscript{2}Dental Hospital of Wonkwang University, Ik-San/ Jeollabuk-Do, Korea

P07-208  12:00–12:03

Retrospective study of oral lesions in Brazilian children and adolescents

L. B. OLIVEIRA\textsuperscript{1}, D. M. SOSSMEIER\textsuperscript{2}, F. P. SANTOS\textsuperscript{3}, J. L. C. JUNQUEIRA\textsuperscript{2}, N. S. DE ARAUJO\textsuperscript{1} & V. C. DE ARAUJO\textsuperscript{3}

\textsuperscript{1}Paediatric Dentistry, Sao Leopoldo Mandic, School of Dentistry, Campinas/Sao Paulo, Brazil; \textsuperscript{2}Oral Pathology, Sao Leopoldo Mandic Institute and Research Center, Campinas/Sao Paulo, Brazil; \textsuperscript{3}Sao Leopoldo Mandic Institute and Research Center, Campinas/Sao Paulo, Brazil

P07-209  12:03–12:06

Survey and analyze of knowledge of Shanghai primary schoolchildren’s parents about children’s dental trauma

G. LUO\textsuperscript{1} & J. WANG\textsuperscript{1}

\textsuperscript{1}Pediatric and Preventive Dentistry Department, Shanghai Stomatological Disease Center, Shanghai, China; \textsuperscript{2}Pediatric and Preventive Dentistry Department, Shanghai Jiaotong University, Shanghai, China

P07-210  12:06–12:09

Trends in traumatic dental injuries in preschool children in a Brazilian City between 2002 and 2012
Poster Session 8

11:30-12:30 B2 Hall (1F), COEX

Cariology 1 (Group 1)
Chairpersons: Bernadette Drummond (New Zealand)
Hong-Keun Hyun (Korea)

P08-212 11:30~11:33
The relationship between dietary habits and caries among 6-9-year-old Taiwanese aboriginal children
Q. Y. LOW¹, H. J. HSIEH², S. T. HUANG¹,³, M. J. CHIOU⁴ & C. T. LIAO¹
¹Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan; ²School of Dentistry, College of Dental Medicine, Kaohsiung Medical University, Taiwan, Taiwan; ³Division of Dentistry for Children and Disabled, Department of Dentistry, Kaohsiung Medical University, Kaohsiung, Taiwan; ⁴Taoyuan District Public Health Center, Kaohsiung City Government, Taiwan, Taiwan

P08-213 11:33~11:36
The effectiveness of therapeutic sealing on proximal surfaces according to lesion depth
G. L. LEE & S. KIM
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

P08-214 11:36~11:39
Comparisons of selective media for the recovery of Streptococcus mutans: differentiation reliability and recovery rate
C. W. YEN¹, N. C. CHI¹, S. T. HUANG¹,³, C. P. KUO² & C. H. LAI³
¹Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung City, Taiwan; ²Department of Dentistry, Center for Special Needs Dentistry, Kaohsiung Medical University Hospital, Taiwan, Taiwan; ³School of Dentistry, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung City, Taiwan; ⁴Research Center for Anaerobic and Oral Microbiology, College of Dental Medicine, Kaohsiung Medical University, Taiwan, Taiwan
1Department of Oral Hygiene, Kaohsiung Medical University, Kaohsiung, Taiwan; 2School of Dentistry, Kaohsiung Medical University, Taiwan, Taiwan; 3Dentistry Department, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan

P08-219 11:51~11:54
Distribution and transmission of *Streptococcus mutans* among children and their mothers
H. J. SONG, J. G. KIM, Y. M. YANG, B. J. BAIK & H. J. CHOI
Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

P08-220 11:54~11:57
Changes in dental caries experience and treatment needs in preschool children in northwest Russia between 1997 and 2007
M. GORBATOVA, M. PASTBIN, A. SIMAKOVA, L. GORBATOVA & A. GRJIBOVSKI
1International School of Public Health, Northern State Medical University, Arkhangelsk, Russia; 2Department of Paediatric Dentistry, Northern State Medical University, Arkhangelsk, Russia; 3Department of Prosthetic Dentistry, Northern State Medical University, Arkhangelsk, Russia; 4Department of International Public Health, Norwegian Institute of Public Health, Oslo, Norway

P08-221 11:30~11:33
Rapid detection of *S. mutans* surface antigen I/II using a sensitive monoclonal anti-Ag I/II antibody by ELISA
M. A. KIM, B. J. BAIK, Y. M. YANG, J. G. KIM & H. J. CHOI
Department of Pediatric dentistry, Chonbuk National University, Jeonju, Korea

P08-222 11:33~11:36
Caries experience among 2–3 years-old children in seven urban settings in Northwest Russia
M. PASTBIN, I. PASTBINA, M. GORBATOVA, L. GORBATOVA & A. GRJIBOVSKI

P08-223 11:36~11:39
Development of a monoclonal antibody against glucosyltransferase D of *Streptococcus mutans* GS 5
M. A. KIM, Y. M. YANG & J. G. KIM
Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

P08-224 11:39~11:42
Dental caries and oral health-related quality of life among preschool children in Northwest Russia
M. PASTBIN, I. PASTBINA, M. GORBATOVA, L. GORBATOVA & A. GRJIBOVSKI
1Department of Paediatric dentistry, Northern State Medical University, Arkhangelsk, Russia; 2Ministry of Health and Social Development of the Arkhangelsk region, Arkhangelsk, Russia; 3International School of Public Health, Northern State Medical University, Arkhangelsk, Russia; 4Department of International Public Health, Norwegian Institute of Public Health, Oslo, Norway

P08-225 11:42~11:45
The photodynamic therapy on *Streptococcus mutans* biofilms using erythrosine and dental halogen curing unit
Y. H. LEE
Pediatric Dentistry, Gangneung-Wonju National University, Gangneung, Korea

P08-226 11:45~11:48
The survival rate of dental restorations in children with early child caries treated under general anesthesia
L. DROBOTKO, A. SEDOYKIN, L. KISELNIKOVA & K. FEDOTOV
Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Moscow, Russia

P08-227 11:48~11:51
Enhancement of photodynamic bactericidal effect of erythrosine against *Streptococcus mutans* by subminimal bactericidal concentration of chlorhexidine digluconate

J. C. PARK, H. W. PARK, J. H. LEE & H. W. SEO
Pediatric Dentistry, Gangneung-Wonju National University, Gangneung, Korea

**P08-229** 11:51–11:54

The prevalence of white spot lesions on the mesial surfaces of the first molars in children and minimal invasive approach – a pilot study

E. Y. KIM, G. L. LEE & S. KIM
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

**P08-230** 11:54–11:57

How to increase effectiveness of primary molar restorations with stainless steel crowns (SSCs) in children treated under general anesthesia

A. SEDOYKIN, K. FEDOTOV, L. KISELNIKOVA & L. DROBOTKO
Paediatric Dentistry, Moscow State University of Medicine and Dentistry, Moscow, Russia

**P08-231** 11:57–12:00

Infiltration of adhesive resin according to pretreatment on a proximal early caries lesion

J. Y. KIM & S. KIM
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

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**Poster Session 9**

14:00-15:30  B2 Hall (1F), COEX

**Dental Trauma (Group 1)**

Chairpersons

Sung Chul Choi (Korea)
Betty Mok (Singapore)

**P09-232** 14:00–14:03

Management of two types of crown fractures in an 11 years old boy: a case report

M. MADOUH & M. DUGGAL
Children's Dentistry, Leeds Dental Institute, Leeds, UK

**P09-233** 14:03–14:06

Modified wire splinting for lateral luxation

D. S. LEE & S. H. LEE
Seomyeon Children’s Dental Clinic, Busan, Korea

**P09-234** 14:06–14:09

Case report: dental management of two cases of severe intrusion

M. BATAINEH & M. DUGGAL
Department of Paediatric Dentistry, Leeds Dental Institute, Leeds, UK

**P09-235** 14:09–14:12

Alveolar bone loss after the early loss of upper central incisor in growing children

A. CHOI, H. K. SON, H. J. CHOI, S. O. KIM & B. J. CHOI
Department of Pediatric dentistry, College of Dentistry, Yonsei University, Seoul, Korea

**P09-236** 14:12–14:15

Anterior permanent teeth trauma prevalence among grade 6–12 students in Abu Dhabi, United Arab Emirates

W. A. JANABI
AlDahfra Dental center, AHS/Seha, Abu Dhabi, United Arab Emirates

**P09-237** 14:15–14:18

Immobilization of lower mandibular alveolar bone fracture using resin-wire open cap splint

Department of Pediatric Dentistry, College of Dentistry, Yonsei University, Seoul, Korea

**P09-238** 14:18–14:21

Management of vertical and diagonal molar fracture: a case report

A. YILMAZ, G. POLAT & C. ALTUN
Department of Pediatric Dentistry, Center of Dental Sciences, Gulhane Medical Academy, Ankara, Turkey

**P09-239** 14:21–14:24

Root malformation of permanent incisors due to alveolar bone fracture

J. W. HWANG, E. H. JI & J. S. SONG
Department of Pediatric Dentistry, Yonsei University Dental Hospital, Seoul, Korea

**P09-240** 14:24–14:27
Dental trauma of immature permanent upper central incisors of a 9 year old boy
L. PETROVSKIY
Pediatric Dentistry, Pediatric Dentistry Dental Fantasy, Moscow, Russia

P09-241 14:27–14:30
Dental considerations in tooth discoloration associated with triple antibiotic therapy: case reports
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P09-243 14:30–14:33
Timing of autotransplantation: follow-up results of immature premolars
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P09-244 14:33–14:36
Management of avulsed teeth; the knowledge of general dentists working at public health sector
O. RHOUMA
Department of Paediatric Dentistry, School of Dentistry, The University of Zawia, Zawia, Libya

P09-245 14:36–14:39
Effect of epigallocatechin-3-gallate on inflammation of delay replanted rat molars
E. Y. KIM, S. C. CHOI & Y. C. CHOI
Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea

Dental Trauma (Group 2)

Chairpersons
Hyun Woo Sea (Korea)
Osama El Shahawy (Egypt)

P09-246 14:00–14:03
A study of optimal concentration of zoledronate in replantation of rat molar
J. Y. HWANG, K. C. KIM & S. C. CHOI
Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea

P09-247 14:03–14:06
Comparison study of green tea extract, tap water, HBSS and milk as a storage medium for avulsed rat molars
Y. J. CHUNG, J. H. PARK & S. C. CHOI
Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea

P09-248 14:06–14:09
Direct pulp capping with homemade MTA- a case report with a 10-year follow-up
J. H. WOO¹² & J. LEE¹²
¹Seoul CDC Dental Clinic, Seoul, Korea; ²Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P09-251 14:09–14:12
Impact of treated/untreated traumatic dental injuries on quality of life among Brazilian schoolchildren
J. RAMOS-JORGE¹², S. M. PAIVA¹, J. TATAOUNOFF³, I. A. PORDEUS¹, L. S. MARQUES¹ & M. L. RAMOS-JORGE³
¹Department of Pediatric Dentistry and Orthodontics, Universidade Federal de Minas Gerais, Belo Horizonte, Brazil; ²Department of Pediatric Dentistry and Orthodontics, Universidade Vale do Rio Verde, Três Corações, Brazil; ³Department of Pediatric Dentistry and Orthodontics, Universidade Federal dos Vales do Jequitinhonha e Mucuri, Diamantina, Brazil

P09-252 14:12–14:15
Evaluation of prognosis in intrusive luxation through using different treatment methods
Y. GONG
Emergency, Capital Medical University, Beijing Stomatological Hospital, Beijing, China

P09-253 14:15–14:18
Autotransplantation of tooth with immature root formation
J. S. JUNG
Pediatric Dentistry, Gangneung-Wonju National University Dental Hospital, Gangneung/Gangwon-do, Korea

P09-254 14:18–14:21
Analyses of dental injuries of anterior teeth in school aged children in west China
R. YANG, F. XU & J. ZOU
P09-255 14:21–14:24
The factors affecting to long-term prognosis in traumatized permanent incisors
K. M. HWANG
Isem Children's Dental Clinic, Daegu, Korea

P09-256 14:24–14:27
Immediate re-implantation: case report and follow-up
A. VELIZ¹, A. RETI¹, A. SALINAS² & M. TAPIA¹
¹Del Nino y ortopedia Dento Maxilar, Facultad de Odontología, Universidad de Chile, Santiago, Chile; ²Odontología Conservadora, Facultad de Odontología, Universidad de Chile, Santiago, Chile

P09-257 14:27–14:30
Decoronation for the management of infraoccluded permanent incisors
S. Y. BANG
Pediatric, Mir Dental Clinic, Pohang, Korea

P09-258 14:30–14:33
The histological and immunohistochemical manifestation of the immature anterior teeth after pulpotomy
R. JIA¹ & S. ZHENG²
¹Department of Pediatric Dentistry, Capital Medical University Beijing Stomatological Hospital, Beijing, China; ²Department of Pediatric Dentistry, Hospital of Stomatology, Peking University School, Beijing, China

P09-260 14:33–14:36
Pulp revascularization of immature second premolars with dens evaginatus: case report
H. S. LEE, Y. J. KIM, H. J. KIM & S. H. NAM
Pediatric Dentistry, Kyungpook National University, School of Dentistry, Daegu, Korea

P10-261 14:00–14:03
Early childhood caries (ECC)
D. YUMASHEV¹, N. HELENA¹ & A. GETSMAN²
¹Dental Fantasy Pediatric Dentistry, Russia; ²Department of Pediatric Dentistry, Pediatric Clinic, Moscow, Russia

P10-263 14:03–14:06
Relationship between total streptococcal population and caries in preschool children
Y. UCHIKAWA, S. Mitsui, T. IWASAKI & T. SHIRASE
Pediatric Dentistry, Nippon Dental University Hospital, Chiyodaku/Tokyo, Japan

P10-265 14:06–14:09
Fluoride retention in the mouth after fluoride rinse in children with unilateral cleft lip
O. FUKUTA, T. NAKANO & T. TOKURA
Department of Pediatric Dentistry, School of Dentistry, Aichi- Gakuin University, Nagoya, Japan

P10-266 14:09–14:12
The treatment of MIH: restorative approach
M. S. KIM, Y. J. KIM, H. J. KIM & S. H. NAM
Pediatric Dentistry, School of Dentistry, Kyungpook National University, Daegu, Korea

P10-267 14:12–14:15
Remineralizing effect of OHOLV on the early enamel caries in vitro
J. ZOU¹, X. SUI & Y. LIU¹
¹Pediatric Dentistry, West China School of Stomatology, Chengdu, China; ²Pediatric Dentistry, State Key Laboratory of Oral Diseases, Chengdu, China

P10-268 14:15–14:18
Eating pattern, caries experiences, and Streptococcus mutans colony in overweight children
S. B. BUDIARDJO
Pediatric Dentistry, Jakarta, Indonesia

P10-269 14:18–14:21
In vitro and in vivo development of a chewing-system for evaluating the release kinetics of bioactive molecules (CPP-ACP; Qt) containing gums

Poster Session 10

14:00-15:30  B2 Hall (1F), COEX

Cariology 2 (Group 1)

Chairpersons
Seon Mi Kim (Korea)
Nina Wang (Norway)
P10-270 14:21-14:24
Analysis of ABC transporters in *Streptococcus mutans*
Y. MORIKAWA¹, Y. TAKASHIMA², K. FUJITA², A. C. ARDIN² & M. MATSUMOTO-NAKANO¹
¹Pediatric Dentistry, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan; ²Pediatric Dentistry, Osaka University Graduate School of Dentistry, Osaka, Japan

P10-271 14:24-14:27
Occlusal caries detection with AC impedance spectroscopy (CarieScan Pro) and laser fluorescence (DIAGNOdent) – an in vitro study
D. MORTENSEN¹, M. K. KELLER¹, K. DANNEMAND² & S. TWETMAN¹
¹Section of Cariology & Endodontics and Pediatric Dentistry & Clinical Genetics, Department of Odontology, Faculty of Health and Medical Sciences, Copenhagen, Denmark; ²Section of Oral Rehabilitation, Department of Odontology, Faculty of Health and Medical Sciences, Copenhagen, Denmark

P10-272 14:27-14:30
Biofilm formation by Lactobacillus species when coexisting with *Streptococcus mutans* MT8148
K. FUJITA¹, Y. TAKASHIMA² & M. NAKANO²
¹Pediatric Dentistry, Osaka University Graduate School of Dentistry, Osaka, Japan; ²Pediatric Dentistry, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan

P10-273 14:30-14:33
The detection and the biocompatible treatment with GIC of ‘Hidden caries’
A. STROIANU & U. ZILBERMAN
Pediatric Dental Clinic, “Barzilai” Medical Centre, Ashkelon, Israel

P10-274 14:33-14:36
Deficiency in glucan-binding protein A of *Streptococcus mutans* alters gene expression related to biofilm formation
M. YUKI¹, F. KAZUYO², T. YUKIKO¹ & M. N. MICHIO¹
¹Pediatric Dentistry, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan; ²Pediatric Dentistry, Osaka University Graduate School of Dentistry, Osaka, Japan

P10-275 14:36-14:39
Assessment of shear bond strength of composites with caries affected dentin following excavation by chemomechanical caries removal (CMCR) agents, viz, cariecare (Indian) and cariesolv
J. GROVER, N. SRIVASTAVA, V. RANA, V. ADLAKHA & H. KAPOOR
Pedodontics and Preventive Dentistry, Subharti Dental College, Svsu, Meerut, India

P10-276 14:39-14:42
Clinical study on the evaluation of anti-microbial effect of a bioactive glass (NovamIn®) containing dentifrice (OHOLV®) in children
Y. LIU, X. SUI, R. YANG & J. ZOU
Pediatric Dentistry Department, West China Hospital of Stomatology, Sichuan University, Chengdu, China

P10-277 14:42-14:45
Early childhood caries prevalence in Indonesian preschool children
D. GIANTY, I. SASMITA & A. SETIAWAN
Pediatric Dentistry, Universitas Padjadjaran, Bandung, Indonesia

P10-278 14:00-14:03
Genotypic analysis and virulence traits of *Candida albicans* from children in different caries status
W. ZHAO¹, R. QIU¹, D. YU² & Y. WANG¹
¹Pediatric Dentistry, Universitas Padjadjaran, Bandung, Indonesia; ²Pediatric Dentistry, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan
Evaluation of remineralization of caries-like lesions treated with casein phosphopeptide-amorphous calcium phosphate (CPP-ACP) using nanoindentation – an in vitro study

S. METTU1, S. NAMINENI2 & S. REDDY2
1Pediatric and Preventive Dentistry, Panineeya Institute of Dental Sciences, Hyderabad, Andhra Pradesh, India; 2Pediatric and Preventive Dentistry, Sri Sai College of Dental Sciences and Research, Vikarabad, Andhra Pradesh, India

The comparison between fluor protector and self-etching fluoride-releasing visible light-activated bonding system on inhibition of enamel decalcification during orthodontic treatment in vivo

J. FENG & Q. SHEN
Prevention, Shanghai Municipal Hospital of Oral Health, Shanghai, China

Biosynthesis of Al-2 of Streptococcus mutans UA159 and observation of the effect of NaF on Al-2 induced luminescence of Vibrio harveyi

Q. GUO
Xi’an Jiaotong University Stomatological Hospital, Xi’an Jiaotong University, Xi’an, China

Clinical evaluation of in-situ remineralization effect on enamel

C. HUI
Department of Pediatric & Preventive Dentistry, Shanghai Jiao Tong University School of Medicine, Ninth People’s Hospital, Shanghai, China

The esthetic restoration by Zirconia crown (ZIRKIZ® Crowns) in maxillary primary incisors

D. G. KANG
Pediatric, Smile & Kids Dental Clinic, Changwon, Korea

Clinical analysis of the dental treatment in young children with ECC under general anesthesia

H. ZHU
Department of Stomatology, Beijing Children’s Hospital, Capital Medical University, Beijing, China

Prevalence of Wyne Type II early childhood caries in children of Tijuana, Baja California, Mexico

Pediatric Dentistry Postgraduate Program, Universidad Autonoma de Baja California, Tijuana, Mexico

Effect of casein phosphopeptide-amorphous calcium phosphate on microhardness of eroded enamel

L. JIANG1,2, J. LIN1,2, M. YU1,2 & Y. HU1,2
1Department of Pediatric Dentistry, Affiliated Hospital of Stomatology, Chongqing Medical University, Chongqing, China; 2Affiliated Hospital of Stomatology, Chongqing Medical University, Chongqing, China

Changes in red fluorescence by quantitative light-induced fluorescence-digital and bacterial composition in cariogenic microcosm biofilm

Y. S. KIM1, D. INABA2, E. S. LEE1, H. K. KWON1 & B. I. KIM1
1Department of Preventive Dentistry and Public Oral Health, Research Center for Orofacial Hard Tissue Regeneration, BK 21 Project, College of Dentistry, Yonsei University, Seoul, Korea; 2Department of Preventive Dentistry, Iwate Medical University School of Dentistry, Morioka, Japan
P10-290  14:30–14:33
Microhardness of dentinal surface after chemomechanical caries removal: a vitro study
X. XIAOHUI¹,², L. JUHONG¹,² & L. YONG-FENG¹,²
¹Department of Pediatric Dentistry, Affiliated Hospital of Stomatology, Chongqing Medical University, Chongqing, China; ²Chongqing Research Center for Oral Diseases and Biomedical Science, Chongqing, China

P10-291  14:33–14:36
Detection of deep early caries using quantitative light induced fluorescence-digital and optical coherence tomography
J. H. MIN¹, D. INABA², H. K. KWON¹ & B. I. KIM¹
¹Department of Preventive Dentistry and Public Oral Health, Research Center for Orofacial Hard Tissue Regeneration, BK 21 Project, College of Dentistry, Yonsei University, Seoul, Korea; ²Department of Preventive Dentistry, Iwate Medical University School of Dentistry, Morioka, Japan

P10-292  14:36–14:39
Efficacy of fluoride varnish and recaldent® in arresting incipient carious lesions in temporary teeth
Pediatric Dentistry Postgraduate Program, Universidad Autonoma de Baja California, Tijuana, Baja California, Mexico

P10-293  14:39–14:42
Resin restorations with enhanced retention in severely carious primary teeth: case report
T. W. KIM
Kids Spring Dental Clinic, Kyungpook National University, Daegu, Korea

P10-294  14:42–14:45
Clinical evaluation of fluoride-containing glassionomer cement used as pit and fissure sealant
W. MA¹,² & J. LIN¹,²
₁Department of Pediatric Dentistry, Affiliated Hospital of Stomatology, Chongqing Medical University, Chongqing, China; ²Chongqing Research Center for Oral Diseases and Biomedical Science, Chongqing, China

Poster Session 11
14:00-15:30  B2 Hall (1F), COEX

The Jens Andreasen Award
Chairpersons  Betul Kargul (Turkey)  Jun Wang (China)

P11-296  14:00–14:03
Multidisciplinary approach of a complicated crownroot fracture: use of localized CBCT for detection, diagnosis and treatment planning
B. LAI¹, K. JOHNSON², M. RAMOS³ & J. LEE⁴
¹Paediatric Dentistry, National Dental Centre, Singapore, Singapore; ²Endodontics, Private Practice, NC, USA; ³Restorative Dentistry, Nova Southeastern University, FL, USA; ⁴Paediatric Dentistry, University of North Carolina, Chapel Hill, NC, USA

P11-297  14:03–14:06
An interdisciplinary approach in the management of severe intrusion injuries in permanent anterior teeth
H. NAZZAL¹, H. DHALIWAL², S. LITTLEWOOD², R. JAMES SPENCER², M. DUGGAL¹ & P. DAY⁴
¹Paediatric Department, Leeds Dental Institute, Leeds, UK; ²Orthodontic Department, Leeds Dental Institute, Leeds, UK

P11-298  14:06–14:09
Management of severe extrusive luxation with surgical repositioning and splinting: case reports
K. PEARIASAMY
Paediatric Dentistry, Sungai Buloh Hospital, Selangor, Malaysia

P11-299  14:09–14:12
A surveillance to establish dental trauma database with informatic engineering approach
P11-300 14:12~14:15
Interdisciplinary approach in management of dental trauma in a young child
K. KUMAR, P. SUBRAMANIAM & G. BABU
Pedodontics and Preventive Dentistry, The Oxford Dental College and Hospital, Bangalore, India

P11-301 14:15~14:18
Evaluation of Adipose-derived stem cell replantation in dogs
K. ARAI, R. TSUKAMOTO & T. MAEDA
Pediatric Dentistry, Nihon University School of Dentistry at Matsudo, Chiba, Japan

P11-302 14:18~14:21
Primary tooth trauma: do you know what lies beneath?
N. TEWARI & S. TANDON
Department of Pedodontics and Preventive Dentistry, Babu Banarasi Das College of Dental Sciences, Lucknow, Uttar Pradesh, India

P11-303 14:21~14:24
A case of the replantation of upper deciduous central incisors under the different condition of extraalveolar period
N. ISOGAWA, M. IKEDA & M. ISHIKAWA
1Paediatric Dentistry, Kameda Clinic Dental Center, Chiba, Japan; 2Faculty of Dentistry, Tokyo Medical and Dental University, Tokyo, Japan; 3Department of Comprehensive Dentistry, Kanagawa Dental College, Yokohama, Japan

Reattachment of anterior teeth fragments after traumatic dental injury involving multiple crown fractures: a case report
P. YEUNG & C. YIU
Paediatric Dentistry, Faculty of Dentistry, The University of Hong Kong, Hong Kong, China

Emergency dental treatment under sevoflurane sedation
S. W. SHIN, S. H. YOO, J. S. KIM & S. O. KIM
1Pediatric Dentistry, Dankook University, Cheonan, Korea; 2Anesthesia, Dankook University, Cheonan, Korea

The effect of the antibiotics used for regenerative endodontics on cells survival
W. TWATI, E. M. RAIF, M. TOMLINSON, D. WOOD, K. J. TOUMBA & M. S. DUGGAL
Child Dental Health, Leeds Dental Institute, Leeds, UK

Revascularization of non-vital immature teeth – a case report
W. R. FU, S. Y. HSIAO & H. S. CHEN
Pediatric Dentistry, Kaohsiung Medical University Chung-Ho Memorial Hospital, Kaohsiung, Taiwan

Continued root development after replantation of traumatic avulsed incisor: a case report
W. JIA & M. QIN
Pediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China

The endodontic study for the control of resorption on outer root surface with dental trauma
Y. YAWAKA, Y. TOYOTA, A. HISADA & T. YOSHIHARA
Department of Dentistry for Children and Disabled Person, Hokkaido University
Graduate School of Dental Medicine, Sapporo/Hokkaido, Japan

Poster Session 12

14:00-15:30  B2 Hall (1F), COEX

The Morita Prizes (Group 1)

Chairpersons
Maria Liza Centeno (Philippines)
Soni Stephen (Australia)

P12-310  14:00-14:03
Oral manifestation in microcephalic osteodysplastic primordial dwarfism type II: a case report
A. F. ISMAIL & C. YIU
Department of Paediatric Dentistry, Faculty of Dentistry, The University of Hong Kong, Hong Kong, China

P12-311  14:03-14:06
Infected tooth follicle in the maxilla of a neonate
A. GOYAL1, V. RATTAN1, K. GAUBA1, P. KUMAR2 & H. MITTAL3
1Oral Health Sciences Centre, Post Graduate Institute of Medical Education and Research, Chandigarh, India; 2Advanced Pediatric center, Post Graduate Institute of Medical Education and Research, Chandigarh, India

P12-312  14:06-14:09
Benefits of early treatment using nasoalveolar molding in an infant with unilateral complete cleft lip and palate: a case report
B. M. GANIA, D. J. BERNABE & G. I. REMULLA
Pediatric Dentistry Center Philippines, Philippine Pediatric Dental Society Inc., Quezon City, Philippines

P12-313  14:09-14:12
Calcifying fibroblastic granuloma: a case report
B. S. NAIDU & T. VIJAYAKUMAR
Department of Paediatric Dentistry, Kajang Hospital, Selangor, Malaysia

P12-314  14:12-14:15
Treatment of posterior scissor bite with fixed appliance: case reports
Department of Pediatric Dentistry, Wonkwang University, Iksan/Jeollabukdo, Korea

P12-315  14:15-14:18
Pulp revascularization of immature teeth with dens invaginatus and necrotic pulp tissue: case report
Department of Pediatric Dentistry, Wonkwang University, Iksan/Jeollabukdo, Korea

P12-316  14:18-14:21
Challenges in management of a case of gingival hyperplasia associated with type IV amelogenesis imperfecta
H. J. TONG1 & J. TAHMASSEBI2
1Orthodontics and Paediatric Dentistry, National University of Singapore, Singapore, Singapore; 2Child Dental Health, Leeds Dental Institute, Leeds, UK

P12-317  14:21-14:24
Wolf-Hirschhorn syndrome – novel and unreported oral findings
H. SITI HAJAR1 & Y. CYNTHIA KAR YUNG2
1Paediatric Dentistry and Orthodontics, Faculty of Dentistry, Universiti Teknologi Mara, Shah Alam, Selangor, Malaysia; 2Paediatric Dentistry and Orthodontics, Faculty of Dentistry, Prince Philip Dental Hospital, The University of Hong Kong, Sai Ying Pun, Hong Kong, China

P12-318  14:24-14:27
A case report of subcutaneous emphysema during root canal treatment
H. LIU, Y. XIAO & Q. WANG
Pediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China

P12-319  14:27-14:30
Management of severe displacement of lower anterior teeth with alveolar bone fracture in a child with 18 months (case report)
H. TALLAB1 & A. NOOH2
1Orthodontics and Paediatric Dentistry, National University of Singapore, Singapore, Singapore; 2Paediatric Dentistry and Orthodontics, Faculty of Dentistry, Prince Philip Dental Hospital, The University of Hong Kong, Sai Ying Pun, Hong Kong, China
P12-320  14:30~14:33
Surgical exposure and traction of deep impacted mandibular first molar: a case report
H. S. KWON¹, A. TANAKA¹ & S. KUBO²
¹Tanaka Dental Clinic, Kashima City, Japan; ²Department of Pediatric Dentistry, Tokyo Dental College, Tokyo, Japan

P12-321  14:33~14:36
Unilateral open-bite caused by an impacted primary molar with ankylosis: a case report
I. SAIITO¹, S. FUKUMOTO¹, Y. IWASE¹, H. HAYASHI¹ & Y. YAMASAKI²
¹Division of Pediatric Dentistry, Niigata University, Niigata, Japan; ²Department of Pediatric Dentistry, Tohoku University Graduate School of Dentistry, Sendai, Japan

P12-322  14:36~14:39
CBCT for the diagnosis and treatment planning of a 15 year old patient treated with guided bone regeneration and esthetic semi-temporary splint following tooth extraction
J. VAN ACKER¹, L. MARTENS¹ & J. APS²
¹Department of Paediatric Dentistry and Special Care – PaedCaMeD research, Ghent University, Ghent, Belgium; ²Department of Pediatric Dentistry, University of Washington, Seattle, WA, USA

P12-323  14:39~14:42
Treatment of an impacted maxillary central incisor: a case report
J. HASSI¹, G. NAREA¹, L. BRAVO², C. CHARMI² & P. ZUNIGA²
¹School of Dentistry, Catholic University of Chile, Santiago, Chile; ²Private, Private Practice of Dentistry, Santiago, Chile

P12-324  14:42~14:45
Decision-making and treatment of a severe form of ectopic erupted maxillary permanent first molars with de-impactor springs: a case report
J. ERB, R. STEFFEN & H. VAN WAES
Clinic of Orthodontics and Paediatric Dentistry, Center of Dental Medicine, University Zurich, Zurich, Switzerland
P12-330 14:12–14:15
A case report of apicectomy procedure with root end filling on a 12 year old with radicular cyst
A. OGUNKOLA, A. ODEBODE & T. OPALEYE
Lagos State University Teaching Hospital, Ikeja, Nigeria

P12-331 14:15–14:18
Preoperative simulation and predictability for the facial asymmetry of hemifacial microsomia
Pruzansky grade I
S. KONDO1, M. IMAMURA1, T. OKUMOTO2 & Y. YOSHIMURA2
1Department of Orthodontics and Pedodontics, Cleft Lip and Palate Center, Fujita Health University School of Medicine, Toyoake City Aichi Pref., Japan; 2Department of Plastic and Reconstructive Surgery, Cleft Lip and Palate Center, Fujita Health University School of Medicine, Toyoake City Aichi Pref., Japan

P12-332 14:18–14:21
Revascularization of non-vital immature teeth – a case report
W. R. FU, S. Y. HSIAO & H. S. CHEN
Pediatric Dentistry, Kaohsiung Medical University Chung-Ho Memorial Hospital, Kaohsiung, Taiwan

P12-333 14:21–14:24
Continued root development after replantation of traumatic avulsed incisor: a case report
W. JIA & M. QIN
Pediatric Dentistry, Peking University School and Hospital of Stomatoloty, Beijing, China

P12-334 14:24–14:27
Chemical burn of the inferior alveolar nerve due to the extrusion of calcium hydroxide in endodontic treatment
Y. S. SHIN1, H. J. KIM2 & B. D. ROH1
1Department of Operative Dentistry, College of Dentistry, Yonsei University, Seoul, Korea; 2College of Dentistry, Yonsei University, Seoul, Korea

P12-335 14:27–14:30
Genetics aspect of hypodontia in twins
Y. RUSTAN & H. SOENAWAN
Pediatric, University of Indonesia, Jakarta, Indonesia

P12-336 14:30–14:33
Conscious sedation with oral-transmucosal midazolam: effect on anxiety levels of young pre-cooperative children during a class II restorative procedure
A. KAPUR1, H. CHAWLA1, K. GAUBA1, A. GOYAL1 & N. BHARDWAJ1
1Unit of Pediatric Dentistry at Oral Health Sciences Centre PGIMER, Chandigarh, India; 2Anesthesia at PGIMER, Chandigarh, India

P12-337 14:33–14:36
Evaluation of clinical efficacy of indirect posterior composites in children
A. E. KOYUTURK1, B. OZMEN1, U. TOKAY1, N. TULOGLU2 & M. E. SARI1
1Department of Pediatric Dentistry, Ondokuz Mayis University Faculty of Dentistry, Samsun, Turkey; 2Department of Pediatric Dentistry, Eskisehir Osmangazi University, Faculty of Dentistry, Eskisehir, Turkey

P12-338 14:36–14:39
Toothpastes efficiency for decreasing Streptococcus mutans level in dental biofilm of young children
A. RODIONOVA
Department of Pediatric Dentistry, Volgograd State Medical University, Volgograd, Russian Federation

P12-339 14:39–14:42
Growth factor expression in dental stem cells: deciduous periodontal ligament and dental pulp
A. OSMAN1, S. MUSA2, N. H. ABU KASIM2 & V. GOVINDASAMY4
1Children’s Dentistry and Orthodontics, Faculty of Dentistry, University of Malaya, Kuala Lumpur, Malaysia; 2Children’s Dentistry and Orthodontics, Faculty of Dentistry and Orthodontics, University of Malaya, Malaysia, Malaysia; 3Conservative Dentistry, Faculty of Dentistry, University of Malaya, Kuala Lumpur, Malaysia; 4Hygiea Innovation, Sdn Bhd, Malaysia, Malaysia
<table>
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<tr>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
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| 14:42-14:45 | Isolation, identification and characterization of lactic acid bacteria from preschool children and its correlation with dental caries | A. SHIMADA1, M. NODA2, Y. MATOBA3, T. KUMAGAI4, M. SUGIYAMA2 & K. KOZAI1  
1Pediatric Dentistry, Hiroshima University, Hiroshima, Japan; 2Molecular Microbiology and Biotechnology, Hiroshima University, Hiroshima, Japan |
| 14:45-14:48 | Dental maturation in patients with dental agenesis | A. C. MEDINA1 & R. DEL POZO1  
1Paediatric Dentistry and Orthodontics, Universidad Central de Venezuela, Caracas, Venezuela; 2Hiroshima University, Hiroshima, Japan |

The Morita Prizes (Group 3)

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<tr>
<th>Chairpersons</th>
<th>Joseph Chan (Hong Kong, China) Francisco Ramos-Gomez (USA)</th>
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<tr>
<td>Time</td>
<td>14:00-14:03</td>
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</table>
| Title        | An audit of dental treatment of children under conscious sedation at the Lagos University Teaching Hospital | F. OREDUGBA1, R. ADEWOLE2, C. NZOMIUWU3, A. ADENAIKE4 & M. ASHIWAJU2  
1Department of Child Dental Health, College of Medicine, University of Lagos, Lagos, Nigeria; 2Department of Oral and Maxillofacial Surgery, College of Medicine, University of Lagos, Lagos, Nigeria; 3Lagos University Teaching Hospital, Lagos, Nigeria |
| Time         | 14:03-14:06                                               |
| Title        | Revascularization for necrotic immature permanent teeth: a retrospective study | C. PENG, Y. YANG & M. QIN  
Pediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China |
| Time         | 14:06-14:09                                               |
| Title        | Management and mRNA activity of hereditary gingival fibromatosis | C. M. KANG, H. S. LEE, J. S. SONG, J. H. LEE & S. O. KIM  
Department of Pediatric Dentistry, Yonsei University Dental Hospital, Seoul, Korea |
| Time         | 14:09-14:12                                               |
| Title        | Presence of *Aggregatibacter actinomycetemcomitans* in saliva and cardiac tissue samples of children with congenital heart disease | E. BOZDOGAN1, N. TOPCUOGLU2, G. CETIN3, G. KULEKCI1 & O. AKTOREN1  
1Pediatric Dentistry, Istanbul University, Faculty of Dentistry, Istanbul, Turkey; 2Microbiology, Istanbul University, Faculty of Dentistry, Istanbul, Turkey; 3Cardiovascular Surgery, Istanbul University, Institute of Cardiology, Istanbul, Turkey |
| Time         | 14:42-14:45                                               |
| Title        | Developing guideline for caries prevention and management by caries risk assessment for preschool children using adapte process and delphi consensus | G. H. M. LEE, C. MCGRATH & C. K. Y. YIU  
Paediatric Dentistry and Orthodontics, Faculty of Dentistry, The University of Hong Kong, Hong Kong, China |
| Time         | 14:15-14:18                                               |
| Title        | Factors affecting symptoms of temporomandibular disorders in adolescents | H. KARIBE, K. SHIMAZU, Y. KATO, S. WARITANAOI & T. KAWAKAMI  
Department of Pediatric Dentistry, Nippon Dental University, Tokyo, Japan |
| Time         | 14:18-14:21                                               |
| Title        | Seckel syndrome manifestations and dental care | H. AL RAKAF  
Dental, Riyadh Military Hospital, Riyadh/Central Province, Saudi Arabia |
| Time         | 14:21-14:24                                               |
| Title        | Effect of single-dose amoxicillin on rat incisor odontogenesis | K. KUMAZAWA1, T. SAWADA2, T. YANAGISAWA2 & S. SHINTANI1  
1Pediatric Dentistry, Tokyo Dental College, Chiba, Japan; 2Ultrastructural Science, Tokyo Dental College, Chiba, Japan |
| Time         | 14:24-14:27                                               |
| Title        | Three-dimensional changes in maxillofacial and alveolar base during rapid maxillary expansion in mixed dentition | K. OKAMURA & R. KANOMI  
Kanomi Dental Office, Himeji, Japan |
P12-351 14:27~14:30
Comparative evaluation of indirect composite onlays vs stainless steel crowns for rehabilitation of grossly decayed primary molars
H. MITTAL, K. GAUBA, A. GOYAL & A. KAPUR
Unit of Paediatric and Preventive Dentistry, Oral Health Sciences Center, Postgraduate Institute of Medical Education and Research, Chandigarh, India

P12-352 14:30~14:33
Shifts in the microbial diversity during transition from caries-free to caries-active in 3-year old children
W. HAO1, M. QIN1 & P. ZHANG2
1Department of Pediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China; 2Department of Dentistry, Beijing Haidian Maternal and Child Health Hospital, Beijing, China

P12-353 14:33~14:36
Effects of lead exposure on proliferation and differentiation of stem cells isolated from bone marrow and dental origin
M. ABDULLAH1, F. ABD RAHMAN1, N. GNANAS-EGARAN1, V. GOVINDASAMY2, N. H. ABU KASSIM1 & S. MUSA3
1Conservative Dentistry, University of Malaya, Kuala Lumpur, Malaysia; 2Hygiene Innovation Sdn. Bhd, Kuala Lumpur, Malaysia; 3Children’s Dentistry and Orthodontics, University of Malaya, Kuala Lumpur, Malaysia

P12-354 14:36~14:39
Prevention of spontaneous abscesses of permanent teeth in x-linked hypophosphatemia
M. SILVA1, D. MANTON1, K. HALLETT2, L. MOONEY1 & S. WATSON2
1Melbourne Dental School, University of Melbourne, Melbourne, Vic., Australia; 2Royal Children’s Hospital, Melbourne, Vic., Australia

P12-355 14:39~14:42
Effects of maternal occlusal stress on hippocampal neurogenesis in sam mouse pups
M. INUMA1, H. KONDO1, M. KURAHASHI1, M. ONISHI1, Y. TAMURA1 & K. Y. KUBO2
1Pediatric Dentistry, Asahi University, Mizuho City/Gifu, Japan; 2Health Care Study, Seijoh University, Tokai City/Aichi, Japan

P12-356 14:42~14:45
Relationship of salivary leptin concentrations and tooth development in obese children
M. F. RIZAL, H. SOENAWAN & R. PERMATASARI
Pediatric Dentistry, Faculty of Dentistry Universitas Indonesia, Jakarta, Indonesia

P12-357 14:00~14:03
Fluoride mouthrinses during orthodontic treatment in cleft patients: a national survey
M. NEIL, S. PAREKH, B. PATEL & N. HAY
Dental and Maxillofacial Surgery Department, Great Ormond Street Hospital for Children, London, UK

P12-358 14:03~14:06
Effects of mechanical and thermal aging on microleakage of new flowable composite
A. E. KOYUTURK, M. CORTCU, U. TOKAY, B. OZMEN & M. E. SARI
Department of Pediatric Dentistry, Faculty of Dentistry, Ondokuz Mayis University, Samsun, Turkey

P12-359 14:06~14:09
Genome-wide analysis of MSX1 target genes in stem cells from human exfoliated deciduous teeth
N. GOTO1,2, K. FUJIMOTO2, S. FUJII3, T. KAWAMOTO2, M. NOSHIRO1, K. KOZAI1 & Y. KATO2
1Department of Pediatric Dentistry, Institute of Biomedical and Health, Hiroshima University, Hiroshima, Japan; 2Department of Dental and Medical Biochemistry, Institute of Biomedical and Health, Hiroshima University, Hiroshima, Japan; 3Department of Science for Health Promotion, Institute of Biomedical and Health, Hiroshima University, Hiroshima, Japan

P12-360 14:09~14:12
Oral health in preschool children with autism spectrum disorders: a case–control study
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<th>Session</th>
<th>Time</th>
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<th>Authors</th>
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<tr>
<td>P12-361</td>
<td>14:12-14:15</td>
<td>Stem cells from inflamed human deciduous dental pulp: its characteristics and potential</td>
<td>R. Du, C. Mcgrath, C. Yiu &amp; N. King</td>
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<td>1Faculty of Dentistry, The University of Hong Kong, Hong Kong, China; 2School of Dentistry, Faculty of Medicine, The University of Western Australia, Perth, WA, Australia</td>
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<td>P12-366</td>
<td>14:27-14:30</td>
<td>Body adiposity status in relation to dental caries experience among preschool children in Hong Kong</td>
<td>S. Peng, H. M. Wong, N. King &amp; C. Mcgrath</td>
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<td>1Paediatric Dentistry and Orthodontics, Faculty of Dentistry, The University of Hong Kong, Hong Kong SAR, China; 2Paediatric Dentistry, School of Dentistry, Faculty of Medicine, Dentistry and Health Sciences, University of Western Australia, Perth, WA, Australia; 3Periodontology and Dental Public Health, Faculty of Dentistry, The University of Hong Kong, Hong, Perth, China</td>
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<td>Department of Pediatric Dentistry, Tokyo Dental College, Chiba, Japan</td>
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<td>P12-368</td>
<td>14:33-14:36</td>
<td>Factors affecting spontaneous space closure after the extraction of first permanent molars</td>
<td>T. Teo, P. Ashley &amp; D. Derrick</td>
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<td>P12-365</td>
<td>14:24-14:27</td>
<td>Complications of primary canine enucleation performed in sub-Saharan Africa</td>
<td>S. Khadembaschi, R. Williams, C. Olsen &amp; D. Manton</td>
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<td>Pediatric Dentistry, Nihon University School of Dentistry at Matsudo, Matsudo, Japan</td>
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<td>1Department of Pediatric Dentistry, College of Dentistry, Yonsei University, Seoul, Korea; 2Department of Oral Science, College of Dentistry, Yonsei University, Seoul, Korea</td>
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<td>P12-364</td>
<td>14:21-14:24</td>
<td>Complications of primary canine enucleation performed in sub-Saharan Africa</td>
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Department of Pediatric Dentistry, Ondokuz Mayis University, Faculty of Dentistry, Samsun, Turkey

**P12-372 14:39~14:42**
Free dental treatment for children of asylum seekers at Tsurumi University Dental Hospital
Y. SAITO¹, O. MASUMI², T. KARAKI³, R. SHIMANAKA¹, S. NAGASAKA¹ & Y. ASADA¹
¹Division of Dental Hygienist, Tsurumi University Dental Hospital, Yokohama, Japan; ²Department of Pediatric Dentistry, Tsurumi University School of Dental Medicine, Yokohama, Japan; ³Center for International Exchange, Tsurumi University, Yokohama, Japan

**P12-373 14:42~14:45**
Bonding ability of 4-meta primer used with 4-meta/mma-tbb resin ‘bondfill sb’ to enamel and dentin: primary vs permanent teeth
Y. HOSOYA¹, T. TAGUCHI², H. OTANI³ & T. YUKINARI²
¹Pediatric Dentistry, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan; ²Taguchi Dental Clinic, Nagasaki, Japan; ³Otani Dental Clinic, Nayoro, Japan; ²Yukinari Pediatric and Orthodontic Dental Clinic, Nagasaki, Japan

**P12-374 14:45~14:48**
Gene expression analysis of the dental pulp in healthy and caries teeth
S. H. OH
Hallym Sacred Heart Hospital, Anyang, Korea

**Posters Session 13**

16:00-17:30  B2 Hall (1F), COEX

**Public Health (Group 1)**

Chairpersons
Andrei Grijbovski (Norway)
Masaaki Ishikawa (Japan)

**P13-375 16:00~16:03**
Strategies to assure access and equity: the impact of pediatric dental residency training programs on access to care for vulnerable populations
D. OKUJI & N. DEMBY
Dental Medicine, Lutheran Medical Center, Brooklyn, NY, USA

**P13-376 16:03~16:06**
Relationship between the sippy cup habit and dental caries experience in primary anterior teeth
Department of Pediatric Dentistry, Wonkwang University, Iksan/ Jeollabukdo, Republic of Korea

**P13-377 16:06~16:09**
The incidence of occupational exposures among health care workers and students at Istanbul University Faculty of Dentistry
S. KURU, A. P. ERDEM, G. MUCUK, F. N. GORKEN, E. SEPET & F. DOGAN
Faculty of Dentistry, Istanbul University, Istanbul, Turkey

**P13-378 16:09~16:12**
Oral health-related quality of life in a group of 3 year-old Thai children
N. PONPAI¹, P. LEELATAWEEWUD¹, V. JIRARATTANASOPA¹, C. UNGCHUSAK² & V. BHUVAPANICH²
¹Pediatric Dentistry, Mahidol University, Bangkok, Thailand; ²Department of Health, Ministry of Health, Thailand, Thailand; ²Community Dentistry, Mahidol University, Thailand, Thailand

**P13-380 16:12~16:15**
Dental caries risk factors of children analysis by national health interview survey (NHIS) in Taiwan
Y. H. LIU & N. C. TENG
Division of Oral Rehabilitation and Center of Pediatric Dentistry, Department of Dentistry, Taipei Medical University, Taipei, Taiwan

**P13-381 16:15~16:18**
The current treatment status of primary incisors by dentists in Korea
S. H. KIM, T. S. JEONG & Y. J. KIM
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

**P13-382 16:18~16:21**
Preventive and alternative treatment on cleft lip and palate patients at Nordhoof craniofacial center, Philippines

J. TAGO, M. MAGKALAS & G. REMULLA
Pediatric Dentistry Center, Philippine Pediatric Dental Society Inc., Quezon City, Philippines

P13-383 16:21~16:24

Teething in infants – knowledge and attitude of traditional birth attendants in Ibadan, Nigeria

O. BANKOLE1, J. TAIWO2 & A. ADESakin3
1Department of Child Oral Health, University of Ibadan, Ibadan, OyoState, Nigeria; 2Department of Community Dentistry and Periodontology, University of Ibadan, Ibadan, OyoState, Nigeria; 3Department of Community Dentistry and Periodontology, University College Hospital, Ibadan, OyoState, Nigeria

P13-384 16:24~16:27

A research on lifestyles of female dentists in Japanese society of pediatric dentistry -part 1.
The present situation of Japanese female pediatric dentists

M. SHIMADA, S. WARITA-NAOI, J. SHIMOMURA-KUROKI, M. INOUE, Y. ASADA & H. TAKANO
The Committee on Female Pediatric Dentist Relations of the Japanese Society of Pediatric Dentistry, Tokyo, Japan

P13-386 16:27~16:30

Assessment of nurses/midwives awareness about child and maternal oral health

J. EIGBOBO1, B. MOHAMMED2 & E. AIKINS1
1Child Dental Health, Faculty of Dentistry, University of Port Harcourt, Port Harcourt, Nigeria; 2Child Dental Health, University of Nigeria Teaching Hospital, Enugu, Nigeria

P13-387 16:30~16:33

Nutritional advice in dental settings: a model for preventive health

C. CARRIZOSA1, M. HOVELL1, K. SCHMITZ2, S. LILES2, A. LARES-AVILES2 & I. VERDUGO-VALENZUELA2
1Center for Behavioral Epidemiology and Community Health, San Diego State University, San Diego, CA, USA; 2Centro Universitario de Postgrado e Investigacion en Salud, Universidad Autonoma de Baja California, Tijuana, Baja California, Mexico

P13-388 16:33~16:36

Diet and lifestyle of Cambodian children

A. IWAMOTO1, Y. IWAMOTO2,3, N. NIIZATO3, C. CHANBORA2, K. KOZAI1,2 & H. AMANO1,3
1Department of Maxillofacial Functional Development, Institute of Biomedical and Health Sciences, Hiroshima University, Hiroshima, Japan; 2Department of Pediatric Dentistry, Institute of Biomedical and Health Sciences, Hiroshima University, Hiroshima, Japan; 3Center of International Collaboration Development for Dentistry, Institute of Biomedical and Health Sciences, Hiroshima University, Hiroshima, Japan

P13-389 16:36~16:39

Amchi program: rendering dental care to unreached population in Indian Himalayas (Ladakh)

N. SRIDHAR1, A. SASHIDHAR2, G. SRIKANT3, B. RITESH1, N. N. RAO3 & M. TAGT5
1Pediatric & Preventive Dentistry, Manipal, Karnataka, India; 2Community Dentistry, Manipal, Karnataka, India; 3Oral & Maxillofacial Surgery, Manipal, Karnataka, India; 4Oral Pathology & Microbiology, Manipal, Karnataka, India; 5Oral Biology, Karolinska Instituut, Sweden

Public Health (Group 2)

Chairpersons

Xu Chen (China)
Vibeke Qvist (Denmark)

P13-390 16:00~16:03

A survey on dental health of children of multicultural families in Ansan-si, Gyeonggi-do

H. J. YANG, G. H. LEE, J. Y. LA, J. H. SONG & S. Y. AN
Pediatric Dentistry, Dental Hospital of Wonkwang University, Seoul, Korea

P13-391 16:03~16:06

Oral health education for children in rural areas of Cambodia
Y. IWAMOTO, A. IWAMOTO, N. NIIZATO, N. GOTO, T. TAKATA & K. KOZAI
Department of Pediatric Dentistry, Institute of Biomedical and Health Sciences, Hiroshima University, Hiroshima, Japan

P13-392 16:06–16:09
N. ATSUMI, A. BABA, S. MORI, H. SAITO, M. NAKANO & H. YOSHIDA
The Committee on Female Pediatric Dentist Relations of the Japanese Society of Pediatric Dentistry, Tokyo, Japan

P13-393 16:09–16:12
Development of the new educational models for Pedodontic residents
Y. SHIMADA & M. INOUE
Pediatric Dentistry, School of Dentistry, Showa University, Tokyo, Japan

P13-394 16:12–16:15
Comparison of children’s oral health related quality of life pre-and post dental treatment under general anesthesia
S. J. POORHASHEMI
Pediatric Dentistry, Tehran University of Medical Sciences, International Campus, Tehran, Iran

P13-395 16:15–16:18
Subsequent publication rate of K.A.D.P congress abstracts
A. H. KIM1, G. H. LEE2, J. Y. LA3, J. H. SONG4 & S. Y. AN5
1Chosun University Dental Hospital, Preventive Dentistry, Gwangju, Korea; 2Dental Hospital of Wonkwang University, Ik-san/Jeollabuk-do, Korea

P13-396 16:18–16:21
Parental satisfaction with pediatric dental service provided by interns in an Egyptian Governmental Dental School
O. F. SHAHAWY, F. A. ELGAWAD, N. WASSEF, M. ALY & M. WANIS
Pediatric Dentistry, Faculty of Dentistry Cairo University, Cairo, Egypt

P13-397 16:21–16:24
Knowledge, attitude and practice and oral disease status of 6–15 year school children of haryana, India – 25 years post-implementation of oral health preventive program utilizing existing health and education manpower
A. GOYAL, K. GAUBA, A. UTREJA & A. TEWARI
Oral Health Sciences Centre, Post Graduate Institute of Medical Education and Research, Chandigarh, India

P13-398 16:24–16:27
Assessment of the quality of pediatric dentistry training program for interns in an Egyptian private dental school
O. E. SHAHAWY, E. ALAA, A. AHMED, N. SAAD, D. SHEHAB & H. MORGAN
Pediatric Dentistry, Future University, Cairo, Egypt

P13-399 16:27–16:30
Effect of an ‘oral health primary preventive program‘ on gingival health and dental caries activity of 10–12 year old school children: a 6 months evaluation
H. C. MITTAL1, A. GAUBA2 & A. JAIN2
1Unit of Pediatric Dentistry, Oral Health Sciences Center, PGIMER, Chandigarh, India; 2Department of Periodontology, DHSJ Institute of Dental Sciences and Hospital, Panjab University, India

P13-401 16:30–16:33
The contribution for life quality of a social-educative programme
J. S. MOREIRA-JR1, M. A. F. CAMARGO1, L. V. S. MARTINO1, N. T. MARUYAMA1, E. MICHEL-CROSATO1 & T. M. PONTE1
1Social Service of the Commerce in State of Sao Paulo, SESC, Brazil; 2School of Dentistry, University of Sao Paulo, USP, Brazil

P13-402 16:33–16:36
Oral health related knowledge of primary school teachers in Kadikoy region of Istanbul in Turkey
S. ERGRNRLI ERAKBAS, Y. AYDIN, J. ATUKEREN, U. KABALAY, B. KURU & N. KASA

145
New Visions for Paediatric Dentistry

SCIENTIFIC PROGRAM

24th Congress of the International Association of Paediatric Dentistry

Children Oral Health Center, Kadıköy Municipal-ity, Istanbul, Turkey

Department of Pediatric Dentistry, Yonsei University Dental Hospital, Seoul, Republic of Korea

P13-403 16:36–16:39
Dental health attitude in schoolchildren of Tijuana, Baja California Mexico
M. ZAMUDIO-GÓMEZ¹, J. BUSTAMANTE-REYNOSO¹, C. FREGOSO-GUEVARA¹, I. VERDU-GO-VALENZUELA¹, R. ROJAS-ALVARADO² & R. J. RAMIREZ²
¹Pediatric Dentistry Postgraduate Program, Universidad Autónoma de Baja California, Tijuana, Baja California, Mexico; ²Facultad de Medicina y Psicología, Universidad Autónoma de Baja California, Tijuana, Baja California, Mexico; ³Facultad de Ciencias Químicas e Ingeniería, Universidad Autónoma de Baja California, Tijuana Baja California, Mexico

P14-405 16:00–16:03
Teeth eruption through heterogenous graft in alveolar bone defect
J. H. KIM¹ & J. S. LEE²
¹Pediatric Dentistry, Yonsei University, Wonju Severance Christian Hospital, Wonju/Gangwon, Republic of Korea; ²Orthodontics, Yonsei University, Wonju Severance Christian Hospital, Wonju/Gangwon, Republic of Korea

P14-406 16:03–16:06
Primary dentition cross-bite: challenges and solutions
A. KAPUR, K. GAUBA, A. GOYAL & A. UTREJA
Unit of Pediatric Dentistry, Oral Health Sciences Centre, Post Graduate Institute of Medical Education and Research, Chandigarh, India

P14-407 16:06–16:09
Stabilization of early erupted permanent premolars by modified space maintainers

P14-408 16:09–16:12
Development of a new device, Rect spring, for ectopic erupted permanent molar
H. L. JUN, B. J. CHOI, H. J. CHOI, J. S. SONG & O. KIM
Department of Pediatric Dentistry, Yonsei University Dental Hospital, Seoul, Korea

P14-410 16:12–16:15
Three-dimensional evaluation of impacted mesiodens using cone-beam computed tomography in Korean children and adolescents
H. K. JEONG, N. Y. LEE & S. H. LEE
Pediatric Dentistry, Chosun University, Gwangju, Korea

P14-411 16:15–16:18
Effect of presurgical nasoalveolar molding in bilateral cleft lip and palate twins
J. S. KIM, Y. J. KIM, S. H. NAM & H. J. KIM
Pediatric Dentistry, School of Dentistry, Kyungpook National University, Daegu, Korea

P14-412 16:18–16:21
Eruption guidance of impacted permanent molar
M. K. JIH, S. H. LEE & N. Y. LEE
Pediatric dentistry, Chosun University Dental Hospital, Gwangju, Korea

P14-413 16:21–16:24
A study on the effectiveness of frenotomies in infants with feeding problems associated with ankyloglossia
D. TAY¹, M. SERAFIN¹, M. ARORA², S. HSIEH³ & S. MALHI³
¹Paediatric Dentistry, Westmead Centre for Oral Health, Sydney, NSW, Australia; ²Institute of Dental Research, and Oral Pathology and Oral Medicine, Faculty of Dentistry, University of Sydney, Sydney, NSW, Australia; ³Paediatric Dentist, St George Paediatric Dental Specialists, Sydney, NSW, Australia

P14-414 16:24–16:27
Orthodontic traction of lower lateral incisor erupted horizontally on the lingual side
Y. J. MAH¹, H. K. SOHN², B. J. CHOI³, J. H. LEE³, S. O. KIM²
¹Department of Pediatric Dentistry, College of Dentistry, Yonsei University Graduate School, Seoul, Republic of Korea; ²Department of Pediatric Dentistry, College of Dentistry, Yonsei University, Seoul, Republic of Korea

P14-415 16:27~16:30
Examination of an articulation assessment method that uses acoustic analysis
T. SUGIYAMA & M. INOUE
Pediatric Dentistry, Showa University School of Dentistry, Tokyo, Japan

P14-416 16:30~16:33
Treatment of impacted permanent first molars
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P14-417 16:33~16:36
Comparison of dynamic occlusal contacts during chewing between preferred and non-preferred sides
Y. IWASE¹, M. KUROSAWA¹, I. SAITO¹, E. INADA¹, Y. YAMASAKI¹ & H. HAYASAKI¹
¹Division of Pediatric Dentistry, Niigata University, Niigata, Japan; ²Department of Pediatric Dentistry, Kagoshima University, Kagoshima, Japan

P14-418 16:36~16:39
3-D evaluation of primary maxillary anterior dentition
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P14-419 16:39~16:42
An audit to assess the appropriateness of the referrals for ectopic maxillary canines
F. FLETCHER, S. COLLIER, J. JOHNSON & G. A. AMEIRA
Paediatric Dentistry, St Georges and St Helier NHS Hospital Trusts, London, UK

P14-420 16:42~16:45
Guided eruption of impacted premolar by extraction of retained primary molar
E. M. JEON
Pediatric Dentistry, Kids Tree Dental Clinic, Dae-gu, Korea

P14-422 16:45~16:48
Shear bond strength of orthodontic brackets to tooth surface after different pretreatment methods
Y. S. JUNG, H. J. AHN & S. C. CHOI
Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea

P14-423 16:00~16:03
Effects of functional appliance ‘Muh’ on IIa children with anterior cross-bites
H. NAKAHARA¹, M. ITOH², T. KONDO³ & Y. TAMURA³
¹Pediatric, Nakahara Dental Clinic, Osaka, Japan; ²Pediatric, Itoh Dental Clinic, Nara, Japan; ³Pediatric, Department Pediatric Dentistry, Asahi University School of Dentistry, Gifu, Japan

P14-424 16:03~16:06
Management of ectopically erupting permanent molars by the degree of impaction
B. E. LEE¹, J. H. LEE¹, J. Y. KIM², K. T. PARK³, H. K. HYUN³ & K. T. JANG¹
¹Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea; ²School of Dentistry, Pusan National University, Pusan, Korea; ³Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea

P14-425 16:06~16:09
To assess the management of poor prognosis first permanent molars (FPM) at St Georges and St Helier NHS Trusts
S. COLLIER, F. FLETCHER, J. JOHNSON & G. A. AMEIRA
Paediatric Dentistry, St Georges and St Helier NHS Hospital Trusts, London, UK

P14-426 16:09~16:12
Growth and Development - Orthodontics 2 (Group 2)
Chairpersons
Marja-Liisa Laitala (Finland)
Maria Alejandra Lipari (Chile)

P14-427 16:12~16:15
Effects of functional appliance ‘Muh’ on IIa children with anterior cross-bites
H. NAKAHARA¹, M. ITOH², T. KONDO³ & Y. TAMURA³
¹Pediatric, Nakahara Dental Clinic, Osaka, Japan; ²Pediatric, Itoh Dental Clinic, Nara, Japan; ³Pediatric, Department Pediatric Dentistry, Asahi University School of Dentistry, Gifu, Japan
P14-426 16:09~16:12
Orthodontic management of horizontally impacted maxillary central incisor
E. M. LEE
Pediatric Dentistry, Kid’s Love Dental Clinic, Daegu, Korea

P14-427 16:12~16:15
Eruption guidance of lower premolar impaction compounded by primary molar ankylosis and lower first molar encroachment
J. H. SHIN
1Seoul Children’s Dental Center, Seoul, Korea; 2Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P14-428 16:15~16:18
Management of impacted mandibular first molar
Department of Pediatric Dentistry, Yonsei University Dental Hospital, Seoul, Korea

P14-429 16:18~16:21
Eruption guidance of impacted mandibular second molar
Department of Pediatric Dentistry, College of Dentistry, Wonkwang University, Ik-san City, Korea

P14-430 16:21~16:24
Changes in lateral pressure at the proximal contact of permanent dentition
H. MUKUDAI, Y. SANO, S. HASEGAWA & Y. TAMURA
Pediatric, Asahi University School of Dentistry, Gifu, Japan

P14-431 16:24~16:27
Maxillary molar distalization using micro-implants: a case report
S. D. YANG
Kids Tree Dental Clinic, Daegu, Korea

P14-432 16:27~16:30
Early orthodontic treatment in children using orthopedic or removable orthodontic appliances followed by muscle-habit trainers: report of cases
M. S. KIM
Seoul Children’s Dental Center, Seoul, Korea

P14-433 16:30~16:33
Case report of treating class II malocclusion patients using myofunctional appliance
J. E. CHOI, G. H. LEE, J. Y. LA, J. H. SONG & S. Y. AN
Pediatric Dentistry, Dental Hospital of Wonkwang University, Seoul, Korea

P14-434 16:33~16:36
Infraocclusion of primary molars: treatment of displaced tooth germ of premolars
Pediatric Dentistry, Kyungpook National University, School of Dentistry, Daegu, Korea

P14-435 16:36~16:39
Resorption of incisors induced by ectopic maxillary canines
A. MEHTA, G. ABOU-AMEIRA & E. O’HIGGINS
1Paediatric Dentistry, St Heliers Hospital, London, UK; 2Orthodontics, St Heliers Hospital, London, UK

P14-436 16:39~16:42
Orthodontic treatment of transposed maxillary canine of a down syndrome patient: a case report
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P14-437 16:42~16:45
Eruption characteristics of maxillary first permanent molar classified as irreversible ectopic eruption
Y. S. CHUNG
NYU Kids Dental Clinic, Goyang-si, Gyeonggi-do, Korea

P14-438 16:45~16:48
Three-dimensional motion analysis of lips and mandibular movement during mastication
M. WATARAI, R. AYANO & M. INOUE
Pediatric Dentistry, Showa University School of Dentistry, Tokyo, Japan

Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

Poster Presentations – June 15 (Saturday)

Poster Session 15

08:30-10:00 B2 Hall (1F), COEX

Dental Anomalies (Group 1)

Chairpersons
Anne O’Connell (Ireland)
Jing Zou (China)

P15-440 08:30-08:33
The prevalence and morphologic classification of distolingual root in mandibular molars in Korean population
J. S. SONG, S. O. KIM & J. H. LEE
Department of Pediatric Dentistry, Yonsei University Dental College, Seoul, Korea

P15-441 08:33-08:36
Regional odontodysplasia presenting with macrodontia
A. TANDAY, A. JOHNSON & P. ANAND
Department of Paediatric Dentistry, Eastman Dental Hospital, University College London Hospitals NHS Foundation Trust, London, UK

P15-442 08:36-08:39
A survey for prevalence, distribution, and possible etiologic factors of oligodontia in children over 7-years and comparative analysis with recent surveys
H. S. JEON, J. G. KIM, Y. M. YANG & B. J. BAIK

P15-443 08:39-08:42
Prevalence of dental anomalies in mixed dentition: a study of panoramic radiography
B. KARABULUT1, S. KARACAY2, E. YILDIRIM2, M. ERKAN2 & A. ATAY2
1Pedodontics, GMMA Haydarpasha Training Hospital, Istanbul, Turkey; 2Orthodontics, GMMA Haydarpasha Training Hospital, Istanbul, Turkey

P15-444 08:42-08:45
Correlation between peg lateralis and dental anomalies
J. H. KIM, J. G. KIM, B. J. BAIK & Y. M. YANG
Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

P15-445 08:45-08:48
Multidisciplinary management of displaced and impacted maxillary central incisors with autotransplantation and orthodontic treatment: a case report
S. D. ULUG1, Y. GUVEN1, A. BURAK CANKAYA2, K. GENCAY1 & O. AKTOREN1
1Pedodontics, Istanbul University, Faculty of Dentistry, Istanbul, Turkey; 2Oral Surgery, Istanbul University, Faculty of Dentistry, Istanbul, Turkey

P15-446 08:48-08:51
Triple fusion of maxillary primary incisors & supernumerary tooth: case report
K. H. JOO, B. J. CHOI, Y. B. HAN, H. S. LEE & J. S. SONG
Pediatric Dentistry, Dental Hospital, Yonsei University, Seoul, Korea

P15-447 08:51-08:54
Regional odontodysplasia: report of two cases
C. G. TOLGAY, E. YAMAN-DOSDOGRU, Y. GUVEN, G. AREN, Z. AYTEPE & O. AKTOREN
Department of Pediatric Dentistry, Istanbul University, Faculty of Dentistry, Istanbul, Turkey

P15-448 08:54-08:57
Oral manifestation and dental treatment in a patient with biliary atresia: case reports

149
<table>
<thead>
<tr>
<th>Session</th>
<th>Time</th>
<th>Title</th>
<th>Authors</th>
<th>Affiliations</th>
</tr>
</thead>
<tbody>
<tr>
<td>P15-449</td>
<td>08:57–09:00</td>
<td>Conservative management of dentigerous cyst in four children</td>
<td>Y. Guven¹, Y. KasIMOGLU¹, D. Ulug¹, B. Can-KAYA², K. GENCAY &amp; O. AKTOREN¹</td>
<td>¹Department of Pediatric Dentistry, Istanbul University, Istanbul, Turkey; ²Department of Oral Surgery, Istanbul University, Istanbul, Turkey</td>
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<tr>
<td>P15-450</td>
<td>09:00–09:03</td>
<td>Conservative endodontic treatment of type III dens invaginatus: case report</td>
<td>W. S. Joe, N. Y. Lee &amp; S. H. Lee</td>
<td>Pediatric Dentistry, Chosun University Dental Hospital, Gwanju, Korea</td>
</tr>
<tr>
<td>P15-452</td>
<td>09:03–09:06</td>
<td>Relationship analysis of maxillary canine impaction and adjacent teeth: three-dimensional study</td>
<td>Y. J. Kim, H. K. Hyun &amp; K. T. Jang</td>
<td>Department of Pediatric dentistry, School of Dentistry, Seoul National University, Seoul, Korea</td>
</tr>
<tr>
<td>P15-453</td>
<td>09:06–09:09</td>
<td>Cyclophosphamide on dental developmental defects in growing mice</td>
<td>Y. Nakamura, T. Kawakami &amp; H. Karibe</td>
<td>Pediatric Dentistry, The Nippon Dental University School of Life Dentistry at Tokyo, Tokyo, Japan</td>
</tr>
<tr>
<td>P15-454</td>
<td>09:09–09:12</td>
<td>Pre-eruptive intracoronal radiolucencies: two case reports of Thai children</td>
<td>C. ManMontrî¹, P. ChomPu-INwAI¹ &amp; P. Ma-HaNSantiPiYa²</td>
<td>¹Orthodontics and Pediatric Dentistry, Chiang Mai University, Chiang Mai, Thailand; ²Oral Biology and Diagnosis Science, Chiang Mai University, Chiang Mai, Thailand</td>
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<tr>
<td>P15-455</td>
<td>09:12–09:15</td>
<td>A case of delayed eruption in a child with monostotic fibrous dysplasia</td>
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<tr>
<td>P15-456</td>
<td>09:15–09:18</td>
<td>Research on position of impacted mesiodens in infant by means of cone-beam CT</td>
<td>S. Itaya, K. Oka, A. Baba, K. Ishii &amp; M. Ozaki</td>
<td>Section of Pediatric Dentistry, Division of Clinical Dentistry, Department of Oral Growth and Development, Fukuoka Dental College, Fukuoka, Japan</td>
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<tr>
<td>P15-460</td>
<td>09:27–09:30</td>
<td>Prevalence of enamel hypoplasia in children with chronic pyelonephritis</td>
<td>O. AdmakIn, U. Chugaeva, E. SkatOva, N. Kozlova &amp; P. Fatkina</td>
<td>Department of Paediatric Dentistry and Orthodontics, I.M. Sechenov First Moscow State Medical University, Moscow, Russian</td>
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<tr>
<td>P15-461</td>
<td>09:30–09:33</td>
<td>Treatment needs for first permanent molars in children with MIH</td>
<td></td>
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I. A. STANCIU1, R. LUCA1, A. MUNTEANU1, A. T. FARCASIU2, C. FARCASIU1 & A. OLARU1
1Pediatric Dentistry, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania;
2Removable Prosthodontics, Carol Davila University of Medicine and Pharmacy, Bucharest, Romania

P15-462 09:33~09:36
Case report: localized form of root malformation
Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P15-463 09:36~09:39
Prevalence of retained primary teeth in children treated at the Dental Hospital, Obafemi Awolowo University Teaching Hospital, Ile – Ife, Nigeria
C. A. SOFOWORA1 & T. A. OYEDELE2
1Department of Child Dental Health, Obafemi Awolowo University Teaching Hospital Complex, Osun State, Nigeria;
2Child Dental Health, Dental Hospital, Obafemi Awolowo University Teaching Hospital Complex, Osun state, Nigeria

P15-464 09:39~09:42
Developing odontoma associated with unerupted maxillary central incisor
J. E. LEE, Y. J. KIM, H. J. KIM & S. H. NAM
Pediatric Dentistry, Kyungpook National University, School of Dentistry, Daegu, Korea

P15-465 09:42~09:45
Relationship between the inclination of adjacent teeth caused by vertical malposition of the second primary molar and first molar formation stage
S. TAKAHASHI1, N. KOIZUMI1, T. OGIHARA1, K. WATANABE1, Y. OKUMURA1 & S. WATANABE1
1Pediatric Dentistry, Meikai University, Saitama, Japan;
2Dental Radiology, Meikai University, Saitama, Japan

Dental Anomalies (Group 2)
Chairpersons
Yasutaka Yawaka (Japan)
Noraini Yunus (Malaysia)
P15-466 08:30~08:33
Non-syndrome multiple supernumerary teeth

P15-467 08:33~08:36
The association between infant growth and the occurrence of developmental defects of enamel at 12 years old
H. M. WONG1, C. MCGRATH1, S. M. PENG1, T. PEI1 & N. KING2
1Faculty of Dentistry, The University of Hong Kong, Hong Kong, China;
2Faculty of Medicine, Dentistry and Health Sciences, The University of Western Australia, Perth, WA, Australia

P15-468 08:36~08:39
A rare root morphology in the permanent first molars
E. K. LEE, Y. J. KIM, H. J. KIM & S. H. NAM
Department of Pediatric Dentistry, School of Dentistry, Kyungpook National University, Daegu, Korea

P15-469 08:39~08:42
A fact-finding investigation of the orthodontic treatment for disabled children in early habilitation center
H. NAWA1, M. FUJII1, K. KATO1, M. TOMIIE1, T. FUJIWARA2, S. GOTO2 & O. FUKUTA1
1Department of Pediatric Dentistry, School of Dentistry, Aichi- Gakuin University, Nagaya, Japan;
2Department of Orthodontics, School of Dentistry, Aichi-Gakuin University, Nagaya, Japan

P15-470 08:42~08:45
Treatment of impacted maxillary permanent incisor using apically positioned flap
N. J. KIM
Yemisong Kids Dental Clinic, Daegu, Korea

P15-471 08:45~08:48
Mesiodens: a clinical and radiographic study in Japanese children
M. HARA1,2, T. HARUKI1, H. MATSUZAKI1, K. MORITA1, S. KIHIRA1 & J. I. ASAUMI1,2,3
New Visions for Paediatric Dentistry

152

1Haruki Pedo and Orthodontic Office, Akashi, Japan; 2Oral and Maxillofacial Radiology, Okayama University Graduate School of Medicine, Dentistry, and Pharmaceutical Sciences, Okayama, Japan; 3Oral Diagnosis and Dentomaxillofacial Radiology, Okayama University Hospital, Okayama, Japan

P15-472 08:48~08:51
A case report of ranula with marsupialization
K. H. LEE
Dream Dental Clinic, Daegu, Korea

P15-473 08:51~08:54
A radiographic study of tooth development in hypodontia
Y. WANG1 & H. LIU2
1Pediatric Dentistry, Tongji University School and Hospital of Stomatology, Shanghai, China; 2Pediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China

P15-474 08:54~08:57
Long term rehabilitation of dentinogenesis imperfecta: case report
H. J. CHO
Woori Kids Dental Clinic, Daegu, Korea

P15-476 08:57~09:00
Dental treatment of the patient with ectodermal dysplasia
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P15-477 09:00~09:03
Dental anomalies associated with cleft lip and palate in northern Finland
V. LEHTONEN1, L. YLIKONTIOLA1,2, S. KOSKINEN1, P. PESONEN1, G. K. SÁNDOR1,2 & V. ANTTONEN1,2
1Department of Pedodontics, Cariology and Endodontology, Institute of Dentistry, University of Oulu, Oulu, Finland; 2Oulu University Hospital, Oulu, Finland

Interceptive treatment of ectopically erupting maxillary permanent canines by extraction of primary canines
M. H. OH, H. J. AHN & Y. C. CHOI
Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea

P15-479 09:06~09:09
Non-surgery treatment of a big mandibular cyst hygroma in a mixed-dentition
Y. ZHANG, L. SONG & X. WANG
Department of Pediatric Dentistry, Dalian Stomatology Hospital, Dalian/Liaoning, China

P15-480 09:09~09:12
A case of macrostomia with supernumerary teeth
H. FUJITA1,2, T. UEHARA1, S. GOTO1, K. HIGUCHI1, Z. NAKAMURA2 & Y. ONO1
1Pediatric Dentistry, Tokyo Medical and Dental University, Tokyo, Japan; 2Dentistry, Tokyo Metropolitan Medical Center for Persons with Developmental/Multiple Disabilities, Tokyo, Japan

P15-481 09:12~09:15
Spontaneous eruption of a dilacerated central incisor: a case report
S. N. M. SAID & C. K. Y. YIU
Paediatric Dentistry, Faculty of Dentistry, The University of Hong Kong, Hong Kong, China

P15-482 09:15~09:18
A clinical study of congenital missing teeth in Korean children
H. K. JEONG, Y. M. YANG, J. G. KIM, B. J. BAIK & Y. J. MOON
Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

P15-483 09:18~09:21
Inhibition of the molar root formation by cyclophosphamide in young mice
T. KAWAKAMI, Y. NAKAMURA & H. KARIBE
Department of Pediatric Dentistry, The Nippon Dental University School of Life Dentistry at Tokyo, Tokyo, Japan

P15-484 09:21~09:24
Eruption failure of a permanent central incisor caused by idiopathic gingival fibromatosis
W. YAKOB1 & J. MAXIM2
Poster Session 16

15:30-18:00 B2 Hall (1F), COEX

Oral Medicine and Pathology (Group 1)
Chairpersons
Ji-Hun Kim (Korea)
Elena Maslak (Russian Federation)

P15-485 09:24-09:27
Complex odontoma of the anterior mandible
J. W. LEE, K. H. LEE & J. Y. RA
Wonkwang University, Department of Pediatric Dentistry, Iksan City, Korea

P15-487 09:27-09:30
Eruption guidance of impacted first permanent molar by surgical exposure
Y. J. CHO
ISEM Children’s Dental Clinic, Daegu, Korea

P15-488 09:30-09:33
Tricusped premolar tooth with buccal talon cusp in the maxilla: a case report
M. D. AKKURT
Pediatric Dentistry, Kayseri Military Hospital, Dental Clinics, Kayseri, Turkey

P15-489 09:33-09:36
Normal eruption guidance of unerupted permanent teeth associated with Dentigerous cyst by decompression: a report of two cases
J. E. KIM, H. K. SON, B. J. CHOI, S. O. KIM & H. J. CHOI
Department of Pediatric Dentistry, Yonsei University Dental Hospital, Seoul, Korea

P15-490 09:36-09:39
A state of the permanent central incisors by the difference in the tooth extraction time of mesiodens
C. NOMOTO & A. HONDA
Chias Dental Clinic, Ehime, Japan

P15-491 09:39-09:42
Familial occurrence of dentin dysplasia type 1
S. H. KIM, Y. J. KIM, H. J. KIM & S. H. NAM
Pediatric Dentistry, Kyungpook National University, School of Dentistry, Daegu, Korea

P15-492 09:42-09:45
Prevalence of fused teeth in primary dentition and their correlation with the permanent dentition
D. W. NAM
Kidstree Private Dental Office, Daegu, Korea

P16-493 10:30-10:33
Experience of low level light therapy in paediatric chemotherapy induced oro-pharyngeal mucositis
N. O’MURCHU, A. HUNTER, A. MCCLYMONT, P. MCCLAUGHLIN & R. WELBURY
Paediatric Dentistry Glasgow Dental Hospital and School, Oral Health Directorate, Greater Glasgow and Clyde, Glasgow, UK

P16-494 10:33-10:36
Spontaneous eruption of permanent teeth after marsupialization associated with dentigerous cysts
S. H. KIM, J. G. KIM, Y. M. YANG, B. J. BAIK & H. J. CHOI
Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

P16-495 10:36-10:39
Chronic oral graft-versus-host disease after bone marrow transplantation for beta thalassemia
S. TAEBUNPAKUL1, P. RUJKIJYANONT2, P. TAEBUNPAKUL3, B. NAVACHAROEN3 & A. LAM-UBOL3
1Department of Dentistry, Phramongkutklao Hospital, Bangkok, Thailand; 2Department of Pediatrics, Phramongkutklao Hospital, Bangkok, Thailand; 3Department of Oral Surgery and Oral Medicine, Faculty of Dentistry, Srinakharinwirot University, Bangkok, Thailand

P16-496 10:39-10:42
Distribution of airborne bacteria by handpiece aerosol condition
Y. H. KO, B. J. BAIK, J. G. KIM, Y. M. YANG & J. H. KIM
Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

P16-497 10:42-10:45
The prevalence of gingival disease in type 1 diabetes mellitus Saudi Arabian children
O. OSUJI¹, O. BABIKER², S. AL-ABDI² & N. AL-IBRAHIM¹
¹Dental & Maxillofacial, King Abdulaziz National Guard Hospital, Al Ahsa, Saudi Arabia; ²Pediatrics, King Abdulaziz National Guard Hospital, Al Ahsa, Saudi Arabia

Burkitt’s lymphoma presenting as an aggressive destruction of alveolar bone
E. H. LEE¹, J. Y. KIM² & K. T. PARK¹
¹The Institute of Oral Health Science, Samsung Medical Center, Sungkyunkwan University School of Medicine, Seoul, Korea; ²Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Dental Research Institute, Busan, Korea

Multiple ankylosis on maxillary and mandibular primary molars without permanent successor
H. H. JUNG¹,² & J. H. LEE¹
¹Department of Pediatric Dentistry, College of Dentistry, YONSEI University, Seoul, Korea; ²Department of Pediatric Dentistry, Yonsei Well Kids Dental Clinic, Yong-In, Yong-In, Korea

Management of generalized aggressive periodontitis in the primary dentition: a case report
A. SPOERRI¹, C. MORET-SIGNORELLI¹, J. ERB1, P. SCHMIDLIN2, R. STEFFEN1 & H. VAN WAES1
¹University Zurich, Center for Dental Medicine, Clinic for Orthodontics and Paediatric Dentistry, Zurich, Switzerland; ²University Zurich, Center for Dental Medicine, Clinic for Preventive Dentistry, Cariology and Periodontology, Zurich, Switzerland

Effectiveness of marsupialization as a treatment method for preservation of teeth involved with cystic lesion
S. N. CHOI, Y. J. KIM, H. J. KIM & S. H. NAM
Pediatric Dentistry, Kyoungpook National University, School of Dentistry, Daegu, Korea

Eruption guidance of odontoma-related impacted permanent molars: case report
S. Y. KIM¹,², Y. C. CHO¹ & K. C. KIM¹
¹Department of Pediatric Dentistry, Kyung Hee University Dental Hospital at Gang-dong, Seoul, Korea; ²Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea

Pyogenic granuloma in a 23-month old girl – a case report
Y. J. LEE¹,², Y. C. CHO¹ & K. C. KIM¹
¹Department of Pediatric Dentistry, Kyung Hee University Dental Hospital at Gang-dong, Seoul, Korea; ²Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea

Effectiveness of marsupialization as a treatment method for preservation of teeth involved with cystic lesion
S. N. CHOI, Y. J. KIM, H. J. KIM & S. H. NAM
Pediatric Dentistry, Kyoungpook National University, School of Dentistry, Daegu, Korea

Oral burkitt’s lymphoma and dental management: a case report
D. VEERARITTIPHAN & C. PLOYPRADITH
Dentistry, Chiangrai Prachanukroh, Chiangrai, Thailand

Unicystic ameloblastoma: a case report
S. J. CHOI
Pediatric Dentistry, Gangneung-Wonju National University, Gangneung city, Korea

The comparative study of Horseradish (Armoracia rusticana) root extracts and chlorhexidine against oral pathogens

Local immunity in the oral cavity in children with acute herpetic stomatitis
L. DROBOTKO & S. STRAKHOVA
Paediatric Dentistry, Moscow State Univeristy of Medicine and Dentistry, Moscow, Russian Federation

Treatment of the displaced permanent tooth bud by extraction of infected primary tooth with periapical lesion
H. S. PARK
Pediatric Dentistry, ISEM Children’s Dental Clinic, Daegu, Korea

The comparative study of Horseradish (Armoracia rusticana) root extracts and chlorhexidine against oral pathogens

Pyogenic granuloma in a 23-month old girl – a case report
N. Y. YU  
Pediatric Dentistry, Gangneung-Wonju National University, Gangneung City, Korea  
P16-511  11:18–11:21
Pfapa syndrome: a case report in dental practice 
V. JIRARATTANASOPA¹, W. SRI-AULARAWAT¹, S. THANAKUN¹ & P. LEELATAWEEWUD¹  
¹Pediatric Dentistry, Mahidol University, Bangkok, Thailand; ²Oral Medicine and Periodontology, Mahidol University, Thailand

Oral Medicine and Pathology (Group 2)  
Chairpersons: Saul Paiva (Brazil), Seikou Shintani (Japan)  
P16-512  10:30–10:33
The antibacterial activity of Horseradish (Armoracia rusticana) root extracts against Streptococcus mutans isolated from human dental plaque 
H. K. KIM  
Pediatric Dentistry, Gangneung-Wonju National University, Gangneung City, Korea

P16-513  10:33–10:36
Histopathological observation of root resorption surface of maxillary primary central incisor 
Pediatric Dentistry, College of Dentistry, Yonsei University, Seoul, Korea

P16-514  10:36–10:39
Salivary diagnostics of children with familial Mediterranean fever (FMF) 
N. YURCHENKO¹, V. ELIZAROVA¹, A. GORELOV¹, G. AMARYAN² & A. SARGSYAN²  
¹Moscow State University of Medicine and Dentistry, Moscow, Russia; ²Joint Medical Centre-Arbkir, Yerevan, Armenia

P16-515  10:39–10:42
Burkitt’s lymphoma of the mandible in a child 
K. H. YUN, S. E. LEE, K. C. KIM & J. H. PARK  
Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea

P16-516  10:42–10:45
Exophytic lesions of the oral mucosa treated surgically in pediatric patients of dental surgery clinic for children during the period 2009–2012  
E. KRASUSKA-SLAWINSA¹, B. KOEBER¹, D. OL-CZAKOWALCZYK² & M. PRONICKI²  
¹The Children Memorial Health Institute, Dental Surgery Clinic for Children, Warsaw, Poland; ²Medical University, Department of Paediatric Dentistry, Warsaw, Poland; ³The Children Memorial Health Institute, Department of Pathology, Warsaw, Poland

P16-517  10:45–10:48
Congenital granular cell tumors of the gingiva  
J. Y. RIM, J. H. JUNG, J. H. PARK & K. C. KIM  
Department of Pediatric Dentistry, School of Dentistry, Kyung-Hee University, Seoul, Korea

P16-518  10:48–10:51
The effect of inter-incisor opening, cavity location and operator experience on the energy delivered by light curing unit to simulated dental restoration  
A. SANTINI², E. ROEBUCK², N. A. HARUN¹², A. SANTINI² & E. ROEBUCK²  
¹Paediatric Dentistry Unit, Kulliyyah of Dentistry, International Islamic University Malaysia, Kuantan, Pahang, Malaysia; ²Edinburgh Dental Institute, University of Edinburgh, Edinburgh, UK

P16-519  10:51–10:54
Oral manifestation of DiGeorge syndrome  
A. MATOSEK¹, D. OL CZAK-KOWALCZYK² & M. PAC³  
¹Clinic of Pediatric Dentistry, The Children's Memorial Health Institute, Warsaw, Poland; ²Department of Pediatric Dentistry, Medical University of Warsaw, Warsaw, Poland; ³Department of Immunology, The Children's Memorial Health Institute, Warsaw, Poland

P16-520  10:54–10:57
Radicular cyst enucleation on mandibular anterior region  
Department of Pediatric Dentistry, School of Dentistry, Kyung-Hee University, Seoul, Korea

P16-521  10:57–11:00
Risk factors for oral mucositis in paediatric acute lymphoblastic leukemia patients undergoing hematopoietic stem cell transplantation
T. PAPRUZHENKA, T. TSERAKHAVA & S. BORIS
Department of Paediatric Dentistry, Belarus State Medical University, Minsk, Belarus

P16-522 11:00–11:03
Problematic progonomas: the melanotic neuroectodermal tumour of infancy
R. JENNINGS1,2, S. WONG1,2, W. NICHOLLS1 & N. KING2
1Dental Department, Princess Margaret Hospital for Children, Perth, WA, Australia; 2Department of Paediatric Dentistry, University of Western Australia, Perth, WA, Australia

P16-523 11:03–11:06
Calcifying cystic odontogenic tumor: a case report
M. H. HSU, M. L. CHIANG & L. P. CHEN
Department of Pediatric Dentistry, Chang Gung Memorial Hospital, Chang Gung University College of Medicine, Taipei, Taiwan

P16-524 11:06–11:09
Peripheral odontoma in a child: case report of an uncommon gingival lesion
Department of Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P16-526 11:09–11:12
Severe chronic neutropenia: do patients in the era of granulocyte colony-stimulating factor (G-CSF) still suffer from periodontal diseases?
R. SCHILKE1, F. B. FELGENHAUER1, C. H. FINKE2 & W. GEURTSEN1
1Department of Conservative Dentistry, Periodontology and Preventive Dentistry, Hanover Medical School, Hannover, Germany; 2Department of Orthodontics, Dentofacial Orthopedics and Pedodontics, Charité – University Medicine Berlin, Berlin, Germany

P16-528 11:12–11:15
Conservative surgical treatment of keratocystic odontogenic tumor: case reports
Y. S. KIM, S. Y. SHIN, Y. M. YANG, J. G. KIM & B. J. BAIK
Department of Pediatric Dentistry, Chonbuk National University, Jeonju, Korea

P16-530 11:15–11:18
Severe bone loss secondary to subgingival displacement of an elastic band: a case report
Pediatric Dentistry, School of Dentistry, Seoul National University, Seoul, Korea

P16-531 11:18–11:21
Case report: dentigerous cyst in children
R. S. TANG1,2,5, C. F. LEE3 & S. T. HUANG4,5
1School of Dentistry, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan; 2Pediatric Dentistry, Hengchun Christian Hospital, Pingtung, Taiwan; 3Oral and Maxillofacial Surgery, Hengchun Christian Hospital, Pingtung, Taiwan; 4Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan; 5Division of Dentistry for Children and Disabled, Department of Dentistry, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan

Poster Session 17
10:30–12:00 B2 Hall (1F), COEX
Endodontics 1

P17-532 10:30–10:33
Revascularization of a necrotic traumatized incisor, a 3 years case report
M. PHILABOUT, M. MARTORELL, C. ARTAUD & C. NAULIN-IFI
Pediatric Dentistry Department, University of Paris VII Garanciere, Paris, France

P17-533 10:33–10:36
In vitro and in vivo characteristics of stem cells derived from the periodontal ligament of human deciduous and permanent teeth
M. J. JEON, J. H. LEE & J. S. SONG
P17-534 10:36–10:39
Sodium hypochlorite vs formocresol in primary molar pulpotomy: a randomized clinical trial
O. BAWAZIR & M. AL-MUTAIRI
Department of Pediatric Dentistry and Orthodontics, King Saud University, College of Dentistry, Riyadh, Saudi Arabia

P17-535 10:39–10:42
The effect of different diameter of culture dish on three-dimensional periodontal ligament cell pellet cultivation
W. JUN
Department of Pediatric & Preventive Dentistry, School of Stomatology, Shanghai Jiaotong University, Shanghai, China

P17-536 10:42–10:45
Comparative gene expression analysis of the human dental pulp in deciduous and permanent teeth
J. H. KIM¹, M. J. JEON¹, J. S. SONG¹, J. H. LEE¹, B. J. CHOI¹, H. S. JUNG², S. J. MOON³, P. K. DENBESTEN⁴ & S. O. KIM⁴
¹Department of Pediatric dentistry, Oral Science Research Center, College of Dentistry, Yonsei University, Seoul, Korea;
²Division in Histology, College of Dentistry, Yonsei University, Seoul, Korea;
³Division in Pharmacology, College of Dentistry, Yonsei University, Seoul, Korea;
⁴University of California San Francisco, California San Francisco, USA

P17-537 10:45–10:48
Non-surgical endodontic treatment of type III dens invaginatus in maxillary canine: a case report
C. ALTUN¹, E. MADEN¹ & M. BANI¹
¹Department of Pediatric Dentistry, Center of Dental Sciences, Gulhane Medical Academy, Ankara, Turkey;
²Department of Pediatric Dentistry, Center of Dental Sciences, Gulhane Medical Academy, Ankara, Turkey;
³Department of Pediatric Dentistry, Center of Dental Sciences, Gulhane Medical Academy, Ankara, Turkey

P17-538 10:48–10:51
Fifteen-month results of treatment with three incomplete caries removal techniques in primary molars with deep caries or reversible pulpitis
P. CHOMPU-INWAI & K. BOONSONGSAWAT
Orthodontics and Pediatric Dentistry, Faculty of Dentistry, Chiangmai University, Chiangmai, Thailand

P17-539 10:51–10:54
Effect of pulpectomy with calcium hydroxide (Vitapex) on early exfoliation of primary incisors
S. JUN, S. H. YOO & J. S. KIM
Pediatric Dentistry, Dankook University Dental Hospital, Cheonan, Korea

P17-540 10:54–10:57
Treatment of non-vital primary teeth with iodoform and calcium hydroxide
I. KORHAN GIDER¹ & B. KARABULUT¹
¹Pedodontics, GMMA Haydarpasha Training Hospital, Istanbul, Turkey; ²Orthodontics, GMMA Training Hospital, Ankara, Turkey

P17-541 10:57–11:00
Case reports of various clinical applications of Biodentine in young permanent teeth
T. SUTHARAPHAN, W. CHINADET & P. CHOMPU-INWAI
Department of Orthodontics and Pediatric Dentistry, Faculty of Dentistry, Chiangmai University, Chiangmai, Thailand

P17-542 11:00–11:03
Fibrillin-1 and Fibrillin-2 expression in craniofacial development
K. OKA¹, M. KIRA¹, E. TSURUGA², Y. SAWA³ & M. OZAKI¹
¹Section of Pediatric Dentistry, Department of Oral Growth and Development, Fukuoka Dental College, Fukuoka, Japan;
²Section of Functional Structure, Department of Morphological Biology, Fukuoka Dental College, Fukuoka, Japan

P17-543 11:03–11:06
Regenerative endodontic treatment of immature permanent teeth by using triple antibiotic paste and Platelet-rich Fibrin: a case report
H. N. KIM, N. Y. LEE & S. H. LEE
Pediatric Dentistry, Chosun University Dental Hospital, Gwang-ju, Korea
P17-544 11:06–11:09
Isolation and neural differentiation of dental papilla-derived neural stem cell
E. J. LEE, K. C. KIM & J. H. PARK
Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea

P17-545 11:09–11:12
Antibacterial effect of ozonated water against Fusobacterium nucleatum and Porphyromonas endodontalis in vitro
M. CHEN & Q. SHI
Pediatric, Capital Medical University, Beijing Stomatological Hospital, Beijing, China

P17-546 11:12–11:15
The expression of fibrillin-1 and fibrillin-2 during tooth development
M. KIRA1,2, K. OKA1, E. TSURUGA2, Y. SAWA2 & M. OZAKI1
1Fukuoka Dental College, Section of Pediatric Dentistry, Department of Oral Growth and Development, Fukuoka, Japan; 2Fukuoka Dental College, Section of Functional Structure, Department of Morphological Biology, Fukuoka, Japan

P17-547 11:15–11:18
Adhesion of odontoblasts to type I collagen
B. R. JEONG, M. K. AHN & S. KIM
Department of Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea

P17-548 11:18–11:21
Cytotoxic effect of BiodentineTM on dental pulp stem cells
G. OZBAY1, A. BANU ERTAN2, G. KOSE3 & B. KARGUL1
1Department of Pediatric Dentistry, Marmara University, Dental School, Istanbul, Turkey; 2Department of Genetics and Bioengineering, Yeditepe University, Istanbul, Turkey; 3Department of Genetics and Bioengineering, Yeditepe University, BIOMATEN Center of Excellence in Biomaterials and Tissue Engineering, METU, Istanbul, Turkey

P17-550 11:21–11:24
Single antibiotic effect in endodontic strains
S. G. KIM1, S. E. LEE1, J. Y. LEE2 & J. H. PARK1
1Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea; 2Department of Maxillofacial Biomedical Engineering, School of Dentistry, Kyung Hee University, Seoul, Korea

Poster Session 18
14:00–15:30  B2 Hall (1F), COEX
Endodontics 2
Chairpersons
Jiyoung Ra (Korea)
Anthony Tsai (Taiwan)

P18-552 14:00–14:03
Use of light speed LSX rotary in deciduous molars
Pediatric Dentistry Postgraduate Program, Facultad de Odontología, Universidad Autónoma de Baja California, México

P18-553 14:03–14:06
A study on the viability of the PDL cell according to the various concentration of epigallocatechin-3-gallate
E. K. YOU, K. C. KIM & S. C. CHOI
Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea

P18-554 14:06–14:09
Lipopolysaccharide induces the migration of human dental pulp cells by up-regulating miR-146a
M. C. WANG1, W. Y. SHIH1, P. S. HUNG2 & K. W. CHANG2
1Stomatology, Taipei Veterans General Hospital, Taipei, Taiwan; 2Dentistry, National Yang Ming University, Taipei, Taiwan

P18-555 14:09–14:12
DNA/protamine complex can induce bone-formation
M. TODA1,2, J. OHNO2, M. OZAKI1, T. HAYAKAWA3 & T. FUKUSHIMA4
1Department of Oral Growth and Development, Division of Pediatric Dentistry, Fukuoka Dental College Medical and Dental Hospital, Fukuoka, Japan; 2Department of Morphological Biology, Pathology section, Fukuoka Dental College Medical and Dental Hospital, Fukuoka, Japan; 3Department of Dental Engineering, Tsurumi University School of Dental Medicine, Kanagawa, Japan; 4Center for Regenerative Medicine, Fukuoka Dental College Medical and Dental Hospital, Fukuoka, Japan
P18-557  
14:12–14:15
The prognosis for teeth treated with pulpotomy in combination with er:YAG laser
Y. HORIKAWA1,2, E. HORIKAWA1, N. HORIKAWA1 & M. INOUE2
1Horikawa Clinic, TSukuba, Ibaraki, Japan; 2Pediatric Dentistry, Showa University School of Dentistry, Ohta, Tokyo, Japan

P18-558  
14:15–14:18
The use of photo-activated oral disinfection in pulpectomy of primary molars
F. ABDEL GAWAD, M. RASHED & O. E. SHAHAWY Pediatric Dentistry, Faculty of Oral & Dental Medicine, Cairo University, Cairo, Egypt

P18-559  
14:18–14:21
Comparative analysis of in vitro periodontal properties of stem cells from apical papilla (SCAP) and periodontal ligament stem cells (PDLSCS)
K. CHEN, H. XIONG & Y. HUANG
Stomatology, Guangzhou Women and Children’s Hospital, Guangzhou, China

P18-560  
14:21–14:24
Apexogenesis of immature permanent teeth with periapical lesions using MTA
Y. M. YOON, S. H. LEE & N. Y. LEE
Pediatric Dentistry, Chosun University Dental Hospital, Gwangju, Korea

P18-561  
14:24–14:27
Intensity of blood flow in the pulp of permanent teeth in 6–17 years old Russian children assessed using laser doppler flowmetry
E. UTKINA1,2, M. GORBATOVA1,2, L. GORBATOVA1 & A. GRJIBOVSKI1,3
1International School of Public Health, Northern State Medical University, Arkhangelsk, Russian Federation; 2Department of Paediatric Dentistry, Northern State Medical University, Arkhangelsk, Russian Federation; 3Department of International Public Health, Norwegian Institute of Public Health, Oslo, Norway

P18-562  
14:27–14:30
In vitro evaluation of the antimicrobial activity of an iodoform-based canal filling paste, proposed as an alternative for pulpectomies in deciduous teeth

P18-563  
14:30–14:33
The exploration of the newly formed tissues at different time after regenerative endodontic treatment using the cutting-grinding technique in cat’s canine model
Z. F. BAO1,2, Y. LI1, X. CHEN1,2, R. B. SONG3, Y. LIU1,2 & D. D. ZHANG1
1Department of Pediatric Dentistry, School of Stomatology, China Medical University, Shenyang, China; 2Laboratory of Pediatric Dentistry, Liaoning Stomatology Research Institute, Shenyang, China; 3Central Laboratory, School of Stomatology, China Medical University, Shenyang, China

P18-564  
14:33–14:36
Biological response of dental pulp cells derived from human deciduous teeth to PRG cement
M. FUJITA, K. OKUBO, M. MATSUZAWA, R. KOMORI & S. KIMOTO
Division of Pediatric Dentistry, Department of Craniofacial Development Dentistry Kanagawa Dental College, Kanagawa, Japan

P18-565  
14:36–14:39
Preliminary molecular analysis of bacterial composition in periapical lesions associated with endodontic infections of deciduous teeth
J. SHANG1, Q. YANG2, H. Y. ZHAO3, S. CAI1, Y. ZHOU1 & Z. SUN4
1Department of Pediatric Dentistry, Beijing Stomatological Hospital, Capital Medical University, Beijing, China; 2Beijing Institute for Dental Research, Beijing Stomatological Hospital, Capital Medical University, Beijing, China; 3Medical Experiment and Test Center, Capital Medical University, Beijing, China; 4Department of Oral Medicine, Beijing Stomatological Hospital, Capital Medical University, Beijing, China

P18-566  
14:39–14:42
Reversible pulpitis in the first permanent molar
A. GETSMAN
Department of Pediatric Dentistry, Pediatric clinic, Moscow, Russian Federation
P18-567 14:42–14:45
Processing of NF-B2 and the nuclear localization of RelB are required for rankl induced osteoclast differentiation
R. TANIGUCHI1, H. FUKUSHIMA2, E. JIMI2 & K. MAKI1
1Division of Developmental Stomatognathic Function Science, Kyushu Dental University, Fukuoka, Japan; 2Division of Molecular Signaling and Biochemistry, Kyushu Dental University, Fukuoka, Japan

P18-568 14:45–14:48
Effectiveness of different methods of sterilization and their effect on the physical properties of endodontic instruments
R. CHHABRA1, V. RANA2, N. SRIVASTAVA3, P. CHANDNA4 & B. THAKURIA5
1Department of Paedodontics and Preventive Dentistry, Subharti Dental College, Swami Vivekanand Subharti University, Meerut/ Uttar Pradesh, India; 2Department of Paedodontics and Preventive Dentistry, Subharti Dental College, Swami Vivekanand Subharti University, Meerut/ Uttar Pradesh, India; 3Department of Paedodontics and Preventive Dentistry, Subharti Dental College, Swami Vivekanand Subharti University, Meerut/ Uttar Pradesh, India; 4Department of Paedodontics and Preventive Dentistry, Subharti Dental College, Swami Vivekanand Subharti University, Meerut/ Uttar Pradesh, India; 5Department of Paedodontics and Preventive Dentistry, Subharti Dental College, Swami Vivekanand Subharti University, Meerut/ Uttar Pradesh, India

P18-569 14:48–14:51
Comparative gene-expression analysis of dental follicle and periodontal ligament in humans
1Graduate Student, Department of Pediatrics, College of Dentistry, Yonsei University, Seoul, Korea; 2Department of Pediatrics, College of Dentistry, Oral Science Research Center, Yonsei University, Seoul, Korea; 3Department of Oral Biology, College of Dentistry, Oral Science Research Center, Yonsei University, Seoul, Korea; 4Department of Pediatric Dentistry, Gangneung-Wonju National University, Gangneung, Gangneung, Korea

P18-570 14:51–14:54
Epstein-Barr virus in periapical lesions of deciduous teeth
B. GAO1, W. CHEN2, H. FENG3 & W. ZHOU4
1Pediatric Dentistry, School and Hospital of Stomatology, Guangxi Medical University, Nanning, Guangxi, China; 2Endodontics, School and hospital of stomatology, Guangxi Medical University, China

P18-571 14:54–14:57
Micro CT technology in micro-invasive root canal treatment – an vitro experimental study
H. JIAO
Department of Preventive Dentistry, Hanghai Stomatology Disease Centre, Shanghai, China

Poster Session 19
14:00-15:30  B2 Hall (1F), COEX  Prevention (Group 1)

Chairpersons
So Youn An (Korea)
Figen Seymen (Turkey)

P19-573 14:00–14:03
Control of plaque and gingivitis and the anti-caries effect of dentifrice containing Horseradish extracts
H. W. SEO1, H. W. PARK1, J. S. KIM2, S. Y. LEE3 & I. S. SHIN4
1Pediatric Dentistry, Gangneung-Wonju National University, Gangneung, Gangneung, Korea; 2Pediatric Dentistry, Dankook University, Cheonan, Korea; 3Microbiology and Immunology, Gangneung-Wonju National University, Gangneung, Korea; 4Division of Marine Food Science & Technology, Gangneung-Wonju National University, Gangneung, Korea

P19-574 14:03–14:06
Plaque removal efficacy using a manual toothbrush with unique brush design
K. TOKUI, K. YOKONUMA, E. YOSHII & T. KUMAGAI
R&D Department, GC Corporation, Tokyo, Japan

P19-575 14:06–14:09
Caries risk factors among Finnish 24-month-old children
M. L. LAITALA, J. M. LAAKSO & V. ANTONEN
1Institute of Dentistry, University of Oulu, Oulu, Finland; 2Ylivieska Public Health Care Centre, Ylivieska, Finland; 3Oulu University Hospital, Oulu, Finland

SCIENTIFIC PROGRAM

P19-576 14:09~14:12
A clinical study of comprehensive dental care for severe early childhood caries (s-ECC) in urban area in china
Y. SI, S. ZHENG, X. SUN, W. WANG, M. LIU, C. YUAN & X. CHEN
Preventive Dentistry, Peking University School and Hospital of Stomatology, Beijing, China

P19-577 14:12~14:15
Effectiveness of two methods of caries risk assessment and recall intervals on caries lesion prevention in primary teeth
J. ABANTO, P. CELIBERTI, B. G. PETERS, T. CORDESCHI, M. M. BRAGA, K. EKSTRAND & M. BÖNECKER
1Paediatric Dentistry Department, University of Sao Paulo, Sao Paulo, Brazil; 2Cariology Department, University of Copenhagen, Copenhagen, Denmark

P19-578 14:15~14:18
Effects of topical fluoride applications on enamel surface roughness of artificially demineralized human primary and permanent teeth
S. E. WOO, S. H. NAM, H. J. KIM & Y. J. KIM
Pediatric dentistry, Kyungbook National University, Dague, Korea

P19-579 14:18~14:21
Laser irradiation on the surface characteristics of tooth enamel for caries prevention
J. H. LEE
Department of Pediatric Dentistry, Gangneung-Wonju National University, Gangneung, Korea

P19-581 14:21~14:24
Early prevention of childhood caries with maternal xylitol consumption: clinical trial
1Preventive Dental Sciences Department, Faculty of Dentistry, King Abdulaziz University, Jeddah, Saudi Arabia; 2Preventive Dental Sciences Department, Faculty of Dentistry, King Abdulaziz University, Jeddah, Saudi Arabia; 3Preventive Dental Sciences Department, Faculty of Dentistry, King Abdulaziz University and Al Zhar University, Faculty of Dental Medicine for Girls, Pedodontic Department, Cairo, Egypt, Jeddah, Saudi Arabia; 4Preventive Dental Sciences Department, Faculty of Dentistry, King Abdulaziz University and Cairo University, Faculty of Medicine, Public Health and Community Medicine Department, Jeddah, Saudi Arabia

P19-582 14:24~14:27
Preventive effect of PVA- polymer adhesive tape supplemented with Naf on enamel erosion in vitro
S. G. LIM, S. H. LEE & N. Y. LEE
Pediatric dentistry, Chosun University, Gwangju, Korea

P19-583 14:27~14:30
Antimicrobial activity of different fluoride content solutions
A. MAMEDOV, A. SHLOMINA, A. MAKHMUDOVA, E. SKATOVA & Y. KOZLITINA
Department of Paediatric Dentistry and Orthodontics, I.M. Sechenov First Moscow State Medical University, Moscow, Russian Federation

P19-584 14:30~14:33
Relationship between children’s oral hygiene status and caries activity
X. CHEN
General dentistry, Minhang District Clinic, Shanghai, China

P19-585 14:33~14:36
Effects of fluoride varnish on the level of Streptococcus mutans in orthodontic patients
E. J. KIM & S. H. OH
Pediatric Dentistry, Hallym Sacred Heart Hospital, Anyang, Korea

P19-586 14:36~14:39
Comparative characteristics of trace element composition of the surface layers of enamel impacted and erupted teeth
Y. SADALSKI, A. SILIN & E. SATYGO

161
Six years follow-up study of effects of school visiting fluoride-mouth-rinsing program on children’s oral condition in Vava’u island, kingdom of Tonga in the south pacific

T. FUJISE1,2, S. TOMIKI3, S. KISINA4,5, S. TU‘IHALAMAKA4,5, M. KOMATSUBARA4 & A. ITO2
1Pediatric Dentistry, Kagoshima University, Kagoshima, Japan; 2Former, JICA (Japan International Cooperation Agency) Volunteers, Tokyo, Japan; 3Present, JICA (Japan International Cooperation Agency) Volunteers, Tokyo, Japan; 4Dental Clinic, Prince Wellington Ngui Hospital, Vava’u, Tonga; 5Dental Department, Ministry of Health, Tongatapu, Tonga

In vitro study of demineralization inhibition effect and fluoride uptake into adjacent teeth of light-cured fluoride-releasing restoratives

S. Y. KIM, H. J. AHN & J. H. PARK
Department of Pediatric Dentistry, School of Dentistry, Kyung Hee University, Seoul, Korea
162

P19-596 14:18–14:21
A free pit and fissure sealant project in dalian city of China
J. YING, Z. YINGHUA, W. XIN, M. XUEYING, C. XIAODONG & M. WEIDONG
Pediatric Dentistry, Dalian Stomatological Hospital, Stomatological Hospital Affiliated To Dalian University, Dalian China, Dalian, China

P19-597 14:21–14:24
Are highly-filled sealants suitable for preventive pit and fissure sealing?
A. EMAMI-NAMINI1, S. LÜCKER1, R. FRANKENBERGER2 & N. KRÄMER1
1Department of Pediatric Dentistry, Medical Center for Dentistry, University Medical Center Giessen and Marburg, Campus Giessen, Gießen, Germany; 2Department of Operative Dentistry and Endodontics, Medical Center for Dentistry, University Medical Center Giessen and Marburg, Campus Marburg, Marburg, Germany

P19-598 14:24–14:27
Efficiency of remineralization treatment for demineralization of deciduous teeth in infants: a half-year clinical trial
W. ZHU, J. WU & J. WANG
Department of Oral Health Care, Affiliated Maternity and Child Health Hospital, Nanjing Medical University, Nanjing, China

P19-599 14:27–14:30
Clinical working model for early caries control employing team dentistry
T. JOENSUU1,2, S. PIETINEN2, P. ALANEN1 & K. PIENIHÄKKINEN1
1Institute of Dentistry, University of Turku, Turku, Finland; 2Institute of Dentistry, University of Oulu, Oulu, Finland

P19-600 14:30–14:33
Assessment of ingested fluoride from toothpaste during brushing in some Egyptian children
M. RASHED1, N. E. DOKKY1 & H. SHAFEI2
1Pediatric Dentistry and Dental Public Health Department, Faculty of Oral & Dental Medicine, Cairo University, Cairo, Egypt; 2National Research Institute, Cairo, Egypt
Andreas Agouropoulos  
Paediatric Dentistry of Athens University  
Greece

Dr. Andreas Agouropoulos was born in Greece and graduated from the University of Athens, Dental School in 1997. He received a Certificate in Paediatric Dentistry from Tufts University, School of Dental Medicine, Boston, USA in 2003 and a M.Sc. Degree in Oral Biology from the University of Athens in 2008. He completed his PhD in Oral Biology at the University of Athens in 2012. Since 2003 he is working in private practice and as a clinical instructor at the Department of Paediatric Dentistry of Athens University. He is also involved in public health as member of the scientific committee of a national preventive program for school age children and also the coordinator of a preventive program for preschool children, both supported by the Hellenic Dental Association.

He is a member of the Board of the Hellenic Society of Paediatric Dentistry and member of other scientific societies. He has participated as a speaker in several congresses in Greece and abroad. His research interest is in prevention of dental caries, and obesity in children.

Eduardo Alcaino  
The University of Sydney  
Sydney Dental Hospital (SDH) and the Westmead Centre for Oral Health (WCOH)  
Australia

Dr Alcaino was born in Santiago, Chile, where he started his university training. He then moved to Sydney, Australia in 1983 where he then again commenced his university training. After completing his Bachelor degree (BDS-Hons) in 1988 at the University of Sydney, he worked in general dental practice for 8 years and has been involved in teaching since graduation. He works in specialist paediatric private practice since 1999. He is currently a Clinical Associate Lecturer with the University of Sydney and a visiting specialist to both the Sydney Dental Hospital (SDH) and the Westmead Centre for Oral Health (WCOH) in NSW. He gained his Fellowship with the Royal Australasian College of Dental Surgeons (RACDS) in 1992 and Membership in 2011 (MRACDS- Paediatric Dentistry). His main area of interest within paediatric dentistry is sedation. After completing his thesis in general anaesthesia and further training in sedation, he has lectured extensively nationally and internationally on this topic.

Dr Alcaino is President of the International Association of Paediatric Dentistry (IAPD). He has been involved in several committees within IAPD over the years. He is a past President of the Australian and New Zealand Society of Paediatric Dentistry (ANZSPD- NSW Branch) and a past Secretary/Treasurer of the IAPD Congress held in Sydney in 2005. He has been an active member of the board of directors for the last six years.
Present Appointments

Visiting Specialist in Paediatric Dentistry at the Westmead Centre for Oral Health, Westmead, New South Wales (NSW)
Honorary Visiting Specialist at Sydney Dental Hospital, Surry Hills, NSW
Board of Studies - Paediatric Dentistry, Royal Australasian College Dental Surgeons
Examiner in Paediatric Dentistry - Australian Dental Council (ADC)
Clinical Associate Lecturer, University of Sydney, Australia
Specialist Practice, Paediatric Dentistry, Sydney

Professional Affiliations and Associated Appointments

International Association of Paediatric Dentistry (IAPD) - President
American Academy of Paediatric Dentistry (AmAPD)
European Academy of Paediatric Dentistry (EAPD)
International Association of Dental Traumatology (IADT)
Australian & New Zealand Society of Paediatric Dentistry - ANZSPD
Royal Australasian College of Dental Surgeons - RACDS
Australasian Academy of Paediatric Dentistry (AAPD)
Society for Pediatric Sedation (SPD)
Australasian Society of Dental Anaesthesiology (ASDA)
Australian Dental Association

Willem Amerongen
Academic Centre of Dentistry Amsterdam (ACTA)
Netherlands

Willem Evert van Amerongen has been born on 8-6-'47 in Enschede, the Netherlands.

He started his dental education in 1966 in Utrecht and graduated in 1972. Immediately after his graduation he started fulltime at the department of Conservative Dentistry of the Free University in Amsterdam. Already as undergraduate he was interested in Paediatric Dentistry, resulting in a part time job at this department as "student-assistant". In the same period he also was "student-assistant" at the department for Material Science.

In 1980 he defended his PhD with the title: Quality aspects of activities of dental nurses. Before and after this year he was respectively part time and fulltime working at the paediatric department, so also after the merge between the dental schools of the Free University and the University of Amsterdam to the Academic Centre
for Dentistry Amsterdam (ACTA).
Since 1986 he is head of the department of Paediatric Dentistry. His activities were in principle focussed on
education of dental students, patient treatment, research and management. A list of publications is added to
this CV. In the same period he also was promoted to Associate Professor. In addition to the list of over 100
(mainly international) publications he wrote some chapters in books about early childhood caries, ART
(Atraumatic Restorative Treatment) and Paediatric Dentistry (Part 1 and Part 2). Of the latter he is also the
chief editor. He has also written parts of three chapters in the book on dental caries of Fejerskov and Kidd. In
1985 he wrote a book for dental assistants on materials in the dental practice. Since June 2007 four books on
Case reports in Paediatric Dentistry have been published under his supervision (chief editor)

Since 1989 he got involved in activities of the WHO concerning the Atraumatic Restorative Treatment,
resulting in a number of projects in developing countries. Due to these activities his interests moved
somewhat towards more community-based aspects of (caries risk) child populations. Due to many contacts
he has developed a number of under- and postgraduate research projects in these countries. Besides the
supervision of undergraduates he also supervised a number of PhD-students, as well as from the
Netherlands as from other countries like Pakistan, Kenya and Brazil.

During six years he has been President of the Dutch Association of Paediatric Dentistry (1998-2004) and since
2002 councillor for the Netherlands of the European Academy of Paediatric Dentistry (EAPD).

Since 2005 he was also councillor of the International Association of Paediatric Dentistry (IAPD). Finally he
was president of the organizing committee of the EAPD congress 2006 in Amsterdam. In 2007 he was elected
in the board of the IAPD till 2011.

Further he became in 2004 honorary member of the Dutch Association of Paediatric Dentistry.

During his professional carrier he has been member of many Dutch dental committees, has participated in
the scientific editorial board of Dutch and Brazilian paediatric (dental) journals and has given many national
and international lectures and courses.

Since July 2010 is retired. He is now visiting professor of the University of Pernambuco (Recife, Brazil) and
the University of Sao Paulo (Sao Paulo, Brazil).

Johan Aps  
University of Washington  
USA
Dr. Aps is Clinical Associate Professor of Pediatric Dentistry at the University of Washington School of Dentistry since July 2012. Before that he was Professor and Senior Clinical Consultant at the Ghent University and Ghent University Hospital in Belgium, where he taught local anesthesia in dentistry and dental and maxillofacial radiology. He was responsible for the radiology and cone beam CT investigations, in particular. He devoted 20 percent of his time to treating patients with special needs. Dr. Aps graduated as DDS at the Ghent University in Belgium in 1993 and started as resident in pediatric dentistry right away. He combined his university duties with a private practice and working in an institution for patients with severe mental handicaps for 11 years.

After he finished his MSc in pediatric dentistry in 1997, he started his PhD, which focused on oral health
parameters and saliva, in particular in cystic fibrosis patients (thesis defended in 2002). He started working at the Ghent University full time in 2004 and, in 2005, began his residency in dental and maxillofacial radiology at the University of London in the UK. In 2008, he defended his thesis on radiation doses in pediatric dentistry.

Dr. Aps is author and co-author of more than 60 national and international scientific papers and more than 50 scientific abstracts at international meetings, as well as a frequent speaker at congresses. He is also the author of several chapters in handbooks, editor-in-chief of “Het Tandheelkundig Jaar” and reviewer for several international dental journals. Dr. Aps has received five scientific awards.

SeungHo Baek
Seoul National University Dental Hospital
Korea

Professor, Dept. of Conservative Dentistry, School of Dentistry, Seoul National University
Adjunct Professor, Department of Endodontics, School of Dental Medicine, University of Pennsylvania
Past president, Korean Academy of Conservative Dentistry
President, Korean Association For Disability and Oral Health

Byeong Ju Baik
Chonbuk National University
Korea

Graduate from college of dentistry, Seoul National University(1975).
Intern(1975) and resident(1976) in pediatric dentistry, dental hospital, Seoul National University.
Ph.D. degree from Seoul National University(1985).
Dean of school of dentistry, Chonbuk National University(1996).
Director of Pediatric Dentistry Association of Asia (PDAA,1997).
President of Korean Academy of Pediatric Dentistry (KAPD,2002).

Joel Berg
UW School of Dentistry
USA

• Background
Dr. Berg is the Dean of the UW School of Dentistry. He previously held executive positions at Philips Oral Healthcare and ESPE Dental. He is the author of numerous
published manuscripts and abstracts and a co-editor of a textbook on early childhood oral health.

- Education
  - DDS, University of Iowa, 1983
  - Certificate in Pediatric Dentistry, University of Iowa, 1985
  - MS, Oral Biology, University of Iowa 1985
- Academic Interests
  - Early caries detection
  - Siblings of patients with special needs
  - Caries detection technologies
  - Innovative restorative materials
  - Development of dental caries prevention programs using risk assessment models
  - Early childhood dental health

Marcelo Bönecker
University of Sao Paulo
Brazil

Dr. Marcelo Bönecker was born in 1964 in São Paulo, Brazil, and graduated from dentistry in 1986. He completed his paediatric dentistry specialty training in 1993 and received his M.S. in Paediatric Dentistry in 1996 at the University of Sao Paulo (USP) Brazil. For his PhD in Paediatric Dentistry at the USP in 1999 he did one year study at the Department of Public Health at University College London (UCL) in England. After that Dr Bönecker did a Post Doc Research at the Dental Research Institute of the Witwatersrand University in Johannesburg, South Africa in 2000 and 2001. In 2005 he was promoted to Associate Professor. Dr Bönecker has been Chair and Professor of the Paediatric Dentistry Discipline at the University of Sao Paulo since 2010 and a vice editor of the Brazilian Oral Research and Editor in Chief of a Brazilian Dental Journal. At the moment Dr Bönecker is member of the board of the IAPD - International Association Paediatric Dentistry. His areas of research are Oral Epidemiology in Children; Minimal Intervention in Dentistry and Teledentistry. He has written thirteen books (2 translated into English, 2 into Spanish, and 1 into German) twenty six chapters in Paediatric Dentistry books, and has published over 70 articles in many journals.

Warren Brill
American Academy of Pediatric Dentistry
USA

Dr. Warren A. Brill received his dental degree from the University of Pennsylvania and did his specialty training in pediatric dentistry at the University of Maryland and the School of Medicine of the Johns Hopkins University. He received his Bachelor of Science degree from Moravian College and Master of Science in Hygiene degree from the Graduate School of Public Health at the University of Pittsburgh. He is a fellow of the American Academy of Pediatric Dentistry, the American College of Dentists and the International College of Dentists. Dr. Brill served as Chairman of the Oral Health Advisory Committee to the Secretary of Health and Mental Hygiene.
for the State of Maryland. He is a member of the ADA/AETNA Advisory Committee and is a consultant for pediatric oral medical devices for the Food and Drug Administration. Dr. Brill is a member of the Legislative Affairs Committee of the Maryland State Dental Association and chair of the Legislative Affairs Committee of the Maryland Academy of Pediatric Dentistry. He is also Clinical Associate Professor of Pediatric Dentistry at the University of Maryland.

Dr. Brill is a former member of the Board of Trustees of the American Academy of Pediatric Dentistry, representing District II, the Eastern Society of Pediatric Dentistry. He has also served as chair of the Council on Dental Benefit Programs and the Council on Government Affairs.

Presently, Dr. Brill is Vice-President of the American Academy of Pediatric Dentistry and will assume the office of President-Elect at the conclusion of the 2012 annual meeting of the Academy.

Dr. Brill is the 2009 recipient of the Pediatric Dentist of the Year Award from the American Academy of Pediatric Dentistry.

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**Michael Burrow**  
The University of Hong Kong  
Australia

Dr. Burrow graduated from the University of Adelaide, Australia with BDS in 1981 MDS in Prosthodontics in 1987. In 1989 was awarded a Scholarship from the Japanese Ministry of Education, Culture, Sports, Science and Technology to under a PhD in Tokyo Medical and Dental University, which he completed in 1994.

In 2003 was awarded a Master of Education from the University of Melbourne and MRACDS (Pros) and FRACDS in 2010. Dr Burrow held the positions of Professor in Restorative Dentistry, Clinical Dean of the Melbourne Dental School, and Restorative Dentistry Discipline Head at the Melbourne Dental School, University of Melbourne and was a visiting Prosthodontist at the Royal Dental Hospital of Melbourne.

He has taken up and currently hold the post of Clinical Associate Professor in Oral Diagnosis & Polyclinics and Undergraduate Program Director in Operative Dentistry at the Faculty of Dentistry of the University of Hong Kong 2010.

He was a member of the Australian Dental Association DIME Committee and Australian delegation member attending ISO TC 106 on dental standards.

He is currently is on the Editorial Boards of five international journals and published over 150 refereed papers. He has lectured in Australia and Internationally.

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**Angus Cameron**  
Westmead Hospital  
Australia

Angus Cameron is currently the Head of Paediatric Dentistry and Orthodontics at Westmead Hospital and a Visiting Senior Specialist at the Children's Hospital at Westmead. He is Clinical Associate Professor and Head of Paediatric Dentistry at the University of Sydney and holds teaching appointments at the University of Newcastle and Charles Sturt University. He is also Registrar of the Royal Australasian College of Dental Surgeons.
Angus has lectured extensively throughout Australia and internationally and is co-editor of the Handbook of Pediatric Dentistry. His main interests are in the management of dental and oro-facial anomalies, and paediatric oral medicine and pathology.

Mark Cannon  
Northwestern University Medical School  
USA

Mark L. Cannon received his Doctorate of Dental Surgery from the University of Nebraska and then attended Northwestern University for his Masters of Pediatric Dentistry. He completed his residency at Children's Memorial Hospital and received his Diplomate status by the American Board of Pediatric Dentistry. He is a past president of the Illinois Society of Dentistry for Children, an associate professor of Pediatric Dentistry at Northwestern University, Feinberg School of Medicine, and a member of the International Association of Pediatric Dentistry. In addition to maintaining a large private practice in the suburbs of Chicago, he is the Research Coordinator of the residency program at Ann and Robert Lurie Children's Hospital, Chicago, Illinois. Dr. Cannon also guest lectures at Sao Paulista State University, UNESP, Aracatuba, Brazil and at the University of Illinois, Chicago, Department of Pediatric Dentistry. He has had presentations to the following organizations; I.A.D.R./A.A.D.R., the American Academy of Pediatric Dentistry, the American Society of Dentistry for Children, Academy of Dental Materials, World Congress of Biological Materials, International Association of Pediatric Dentistry, Pediatric Dental Association of Asia, Australasian Academy of Pediatric Dentistry, World Congress of Preventive Dentistry and the European Academy of Pediatric Dentistry.

Jorge Luis Castillo  
Universidad Peruana Cayetano Heredia  
Peru

- President elect of the International Association of Pediatric Dentistry (IAPD)
- Dental degree obtained from Universidad Peruana Cayetano Heredia, Lima, Peru
- Certificate in Pediatric Dentistry from the University of Connecticut, USA
- Master of Dental Sciences- University of Connecticut, USA
- Certificate in Orthodontics, University of Washington, USA
- Master of Sciences in Dentistry- University of Washington, USA
- BOARD CERTIFIED from the American Board of Pediatric Dentistry
- Associate Professor- Academic Department of Dentistry for Children and Adolescents - Universidad Peruana Cayetano Heredia – Lima - Peru
- Assistant Affiliate Professor- Department of Public Health Sciences- University of Washington, USA.
- Vice president of the Latin American Association of Pediatric Dentistry
- Author of numerous articles in indexed journal
- Co-author of 4 books in Pediatric Dentistry
Speaker in several meetings in Peru, and in Argentina, Bolivia, Colombia, Chile, Ecuador, Venezuela, Mexico, Estados Unidos, Portugal and Iran.
Maria Liza Centeno  
Philippine Pediatric Dental Society Inc.  
Philippines  

Dr. Maria Liza C. Centeno is currently the President of the Pediatric Dentistry Association of Asia and a past president of the Philippine Pediatric Dental Society, Inc. She had postgraduate training in general dentistry for children and children with special needs at the Pediatric Dentistry division of the Philippine Children’s Medical Center. She obtained her degree in Doctor of Dental Medicine from the University of the Philippines where she also took Master classes in Educational Psychology. She is also a former faculty of the University of the East college of Dentistry and the Chief Training Staff of the Pediatric Dentistry Center. In 2003, she was appointed by the President of the Philippines as one of the members of the Professional Regulations Commission’s Board of Dentistry to be one of the licensure examiners where she eventually became the Chairperson at the end of her term in 2006. She is presently in private practice and consultant at DLS-STI Medical Center, lecturer at the Pediatric Dentistry Center, and has holds key positions in various local and international organizations for faculty development programs, continuing education and research projects.

Joseph Chan  
Department of Health, Hong Kong SAR Government  
Hong Kong, China  

Dr. Joseph Chan is Head of the Dental Service in the Department of Health, Hong Kong SAR Government. He graduated with BDS from King’s College London and received postgraduate training in Paediatric Dentistry at the Eastman Dental Institute under Professor Gerald Winter. He took up appointment as Clinical Lecturer at the University of Hong Kong in 1987 and was appointed Associate Dean of the Faculty of Dentistry in 1993. He was appointed Consultant Paedodontist in the Department of Health in 1994 and became Consultant in-charge in 2004.

He is the supervisor of specialist training in Paediatric Dentistry at the MacLehose Dental Centre, one of the two approved training centres in Hong Kong. He is Honorary Clinical Associate Professor in the University of Hong Kong where he teaches postgraduate students in Paediatric Dentistry. He is Honorary Consultant in United Christian Hospital where his team provides care to paediatric patient in a hospital setting.

Dr. Chan is the Secretary General of the International Association of Paediatric Dentistry and Past President of the College of Dental Surgeons of Hong Kong and Chairman of its Specialty Board in Paediatric Dentistry. He was instrumental in the recognition of Paediatric Dentistry as a specialty in Hong Kong and in the setting up of specialist training pathway for Paediatric Dentists.

Dr. Chan had served in various capacities in the University of Hong Kong, the Hospital Authority, the International Association of Paediatric Dentistry, the Hong Kong Dental Association, the Hong Kong Society of Paediatric Dentistry, the Hong Kong Academy of Medicine and the College of Dental Surgeons of Hong Kong. He is a Fellow of the Royal College of Surgeons of Edinburgh and was awarded the Dental Overseas Medal in 2011 for his contribution to the Dental Faculty, College and dentistry as a whole, overseas. He is also Registrar of the Dental Council of Hong Kong, a member of the Board of Governors of the Prince Philip Dental Hospital and a Justice of the Peace.
Namki Choi  
Department of Pediatric Dentistry, School of Dentistry, Chonnam National University  
Korea

Prof. Namki Choi is currently a professor in dental hospital Chonnam National University School of Dentistry. He served as a chairman of pediatric dentistry at the same institution. He received his D.D.S. from Chonnam University in 1985. In 1988, he received a Certificate in pediatric dentistry at Chonnam University and his M.S. He completed his Ph.D. in pediatric dentistry from Chonnam University in 1996. He has worked at the private clinic for 8 years. He became a faculty member of Chonnam National University in 1999 and stayed as a visiting professor in Ohio State University, Columbus USA in 2001. He served as a clinical director of Chonnam Dental Hospital in 2005. He is interested in early orthodontic treatment and pulp treatment. He has published lots of international and national scientific papers and has given many presentations at national and international meetings.

Ling H. Chueh  
Elite Dental Clinic  
Taiwan

Education:  
1981    D.D.S.    National Taiwan University, Taipei, Taiwan  
1984    M.S.    Northwestern University Dental School, USA  
1986    Diplomate    American Board of Endodontics

Professional experience  
1984-1985    Endodontic resident, Chang Gung Memorial Hospital  
1985-1986    Attending doctor, Chang Gung memorial Hospital  
1987- present    Practice limited to Endodontics  
Partner, Elite Dental Clinic

Publications related to the session  
Luciane Costa
University of Sao Paulo
Federal University of Goiás, Goiânia, Goiás
Brazil

Education
MS and PhD Pediatric Dentistry, University of São Paulo, Brazil
DDS Federal University of Goiás, Goiânia, Goiás, Brazil

Experience
- Professor, Federal University of Goiás, Goiânia, Goiás, Brazil 1991 – now
- Visiting Professor, University of British Columbia, Vancouver, British Columbia, Canada
- Coordinator, Graduate Program in Dentistry, Federal University of Goiás, Goiânia, Goiás, Brazil
- Coordinator, Dental Sedation Center (NESO), Federal University of Goiás, Goiânia, Goiás, Brazil
- Member, IAPD Scientific Committee

Publications related to behavior guidance in pediatric dentistry

Yasmi Crystal
Comprehensive Pediatric Dentistry in New Jersey
USA

Yasmi O. Crystal, DMD received a DDS degree from the Technologic University of Mexico; a Pediatric Dentistry certificate from Eastman Dental Center, University of
Rochester, and DMD degree from University of Medicine and Dentistry of New Jersey. She is a Diplomate of the American Board of Pediatric Dentistry, is an Associate Professor at the Department of Pediatric Dentistry at New York University College of Dentistry, and has been in private practice of Pediatric Dentistry in New Jersey since 1996, where she has been voted by her peers as one of the Best Pediatric Dentists in New Jersey Magazine several continuous times to date.

She has been an Executive Board member and lecturer for the Society for the Advancement of Anesthesia and Pain Control from 1986- to date. Was co-director of Continuing Education for the New Jersey Society of Dentistry for Children from 1988 to 2003; Co-director of Continuing Education for the New Jersey Academy of Pediatric Dentistry from 1988 to the present date. She was President of NJAPD from 2000 to 2006, and expert Consultant to the American Academy of Pediatric Dentistry's Council of Clinical Affairs from 2000 to 2003 and District II Trustee from 2008-2011. Currently, Dr. Crystal is a Media Spokesperson for the AAPD and a member of their Council of Scientific Affairs as well as being on the editorial board of Pediatric Dentistry. She is a member of the ADA Council on Access, Prevention and Interprofessional Relations, and an Oral Health preceptor and oral health consultant for the American Academy of Pediatrics. She is a lecturer and her practice offers a clinical rotation site for the Family Practice MD residency at Somerset Medical Center in Somerville, NJ. She is a Pediatric Dentist in Staff at Robert Wood Johnson University Hospital and at Somerset Medical Center. She is a long time member of the AAPD, the International Academy of Pediatric Dentistry and the International Association of Dental Research. She has lectured for numerous groups including the Greater NY Dental Meeting and the AAPD College of Diplomates, the Australia-New Zealand Society of Pediatric Dentistry, California Dental Association, International Association of Pediatric Dentistry, American Academy of Pediatrics Annual Session, and has contributed to many publications in peer-reviewed scientific journals.

Göran Dahllöf
Karolinska Institutet
Sweden

Göran Dahllöf, was awarded DDS from Karolinska Institutet, Stockholm, Sweden in 1979, PhD and specialist certificate in pediatric dentistry in 1986. He has been visiting professor at the Children's Hospital in Melbourne, Australia and at Asahi University, Gifu Japan. He has served as general secretary for the International Association of Paediatric Dentistry and as editor-in-chief for the International Journal of Paediatric Dentistry. Göran Dahllöf is professor of pediatric dentistry at the department of Dental Medicine, Karolinska Institutet, Stockholm, Sweden. The main research interest is prevention, behaviour and oral health conditions in medically compromised children.

Kevin Donly
Department of Developmental Dentistry
University of Texas Health Science Center at San Antonio Dental School
USA

Dr. Donly is currently Professor and Chair of the Department of Developmental Dentistry at the University of Texas Health Science Center at San Antonio. Previous positions
include Professor and Associate Director of the Center for Clinical Studies at the University of Iowa, Associate Professor, Pediatric Dentistry at the University of Texas Dental Branch at Houston and Associate Professor, The University of Texas Medical School. He received his D.D.S. in 1984, Certificate in Pediatric Dentistry in 1986, and M.S. in 1986 from the University of Iowa.

Dr. Donly is a Diplomate of the American Board of Pediatric Dentistry, is past President of the American Society of Dentistry for Children and past Chair of the Public Information Committee for the American Academy of Pediatric Dentistry. He also is on the Board of the American Academy of Pediatric Dentistry Foundation and the American Dental Association Foundation. He has published over 250 chapters, manuscripts and abstracts associated with pediatric dentistry and dental restorative materials research and clinical utilization. Presently, he is a principal investigator on a Program Project sponsored by the National Institute of Dental and Craniofacial Research. He has received grants or research support from the 3M, ESPE, Premier, Bisco, GC, Dentsply, Ivoclar, Kerr, Procter and Gamble, Church and Dwight, Optiva, Oral-B, Enamelon, Atrix Laboratories, Inc. and Guidor companies.

Bernadette Drummond
University of Otago
New Zealand

Bernadette Drummond graduated in New Zealand and completed graduate training in the USA and England. She worked in hospital practice and general practice during her early career. She is Professor at the University of Otago where she heads the paediatric dentistry programmes including a practice-based graduate diploma programme and a clinical doctorate. She provides specialist paediatric dental services for the Southern District Health Board involving dental care for children and young adults. Bernadette has published and is involved in research related to children’s oral health-related quality of life, outcomes of dental care and and prevention of dental diseases. Bernadette is a past President of the RACDS and ANZSPD. She has served on the board of the NZDA and chaired the Education Committee. She is actively involved in providing continuing education for dentists in New Zealand and has lectured throughout Australasia. She is on the editorial boards of two international paediatric dental journals.

Monty Duggal
Leeds Dental Institute
UK

Professor Monty Duggal obtained his dental degree in 1983 and his MDS in Paediatric Dentistry in 1986 in PGI Chandigarh India. He then immigrated to the United Kingdom and obtained his FDSRCS from the Royal College of Surgeons of England and his PhD from Leeds University. He joined Leeds Dental Institute as a Junior Lecturer in 1989 and is currently a Professor and Head of Paediatric Dentistry. Professor Duggal has published over 120 research papers in international journals. He is also the author of “Restorative Techniques in Paediatric Dentistry,
which has been published in 7 languages and has sold over 12000 copies worldwide. He is also a co-author of a textbook on Dental Traumatology and has Co-Edited “Paediatric Dentistry” by Oxford, which is the most widely used textbook for Paediatric Dentistry in the world. He has obtained research grants to the total value of over 5.5 million pounds. His main research interest is Cariology, Traumatology and Translation Research in Clinical Paediatric Dentistry. He also oversees a large postgraduate programme in Paediatric Dentistry in Leeds which has graduated over 100 paediatric dentists from around the world. He is invited regularly to give courses on Paediatric Dentistry and Traumatology and is an internationally recognised clinician and scientist. But his main interest remains cricket and only time spare from following the game is devoted to Paediatric Dentistry!

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**Ece Eden**
Ege University
Turkey

She graduated from Ege University, School of Dentistry in 1988 and completed her PhD on Pedodontics at Ege University, Institute of Health Sciences in 1995. She was appointed Associate Professor in 2000 and Professor in 2006. She is employed as Professor in Ege University, School of Dentistry, Department of Pedodontics and lectures dental and medical students. She lectured in Radboud University Nijmegen, the Netherlands with Erasmus staff mobility program in 2011, and has been the co-promoter of a PhD thesis entitled ‘Management of dental caries in primary teeth through minimal intervention approaches’ at the Radboud University Nijmegen, the Netherlands in 2009. She has supervised PhD and Master Students, is director for numerous research projects and is the Turkish translator editor of ‘Traumatic Dental Injuries: A manual.’ She is the co-author in FDI task group on ‘Minimal Intervention Dentistry (MID) for managing dental caries’ review. She is an organization committee member in 18th World Congress of International Association of Dental Traumatology that will be held in 2014, in stanbul.

She has been a member of Turkish Dental Association (TDA), Public Dental Health Commission in 2000-2002 and 2008-2010, has been zmir delegate of TDA, is a member of International Association of Dental Traumatology and director board member of zmir Dentistry Chamber and zmir Chamber of Turkish Society of Pedodontics. She has been accepted as fellowship in Academy of International Dentistry in 2011.


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**Dimitris Emmanouil**
International Association for Disability and Oral Health
Greece

Dr Dimitris Emmanouil is the current president of The International Association for Disability and Oral Health (iADH).

He graduated from Athens University School of Dentistry in 1984 and specialized in Pediatric Dentistry at the Children’s Hospital of Wisconsin, USA. He holds an MS from
Marquette University, USA and a PhD from the University of Athens, Greece. His extensive research work on nitrous oxide pharmacology won awards from AAPD, IAPD and ASDA. He has published in the international literature and has been invited in various occasions to lecture both nationally and internationally. He is also co-author of the book “Odontoiatria speciale per il paziente critico e diversamente abile” (Italian Language). He is currently Lecturer at the Department of Pediatric Dentistry, University of Athens, Dental School and adjunct Assistant professor at Washington State University, School of Pharmacy, USA where he continues his research.

Ivar Espelid  
University of Oslo  
Norway  
Graduated as a dentist in 1975, doctoral degree in 1987. Specialist training in paediatric dentistry fulfilled 1982. From 1993 professor in paediatric dentistry at University of Bergen, Norway, and from 2002 to present professor at the University of Oslo, Norway. In the period 2009-2011 director of the Public Dental Health Service Competence Centre of Northern Norway. Research interests are in the borderline between cariology and paediatric dentistry with special emphasis on oral epidemiology and clinical decision making.

John Featherstone  
University of California San Francisco  
USA  
Dr. John Featherstone is Dean of the School of Dentistry at the University of California, San Francisco (UCSF) and Professor of Preventive and Restorative Dental Sciences. He holds a Ph.D. in chemistry from the University of Wellington (New Zealand). His research over the past 37 years has covered several aspects of cariology (study of tooth decay) including fluoride mechanisms of action, caries risk assessment, de- and remineralization of the teeth, apatite chemistry, salivary dysfunction, caries prevention, and laser effects on dental hard tissues. He has been received numerous National and International awards, including the Norton Ross Award for excellence in clinical research from the American Dental Association (2007), and he was recently inducted as an Honorary Fellow of the American College of Dentists. He has published over 230 papers and book chapters.

Marcio Da Fonseca  
UW School of Dentistry and Seattle Children's Hospital  
USA  
Dr. da Fonseca received his dental degree at the Federal University of Juiz de Fora, Brazil, in 1987. He went on to the University of Minnesota, Minneapolis, for his Master of Science degree and certificate in Pediatric Dentistry, followed by a fellowship at the
Denver Children’s Hospital. In 1994-95, he did an Oral Medicine fellowship at the Fred Hutchinson Cancer Research Center in Seattle working exclusively with hematopoietic stem cell transplant children. He was a clinical assistant professor and director of undergraduate pediatric dentistry at the University of California, San Francisco (1995-97). At the University of Michigan, Ann Arbor (1997 to 2005), he was director of the pediatric dental service at the University Medical Center. He was director of inpatient dental care at Nationwide Children's Hospital and a clinical professor at the Ohio State University College of Dentistry (2005-2010). He is currently Law-Lewis Professor and director of the pediatric dental graduate program at the University of Washington Center for Pediatric Dentistry and Seattle Children's Hospital. He is the editor of the Journal of Dentistry for Children, a publication of the American Academy of Pediatric Dentistry. He co-edited the recently published book “Clinical Cases in Pediatric Dentistry”. Starting July 2016, Dr. da Fonseca will be chair and graduate program director of the department of Pediatric Dentistry at the University of Illinois at Chicago.

Clive Friedman
Schulich School of Medicine and Dentistry
Canada

Dr Clive Friedman is an assistant clinical professor at the Schulich School of Medicine and Dentistry as well as the University of Toronto Canada. He graduated from the University of Witwatersrand in Johannesburg South Africa and completed his specialty in Pediatric Dentistry in 1981. Since then he has been active in organized dentistry and is the past president of Academy of Dentistry for Persons with Disability as well as IADH (International Association of Disability and Oral Health.) His areas of teaching specialization include dentistry for persons with disability as well as behavior, risk management, and motivational interviewing. He has lectured extensively both internationally as well as locally and has published numerous articles and text chapters related to special needs. He also currently is a member of the education committee for IADH that has recently published a consensus document for an undergraduate special needs curriculum.

Anna Fuks
Emeritus Hebrew University Hadassah
Israel

Prof. Anna B. Fuks was born in Curitiba, Brazil in May 26, 1937 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. 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 and president 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 in several countries in South and Central America, Mexico, United States, Canada, Italy, France, Spain, Russia, Greece, Cyprus, Panama, Germany, China, South Africa, Ireland, Thailand and Australia.

Dr. Fuks was appointed Honorary Member of the Israeli Society of Pediatric Dentistry and received honorary membership of the Mexican, Italian, Belgian, Brazilian and Spanish Academies of Pediatric Dentistry.

Dr. Fuks is an active member of the American Academy of Pediatric Dentistry, of the European Academy of Pediatric Dentistry and of the International Association of Pediatric Dentistry. She continues serving actively as a member of the Editorial Board of several dental journals. Having received several international prizes in research, she has published over 128 articles and 85 abstracts in many international journals, and wrote 16 chapters in Pediatric Dentistry textbooks. Recently she was selected as the 2013 recipient of the American Academy of Pediatric Dentistry’s Distinguished Service Award.

Presently she continues teaching at the Department of Pediatric Dentistry of the Hadassah School of Dental Medicine in Jerusalem, is Past-President of the International Association of Pediatric Dentistry, and participates in several dental meetings as an invited speaker.

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**Satoshi Fukumoto**  
*Tohoku University*  
*Japan*

1994.3 Graduated from Nagasaki University School of Dentistry  
1994.4- Instructor, Nagasaki University School of Dentistry  
1997.4- Research fellow of the Japanese Society for the Promotion of Science (DC1)  
2000.10- Visiting Fellow, NIDCR/NIH  
2003.4- Assistant professor, Nagasaki University School of Dentistry  
2004.9- Associate professor, Kyushu University, Faculty of Dental Science  
2007.11- Professor, Tohoku University Graduate School of Dentistry

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**LiHong Ge**  
*Peking University School of Stomatology*  
*China*

**Name:** LiHong Ge  
**Gender:** Male  
**Birthday:** September 19, 1952  
**Speciality:** Pediatric Dentistry  
**Degree:** Ph.D., DDS  

**Working Place:** Peking University School of Stomatology

**Titles:**  
Professor of department of pediatric dentistry, Peking University School of Stomatology  
President of committee of Chinese Association of Pediatric Dentistry

**Education and working experience:**  
1978.1 Graduation, Beijing Medical College
1978.1-1985.6  Resident, Department of Oral Medicine, School of Stomatology, Beijing Medical College
1985.6-1996.6  Lecturer, Department of Pediatric Dentistry, School of Stomatology, Beijing Medical University
1988.3-1988.6  Continuing education, Japan Kyushu University Japan International Cooperation Agency
1986.9-1992.11 Postgraduate, School of Stomatology, Beijing Medical University
1992.11-1996.4  Ph.D., Japan Kyushu Dental College
1996.6-2001.6  Associate professor, Department of Pediatric Dentistry, Peking University School of Stomatology
1996.6-1998.6  Deputy director, Department of Pediatric Dentistry, Peking University School of Stomatology
1996.7-2010.12 Vice Dean, Peking University School of Stomatology
1998.6-2010.10 Director, Department of Pediatric Dentistry, Peking University School of Stomatology
2001.6-present  Professor, Department of Pediatric Dentistry, Peking University School of Stomatology

**Rute Efigénio Gomes**
Clínica Pequenos Grandes Doutores
Portugal

**PERSONAL DATA**
Name: Rute Maria Efigénio Gomes
Office: Clínica Pequenos Grandes Doutores | Lisbon, Portugal
E-mail: rutegomes@gmail.com

**ACADEMIC QUALIFICATIONS**
Present: PhD thesis in ‘Oral health of HIV-infected children’, University of Barcelona, Spain
2010: Specialist in baby oral care, Bebê Clínica, State University of Londrina, Brazil
2009-2010: Master of Integrated Oral Health, University of Lisbon, Faculty of Dentistry, Portugal
2002-2004: Advanced Studies Diploma, Investigator Sufficiency, Técnicas clínicas en Odontoestomatología PhD, University of Barcelona, Spain
2002-2004: Master of Pediatric Dentistry, University of Barcelona, Spain
1995-2001: D.D.S. University of Lisbon, Faculty of Dentistry, Portugal

**PROGRAMS AND INTERNSHIPS**
August 2003: Internship in Pediatric Dentistry Department of Federal University of Santa Catarina, Brazil.
2001-2002: Internship in Central Hospital of Maputo, Mozambique.
September 2000: Elective program, School of Clinical Dentistry- The Queen’s University of Belfast, United Kingdom.
June 2000: Elective program, GKT Dental School at Guy’s Hospital- King’s College London, United Kingdom.
1999-2000: Socrates-Erasmus Program, Faculty of Medicine, Department of Dentistry- University of Helsinki, Finland.
TEACHING-RELATED ACTIVITIES
2006-2007: Vice-Coordinator of the Graduating Course in Dentistry, Superior Institute of Science and Technology of Mozambique (ISCTEM).
2006-2007: Invited Clinical Assistant Professor of Integrated Clinic, ISCTEM.
2001-2007: Activities (Motivation and instruction of oral health and dental treatment) with a Colgate Mobile Unit in Schools and Companies of Maputo, Mozambique.
July 2004: Invited Clinical Assistant for Pediatric Dentistry Post-graduation, University of Barcelona (UB).
2001-2002: Invited Clinical Professor Pediatric Dentistry, ISCTEM.
2001-2002: Invited Clinical Assistant Professor Orthodontics, Endodontics and Integrated Clinic, ISCTEM.

CLINICAL-RELATED ACTIVITIES
2008-present: Clinical Director and owner of Clínica Pequenos Grandes Doutores, Lisbon.
2007-present: Pediatric Dentist at University of Lisbon, Faculty of Dentistry, Portugal (including children, adolescents and adults with special health care needs clinic) and Santa Casa da Misericórdia (health services to most vulnerable people), Lisbon.
2007-present: Pediatric Dentist in several private dental clinics and Private Hospital (Hospital dos Lusíadas), Lisbon.
2006-2007: Clinic Director of University Dental Clinic, ISCTEM.

Mike Harrison
Consultant in Paediatric Dentistry
UK

Mike carried out his specialist training in paediatric dentistry at Cardiff Dental Hospital and Guy’s Hospital, London. His first thesis was on facial and dental injury prevention conferred by cycle safety helmets, but during his involvement with a hypodontia clinic he developed an interest in genetics, subsequently completing a second thesis on the molecular basis of hypodontia. His first Consultant post was at the Eastman Dental Hospital, London, during which time he also undertook genetic sequencing studies into dental anomalies at the Institute of Child Health. He has held senior academic and clinical posts at Guy’s and King’s Dental Institute, and is an international speaker in the field of molecular genetics applied to daily clinical dentistry. He was an author on the first UK national guideline for the use of general anaesthesia in paediatric dentistry, and now works closely with regional clinical genetics units in London.

Dorte Haubek
Aarhus University
Denmark

Dorte Haubek graduated in 1992. In the period from 1993 to 1997, Dorte Haubek participated in a Ph.D program at Department of Oral Biology, School of Dentistry, Aarhus University. Dorte Haubek received the PhD degree in 1998 after defending her PhD thesis entitled ‘Population genetic and epidemiological aspects of the oral
microorganism, Actinobacillus actinomycetemcomitans with special reference to the significance of the leukotoxin’. From 1998 she was employed at Department of Paediatric Dentistry initially as assistant professor, later in 2002 as associate professor and from 2012 as professor and head of Section for Paediatric Dentistry, Department of Dentistry, Aarhus University. In 2010, she received the doctoral degree after defending her thesis entitled ‘The highly leukotoxic JP2 clone of Aggregatibacter actinomycetemcomitans: evolutionary aspects, epidemiology and etiological role in aggressive periodontitis’.


Professor Dorte Haubek’s main research interests are mineralization disturbances, tooth anomalies and periodontal disease among the young.

She has received several research prizes (Hans Mühlemanns prize by the Swiss Society of Periodontology, Switzerland (1997), Zendium prize by Blumøller A/S, Denmark (2002) and Ingeborg and Leo Dannins Grant, Denmark (2006)).

Professor Haubek is at present council member of European Academy of Paediatric Dentistry (EAPD) for Denmark.

Mark Hector
University of Dundee
UK

Mark Hector was born in Nairobi, Kenya and first graduated in Physiology, then in Dentistry in 1981 from Guys Hospital. There followed 3 years at the University of Bristol and Kings College, London after which he received his PhD. Following 3 years in oral medicine and pathology at Guys Hospital Dental School he was recruited to The London Hospital Medical College as a lecturer in Child Dental Health. He gained his Readership in 2001 and in 2002 became Professor of Oral Health of Children at Barts and The London School of Medicine and Dentistry. Between 2009-11 he was President of the International Association of Paediatric Dentistry. Mark Hector took up his position as Dean of Dentistry and Professor of Oral Health of Children at Dundee University in August 2011.

Francisco Hernandez
Latin American Pediatric Dentistry Association ALOP
Colombia

Dr. Francisco J. Hernández R. was born in Bogota-Colombia and received his degree as Dentist in 1988 at the Javeriana University in Bogotá - Colombia. He completed his pediatric dentistry specialty training in 1991 at the Universidad Javeriana (Bogotá -Colombia).

Dr. Hernandez was Director of Dental Research at the “Expedición Humana”, a national research of Indigenous and Afro-American population, of the Genetic Institute at Javeriana University. He was the head of the
Pediatric Dentistry Department at Javeriana University and Former President of the “Academia Colombiana de Odontología Pediátrica” ACOP. He is co-author of several books regarding to dentistry, genetics, dental anesthesia and sedation for medical anesthesiologist.

At the moment, Dr Hernandez is the Founder and President of the "Comparte Sonrisas" Foundation that promotes the improvement of good oral habits and dental prevention in children and pregnant mothers in vulnerable communities. Director of Healthy Athletes - Special Olympics in Colombia and President of the Latin American Pediatric Dentistry Association ALOP.

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Kee Sang Hong
Seoul Children's Dental Center
Korea

A graduate of the College of Dentistry, Seoul National University, Kee Sang Hong underwent internship and residency in Pediatric Dentistry at the Department of Pediatric Dentistry, Seoul National University Dental Hospital and became a Certified Pediatric Dentist in 2001. Currently a doctoral candidate at his alma mater, he has worked for 3 years in the public health sector, had his private practice and is currently an associate at the renowned Seoul Children’s Dental Center. In addition, he serves as Adjutant Clinical Professor at two schools – School of Dentistry, Seoul National University and School of Medicine, Hanyang University. He is also licensed to practice dentistry in Australia. His academic interests lie in interceptive orthodontics, caries management and minimally invasive dentistry.

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Milton Houpt
Pediatric Dentistry, UMDNJ-New Jersey Dental School
USA

Dr. Milton Houpt is professor of Pediatric Dentistry at the UMDNJ-New Jersey Dental School. He was Department Chair (1970-2011) and Director of the Postdoctoral Program in Pediatric Dentistry (1980-2001, 2009-10). He also served as Associate Dean for Academic Affairs of the New Jersey Dental School from 2004-2008. Dr. Houpt received the Doctor of Dental Surgery degree from the University of Toronto in 1960 and the Master of Dental Science (1968), Master of Education (1970), and Doctor of Philosophy (1971) degrees from the University of Pittsburgh. In 1968, he attained a Certificate of Specialty in Pediatric Dentistry and in 1982 he became a Diplomate of the American Board of Pediatric Dentistry.

Dr. Houpt has served on the editorial boards of six national refereed journals and for seven years, he served as Editor in Chief for Pediatric Dentistry, the journal of the American Academy of Pediatric Dentistry. In May 2004, he was designated as Editor Emeritus of that journal. He has given more than 50 international presentations and has published more than thirty editorials, 60 research abstracts, and 65 manuscripts in the areas of cariology, dental materials, and conscious sedation.

Dr. Houpt served as a consultant to the American Dental Association Commission on Dental Accreditation, the Test Construction Committee of the National Dental Examination Board, and the National Institutes of
Health, Health Resources and Service Administration. For seven years, he was a member of the Board of Trustees of the American Academy of Pediatric Dentistry.

Boyen Huang
School of Medicine and Dentistry James Cook University
Australia

Qualifications
• PhD (London) – Doctor of Philosophy (Paediatric Dentistry and Dental Public Health), Queen Mary, University of London, UK, 2004
• Advanced clinical programme of Paediatric Dentistry in Dental Traumatology, Royal London Hospital, UK, 2001-2002
• MHA (Chang Gung) – Master of Health Administration, Chang Gung University, Taiwan, 2000
• Postgraduate training course of Dental Science in Paediatric Dentistry, Endodontics and Operative Dentistry, Kaohsiung Medical University, Taiwan, 1994-1998
• DDS (Kaohsiung) – Doctor of Dental Surgery, Kaohsiung Medical University, Taiwan, 1994

Short Biography
Boyen Huang was appointed at James Cook University School of Medicine and Dentistry in January 2012. Before joining JCU, he held teaching and research posts at the University of Western Australia (Australia, 2004-2009) and Kyoto University (Japan, 2009-2011). He also acts as a domestic councillor to the International Association for Dental Research (IADR) (2006-2009, 2012-present) and the founder of the North Queensland Section of the IADR. In addition, he is a peer reviewer for several international journals and an assessor of grant proposals to the National Health and Medical Research Council (NHMRC) (Australia, 2012-present). Of further note, he has worked in private practice as a general and paediatric dentist (Taiwan, 1996-2000, 2002-2003).

Research
His research career has focused on biological and behavioural risk factors for oral conditions. A special interest is on genetic variation as a risk factor for abnormality in dental and craniofacial morphogenesis, and, the role of behaviour in oral and maxillofacial trauma. His recent research papers have been published in Oral Diseases, The Angle Orthodontist, Bone, PLoS ONE, Dental Traumatology, Australian Dental Journal, International Dental Journal, and Journal of Dental Education. Furthermore, he has presented various research findings in more than twenty international and domestic scientific conferences such as meetings of International Association of Paediatric Dentistry (IAPD), IADR, and Asia Pacific Dental Congress (APDC). His current collaborative bids are made with colleagues from Kyoto University (Japan), National Tsing Hua University (Taiwan) and Khon Kaen University (Thailand.)
Shuichi Ito  
School of Dentistry Health Sciences University of Hokkaido  
Japan

2001 Ph D in Health Sciences University of Hokkaido  
2002-2004 Visiting Reseacher, Department of Oral biology Prof.Pashley, Medical College of Georgia USA  
2004 Instructor, Department of Operative Dentistry, School of Dentistry, Health Sciences University of Hokkaido  
2005 Assistant Professor, Department of Operative Dentistry, School of Dentistry, Health Sciences University of Hokkaido  
2008 Assistant Professor, Division of Clinical Cariology and Endodontology Department of Oral Rehabilitation, School of Dentistry, Health Sciences University of Hokkaido  
2011 Associate Professor, Division of Clinical Cariology and Endodontology Department of Oral Rehabilitation, School of Dentistry, Health Sciences University of Hokkaido

Ki-Taeg Jang  
Seoul National University  
Korea

• Personal Data
  Name in Full               Ki-Taeg Jang  
  Present Position  Professor & Chairman, Department of Pediatric Dentistry, School of Dentistry, Seoul National University

Office Address  Department of Pediatric Dentistry School of Dentistry, Seoul National University  
28 Yeongeon-dong, Jongno-gu, Seoul, Korea 110-749  
Phone Number  02-2072-2682  
E-Mail Address  jangkt@snu.ac.kr

• Education
  Feb. 1986  D.D.S., College of Dentistry, Seoul National University  
  Feb. 1989  M.S.D., Graduate School, Seoul National University  
  March 1986 - Feb. 1989 Resident ship, Department of Pediatric Dentistry, S N U Hospital  
  Aug. 1995  Ph.D., Graduate School, Seoul National University

• Experience
  1996 - Present  Full-time Instructor, Assistant professor, Associate professor, Professor , Department of Pediatric Dentistry, Seoul National University  
  2004 - 2006 Educational affairs, Korean Academy of Disability and Oral Health  
  2005 - 2008 Scientific Affairs, Korean Dental Association  
  2008 - 2010 Academic affairs, Korean Academy of Pediatric Dentistry  
  2010 - 2012 General affairs, Korean Academy of Pediatric Dentistry  
  2009 - 2011 Chairman, Department of Pediatric Dentistry, School of Dentistry, Seoul National University  
  Jan. 2011- Dec. 2012 Associate Dean of Academic affairs, School of Dentistry, Seoul National University
Recent published articles related presentation

Seung June Jeon
Department of Pediatric Dentistry Bundang Ye Dental Hospital, Bundang Korea

Biologic Data
Seung-June Jeon
Name in Full
Male
Sex
Jan. 6, 1966
Date of Birth
Republic of Korea
Citizenship
Bundang Ye Dental Hospital Private practitioner
Office
pedojune@hanmail.net
Mail

Education and Degree
Ph.D., Department of Dentistry, Graduate School, Yonsei University, Korea

M.S., Department of Dentistry, Graduate School, Yonsei University, Korea

D.D.S., Yonsei University Dental College

Pre-dental Course, Yonsei University
Mar.1984~ Feb.1984

Postgraduate Training
International Fellow in University of Illinois at Chicago(UIC, USA)
May.2004~ Apr.2005

Resident in the Department of Pediatric Dentistry, Yonsei University Dental Hospital

Private Practorioner, Bundang Ye Dental Hospital
May.1996~ present

Visiting Professor of Yonsei University Dental College
Tae-Sung Jeong  
Pusan National University Dental Hospital  
Korea

Prof. Tae-Sung Jeong is currently Dean and a professor in the School of Dentistry Pusan National University (PNU). He served as a chairman of pediatric dentistry at the PNU Dental Hospital. He received his D.D.S. from Pusan National University in 1987. In 1990, he received a Certificate in pediatric dentistry at PNU Hospital. He completed his Ph.D. in pediatric dentistry from PNU in 1997. He was studied Japanese national system of the disabled people at Kyushu University in Japan 1999, and worked at the Dept. of Biologic and Material Science (School of Dentistry) University of Michigan in Ann Arbor for 2 years (2000-2002). He has been working at pediatric dentistry and his main area of interest is disabled children and restorative dental materials. He has published over 30 international and national scientific papers and has given many presentations at national and international meetings. Also, He has contributed chapters in three textbooks.

Han-Sung Jung  
Yonsei university college of dentistry  
Korea

2010 ~ 2012  
Vice Dean for Research Affairs,  
Director for BK21 Project of Yonsei Dental Science

2010 ~ present  
Adjunct Professor, Kanagawa Dental College, Japan

2007 ~ 2010  
Associate Dean for International Affairs, Director of Pre-Dental Course

2003 ~ present  
Adjunct Professor, Tokyo Dental College, Japan

2000 ~ present  
Instructor, Assistant Professor, Associate Professor, and Professor  
Dept. of Oral Biology, College of Dentistry, Yonsei University, Korea

1999 ~ 2000  
Instructor  
Harvard Medical School, Cutaenous Biology Research Center, USA

1997 ~ 1999  
Post-Doctoral Research Fellow  
University of Helsinki, Institute of Biotechnology, Finland

Education:

1997  
Ph.D. in Developmental Biology  
Dept. Anatomy and Developmental Biology, University College London,

1993  
B.Sc. in Anatomy and Developmental Biology  
Dept. Anatomy and Developmental Biology, University College London
Ryuzo Kanomi
Kanomi Dental Office
Japan

1977 Graduated from Osaka Dental University, received the degree of Doctor of Dental Surgery (D.D.S.).
1980 Kanomi Dental Office, Started in Himeji City
1989 Received the degree of Doctor of Dental Science (D.D.Sc.) from Osaka Dental University (Pedodontics)
1995 President of the 14th Scientific Meeting of the Kinki Branch of the Japanese Society of Pediatric Dentistry
1997 Received the Diploma of Membership in Orthodontics (M.Orth.) from The Royal College of Surgeons of Edinburgh
2002 Received the degree of Ph.D. from Osaka University. (Orthodontics)
2002 Director of the Japanese Society of Pediatric Dentistry
2002–2004 President of the Kinki Branch of the Japanese Society of Pediatric Dentistry
2003 Membership of the European Board of Orthodontists
2006 Executive Director of the Japanese Society of Pediatric Dentistry
2007 The Affiliate Member of the Midwest Component of the Edward H. Angle Society of Orthodontists
2009–2011 President of Kinki-Tokai Orthodontic Society
2009 Director of the Japanese Orthodontic Society

Nik Kantaputra
Chiang Mai University
Thailand

Dr. Nik Kantaputra is a faculty of the Department of Pediatric Dentistry, Department of Orthodontics and Pediatric Dentistry, Chiang Mai University, Chiang Mai, Thailand. He graduated with Doctor of Dental Surgery from Chiang Mai University in 1986. He obtained Certificate and Master of Science in Pediatric Dentistry from the University of Minnesota, USA in 1990. He had a fellowship training in Clinical Dysmorphology with Prof. Robert J. Gorlin at the University of Minnesota during 1990-1991. His major research interest is finding the causes of rare craniofacial malformation syndromes, especially when teeth are involved. Dr. Kantaputra has identified more than 10 new genetic syndromes.
Baek-IL Kim  
Yonsei University  
Korea

- Education and Degrees

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<td>Bachelor</td>
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<td>Master</td>
<td>1994~1996</td>
<td>Preventive dentistry</td>
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<tr>
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<td>Doctoral</td>
<td>1996~2004</td>
<td>Preventive dentistry</td>
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- Working Experience

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<tr>
<td>Guest researcher</td>
<td>2004</td>
<td>Dept. of hygiene, Tokyo dental college</td>
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<td>Assistant Professor</td>
<td>2004~2009</td>
<td>Dept. of preventive dentistry &amp; public oral health, Yonsei university college of dentistry</td>
</tr>
<tr>
<td>Visit researcher</td>
<td>2009</td>
<td>Dept. of Oral biology research group, Melbourne university</td>
</tr>
<tr>
<td>Associate Professor</td>
<td>2009~present</td>
<td>Dept. of preventive dentistry &amp; public oral health, Yonsei university college of dentistry</td>
</tr>
<tr>
<td>Chair Professor</td>
<td>2010~present</td>
<td>Dept. of preventive dentistry &amp; public oral health, Yonsei university college of dentistry</td>
</tr>
</tbody>
</table>

- Areas of Interest
- Development of new technology and devices for early detection of oral disease
- Development of new dental material using nano-sized apatite
- Evaluation of oral care product

- Other experience and Professional memberships
Chair, Korean division of ISO TC106 SC7  
Senior Member, European Organization for Caries Research  
General Director, Korean Academy of Oral Health

Jae-Gon Kim  
Chonbuk National University, School Of Dentistry  
Korea

Department of Pediatric Dentistry  
School of Dentistry, Chonbuk National University  
664-14 Duckjin-Dong, Chonju 561-756, Korea

Professor & Chair
Ji-Yeon Kim
Pusan National University
Korea

- Present Position
  - Associate Professor
  - Department of Pediatric Dentistry
  - Pusan National University School of Dentistry, Busan, South Korea

- Address
  - Dept. of Pediatric Dentistry,
    Pusan National University School of Dentistry,
    Busandaehak-ro 49, Mulgeum-eup, Yangsan, Kyeongsangnam-do, 626-870, South Korea
  - Tel: +82-55-360-5170
  - Fax: +82-55-360-5174
  - E-mail : jychaee@pusan.ac.kr or jychaee@gmail.com

- Educational Experience
  - Aug. 2004 Ph.D., The Graduate School, Pediatric Dentistry, Yonsei University, Seoul, Korea
  - Feb. 2000 M.S., The Graduate School, Pediatric Dentistry, Yonsei University, Seoul, Korea
  - Feb. 1993 D.D.S., College of Dentistry, Yonsei University, Seoul, Korea

- Clinical Training
    Residency training, Pediatric Dentistry, Samsung Medical Center
    Internship training, Pediatric Dentistry, Samsung Medical Center

- Positions Held and Faculty Appointments
  - Mar.2013 ~ present
    Associate Professor
    Department of Pediatric Dentistry
    Pusan National University School of Dentistry, Busan, South Korea
    Associate Professor
    Department of Pediatric Dentistry,
    Sungkyunkwan University School of Medicine, Seoul, Korea
    Assistant Professor
    Department of Pediatric Dentistry,
    Sungkyunkwan University School of Medicine, Seoul, Korea
    Clinical Instructor
Department of Pediatric Dentistry,
Sungkyunkwan University School of Medicine, Seoul, Korea
Visiting Professor
Department of Pediatric Dentistry,
Ehwa Womans University School of Medicine, Seoul, Korea
- Membership in Professional Organization
  - Member of the Korean Dental Association
  - Member of the Korean Academy of Pediatric Dentistry
  - Member of the Korean Dental Society of Anesthesiology
  - Member of the Korean Association for Disability and Oral Health
  - Member of the Korean Academy of the Preventive Dentistry
  - International member of the American Association of Pediatric Dentistry
Research and Clinical Activities
- Thesis of M.S.
  - “The fissure penetration and microleakage of pit and fissure sealant with mechanical preparation”
- Thesis of Ph.D
  - “Growth Effects of Botulinum Toxin Type A Injected into the Masseter Muscle of a Developing Rat Mandible”
- Current Research Interests
  - Effects of botulinum toxin type A on mandibular growth
  - Effects of growth hormone
  - Effects of systemically administered growth hormone on mandibular growth
  - Pediatric Oncology Patient
  - Effects of anticancer therapy on dental caries susceptibility and orofacial development
  - Three-dimensional space change
  - Three-dimensional space change after premature loss of primary first molar

Jong-Soo Kim
Dankook University, School of Dentistry
Korea

1992 Dankook University, M.S
1998 Seoul National University, Ph.d
2000 Tsurumi University, Visiting Professor
2001-2002 Indiana University, Visiting Scientist
Jung-Wook Kim  
Seoul National University  
Korea

Education and Training
Seoul National University D.D.S. 1992 Dentistry  
Seoul National University M.S. 1995 Pediatric dentistry  
Seoul National University Ph.D. 2000 Pediatric dentistry  

University of Michigan Postdoc. 2003-2005 Dental Genetics  

Professional Experiences

Positions and Employment
1992 - 1993  Internship in Dentistry, Seoul National University Hospital  
1993 - 1995  Residentship in Department of Pediatric Dentistry, Seoul National University Hospital  
1998 - 1999  Fellowship in Department of Pediatric Dentistry, Seoul National University Hospital  
1999 - 2001  Fulltime Instructor, Department of Pediatric Dentistry, Seoul National University  
2001 - 2005  Assistant professor, Department of Pediatric Dentistry, Seoul National University  
2003 - 2005  Research scholar (Postdoc Res. Fellow), University of Michigan Dental School  
2006 - 2011  Associate professor, Department of Pediatric Dentistry, Department of Cell and Developmental Biology  
2011 -  Professor, Department of Pediatric Dentistry, Department of Molecular Genetics, School of Dentistry, Seoul National University  

Other Experience and Professional Memberships
1992 - Member, Korean Dental Association  
1992 - Member, Korean Academy of Pediatric Dentistry  
2002 - Member, International Association of Dental Research  
2007 - Member, American Society of Human Genetics  
2012 - Member, American Society of Bone and Mineral Research

Shin Kim  
Pusan National University  
Korea

- Graduated from College of Dentistry, Seoul National University, 1979.  
- Finished Residentship at Seoul National University Hospital  
- Ph.D in Seoul National University  
- Professor, School of Dentistry, Pusan National University, since 1985.  

- Previous :  
  President of Dental Hospital, Pusan National University Hospital  
  Dean of the College of Dentistry, Pusan National University  
  President of Korean Academy of Pediatric Dentistry  

- Present :  
  Professor and Chair of the Department of Pediatric Dentistry  
  School of Dentistry, Pusan National University,  
  Member of Editorial Board of IJPD
Sung-Ki Kim  
CDC Haeundae Children’s Dental Clinic  
Korea  
1997 Graduated from Pusan National University, College of Dentistry (Busan, Korea), obtained DDS  
1997- Member of Korean Association of Pediatric Dentistry  
-2000 Trained at Pusan National University Hospital, Pediatric Dentistry  
2003- Clinical Professor of Pusan National University (Pediatric Dentistry)  
2004- Head of CDC Haeundae Children’s Dental Clinic (Busan, Korea)  
2009 Developed ZIRKIZ crowns (Ready-made Primary Zirconia Crown)  
2010 obtained Ph.D from Pusan National University (Pediatric Dentistry)  
2011- Member of International Association of Paediatric Dentistry

Youl-Ri Kim  
Inje University  
Korea  
Assistant Professor, Department of Neuropsychiatry, Inje University, Seoul, S. Korea  
Director, Eating Disorders Clinic, Seoul-Paik Hospital  
ICD-10 Working Group for Personality Disorders of the WHO  
2008. Clinician Scholarship Award from the Academy for Eating Disorders (; International professional society for eating disorders)

Young J. Kim  
Seoul National University  
Korea  
Dr. Kim is an associate professor in the Department of Pediatric Dentistry, School of Dentistry, Seoul National University. He also is a clinical professor in the Department of Pediatric Dentistry, Seoul National University Dental Hospital, and works in a specialized clinic for persons with disabilities and the President of Seoul Dental Hospital for the Disabled. He is a visiting professor at UCLA and Health Science University in Mongolia as well.  
His research focus is the pathogenesis of bacterial biofilm and the development of anticariogenic agents against mutans streptococci to prevent Early Childhood Caries (ECC). He has lectured extensively in Asia about prevention of Early Childhood Caries and special needs dentistry. Dr. Kim lives in a suburb of Seoul with his wife, a periodontist, and two sons.
Hyun-Jung Ko
Asan Medical Center
Korea

Education
1996. 3. ~ 2001.8 Department of dentistry, Graduate School of Seoul national university, M.S.D., ph.D

Career
1995. 3. ~ 1998. 2. Resident, Department of conservative dentistry, Seoul national university dental hospital
1999. 3. ~ 2001. 2. Fellow, Department of conservative dentistry, Seoul national university dental hospital
2003. 1. ~ 2004. 2. Department of oral biology, School of dental medicine, Univ. of Pennsylvania, Postdoctoral research fellow
2006. 3 ~ Associate professor, Department of conservative dentistry, Asan Medical Center, University of Ulsan

Nikos Kotsanos
Aristotle University Dental School
Greece

Nikos Kotsanos is currently Professor and Head, Department of Paediatric Dentistry, Dental Faculty, Aristotle University, Thessaloniki, Greece and also in part-time private pediatric dental practice. He holds a DDS (Thessaloniki), a PhD (Bristol, UK) and has been trained in pediatric dentistry (New York U, USA).

Nikos has presented his research in 30 international congresses and has lectured in Limasol Cyprus, Bergen Norway, Amman Jordan, Tokyo and Okayama Japan. He has been twice recipient of ‘Koulourides’ research award by P & G Hellas. One of his PGs in the 3-year Paediatric Dentistry specialty program at Aristotle University received the EAPD ‘Young Scientist Award’, 2010.

His 30 publications in Pub Med have received 300 citations. He has authored a Pediatric Dentistry book (in Greek). He serves currently as Education Committee member of EAPD and has collaborated in ADEE workshops. Dental anomalies including MIH and PMH are within his research interests.

Norbert Krämer
University Medical Center Giessen and Marburg, Campus Giessen
Germany

Higher Education: Approbation 1986 University of Erlangen (Germany)

Advanced Degrees:
1987 Dissertation at the University of Erlangen
1986 – 1993
Assistant Professor University of Erlangen
since 1993 Associate Professor University of Erlangen
1997 Habilitation University of Erlangen (Ph.D.)
2006
Head of the Department of Paediatric Dentistry in Dresden
2009
Director of the Policlinic of Paediatric Dentistry in Giessen

Other Notables:
1996 – 2000
Secretary of the German Society for Paediatric Dentistry (DGK)
2000 – 2004
President of the DGK
2004 – 2008
Board Member of the DGK
2008
President elect of the European Academy of Paediatric Dentistry
2010
President of the European Academy of Paediatric Dentistry
2012
Past-President of the European Academy of Paediatric Dentistry

Member of the Editorial Board of:
European Journal of Paediatric Dentistry
American Journal of Dentistry
International Journal of Paediatric Dentistry
Journal of Dentistry
Clinical Oral Investigations
Oral prophylaxe and Kinderzahnheilkunde (Editor)
Quintessenz
Up2date

Kazumi Kubota
Showa University
Japan

EDUCATION
1998 PhD, Nagasaki University School of Dentistry
1990-1991 Master of Science in Dental Material Science
New York University Graduate School of Arts and Science
1988-1990 Certificate, New York University College of Dentistry
Postgraduate division in Pediatric Dentistry
Program for advanced study in dentistry and dental specialties for foreign graduates in Pediatric Dentistry
1979-1985 D.D.S., Tokyo Dental College

JOB EXPERIENCE
2009- Present Showa University School of Dentistry
2007-2009 Keio University School of Medicine
Department of Plastic and Reconstructive Surgery
1997-2007 Nagasaki University School of Dentistry Department of Pediatric Dentistry
1995-1997 Kanagawa children’s Medical Center

Jan Kühnisch
University of Munich
Germany

1991-1996 Study of dentistry at the University of Leipzig and at the Friedrich-Schiller-University of Jena/Erfurt, Germany, 1997 Doctoral researcher at the Friedrich-Schiller-University of Jena, DDS, 1998 Wrigley-Prophylaxis-Award, 1999 Vivadent-Research-Award, 1998-1999 Internship in a dental practice, 2000 Dentist & scientific assistant at the Friedrich-Schiller-University of Jena, Department of Preventive Dentistry, 2002 Wrigley-Prophylaxis-Award, 2003 MDS in Paediatric Dentistry at the Friedrich-Schiller-University of Jena, 2004 Dentist & scientific assistant at the Ludwig-Maximilians-University of Munich, Department of Conservative Dentistry and Periodontology, 2006 Consultant in Paediatric Dentistry at the Department of Conservative Dentistry and Periodontology/ LMU of Munich, 2008 Oral-B blend-a-med Prophylaxis Award, since 2008 Assistant professor in Paediatric Dentistry

Gajanan Kulkarni
University of Toronto
Canada

Dr. Gajanan Kulkarni is a full-time tenured Associate Professor of Dentistry at the University of Toronto where he has been working since 1998. After his undergraduate dental training he obtained a M.Sc. degree and followed that with a specialty diploma in Pediatric Dentistry and a Ph.D. in Cell and Molecular Biology from the University of Toronto. Following his formal education Dr. Kulkarni completed two post-doctoral fellowships at Guy's Hospital, London, UK and Northwestern University, Chicago, IL, USA. He is presently a Fellow of the Royal College of Dentists of Canada and a Diplomate of the American Board of Pediatric Dentistry. Dr. Kulkarni has over 150 publications and presentations in various fields of basic and clinical dental research and he is on the editorial boards of several journals. His duties as a full-time academic include teaching of undergraduate, graduate and post-graduate students. Dr. Kulkarni also maintains an active research program with several graduate and post-doctoral students. His main research interests are in fields related to Pediatric Dentistry. He has received competitive funding from CIHR, CFI and the Hospital for Sick Children. Most recently Dr. Kulkarni, along with his graduate students, has developed a program for the promotion of Infant and Baby Oral Health that was distributed by the Royal College of Dental Surgeons of Ontario to all dentists in the province. He has partnered with several community organizations and has been volunteering regularly to deliver this program. Dr. Kulkarni has presented numerous continuing education courses and is an invited speaker to national and international conferences. Lastly, Dr. Kulkarni maintains an active private practice with a special focus on children with special needs and growth issues. This, he believes provides an ideal balance among teaching and research and clinical practice.
Eilly Lau
Hong Kong Society of Paediatric Dentistry
Hong Kong, China

Dr Eilly Lau obtained her first dental degree, Bachelor of Dental Surgery, from the University of Adelaide in Australia in 1984. In 1985, she enrolled into the first batch of master’s program of the Dental Faculty of the University of Hong Kong and graduated with a Master of Dental Surgery with distinction in 1987. Dr Lau was part-time lecturer in the Department of Children’s Dentistry and Orthodontics from 1985 to 1992. Dr Lau was admitted as a Fellow of the Royal Australasian College of Dental Surgeons in 1988 by examination. She was subsequently admitted as a Fellow of the Hong Kong Academy of Medicine in 1998 and was later conferred a Fellow of the College of Dental Surgeons of Hong Kong in the field of Paediatric Dentistry in 2003. She has also been a Fellow of the International College of Dentist since 1990. Dr Lau is a registered specialist paediatric dentist in Hong Kong. She has been in private practice since 1988. Her work focuses on delivering rehabilitative dental treatment to young patients and those with special needs or disabilities. She uses sedation routinely on her patients who cannot cope with dental treatment on their own. She has done over 5000 cases with dental sedation in her office. She has given many lectures on the topics of oral health care for children with autistic spectrum disorder and dental sedation for special needs patients.

Dr Lau is currently President of the Hong Kong Society of Paediatric Dentistry. She has been Honorary Dental Consultant to the Heep Hong Society for the handicapped and St Christopher’s Home for over 20 years. Dr Lau is one of the founding member of Hong Kong Christian Dental Fellowship in year 2000. Dr Lau is involved in many voluntary dental service programs both in Hong Kong and China.

Jaeho Lee
College of Dentistry, Yonsei University
Korea

PROFESSIONAL EXPERIENCE

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<td>1996.3–Present</td>
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<td>Professor</td>
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<td>2009.8–Present</td>
<td>Dept. of Pediatric Dentistry, Yonsei University College of Dentistry, Seoul, S. Korea</td>
<td>Chair</td>
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<tr>
<td>2009.8–Present</td>
<td>Dept. of Pediatric Dentistry, Yonsei University Dental Hospital, Seoul, S. Korea</td>
<td>Director</td>
</tr>
<tr>
<td>2001.9—2002.8</td>
<td>Dept. of Pediatric Dentistry, University of Rochester, NY, USA (Eastman Dental Center)</td>
<td>Visiting Professor</td>
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EDUCATION:

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<tr>
<td>DDS</td>
<td>1988.2</td>
<td>Yonsei University</td>
<td>Dentistry</td>
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<tr>
<td>MSD</td>
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<td>Pediatric Dentistry</td>
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<td>Ph.D</td>
<td>1998.8</td>
<td>Yonsei University</td>
<td>Pediatric Dentistry</td>
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PROFESSIONAL SOCIETIES

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<td>International Association of Pediatric Dentistry (IAPD) Member</td>
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</table>

JOURNAL REFEREE AND EDITORIAL ACTIVITIES:

| 1 | Editorial Staff, Pediatric Dental Journal of Japanese Society of Pediatric Dentistry, 2008.9.1-2010.3.31 |
| 2 | Editor in Chief, Journal of Korean Academy of Pediatric Dentistry, 2006.6-2010.5 |
| 3 | Editor in Chief, Journal of Korean Association for Disability and Oral Health, 2011.11-2013.6 |

COMMITTEE ACTIVITIES: Served on and/or currently serving –

| 1 | Secretary General, The Organizing Committee for 24th Congress of International Association of Pediatric Dentistry (IAPD), 2010.9-Present |

Dr Jae Cheoun “Justin” Lee was born in Choongnam, Korea. He graduated from Seoul Nation University (SNU), School of Dentistry in 1986 and completed his pediatric dental specialty at SNU Hospital in 1989. He received a doctoral degree at Seoul National University in 1995.

He had been a visiting scholar at University of Illinois at Chicago, USA, 2004. He has been a clinical professor at Seoul National University Dental Hospital since 1995. He established private practice, Seoul Children’s Dental Center (CDC dental hospital) exclusively for children.
in 1992. He is a director of KAPD, secretary general of KADH, a board member of PDAA and a fellow of International College of Dentists (ICD).

His major interests are about minimally invasive caries control, behavioral management and growth guidance of face and occlusion.

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**Sang Ho Lee**

**College of Dentistry, Chosun University**

**Korea**

- **Present**: Professor, Dept. of Pediatric Dentistry, School of Dentistry, Chosun University, Gwangju, South Korea
- **1983, 1987, 1991**: Bachelor, Master, and Doctoral degrees of Dental Science obtained from Yonsei University, Seoul
- **1994-1996**: Visiting professor, UCSF, San Francisco, California, USA
- **1999-2003**: Dean, School of Dentistry, Chosun University
- **2003-2005**: Director, Postgraduate course of Dentistry, Chosun University
- **2007-2009**: Superintendent, Dental Hospital, Chosun University
- **2004-2007**: Board, Korean Academy of Dental Science
- **2006-2010**: Vice president, Korean Academy of Laser Dentistry
- **2008-2010**: Board, Pediatric Dentistry Association of Asia (PDAA)
- **2008-2010**: Vice president, Korean Academy of Sport Dentistry
- **2009- present**: Vice president, Korean Academy of Dental Education
- **2009- present**: Chairman, Local Organizing Committee for 2013 Seoul IAPD Congress
- **2011- present**: Vice president, Korean Academy of Pediatric Dentistry
- **2004**: Grand prize for proper guidance of youth received from the Minister of Justice Department
- **2011**: Grand prize for distinguished education service received from president of Chosun University
- **2012**: Award for distinguished education service received from Korean Teachers Union.

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**James Lucas**

**Royal Children's Hospital of Melbourne**

**Australia**

Dr James Lucas is one of the leading paediatric dental specialists in Australia and the world. James is the Deputy Director of the Dental Department at the Royal Children's Hospital as well as a Clinical Associate Professor at the University of Melbourne.

As a visiting consultant to the National Hospital of Odontostomatolgy in Ho Chi Minh City, Vietnam, James is involved in the evaluation and treatment of cleft lips and palates for children in Southern Vietnam.

James is also the Past President of the Australasian Academy of Paediatric Dentistry.
Adrian Lussi  
University of Bern  
Switzerland

Professor Adrian Lussi is Executive Chairman, School of Dental Medicine, University of Bern, Switzerland, and Head of the Department of Preventive, Restorative and Pediatric Dentistry. In the same department he was head of the Pediatric Dentistry Division for 11 years. He holds a master’s degree in chemical engineering from the Swiss Federal University of Technology, Zurich, Switzerland, a teaching license at college level with chemistry as main subject as well as a diploma and a doctorate in dentistry from the University of Bern, Switzerland. His research over the past 25 years has covered several aspects of erosion, caries diagnosis and minimally invasive preparation techniques in operative dentistry. He has published over 300 articles, and he has edited four books. Adrian Lussi received numerous national and international awards for preventive dentistry and caries research.

1999 Wrigley Prize for prevention in dentistry  
2004 Swiss Science Forum. First prize for a novel prophylactic system  
2006 Yngve Ericsson Prize for research in preventive dentistry  
2008 IADR Research in dental caries award  
2009 ORCA Prize for Caries Research

Luc Martens  
Ghent University  
Belgium

Prof Dr Luc MARTENS (UGent 1980) is > 25 years chairman of the dept. of Paediatric Dentistry and Special Care at the university of Ghent-Belgium. He promoted 7 PhD theses and authored/co-authored ca 100 international papers as well as > 100 national papers. He edited/co-edited also 4 handbooks. Prof Martens is founder and past-president of the Belgian (BAPD) and the European Academy of Paediatric Dentistry (EAPD). Prof Martens was an external examiner for the masters programme in Leeds, Amsterdam and Kuala Lumpur. He organised in Bruges the 3rd European congress of Paediatric Dentistry (1996) and the 4th European Laser conference (ESOLA) in Belgium (2007). The 20th congress of the International Association of Disability and Oral Health (iADH) was hosted in Ghent (2010).

Keira Mason  
Harvard Medical School, Children's Hospital Boston  
USA

Dr. Keira P. Mason is a Harvard trained anesthesiologist with a specialty in Pediatric Anesthesia. An Associate Professor of Anesthesia at Harvard Medical School, she is Director of Radiology Anesthesia and Sedation at Boston Children's Hospital in the
United States and is a pioneer in the field of sedation. She started an annual sedation conference through Harvard Medical School, entitled Pediatric Sedation Outside of the Operating Room, which attracts national and international attendees and faculty of all specialties. She has written over 60 papers and chapters on pediatric anesthesia and sedation and has lectured in 14 countries. She is the Vice Present of the World Society of Intravenous Anesthesia as well as the Chairman of the International Sedation Task Force and the Pediatric Committee of the World Society of Intravenous Anesthesia. She is committed to exploring through clinical practice and research, innovative techniques and options for all specialties to deliver safe sedation. Her most recent contribution to the field of sedation has been the Adverse Event Sedation Reporting Tool (www.AESedationReporting.com) of the International Sedation Task Force. This open access tool presents standardized definitions of sedation-related adverse events (for both adult and pediatric patients) in an effort to unite all sedation providers globally to adopt universal definitions which will facilitate and promote sharing and a better understanding of sedation practice and outcomes. This tool is intended to be used by a sedation provider that administers sedation, regardless of specialty and provider geographical locale. Recently, she published a book entitled Pediatric Sedation Outside of the Operating Room, a hardcover textbook intended for all specialists who provide sedation to children.

**Aida Carolina Medina**
Universidad Central de Venezuela
Venezuela

Associate Professor. Paediatric Dentistry and Orthodontics Department, Universidad Central de Venezuela, Caracas, Venezuela
Director of the Master of Sciences in Dentistry, Universidad Central de Venezuela
President of the Venezuelan Society of Paediatric Dentistry (SVOP)

Dr. Medina was born in Maracay, Venezuela and received her degree in Dentistry in 1995. She completed her degree in Paediatric Dentistry at the Universidad Central de Venezuela in 1999 and has been teaching in the Paediatric Dentistry and Orthodontics Department of her school since graduation, currently holding the position of Associate Professor. She completed her Masters in Dentistry degree at the Universidad Central de Venezuela and was designated Director of the program in 2012. Her main area of interest within paediatric dentistry is craniofacial growth and development as well as Dentofacial Orthopaedics. She has published articles in several journals and given lectures in Venezuela and abroad. Dr. Medina has been member of the Board of the Venezuelan Society of Paediatric Dentistry and in presently the President of this association. She has collaborated with the Latin American Society of Paediatric Dentistry (ALOP) and was recently appointed member of the Membership Committee of IAPD.

**Present Appointments**
- Associate Professor. Paediatric Dentistry and Orthodontics Department, Universidad Central de Venezuela, Caracas, Venezuela
- Director of the Master of Sciences in Dentistry, Universidad Central de Venezuela
- President of the Venezuelan Society of Paediatric Dentistry (SVOP)
- Paediatric Dentist, Centro Medico Docente La Trinidad, Caracas, Venezuela

**Research and Professional Experience**
- President of the Venezuelan Society of Paediatric Dentistry (SVOP)
- International Association of Paediatric Dentistry (IAPD). Member of the Membership Committee.
- European Academy of Paediatric Dentistry (EAPD). International Member
Kareen Mekertichian
Kidscompers Pediatric Dentistry
Australia

Kareen Mekertichian is a specialist Paediatric Dentist in private practice, establishing the first specialist referral practice in Sydney, Australia in 1995. Kareen completed his dental degree in 1986 at the University of Sydney and obtained his postgraduate training at Westmead, completing his Masters in 1993. Kareen obtained his Primary Fellowship (RACDS) in 1989 and subsequent Secondary Fellowship in 1992 - continuing his close association with Westmead Centre for Oral Health and the Children's Hospital Westmead as a visiting specialist.

Kareen’s long-standing experience in clinical dentistry is matched by an ongoing involvement in providing continuing education and teaching. Kareen is an active member of numerous National and International organisations involved in clinical care and research, relating to the child patient. Kareen was also a member of the Local Organising Committee of the highly successful IAPD Conference, held in Sydney in 2005 and continues his executive role on several dental bodies, as well as examiner for the RACDS and the Postgraduate Paediatric Dentistry Masters course at Westmead Centre for Oral Health. Kareen is the Immediate Past-President of ANZSPD and regularly contributes as a key advisor to several industry and specialist dental groups.

Kareen’s interests relate to providing clinically relevant, simple yet successful management options in dealing with the day-to-day challenges facing all clinicians involved in the care of children.

Ichijiro Morisaki
Osaka University Dental Hospital
Japan

1974: Graduation Osaka University Dental School
1980: PhD Degree, Oral Biology/Pediatric Dentistry
1981-1983: Research Associate of Medical Center, Department of Immunology/Oral Microbiology, University of Alabama at Birmingham, USA
1989: Chief and Associate Professor of Special Needs Dentistry at Osaka University Dental Hospital
2000: Professor of Special Needs Dentistry at Osaka University
Executive Member of IADH 2000-2006
President of Japanese Society for Disability and Oral Health (2005.1. ~ 2010.2.)
Director of Osaka University Dental Hospital (2010)

Amr Moursi
New York University
USA

Dr. Amr M. Moursi is Chairman of the Department of Pediatric Dentistry at the New York University College of Dentistry and an Attending Dentist on the medical staff at the New
York University Langone Medical Center and the Bellevue Hospital Center in New York. Dr. Moursi received a D.D.S. degree from the University of Michigan School of Dentistry. He then completed a pediatric dentistry residency at Children’s Hospital of Pittsburgh. He received a Ph.D. in Craniofacial Biology from the University of California at San Francisco. He is a board certified Diplomate of the American Board of Pediatric Dentistry and a Fellow of the American Academy of Pediatric Dentistry.

For the American Academy of Pediatric Dentistry Dr. Moursi currently serves on the Medicaid and CHIP Advisory Committee and the Nominations Committee. He also serves as a Fellow of the Pediatric Oral Health Research and Policy Center. In addition, Dr. Moursi also serves as a National Spokesperson and is Chair of the Task Force on Global Connections.

Dr. Moursi is a former member of the Examination Committee for the American Board of Pediatric Dentistry. He also served as a Consultant and Pediatric Dentistry Review Committee member for the Commission on Dental Accreditation for the American Dental Association. Dr. Moursi served as the New York State Co-Leader for the Office of Head Start Dental Home Initiative. In New York City, he has been appointed as a member of the Advisory Council for Children of Bellevue, an organization that supports pediatric patients and their families at Bellevue Hospital Center.

Dr. Moursi’s research focuses on birth defects of the head and skull and infant oral health. He is the author or coauthor for over 80 published articles, book chapters and abstracts. He is also Editor of the textbook Clinical Cases in Pediatric Dentistry (Wiley-Blackwell). In addition, Dr. Moursi has led teams of dentists and students to provide pediatric dental treatment, education and training to underserved sites throughout the United States and the world including Maine, Alaska, Tanzania, Grenada and Nicaragua. He also maintains a private practice in New York City.

Dr. Moursi and his department have been featured on NBC’s Today Show, ABC’s Good Morning America, Inside Edition, Sirius Satellite Radio, New York’s ABC 7, Fox 5, CBS 2 and NY1 News, and several New York City newspapers and radio programs.

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**Leda Mugayar**  
*University of Florida*  
*USA*

Leda Mugayar graduated in Dentistry from the University of Campinas, Brazil in 1980 and afterwards undertook four different Master’s degree - Paediatric Dentistry, Radiology and Oral Diagnosis, Preventive Dentistry and Special Care in Dentistry (which is a recognised specialty in Brazil).

Since her graduation from university she has been working with Special Care patients, and Special Care in Dentistry is her main area of expertise together with Paediatric Dentistry.

In 2000 she published a textbook - “Special Care Patients - Manual of Oral Health “, a multidisciplinary approach to the practice of Special Care in Dentistry. It was the first book published in Latin America in the area of Special Needs Dentistry and has been largely referred amongst many Latin American countries.

She has also contributed, as an author, to a number of Chapters on Special Care Dentistry in various textbooks – medical, psychological and dental areas.

Furthermore, there are a number of publications in International Journals and Scientific magazines relating to her academic and teaching activities commencing in 1981.

Prof Mugayar has been active in national and international Associations in Special Care in Dentistry and has made an enormous contribution to the process of having Special Care recognised as a specialty in Brazil in the year 2000.

In Australia she has established, and coordinates, the first Clinical Doctorate Program in Special Needs at the
University of Sydney.
She is the Former President of the IADH - International Association of Dentistry for Disability and Oral Health - and also President of the Australian Society for Special Care Dentistry.
For the last 10 years she has been involved with the Special Olympics Program and is a former President of Special Olympics Brazil after implementing the Special Smiles programs in her home Country.
Additionally, she is the former National co-ordinator of the Special Smiles for Special Olympics Australia. - and as such has implemented the first oral health program in Australia.
From 2003 to 2010 Prof Mugayar was the Head of Special Care Unit at Westmead Hospital in Sydney, Australia.
Currently, she is a Clinical Associate Professor in the Pediatric Department at the University of Florida, United States of America.
Finally, another area of major interest is Autism Spectrum Disorder focusing on patient’s behavioural management.

Soon Hyeun Nam
Kyung Pook National University
Korea

• Education and Training
Feb. 1982 D.D.S., School of Dentistry, Kyung Pook National University
Feb. 1985 M.S.D., Graduate School, Kyung Pook National University
March 1982 - Feb. 1985 Resident ship, Department of Pediatric Dentistry, Kyung Pook National University (KNU) Hospital
Aug. 1991 Ph.D., Graduate School, Kyung-Hee University

• Brief summary of Professional Experience
1988 - : Full-time Instructor, Assistant professor, Associate professor, Professor, Department of Pediatric Dentistry, Kyung Pook National University
2005 - 2008 : The Chief of Dental Hospital of Kyung Pook National University (KNU) Hospital
2009 - : Chairman, Department of Pediatric Dentistry, KNU Hospital
2010 -2011 : Vice- President of Korean Academy of Pediatric Dentistry (KAPD)
2012 - : President of Korean Academy of Pediatric Dentistry (KAPD)

• Major Interests in Clinic
Traumatology
Minor oral surgery & Eruption guidance of impacted tooth

Man Wai Ng
American Academy of Pediatric Dentistry
USA

• Research Overview
Man Wai Ng investigates practice patterns in pediatric dentistry with the goal of improving the delivery of pediatric dental care, particularly in a multicultural setting.
She has been the recipient of a Health Resources and Services Administration grant to develop an oral health curriculum for primary care pediatricians.

• About Man Wai Ng
  Man Wai Ng received her DDS degree from SUNY at Stony Brook School of Dental Medicine and her MPH from Harvard School of Public Health. She completed a residency in pediatric dentistry at Children's Hospital Boston.

Anne O'Connell
Dublin Dental School and Hospital and AMNCH
Ireland

Senior Lecturer / Consultant in Paediatric Dentistry,
Dublin Dental School and Hospital and AMNCH, Tallaght.
And
Director, Graduate Training Programme in Paediatric Dentistry, Trinity College Dublin

Graduated Trinity College Dublin, and then 2 years in general practice in UK.

Accepted to Eastman Dental Center Rochester New York for specialist training in Paediatric Dentistry. She has a US licence and is Board certified in Paediatric Dentistry. Also awarded a degree in Cariology from the University of Rochester and remained on faculty in Eastman until 1991.

Accepted faculty position at the University of Maryland at Baltimore and then was recruited to the National Institute of Dental and Craniofacial Research in NIH, Bethesda as Director of the Clinical Research Core and Senior Paediatric Dentist in The NIH Clinical Center. Research here included basic, translational and clinical science, calcium transport and gene therapy for salivary gland diseases and longitudinal study of irradiation induced cellular damage.

She returned to Ireland and took up her current position as Academic Consultant in Paediatric Dentistry in TCD and the National Childrens Hospital in 2000. She established the current postgraduate 3 year full time training programme in Paediatric Dentistry in 2003. She also runs a private practice in Sandycove, Dublin.

She has numerous research awards, the most recent being the Paul P Taylor Research Award 2008: First Prize American Academy of Pediatric Dentistry for work on children born small for gestational age.

Multiple peer reviewed articles and book chapters.
Editorial boards of dental publications
The first international member of the Council of Scientific Affairs of the American Academy of Paediatric Dentistry

Current President of the Irish Society of Dentistry for Children
Interests: infant oral health, dental anomalies, trauma, cariology.
Hayato Ohshima
Niigata University Graduate School of Medical and Dental Sciences
Japan

1. Occupation: Professor
Division of Anatomy and Cell Biology of the Hard Tissue, Department of Tissue Regeneration and Reconstruction, Niigata University Graduate School of Medical and Dental Sciences

2. Education:
- May 23, 1987: Passing the National Examination for Dental Practitioners
  D.D.S., Mar. 1987
- From Apr. 1987 to Mar. 1991: Niigata University Graduate School of Dentistry (Postgraduate Course), Basic Dentistry (Oral Anatomy)
- Mar. 31, 1991: Awarded the degree of PhD

3. Employment experiences
- From Jan. 2002 to present: Professor
  Division of Anatomy and Cell Biology of the Hard Tissue, Department of Tissue Regeneration and Reconstruction, Niigata University Graduate School of Medical and Dental Sciences
- From Apr. 2004 to Mar. 2005: Chief
  Department of Oral Health and Welfare, Faculty of Dentistry, Niigata University
- From Oct. 2007 to Apr. 2009: Head of Student Services, Institute of Undergraduate Programs and Courses, Niigata University

4. Past main work

5. Awards, chairing society
- Sep. 23, 1995: Research award for young investigator from Japanese Association for Oral Biology
- From 2009 to present: Editor-in-Chief, Journal of Oral Biosciences
- From 2010 to present: Advisory Editor, Dental Materials Journal
- From 2012 to present: Editorial Board, ISRN Anatomy
Giovanni Olivi
University of Genoa
Italy

Giovanni Olivi is graduated in Medicine and Surgery and specialized in Dentistry. He is Adjunt Professor of Endodontics and Restorative Dentistry at the School of Dentistry and at the Laser Dentistry Master Course at the University of Genoa. In 2002 He completed the postgraduated laser course at the University of Firenze, In 2004 He achieved the laser certification from ISLD, In 2006 He achieved the Advanced Proficiency from the Academy of Laser Dentistry, in the 2007 He was recipient of the "Leon Goldman Award" for clinical excellence and in 2009 He achieved the Master status always from the ALD. Giovanni Olivi is author of over 50 articles on paediatric and laser dentistry topics and author of the books "Laser in Dental Traumatatology" (in Italian, 2010 - Ed.Martina, Bologna-Italy) and of "Pediatric Laser Dentistry: a user’s guide" (in English, 2011 - Quintessence Publ.,Chicago-USA). Giovanni Olivi practices Endodontics, Restorative and Pediatric Dentistry in Roma, Italy.

Eung-Kwon Pae
Department of Pediatric Dentistry and Orthodontics University of Maryland
USA

EDUCATION AND BOARD CERTIFICATIONS

Yonsei University, Seoul, Korea 1980 D.D.S.
Mastumoto Dental College, Shiojiri, Japan 1986 Certificate in Orthodontics
University of British Columbia, Vancouver 1989 M.Sc.
University of British Columbia, Vancouver 1993 Ph.D.
University of Connecticut, Farmington 1995 Certificate in Orthodontics

University of Connecticut, Farmington
More than 80 papers, reviews, monograph, and abstracts. Most papers are on obstructive sleep apnea.

PROFESSIONAL EMPLOYMENT RECORD

1995 -1998 Division of Orthodontics and Paediatric Dentistry, University of Western Ontario, Canada
1998-2001 Department of Orthodontics, University of Connecticut, USA
2001-2012 Section of Orthodontics, UCLA School of Dentistry, USA Program Director/ Associate Professor
2012-present Chair/Professor, Department of Orthodontics and Pediatric Dentistry, University of Maryland, USA
Evangelia Papagiannouli  
University of Athens  
Greece  

Lisa Papagiannoulis is a pediatric dentist and currently is Professor and Chair of the Department of Paediatric Dentistry in the Dental School of the University of Athens. She graduated from the Dental School of Athens University (1971). She got a Certificate in Pediatric Dentistry (1976-1978) and a MSc in Oral Biology (1978-1979), both from the University of California at Los Angeles (UCLA). She holds a PhD from the University of Athens (1984).  

Academic Appointments:  
University of Athens: Lecturer (1979-1984), Assistant Professor (1984-1988), Associate Professor (1988-1993), and Professor (1993),  
UCLA: Lecturer in Paediatric Dentistry (1979-1981),  
USC: Clinical Assistant Professor, Department Community Dentistry Section (1979-1980)  
She is a Past President of the IAPD and the HSPD and she was the Chair of the Organizing Committee of the 23rd IAPD Congress (Athens 2011)  
Her main research interests are in the areas of craniofacial growth and development, aetiology, pathology and prevention of dental caries, dental materials and dental care for the special patients.  

Dr. Papagiannoulis has published over ninety scientific papers in International and Greek journals and she has made over one hundred and fifty scientific Presentations in Greek and International Congresses.

Jin-Ho Phark  
University of Southern California  
USA  

Dr. Phark graduated from the Humboldt University Dental School in Berlin Germany, where he also received his doctorate degree. He was a faculty member in the Department of Operative, Endodontic, and Preventive Dentistry at the Dental school in Berlin, as well as in the Department of Comprehensive Care at Case Western Reserve University School of Dental Medicine in Cleveland, Ohio, where he also served as co-director of the Dental Materials Characterization Laboratory, Institute for Advanced.  

Currently. Dr. Phark is an assistant professor in the Division of Restorative Sciences at the Herman Ostrow School of Dentistry of University of Southern California, where he is also the Director of the Dental Biomaterials Research Laboratory and the co-director of the Advanced Program in Operative and Esthetic Dentistry. He is associate editor of Quintessence of Dental Technology. Dr. Phark has been serving as reviewer for several journals, and has lectured and published nationally and internationally. He is author of several journal articles and book chapters. Dr Phark’s main interest is in the field of biomaterials, especially on ceramics, composites, and bonding to dental structures. He is the recipient of the IADR Arthur Frechette Award in Prosthodontics.
Prof. Kitae Park is currently a professor in the Institute of Oral Health Science at Samsung Medical Center Sungkyunkwan University School of Medicine. He served as a chairman of pediatric dentistry and orthodontics at the same institution. He received his D.D.S. from Yonsei University in 1985. In 1991, he received a Certificate in pediatric dentistry at New York University and his M.S. in dental materials science in 1992. He completed his Ph.D. in pediatric dentistry from Yonsei University in 1997. He received a Certificate and M.S. in orthodontics from Northwestern University, Chicago, Illinois, in 1999. He has been working at both areas of pediatric dentistry and orthodontics and his main area of interest is early orthodontic treatment. He has published over 25 international and national scientific papers and has given many presentations at national and international meetings. He has contributed chapters in two textbooks and he is an author of the textbook “Practical Approaches in Early Orthodontic Treatment” (in Korean, 2009).

Francisco J. Ramos-Gomez is currently a Full Professor in the Section of Pediatric Dentistry, at the University of California, Los Angeles; He has also served as UCLA program Director and the Director of Pediatric Services at the Family Dental Center at San Francisco General Hospital and has pioneered protocols in early detection and prevention of Early Childhood Caries (ECC). Dr. Ramos-Gomez was awarded the specialty and an M.S. degree in Pediatric Dentistry from Tufts University School of Dentistry in 1988; he earned his M.P.H. in 1990 from the Harvard University School of Public Health, Department of Policy & Management. In 1992, he was certified in Dental Epidemiology and Dental Public Health from the University of California, San Francisco.
He is a Diplomate of the American Board of Pediatric Dentistry and former member of the Executive Board of the American Association of Public Health Dentistry. Currently, Professor Francisco Ramos-Gomez is a team member and Researcher on the NIDCR/UCSF- CAN-DO-Center to Reduce Oral Health Disparities in Children; Board member of the AAPD Government Council, Perinatal and Infant Oral Health Council; the Oral Health Action Coalition (OHAC); and, the Dental Health Foundation. Fellow of the American College of Dentistry (FACD). He also served as the National HeadStart Oral health Consultant for Region 12 and is Past President of the Hispanic Dental Association.

Jan Rienhoff was born June 17, 1967 in Stade/ Germany. He studied dentistry at High School of Medicine in Hannover/ Germany from 1985-1992 and completed his graduation in 1992. He did his national service in the dentistry department of air force barracks in Pinneberg.
Helen Rodd
University of Sheffield
UK
I qualified with Honours from Bristol University, UK, in 1988. Moving North to Sheffield, I completed my higher training in Paediatric Dentistry in 1997 and was subsequently awarded Clinical Research Fellowships from both the Royal College of Surgeons of England and the Medical Research Council. I obtained my PhD in 2000 and was appointed professor/honorary consultant in Paediatric Dentistry at Sheffield Dental School in 2006.

I have two main research interests, oral neuroscience and child-centred research, thus my research incorporates a number of disciplines and involves both laboratory and clinical approaches. To date, my neuroscience research has principally sought to gain greater understanding into mechanisms of inflammatory pain, using the human tooth pulp as the experimental model. My more recent research interest lies in the field of child-centred oral health with particular emphasis on the impact of dental or facial differences on children’s psychosocial status and the way in which they are judged by their peers on the basis of dental appearance. This very much complements my special clinical interest and involvement with children with a cleft lip and/or palate and children with developmental enamel opacities.

Outside the dental school, I have an active role in the British Society of Paediatric Dentistry (President: 2010-11) and am the Scientific Chair for the 2015 Congress of the International Association of Paediatric Dentistry. The little spare time I have left is spent cycling around the world on a tandem, having many adventures!

Yuke Rustan
SmileWorks Dental Care / Ikatan Dokter Gigi Anak Indonesia
Indonesia

Name: Yuke Rustan
Address: Jalan. Mangga Besar IV E no. 45 A. West Jakarta – 11150. Indonesia
Phone number: 021-629.4567, 0816-912912
Date of birth: June, 10th 1981
Place of birth: Ujung Pandang, South Sulawesi - Indonesia
Gender: Female
Hobbies: Reading books, swimming, playing piano

**FORMAL EDUCATION**
- September 2009-July 2012 Post Graduate Program, Pediatric Dentistry, Faculty of Dentistry, University of Indonesia
- September 1999-April 2005 Under graduate program of Dentistry, Faculty of Dentistry, University of Trisakti
- July 1996-June 1999 IPEKA Senior High School, Puri Indah, Jakarta
- July 1993-June 1996 IPEKA Junior High School, Tomang, Jakarta

**WORKING EXPERIENCE**
- March 2007-now Dentist at SmileWorks Dental care, Kelapa Gading, North Jakarta
- August 2007-now Dentist at School Dental Health Center for, Ipeka International Christian School, Meruya, West Jakarta
- March 2007-August 2007 Tutor assistant at Department of Oral and Maxillofacial, Faculty of Dentistry, University of Trisakti
- September 2006-February 2007 National Job as a Dentist at Alor Island, Nusa Tenggara Timur - Indonesia; by Department of Health – Republic of Indonesia
- April 2005-August 2006 Tutor Assistant at Department of Oral and Maxillofacial, Faculty of Dentistry, University of Trisakti

**NON FORMAL COURSE AND MEETINGS**
- 24-25th May 2012 Participant on 8th Biennial Conference, Pediatric Dentistry Association of Asia; Bali - Indonesia
- 6-7th May 2011 Speaker of Short Lecture at 5th National Meeting, Indonesian Pedodontics Association, Makassar - Indonesia
- 14-17th May 2010 Participant of "High Definition Aesthetic Dentistry, Kuala Lumpur"
- 14-17th October 2009 Participant of "The 15th Scientific Meeting and Refresher course in Dentistry, KPIKG - Universitas Indonesia".
- 17th May 2009 Participant of “Technological resources applied to biological Endodontics, Philosophy and concept, A guideline to success: Dr. Chua Kook Liang, Jakarta”
- 7-9th August 2008 Participant of "Building up Dentist professionalism to Confront the Global Competency, Jakarta"
- 23rd March 2008 Participant of "IMTEC's MDI & ENDURE Implant systems : Dr. Tim Thompson, Jakarta"
- 13th January 2008 Participant of "Technological Resources Applied to Biological Endodontics : Prof. Dr. renato de Toledo Leonardo, Jakarta"
- 9th June 2007 Participant of "One day course by Indonesian Dentist Association - North Jakarta"
- 10th September 2005 Participant of "Building and Managing a Preventive Dental Clinic – as an Alternative" Jakarta
- 25-26th February 2005 Participant of "Meningkatkan daya saing Dokter Gigi Indonesia dalam menghadapi era Globalisasi, Jakarta"
- 19-21st August 2004 Hands On Participant of "Making of Temporary crown in one visit, Course Forum, Faculty of Dentistry, University of Trisakti, Jakarta"
- 12th October 2003 Participant of "The Myofunctional Influences on Facial Growth & The Dentition : Dr. John Flutter, Jakarta"
- 21-23rd August 2003 Hands On Participant of "One Visit Pulpotomy", Course Forum, University of Trisakti, Jakarta"
- 12th April 2003 Participant of "Dentist Scientific Meeting 2003, Jakarta"
- 18th April 2002 Participant of "Making Provisoris with Indirect Method, Jakarta"
Fouad Salama
King Saud University
Saudi Arabia

Dr. Fouad Salama is professor of Pediatric Dentistry, Department of Pediatric Dentistry and Orthodontics, College of Dentistry, King Saud University.

Dr. Salama received Master of Oral Biology and Certificate in Pediatric Dentistry from Medical College of Georgia. He became a Diplomate of the American Board of Pediatric Dentistry in 1993. He was Department Chair and Director of the Postdoctoral Program in Pediatric Dentistry, University of Texas HSC – Houston, School of Dentistry. He was professor and Vice Chair Growth and Development Department, UNMC, College of Dentistry. He was adjunctive professor, Pediatrics, UNMC, College of Medicine and professor, Pediatric Dentistry, Creighton University, School of Dentistry. Dr. Salama is serving in the editorial board of the Pediatric Dentistry, the journal of the American Academy of Pediatric Dentistry. Dr. Salama is Fellow of the American Academy of Pediatric Dentistry, the American College of Dentistry, the International College of Dentists, and the Academy of Dentistry International. Dr. Salama has won numerous awards and holds positions of responsibility at the national and international levels and he is an examiner of the American Board of Pediatric Dentistry.

Dr. Salama served as a consultant to the American Dental Association Commission on Dental Accreditation. He was a member of HRSA Oral Health Advisory Panel “Oral Health Access for Young Children” Department of HHS, Nebraska. Dr. Salama had published over 90 publications, presented more than 200 abstracts and table clinics. He has given more than 70 national and international scientific and professional presentations. Dr. Salama is a reviewer for manuscripts of the Journal of Dental Education, MedEdPORTAL, General Dentistry Journal, Saudi Dental Journal, Journal Clinical Pediatric Dentistry, Advances in Medical Education and Practice Journal and Journal of Rural Health. He is also member of the Advisory Board for King Saud University Journal of Dental Sciences and Bentham Science Journals.

Ulrich Schiffrner
University of Hamburg
Germany

1980  Graduation
1981  Thesis
1982  Assistant Professor, Dept. of Preventive Dentistry, University of Hamburg
1994  Habilitation (Effect of salivary proteins on enamel demineralization)
1996  Associate Professor, Dept. of Preventive Dentistry, University of Hamburg
2002 – 2006 Chairman of the Working Group of Epidemiology and Public Health of the German Society of Dentistry and Oral Medicine
2003 – 2005 Head of the Section for Preventive Dentistry of the Dept. of Operative and Preventive Dentistry University of Hamburg
2004 – 2008  President of the German Society of Paediatric Dentistry
since 2008  Board member of the German Society of Paediatric Dentistry, responsible for continuing education
since 2008  German Councillor in the International Association of Paediatric Dentistry

Vera Soviero
Pediatric Dental Clinic University of the State of Rio de Janeiro
Brazil

1991
Bachelor’s in Dentistry.
Universidade do Estado do Rio de Janeiro, UERJ, Rio De Janeiro, Brazil

1997
Master’s in Pediatric Dentistry.
Universidade Federal do Rio de Janeiro, UFRJ, Rio De Janeiro, Brazil

1999
PhD in Pediatric Dentistry
Universidade Federal do Rio de Janeiro, UFRJ, Rio De Janeiro, Brazil

2010
Postdoctorate.
Universidade de Brasilia, UNB, Brasilia, Brazil

2011
Postdoctorate.
Christian-Albrechts-Universität zu Kiel, CAU, Kiel, Germany

Since 1999
Associate Professor
Department of Preventive and Community Dentistry
Pediatric Dental Clinic
University of the State of Rio de Janeiro, Brazil

Douglas Stewart
Westmead Centre for Oral Health, Westmead Hospital
Australia

Douglas Stewart is the Immediate Past President of the International Federation of Dental Anaesthesiology Societies (IFDAS) 2009 – 2012 and currently chairs the Advisory Committee. Doug has been the Program Director of the Graduate Diploma course for Conscious Sedation & Pain Control at the University of Sydney since 1995, and is also a Senior Staff Specialist in Sedation & Pain Management at the Westmead Centre for Oral Health. He remains as a Sedation Specialist Reservist for the Royal Australian Air Force, Honorary Affiliate to Department of Anaesthesia, Westmead Hospital, and is the Consultant in Sedation for the Royal Australasian College of Dental Surgeons. He also lectures extensively in sedation, advanced life support and medical simulation. Doug has also been the past President of both the Oral Health Foundation and the Dental Alumni Society of the University of Sydney.
Ray Stewart
California Society of Pediatric Dentistry with offices in Carmel
USA

Dr. Stewart graduated from the University Of Oregon School Of Dentistry at the Center for Health Sciences, in Portland Oregon in 1968. He completed a Master of Science degree in Medical Genetics in 1971 and received a Certificate in Pediatric Dentistry after completing a residency program at the University of Oregon in 1971 at which time he joined the faculty at The University of California, Los Angeles (UCLA) as an Assistant Professor.

He served as an Associate Professor, Department of Pediatrics, and Division of Medical Genetics at UCLA/ Harbor General Hospital from 1973-1982. He was the co-founder and Dental Coordinator for the UCLA Craniofacial Anomalies Clinic in Los Angeles 1971-1983. He was the Program Director for the UCLA/Harbor General Hospital Residency Program in Pediatric Dentistry from 1973-1981. Dr. Stewart is the author of three books and numerous other publications.

Dr. Stewart has been active in many state and national dental organizations throughout his career. He served in various capacities on the Board of Directors of the California Society of Pediatric Dentistry from 1989-2005 and served as president of that organization in 1997-1998. He served as the District VI Trustee to the American Academy of Pediatric Dentistry 2000-2003 and as a member of the Executive Committee and Parliamentarian for the AAPD in 2006-2007.

Dr. Stewart was the founding president of the Apolonia Foundation for Children's Oral Health (since renamed the Community Oral Health Program of Monterey County) which operates mobile dental facilities serving rural areas of central California. He also is a founding member of the Committee for the Formation of the Section of Pediatric Dentistry and Oral Health in the American Academy of Pediatrics where he was awarded the Outstanding Achievement award by that organization in 1998.

Dr. Stewart was a founding partner of the Central Coast Pediatric Dental Group in Salinas California where he engaged in the practice of his specialty from 1983 until his retirement in 2008. He was awarded the Dentist of the Year Award by the Monterey Bay Dental Society in 1997. He is a Fellow of the American Academy of Pediatric Dentistry and has been a Diplomate of the American Board of Pediatric Dentistry since 1985. He has been an active member of the American Dental Association, The California Dental Association, The American Academy of Pediatric Dentistry and The California Society of Pediatric Dentistry throughout his career. He was elected as a Fellow of the American College of Dentists in 1999 and as a Fellow in The Pierre Fauchard Academy in 1998.

Dr. Stewart currently serves as the Executive Director for the California Society of Pediatric Dentistry with offices in Carmel, California.

His recreational interests include fly fishing, upland game hunting with his English Setters and racing vintage sports racing automobiles. He and his wife Penny live in Carmel where they enjoy the company of their two children and three grandchildren.
Jinous Tahmassebi
Department of Child Dental Health, Leeds Dental Institute
UK

• Present appointment:
  - Senior Clinical Lecturer/Specialist in Paediatric Dentistry
  - Department of Child Dental Health
  - Leeds Dental Institute

• Address:
Department of Child Dental Health
Leeds Dental institute
Clarendon Way, Leeds
LS2 9LU

• Telephone number:
  01133433955

• Email address:
  j.tahmassebi@leeds.ac.uk

• Qualifications:
  1989 BDS University of Newcastle Upon Tyne
  1993 MDentSci University of Leeds
  1993 MRCD (C) Membership of Royal Collage of Dentists of Canada
  1998 FRCD (C) Fellowship of Royal Collage of Dentists of Canada
  2001 Ph.D. University of Leeds

• Professional registration:
  1989- British Dental Association
  1991- European Academy of Paediatric Dentistry
  1994- British Society of Paediatric Dentistry, Riding Group (Committee Mem)
  1989- Present General Dental council

• Previous and other appointments:
  Dec 1996 - Dec 2005: Senior Dental Officer (Special Needs) Skipton, N. Yorks
  January 2005- present: Senior Clinical Lecturer (part time) Leeds Dental Institute
  January 2005- present: Private Specialist Practitioner in paediatric dentistry

• Research experience
  Supervision of Undergraduate Research Projects:
  1996 Dental treatment of patients with special needs under intubation general anaesthetic (The Winner of Student Prize of 1997 British Society of Dentistry for the Handicapped).
  1997 Assessment of dental knowledge amongst the carers of the special needs schools.
  1998 A literature review on specific applications of hypnosis in dentistry.
  1999 Management of trauma in primary dentition.
  2002 A study on the long-term success rate of the root canal therapy in traumatised permanent incisors.
  2003 An investigation into the current view of non-specialist clinicians with regards to the management of carious primary dentition within the community dental services.
  Supervision of postgraduate Research Project:
  2004 Further dental needs of children receiving exodontia under general anaesthesia at Leeds Dental
Institute (Awarded with merit).

2005 Dental needs of children receiving comprehensive care treatment under General anaesthesia at Leeds Dental Institute.

2006 Comparison of using conventional local anaesthetic technique and Wand in children (Awarded with merit).

2007 Unilateral versus bilateral placement of slow-released fluoride glass device (Awarded with distinction).

2008 The effect on zone inhibition of demineralization of the dental hard tissues under cariogenic conditions (Awarded with distinction).

2009 The effect on Ozone remineralization of demineralized dental hard tissues in situ (Awarded with distinction).

2009 Effect of new smoothie drinks on erosion of the dental hard tissue (Awarded with merit).

2009 Investigation into the onset of Wand local anaesthetic as compared with the conventional technique (Awarded with merit).


2010 An investigation into effect of smoothies on dental enamel: An in situ study. (Awarded with merit)

Yasuo Tamura
Asahi University School of Dentistry
Japan

1977 DDS, from Gifu Dental College (Asahi University School of Dentistry)
1983-'87 PhD, Associate Professor, Dept. of Pediatric Dentistry
1988 Accredited Pediatric Dentist of JSPD (Japanese Society of Pediatric Dentistry)
1988-'89 Guest Researcher, Academic Center for Dentistry, Amsterdam University
1991 Chair of Social Program, Steering Committee at the 13th IADC in Kyoto
1996 Academic Award from JSPD
1998- Present Professor and Chairman, Dept. of Pediatric Dentistry, Asahi University School of Dentistry
2001-’05 Vice president of Asahi University Hospital
2006-’07 President of Japanese Society of Stomatognathic Function
2010 Award from Minister of Health, Labor and Welfare of Japan
1998- Present Council and Board, JSPD
2005- Present Director of Foreign Affairs Relations, JSPD
2007- Present Council, Pediatric Dentistry Association of Asia, and IAPD
2007- Present Dean, Asahi University School of Dentistry
Shobha Tandon  
BBD University  
India  

- **Designation**  
Dean, Professor & Head of Dept.  
Pedodontics and Preventive Dentistry  
BBD College of Dental Sciences  
BBD University, Lucknow 227105  
U.P., INDIA  

- **Address for communication**  
Residence : E2/F1 River Bank Colony  
Lucknow, U.P., India  
Telephone : Office: +91-522-391126, +91-522-3911089  
Residence: +91-522-2614848  
Fax : +91-522-3911085  
E-Mail : Residence: drtandons@yahoo.com, shobhatandon2010@gmail.com  
Office: office@bbdcods.edu.in  

- **Qualifications**  

<table>
<thead>
<tr>
<th>Course</th>
<th>University</th>
<th>Institution</th>
<th>Year of passing</th>
<th>Attempt</th>
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<tr>
<td>B.D.S.</td>
<td>Lucknow</td>
<td>Dental College and Hospital, Lucknow</td>
<td>1971</td>
<td>First</td>
</tr>
<tr>
<td>M.D.S.</td>
<td>Lucknow</td>
<td>Dental College and Hospital, Lucknow</td>
<td>1973</td>
<td>First</td>
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+Speciality : Pedodontics and Preventive Dentistry  

- **Work Experience Academic Positions held:**  

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<thead>
<tr>
<th>Nature of post</th>
<th>Period</th>
<th>Employer</th>
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<tr>
<td>1. House Surgeon</td>
<td>Six months (1-7-71 to 31-12-71)</td>
<td>Principal, King George's Medical College, Lucknow</td>
</tr>
<tr>
<td>2. Demonstrator in Dental College &amp; Hospital, Lucknow</td>
<td>2 yrs, 1 month and 10 days (24-1-74 to 7-3-76)</td>
<td>Principal, King George's Medical College, Lucknow</td>
</tr>
<tr>
<td>3. Senior Resident in Dental Surgery Dept. Lady Hardinge's Medical College, New Delhi</td>
<td>4 months (6-4-75 to 7-8-75)</td>
<td>Principal, Lady Hardinge's Medical College, New Delhi</td>
</tr>
<tr>
<td>4. Lecturer in Dental Surgery, UP State Medical College</td>
<td>6 years 11 months (8-3-76 to 14-2-83)</td>
<td>U.P. Government</td>
</tr>
<tr>
<td>5. Prof. &amp; Head, Dept. of Pedodontics and Preventive Dentistry</td>
<td>25 yrs, 7 months (19-2-83 to 31.1.09)</td>
<td>Management, Manipal College of Dental Sciences, Manipal University, Manipal</td>
</tr>
<tr>
<td>6. Vice-Principal College of Dental Surgery, Manipal</td>
<td>4 yrs, 11 months (20-10-87 to 19-10-93)</td>
<td>Management, Manipal College of Dental Sciences, Manipal</td>
</tr>
</tbody>
</table>
Ben Taylor
Pediatric Dentistry of San Antonio
USA

Dr. Taylor’s dental career started in 1971 as a preventive dental assistant in the Air Force. After leaving the service in 1975 he attended Del Mar College in Corpus Christi where he received a associates degree in Dental Hygiene. He then moved to Nacogdoches Texas close to where he grew up in...

During his career Dr. Taylor has held many positions in dental organizations including the Texas Dental Hygiene Association, The Texas Academy of Pediatric Dentistry, and the San Antonio District Dental Society. In May of 2009 Dr. Taylor will become president of the 800 member San Antonio District Dental Society. Along with being involved in his professional organizations Dr. Taylor, a board certified pediatric dentist, is also involved in education. He takes many hours of continuing education yearly and has given courses and lectures to pediatric dentists, general dentists, dental hygienists, and whole dental teams. Dr. Taylor is married; he has four children and two grandchildren. He values and enjoys his time with his family. His hobbies include magic, bicycling, and woodwork. Many of the unique features of the office were designed and built by Dr. Taylor. He also makes the staff and his family wooden Christmas gifts each year. Dr. Taylor loves his career in pediatric dentistry where prevention is emphasized. He especially loves watching his patients grow to be healthy happy people.

Anthony Tsai
Taiwan Academy of Pediatric Dentistry
Taiwan

Dr. Tzong-Ping Tsai, also known as Anthony Tsai, was born in Tainan, Taiwan. He graduated in Dentistry in 1982 at the Kaohsiung Medical University, Taiwan. He completed his pediatric dentistry specialty training and received his M.S. in 1986 at the University of Michigan, USA. He is a founding member and a past president of Taiwan Academy of Pediatric Dentistry. He is currently the Director of the Taiwan Board of Pediatric Dentistry. Before becoming a full time private practice in 2000, he was a clinical assistant professor at the Chang Gung Memorial Hospital, Taipei, Taiwan. He was the Head of the Pediatric Dentistry at the Chang Gung Memorial Hospital (Taipei). He is a diplomate of the American Board of Pediatric Dentistry and a fellow of International
College of Dentists. He has been actively involved in the development of national school fluoride mouth-rinsing program and establishing new standard for fluoride toothpaste in Taiwan. He published several articles in refereed journals and presented reports in national, Asia and international conferences. His research interests are in preventive dentistry, pulp therapy and tooth auto-transplantation.

Mitsuhiro Tsukiboshi
Tsukiboshi Dental Clinic
Japan

- 1977 Graduated from Osaka University School of Dentistry
- 1977 School of Medicine, Kyoto University Graduate School admission
- 1981 Graduate School of Medicine, Kyoto University
- 1981 Ph.D., Kyoto University Medical
- 1982 Dental Clinic opened in the Crescent Star Kanie-cho, Aichi Prefecture Kaifu-gun
- 1983 Asahi University part-time lecturer (retired 2001)
- 1988 Member American Academy of Periodontology
- 1991 (Renamed Study Group, 2000) Chairman of the Japan Research autologous transplantation of teeth
- 1992 International Society for Traumatic Dental Society members
- 1998 Part-time Lecturer Faculty of Dentistry, Osaka University (retired 2007)
- 1998 Lecturer, Department of endodontic U.S. Loma Linda University
- 2000 Chairman of the Nippon Dental Research autologous transplantation of teeth trauma
- 2001 Editorial Board of Dental Traumatology (Editorial Board)
- 2002 Part-time Lecturer Faculty of Dentistry, Okayama University (retired 2003)
- 2003 International Association of Dental Traumatology Director of (IADT) (International Society for Traumatic Dental Society Board of Directors)
- 2003 Association for Dental Science Council of Japan playing
- 2004 Japan Society of tooth trauma director (retired 2009)
- 2009 The President of IADT (retired 2011)

Svante Twetman
University of Copenhagen
Denmark

Svante Twetman is a paediatric dentist and professor of cariology at the Faculty of Health and Medical Sciences, University of Copenhagen, Denmark. He graduated from the dental school 1974 and holds the PhD and Odont Dr degree from Karolinska Institutet, Stockholm, Sweden. He is currently director of the maxillofacial unit at Halland Hospital in Halmstad, Sweden. The research interest, with focus on clinical trials, is fluoride and
microbial aspects on oral ecology and risk assessment/caries prevention in childhood. Dr. Twetman has authored over 160 peer-reviewed papers and lectured in all continents. He is a consultant of The Swedish Council on Health Technology Assessment. He received the IADR distinguished scientist award in 2010 and the IADR Borrow Award in 2011.

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Joe Verco
Australasian Academy of Paediatric Dentistry
Australia

Dr Joe Verco was the first graduate in the specialty of Paediatric Dentistry from The University of Adelaide (and the second in Australia). The only dentist to be awarded a Baillieu Medical Research Grant for postgraduate work.

Dr Verco has been a Past-President of the Australian Dental Association (SA Branch), Australian Society of Dentistry for Children (Federal and SA Branch) and more latterly Past-President of the Australian and New Zealand Society of Paediatric Dentistry (SA Branch). He has been Chairman of Public Relations Committee of I.A.P.D. and is currently on the Editorial Board of the Pierre Fauchard Academy.

He has also enjoyed an ambassadorial role on the People to People Programme hosted by Past Presidents of the American Academy of Paediatric Dentistry in Russia, China, South Africa.

Outside dentistry Dr Verco is a Life Member of the National Trust, current member of the Heritage Committee of The University of Adelaide, Fellow Foundation Member of the Art Gallery of South Australia, Franklin Donor to the Mortlock Library of South Australia, Member of the Waterhouse Club of The South Australian Museum, Pilot Member of Angel Flight.

He has represented the ADA (SA Branch) on the Postgraduate Committee in Dentistry, ADA-Government Liaison Committee, ADA-Dental Trade Committee, Dental Faculty of The University of Adelaide, Council of Professions, Dental Policy and Implementation Review Committee, Public Relations Sub-Committee, Children's Services Liaison Officer, ADA (Health) Funds Liaison Committee.

Present Memberships
- Australasian Academy of Paediatric Dentistry (A.A.P.D. President)
- Australian Dental Association
- Australian and New Zealand Society of Paediatric Dentistry (A.N.Z.S.P.D.)
- American Academy of Pediatric Dentistry (A.A.P.D.)
- European Academy of Paediatric Dentistry (E.A.P.D.)
- Royal Australian College of Dental Surgeons (R.A.C.D.S.)
- Pierre Fauchard Academy (P.F.A.)
- International College of Dentists (I.C.D.)

He has represented The University of Adelaide in Inter-Varsity competitions for water-skiing (slalom, tricks and jump), snow skiing (jump) and golf.

The Verco bond with The University of Adelaide is now 136yrs old in 2013.
Forebears started the Faculty of Medicine (1885) and Faculty of Dentistry (1920) and has a cousin in
Prof. Robin Warren, Nobel Laureate, (Helicobacter pylori 2005).
Now son Sam Verco, Oral and Maxillo-Facial Surgeon, has both a dental and medical qualifications.

Anna Maria Vierrou
Hellenic Society of Paediatric Dentistry
Greece

Anna-Maria Vierrou was born in Athens Greece. She obtained her DDS from the Dental School of Athens University and the Certificate in Paediatric Dentistry from the University of Connecticut Health Center, USA. She holds a PhD from the University of Athens. She also holds the National Board Dental Examination of ADA Part I and II and the American Board of Pediatric Dentistry Part I.
Dr Vierrou is President of the Hellenic Society of Paediatric Dentistry (HSPD) and Board member of the IAPD where she also chairs the membership committee and is a member of the Site Selection & Co-ordination Committee. She held the position of Secretary General in the Organizing Committee of the 23rd IAPD Congress, Athens 2011.
She was present in the first open meeting of EAPD in 1990, in Boston, USA and in the European Academy she has been appointed in the following positions: Councilor for Greece 2000-2004, Member of the Credentials Committee 2004-2006, Member of the Clinical affairs Committee 2006-2012.
Dr Vierrou was appointed as moderator in the 2009 EAPD workshop concerning the MIH guidelines and she participated in the workshops for the guidelines on the topics of sedation and fluorides.
Dr Vierrou has been appointed as clinical instructor in the Department of paediatric Dentistry of the University of Athens for ten years. She is the author of several scientific articles published in Greek and international journals and has participated as a speaker in national and international congresses. She runs a private practice limited to Paediatric Dentistry in Athens.

Hubertus van Waes
University of Zuerich
Switzerland

-Head of section for paediatric dentistry, Clinic for Orthodontics and Paediatric Dentistry, Centre for Dental and Oral Medicine, University of Zürich, Plattenstrasse 11, 8032 Zuerich.
-Director of Public School Dental Services Zürich, Parkring 4, 8027 Zuerich

1959 Born 10.3.59 in Roosendaal (NL)
1978-1984 Undergraduate education in dentistry, Centre for Dental and Oral Medicine, University of Zuerich
1984-1986 Clinical Assistant for paediatric dentistry, Clinic for Orthodontics and Paediatric Dentistry, Centre for Dental and Oral Medicine, University of Zuerich.(Prof. P.Stoeckli)
1986-1988 Clinical Assistant, Departement for Preventive Dentistry, Cariology and Periodontology, University of Zuerich (Prof. F. Lutz)
1988 Dissertation "General anesthesia in paediatric dentistry"(Supervisor: Dr. E. Ben-Zur).
1988-1989 Clinical Assistant, Department for Oral Surgery, University of Zuerich (Prof. H. Sailer).
1989-1990 Dentist, Public School Dental Services Zuerich.(Prof Z. Curilovic)
William Waggoner
Pediatric Dental Care Associates Las Vegas
USA

William F. Waggoner D.D.S., M.S. has been in full-time practice of pediatric dentistry in Las Vegas, NV since 1996. He graduated from the West Virginia University College of Dentistry in 1980 and completed his Master of Science degree in Pediatric Dentistry at the University of Iowa in 1982. From 1982-1986, Dr. Waggoner held a full time academic appointment at the University of Oklahoma College of Dentistry. From 1986-1995 he was Associate Professor of Pediatric Dentistry and Director of the Children's Dental Clinic at the Ohio State University College of Dentistry. Dr. Waggoner has numerous research publications in peer-reviewed dental journals and is the author of a chapter in a popular pediatric dental textbook. He is a diplomate of the American Board of Pediatric Dentistry and a Fellow of the American Academy of Pediatric Dentistry. Dr. Waggoner is a frequent speaker on the subject of dentistry for children. He has been a featured seminar speaker of the American Dental Association and has given dental presentations internationally and in over 30 states. He is a member of the American Dental Association, American College of Dentists, American Academy of Pediatric Dentistry, and is past President of the Nevada Academy of Pediatric Dentistry.

Dr. Waggoner has been married for 34 years to his wife, Linda Ann, a marriage and family therapist. They have four grown children. His spare time is devoted to family activities, reading and traveling.

Stephen Wei
Hong Kong Society of Paediatric Dentistry
Hong Kong, China

Professor Stephen Wei is Honorary Professor and Professor Emeritus of the Faculty of Dentistry of the University of Hong Kong. He was Chair Professor and Head of the Department of Children's Dentistry and Orthodontics, The University of Hong Kong. He was the former Dean, Faculty of Dentistry from 1989 to 1997. Whilst Dean, he was also the Director of the Prince Philip Dental Hospital which houses the teaching, clinical and research facilities of the Faculty of Dentistry. He now has a part-time private practice in Central in Hong Kong. He continues to participate actively in basic and clinical research projects and supervises post-graduate students' research in the Faculty of Dentistry. He is Honorary Consultant in Paediatric Dentistry to the Hong Kong Hospital Authority in Kwong Wah Hospital and is also Consultant, Clinical Affairs to Dentsply Asia.

Professor Wei holds a dental and a master's degree from the University of Adelaide in South Australia and a M.S. degree from the University of Illinois and a D.D.S. degree from the University of Iowa. He taught at the
University of Iowa from 1967 to 1983 and served as Professor and Head, Department of Pedodontics. In 1983, he was appointed Professor and Chairman, Division of Pedodontics, and Vice-chairman, Department of Growth and Development, University of California at San Francisco. He was concurrently the Dental Director at the Children's Hospital Medical Center of Northern California in Oakland, California. He is a Fellow of the Royal Australasian College of Dental Surgeons, a Fellow of the American Academy of Pediatric Dentistry, a Fellow of the International College of Dentists, a Fellow of the American College of Dentists, a Foundation Fellow and Inaugural President of The College of Dental Surgeons of Hong Kong of the Hong Kong Academy of Medicine, and a Diplomate of the American Board of Pediatric Dentistry.

He was a past Chairman of the Council on Dental Research of the American Dental Association. He was a member of the Special Study Section of the National Institute of Dental Research. He served on many occasions as consultant to the National Institute of Dental Research. He was the only dentist on the Maternal and Child Health Research Grant Review Committee of the Office of Maternal and Child Health, Bureau of Community Health Services, Department of Health and Human Services, Rockville, Maryland. He was a consultant to the American Board of Pediatric Dentistry. Dr. Wei is Editor Emeritus and was the Founding Editor-in-Chief of Pediatric Dentistry, The Journal of the American Academy of Pediatric Dentistry (1978 - 1982). He was an Expert Consultant to the U.S.P.H.S. for many years.

Richard Welbury
University of Glasgow Dental School
UK

Biography
Richard Welbury graduated from Newcastle University with BDS (Hons) in 1978 and MB BS in 1984. He then received a Ph.D. from Newcastle University on 'An evaluation of composite resins and glass polyalkenoate cements in Paediatric Dentistry'. In 1988 he was appointed Lecturer in Paediatric Dentistry at the University of Newcastle upon Tyne and in 1991 Regional Consultant in Paediatric Dentistry at Newcastle Dental Hospital. In 2001 he was appointed to the Chair of Paediatric Dentistry at the University of Glasgow Dental School. In 2001-2002 he was President of the British Society of Paediatric Dentistry and 2006-2008 President of the European Academy of Paediatric Dentistry. Between 2003-2006 he was Chairman of the Standing Advisory Committee in Paediatric Dentistry of the combined Royal Colleges.

Research interests
Richard Welbury has a long standing interest in anxiety management in children and the effects of the drugs used for anxiety management techniques on normal function. His initial work in this field was with nitrous oxide but more recently nitrous oxide has been used as the standard against which other techniques, especially those using the benzodiazepine midazolam are judged.

Randomised controlled trials have been completed investigating oral, submucosal and intravenous administration of midazolam in children and adolescents. On his appointment at Glasgow he established strong links with the Departments of Psychology and Anaesthesia and recent research has focused on the cognitive effects to the child and adolescent of general anaesthesia and sedation.

The initial grant funded randomised controlled trial investigated cognitive function after a short general anaesthesia for exodontia. Currently the focus of the second grant funded randomised controlled trial is related to the cognitive effects of longer intubation general anaesthesia. The strong clinical links established between the University of Glasgow Dental Hospital and School, the Royal Hospital for Sick Children (Yorkhill) and the Western Infirmary Glasgow has allowed collaborative clinical research with direct relevance to the delivery of dental care in everyday practice.
Stephen Wilson
Cincinnati Children's Hospital Medical Center
USA

Stephen Wilson, DMD, MA, PhD, is a Professor and Director of the Division of Dentistry at Cincinnati Children's Hospital Medical Center. He also serves as Assistant Dean for Graduate Studies at the University of Louisville School of Dentistry. Dr. Wilson received his dental degree (DMD) and Doctorate in Physiology (PhD) at the University of Louisville in Louisville, Kentucky. His residency training in Pediatric Dentistry was done at the University of Louisville and Kosair-Children's Hospital. Dr. Wilson also has a Master's degree (MA) in Psychology that, along with his Bachelor of Science (BS), was obtained from Eastern Illinois University. Dr. Wilson is a board-certified pediatric dentist and a Diplomate of the American Board of Pediatric Dentistry. He has served as a Director of the American Board of Pediatric Dentistry and was President of the American Board of Pediatric Dentistry from 2003-2004. He has served on the Advisory Committee to the American Board of Pediatric Dentistry and was chair of Part IV of the Advisory Committee. Dr. Wilson has been and continues to be active in the American Academy of Pediatric Dentistry (AAPD). He has been a member or chair of the Research Committee, Membership Committee, Sedation Committee, and annual Program Planning Committee of the AAPD. He has been a member of the Editorial Board of Pediatric Dentistry. He also has been active as a leader of the Post-Graduate Program Directors group of the AAPD. He is the current Director of the AAPD-sponsored Sedation Course.

Dr. Wilson has served as Vice President on the Administrative Board of the Council of Faculties of the American Dental Education Association (previously AADS) and was on the Board of Directors of that Association. Dr. Wilson is also a member of the American Dental Association and has served on the American Dental Association’s task force committee on anesthesia and sedation. Dr. Wilson has been a consultant to the Federal Drug Administration (on sedation), the National Institutes of Health, and the Ohio Dental Board. He has published over 85 papers and spoken at numerous local, national and international meetings. Dr. Wilson’s research interests include child behavior in the dental clinic, conscious sedation for children and electronic monitoring during sedation.

Youichi Yamasaki
Kagoshima University Graduate School of Medical and Dental Sciences
Japan

1983 Graduated from Kyushu University, School of Dentistry
Graduate student at Kyushu University Graduate School of Dental Science
1987 Research Associate at Kyushu University (Department of Pediatric dentistry)
1989 Received Ph.D. degree from Kyushu University
1996 Visiting Researcher at the University of British Columbia (Canada)
1997 Assistant Professor at Kyushu University (Department of Pediatric dentistry)
2003 Professor at Kagoshima University (Department of Pediatric dentistry)
2008 Vice-President of the Japanese Society of Pediatric Dentistry (JSPD)
2012 President of the Japanese Society of Pediatric Dentistry (JSPD)
Noraini Yunus
Kuala Lumpur Hospital
Malaysia

Dr Noraini Yunus received her dental training at the University of Baghdad Iraq (1979) and postgraduate degree Master of Dental Surgery in Paediatric Dentistry from Otago University New Zealand (1986). Since joining the dental service in 1979 she has always been interested in the oral health in children and after obtaining her specialist qualification, she developed an interest in the dental management of children with special needs especially those with chronic medical problems and orofacial neuromuscular dysfunction. She was given a study grant in 1994 for Dental Management of HIV/AIDS infected children, at the Eastman Dental Institute London, and a WHO study grant for a clinical attachment at the Great Ormond Street Hospital for Sick Children London in 1995. This led to her appointment as a panel member of the Medical Advisory Board of the Malaysian Haemophilia Society in 1997 to date.

She is a member of many professional bodies among which are the International Association for Dental Research, International Association of Paediatric Dentistry, Asian Association of Oral & Maxillofacial Surgeons, Malaysian Dental Association and World Federation of Haemophilia. She is a member of Board of Directors of Pediatric Dentistry Association of Asia, the advisor to Malaysian Association of Paediatric Dentistry and a Fellow of the Academy of Medicine Malaysia.

She is appointed as the Honorary Consultant for Master in Clinical Dentistry in Paediatric Dentistry University Malaya and a Clinical Professor in Paediatric Dentistry MAHSA University College Malaysia. She is the senior consultant in Paediatric Dentistry at the Kuala Lumpur Hospital and currently is the Head of Paediatric Dental Services Ministry of Health Malaysia.

She has presented many papers at both national and international levels. Among other things, she is actively involved in the comprehensive management of children and adolescents with special needs especially in the use of implants for their oral rehabilitation.

Shuguo Zheng
Peking University School of Stomatology
China

Prof. Zheng graduated from School of Stomatology Beijing Medical University (A predecessor of Peking University School of Stomatology) and got the DMD degree in 1992 and PhD in 1996, respectively. As a postdoctoral fellow or visiting scientist he was in Germany in 1997, Nihon University in 1999, Hong Kong University in 2003, King's College University of London in 2007, respectively. He passed the examination and was elected the first in China as the M Paed Dent RCS (Edin., UK) in 2003. He is now the Chairman of the Stomatological Society of Chinese Association for Improving Birth Outcome and Child Development. He is also the Standing Committeeman of Chinese Association of Pediatric Dentistry. His research focus are on 1) the comprehensive prevention and treatment for the early childhood caries, 2) the molecular epidemiological study for dental caries, 3) the molecular biological study for the dental developmental abnormality of the teeth (esp. for hypodontia and CCD ), 4) multi-division cooperation research on the oral disease in children. He was invited as a chairperson in IAPD meeting in 20th (Sydney, 2005), 21st (Hong Kong, 2007), 22nd (Munich, 2009), and 23rd (Athens, 2011), respectively; and an invited speaker in Harvard Dental School, Harvard University in 2011. He received more than 10 national grants in China and published more than 50 papers in reputable journals, such as JDR and Mutagenesis. He serves as a National Stomatological Expert for Ministry of Health, PRC, and participate in design and guideline-build for the national dental prevention programs.
Yanheng Zhou
Peking University School of Stomatology
China

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Uri Zilberman
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Dr. Uri Zilberman received his DMD degree in 1983 from the Dental School, Hebrew University, Jerusalem and his PhD in basic science (dental anthropology) in 2000. He has a specialization in Pediatric Dentistry, and serves as the head of the Pediatric Dentistry unit at Barzilai Medical Center, Ashkelon, unit that received accreditation for specialization in 2008. It is the only hospital based pediatric dentistry specialization in Israel, and one of only three specialization programs in pediatric dentistry in Israel. Uri Zilberman has an academic degree of Senior Lecturer at the School of Medical Science, Ben-Gurion University, Beer-Sheva, Israel, and is the responsible for a Dentistry course for fourth year pharmaceutics students. He is on the board of a dental journal and referee for several journals. He published more than 25 papers and several chapters in books, and is a co-editor of a book with papers on dental anthropology, published in honor of Prof. Smith Patricia, his mentor. Dr. Zilberman main research interest is the influence of hereditary syndromes on tooth development and the differences between early hominids and modern populations in tooth components. Dr. Zilberman is the inventor of a new generation of tooth colored crowns for primary molars.
Authors Index

A
ABOU-AMEIRA, G., P14-435
Ahn, H.N., P01-12
Ahn, M.K., P17-547
Ahn, U.J., P01-49
Aikins, E., P13-386
Aizawa, T., P01-12-435
Ajayi, M., O15-104
Al Mulla, H., P09-242
Al Rakaf, H., P12-348
Alaa, E., P13-398
Al-Abdi, S., P16-497
Alamoudi, N., P19-581
Alanen, P., P19-599
Al-Chihabi, M., O19-136
Algali, G., O17-116
Alhowaish, L., O19-137
Al-Ibrahim, N., P16-497
Alloussi, M.E., P04-130
Alm, A., O12-81
Almabadi, E., P19-581
Al-Mulla, H., O05-30
Al-Mulla, H.I., O05-29
Almushayt, A., P19-581
Al-Mutairi, M., P17-534
Alqahtani, S., O10-63
Alsarheed, M., P05-145
Alsilmi, M., P04-136
Altug, H., P14-404
Alvarez, M.E., P14-404, P15-451
Aldun, A.C., P01-6
Aldun, C., P09-238, P15-451, P17-537
Almindal, H., P18-556
Alvelais, A., P02-60
Alvelais, J., P02-60
Alaiz, M., P13-396
Alzahrani, M.I.R., P12-327
Amano, H., P13-388
Amaryan, G., P16-514
Améria, G.A., P14-419, P14-425
Americano, G., P15-458
An, S.Y., P01-48, P05-144, P05-173,
P07-207, P12-314, P12-315, P13-376,
P13-390, P13-395, P14-429, P14-433
Anand, P., P05-139, P15-441
Anand, P.S., P05-137
Ander, P., P04-22, P04-23, P01-21
Andersson, K., P04-126
Andreas, P., P03-107
Andrini, J., P14-421
Anthonappa, R., 005-29, 005-30, 005-32,
O20-145
Anthonappa, R.P., O16-107
Antonen, V., P03-112, P06-182, P15-477,
P19-575
Aps, J., O06-40, P12-322
Ara, K., P11-301
Arai, Y., P02-68, P07-204
Araiki, K., P01-30
Arano-Kojima, T., P15-420, P12-367
Arden, A.C., P10-270
Arend, O., P15-447
Arita, S.I., P11-299
Arjenovskaya, E., O07-196
Aroha, M., P14-413
Ardin, A.C., P10-270
Atsumi, N., P13-392
Atukeren, J., P13-402
Au, A., P03-109
Awan, H., P19-594
Ayano, R., P14-438
Aydin, Y., P13-402
Ayepe, Z., P15-447
Azvedo, L.H., P06-185
Azizi, L., P16-525
B
Bönecker, M., P07-206
Baba, A., P13-392, P15-456
Babiker, O., P16-497
Baba, G., P11-300
Baek, K.W., O04-25
Bahgat, S., O06-34
Bai, Y., O06-39, P06-190
Baik, B., O09-55, P02-57, P02-73
Baik, B.J., O14-93, P02-55, P02-71, P02-75,
P04-121, P04-127, P05-140, P06-187,
P08-217, P08-219, P08-221, P15-442,
P15-444, P15-482, P16-494, P16-496,
P16-528
Baik, M.K., P01-4
Bak, S., P03-102
Bak, S.Y., P03-108
Bakshshabeh, A., O04-23
Bakir, Y., P01-5
Bang, S.Y., P09-257
Bangar, H., P04-136
Bani, M., P17-527
Banhi, A., O04-27
Bankole, O., P13-383
Bansal, V., P12-329
Banu Ertan, A., P17-548
Bao, Z.F., P18-563
Barrett, E., O19-139
Baselli, L.A., P16-525
Bashiri, R., O13-90
Batineh, M., P09-234
Bawazir, O., P17-534
Bayar, O.R., P15-451
Bazua-Castro, L., P18-552
Bekiroglu, N., P01-9
Belik, L., P19-403
Beri, O.J., P12-312
Bezgin, T., P04-120
Bhardwaj, N., P12-336
Bhuvapanich, V., P13-379
Birkhed, D., O12-81
Bolla, V.L., O08-48
Bönecker, M., O04-21, P07-210, P16-527,
P19-577
Bonfilio, C., O04-21
Bonfilio, C.C., P01-24
Bonini, G., P07-210
Bonthala, R., P05-159
Boonsongsawat, K., P17-538
Boris, S., P16-521
Borum, M.K., O04-22, O04-23, P01-21
Borutta, A.R., P07-196
Boyarkina, E., O12-75
Bozdogan, E., P12-345
Braga, M.M., P19-577
Branco, L., P12-322
Brudardjo, S., O04-21
Brudardjo, S.B., O10-268
Bunyapraphatsara, N., P19-580
Burak Cankaya, A., P15-445
Buramavichukul, T., P03-89
SCIENTIFIC PROGRAM

New Visions for Paediatric Dentistry

24th Congress of the International Association of Paediatric Dentistry

Burgois-Jimenez, L., P10-292
Burykina, M., P01-3
Bustamante-Reynoso, J., P13-403

C
Cabrera, A., P18-562
Cai, C., P07-205
Cai, S., O16-109, P18-565
Camargo, M.A.F., P13-401
Cameron, J.B., P19-606
Can, B., P18-556
Cankaya, B., P15-449
Cantile, T., P10-269
Cardenas, M.L., P06-185
Care, R., P05-164
Carreño, D., O01-3
Carrillo-Hernández, A., P10-292, P18-552
Carrizosa, C., P13-387
Cauwels, R., O06-35, O06-38
Celiberti, P., P19-577
Cetin, G., P12-345
Cha, Y., P06-180
Chau, Y., P06-180
Chaudhry, U., O07-45, P05-139
Chawla, H., P12-336
Chen, A., P19-601
Chen, C.C., P03-93
Chen, H.S., O20-142, P03-93, P11-307, P12-323
Chen, J.W., P02-83
Chen, K., O17-119
Chen, M., P17-545
Chen, S.C., O01-5, O02-1, O14-95
Chen, T., P01-22
Chen, W., P17-549, P18-570
Chen, Y., O14-96, P06-183
Chen, Y.Q., O10-65
Cheruku, S.R., P06-38, P08-48, O18-126
Chhabra, R., P18-568
Chi, N.C., P08-214, P08-216
Chi, S.I., P05-161
Chiang, H.H., O01-5
Chiang, M.L., P16-523
Chiang, T.C., P03-93, P07-199
Chiba, Y., P02-64
Chinadet, W., P17-541
Choi, M.J., O13-88
Choi, A., P09-225
Choi, E.J., P03-100
Choi, H., P03-98
Choi, H.I., O01-5
Choi, I.Y., P04-131
Choi, J.E., P12-314, P13-315, P13-376, P14-433
Choi, N.K., O01-5
Choi, S.M., O01-5, O02-11, O14-95
Choi, S.Y., O14-96
Choi, Y.C., O14-96
Chung, S., O19-139
Chung, Y.J., P09-247
Chung, Y.S., P14-437
Clamponi, A.L., P06-185
Cifter, M., P04-122
Cleland, L., O19-138
Collier, S., P14-419, P14-425
Cordeschi, T., P19-577
Correa, F.N., P16-527
Correa, J.P., P16-527
Correa, M.S., P16-527
Cortez, P., P12-358, P12-369
Costa, L., P05-168
Costa, L.R., P05-167
Costa, M., P05-167
Crawford, P., O18-129
Cui, Y., P01-28
Cynthia Kar Yung, Y., P12-317

D
Da Silva Pereira, C., P14-421
Dahaba, M., O06-34
Daher, A., P05-167
Dahilof, G., O01-2, O14-92, P04-126
Dak-Albab, R., P03-116
Damodaran, A., O17-121
Dannenfeldt, K., P10-271
Day, P., P11-297
De Almeida Brando Guglielmi, C., P01-24
De Araujo, N.S., O07-208
De Araujo, V.C., O07-208
De La Fuente, G., P06-184
Deery, C., O04-27, O12-77
Deguchi, M., P01-13
De Montro, P., P12-341
Demby, N., O09-58, P13-375
Dentestan, P.K., P17-536
Denloye, O., O15-104
Derrick, D., P12-348
Deitlich, C.E., P19-581
Dhalaiwal, H., P11-297
Dietrich, S., O09-58
Dincol, M.E., P01-2
Ding, N., P01-28
Ding, Y., O14-96
Ding, Z.J., O14-91
Dogan, F., P13-378
Dogan, N., P14-403
Doganhan, E.R., O13-85
Dokzy, N.E., P19-600
Doren, S., O01-3
Drews, C., P01-1
Drobovsky, L., O08-226, P08-230, P16-500
Du, H., P02-72
Du, Q., P10-293
Du, R., P03-111, P06-180, P12-360
New Visions for Paediatric Dentistry
Scientific Program

SCIENTIFIC PROGRAM

Duggal, M., O04-27, O06-33, P09-232, P09-234, P11-297
Duggal, M.S., P11-306
Duran, G., P01-11
Durmus, B., P01-9
Dursun, E., O12-80
Dwivedi, S., O19-135, P12-365

E
Egi, K., P07-204, P12-325
Eigbobo, J., P13-386
Ekambaram, M., P01-19
Ekstrand, K., P19-577
Elgawad, F.A., P13-396
Elizarova, V., P07-204, P12-325
Elkhadem, A., O06-34
Emami-Namini, A., P19-597
Emgård, K., O08-51
Emmanouil, D., O03-18
Enomoto, M., P19-595
Erb, J., P12-324, P16-503
Erdem, A.P., P13-378
Ergrnrli Erakbas, S., P13-402
Erkan, M., P15-443
Esan, T., P02-58
Fadhli, A., P19-594
Faraz, S., P13-377
Fang, L., P06-183
Fallahi, S., O09-54
Faridoun, A., O06-33
Fatkina, P., P15-460
Fedotov, K., O12-75, P08-226, P08-230
Felix, G., O01-5
Feng, C.C., P01-1
Feng, H., P18-570
Feng, J., P10-280
Ferrazzano, G.F., P10-269
Ferretti, G.A., P01-1
Finke, C.H., P16-526
Fletcher, F., P14-419, P14-425
Folayan, M.O., O16-106
Franca, C.D., P01-24
Fratkina, P., P15-460
Fujise, T., P19-587
Fujita, H., P15-480
Fujita, K., P10-270, P10-272
Fujita, M., P18-564
Fujii, M., P05-153
Fujiwara, M., P03-103, P03-105, P11-299, P15-469, P19-589
Fukumoto, S., P02-64, P12-321
Fukushima, H., P18-567
Fukushima, T., P18-555
Fukuta, O., P01-8, P03-99, P10-265, P15-469

G
Gönültaş, F., P04-120
Galili, L., P16-525
Gan, C., P17-549
Sanapathi, A.K., O18-126
Gania, B.M., P12-312
Gao, B., P18-570, P19-601
Gao, L., P06-190
Gauba, A., P12-399
Ge, L., P01-22, P01-28
Ge, X., P07-203
Gertsman, A., P10-261, P18-566
Geritsen, W., P16-526
Ghajari, M.F., P06-178
Ghanim, A., O18-131
Gianty, D., P10-277
Giray, F.E., P01-9
Gokce, S., P01-11
Gokkaya, B., P07-195
Gómez, H., P02-60
Gong, Y., P09-252
Gonzalez, C., P03-114
Goodies, H., P13-377
Gopalakrishnan, V., O05-32
Gorbatova, L., P07-198, P08-220, P08-222, P08-224, P18-561
Gorbatova, M., P07-198, P08-220, P08-222, P08-224, P18-561
Gorelov, A., P16-514
Gorkulu, S., P01-11
Gorken, F.N., P13-378
Goto, N., P12-359
Goto, S., P15-469, P15-480
Govindasamy, V., P12-339, P12-353, P12-361
Goyal, A., O11-47, O15-101, O18-125, P12-311, P12-336, P12-351,
New Visions for Paediatric Dentistry

SCIENTIFIC PROGRAM

I

Ibarra-Peralta, S., P10-292

linuma, M., P02-78, P12-355

Ikeda, M., P11-303

Ihim, R., P04-134

Ilya, C., P07-200

Im, S.M., P06-187

Imai, H., P07-204, P12-325

Imamura, M., P12-331

Imane, C., P04-134

Inaba, D., P10-289, P10-291

Inada, E., P02-76, P14-417

Ingenito, A., P10-269


Isaksson, H., O12-81

Ishii, K., P02-78, P15-456

Ishikawa, M., P11-303

Ishitani, N., P02-62

Isikweke, M.C., O16-106

Ismail, A.F., P12-310

Ismail, S., P04-132

Isogawa, N., P11-303

Itaya, S., P15-456

Ito, A., P19-587

Itoh, M., P14-423

Itthagarun, A., O05-32

Iwamoto, A., P13-388, P13-391

Iwamoto, Y., P13-388, P13-391

Iwasaki, T., P02-76, P02-84, P10-263

Iwase, Y., P12-321, P14-417

J

Jälevik, B., O08-31, O18-132

Jagn, K.T., P04-133

Jahanimothaghadam, F., O20-147

Jain, A., P13-399

Jain, K., O18-125

James Spencer, R., P11-297

Janabi, W.A., P09-236

Jang, E.J., P12-314

Jang, H.B., P01-16

Jang, H.G., P01-14

Jang, J.H., P14-416, P15-448


Jayakumar, P., P09-249

J. E. Choi, P12-328

Jeevarathan, J., O17-121

Jennings, R., O16-107, P16-522

Jeon, E.K., P04-133

Jeon, E.M., P14-420

Jeon, H.S., P02-55

Jeon, H.J., P02-71

Jeon, H.S., P15-442

Jeon, M.J., P01-31, P12-363, P17-533, P17-536

Jeon, S.Y., P02-65

Jeong, B.R., P05-146, P17-547

Jeong, H.K., P14-410, P15-482

Jeong, N.J., P03-102

Jeong, T.S., O04-26, O07-44, O11-72, O17-21, P01-7, P01-10, P01-25, P02-51, P05-146, P08-215, P13-381

Jeong, Y.W., P14-407

J. H. Son, P12-328

Ji, E.H., P03-88, P09-239

Ji, S.E., P01-27, P05-148, P10-262

Jia, R., O16-109, P09-258

Jia, W., P11-308, P12-333

Jiale, J., O02-10

Jiang, L., P10-288

Jiao, H., P18-571

Jih, M.K., P14-412

Jim, E., P19-567

Jin, D.L., P03-92, P03-106, P06-179

Jirarattanasopa, V., P13-379, P16-511

Joe, W.S., P15-450

Johnsu, T., P19-599

Johnson, A., P15-441

Johnson, J., P14-419, P14-425

Johnson, K., P11-296

Joo, K.H., P15-446

Jorge, R., P15-458

Ju, H., P04-121

Juhong, L., P10-290

Jun, H.L., P14-408

Jun, S., P01-29, P05-152, P17-539

Jun, W., P17-535

Jung, H., P08-50

Jung, H.H., P02-69, P16-499

Jung, H.I., O12-79

Jung, H.S., P17-536, P18-569

Jung, J.H., P03-110, P14-434, P16-517

Jung, J.S., P09-253

Jung, M.S., P14-418, P16-530

Jung, Y.S., P14-422

Junqueira, J.L.C., P07-208

Juntapa, N., P01-34

Junyapraser, V., P19-580

K

Kabalay, U., P13-402

Kadiri, T., P18-556

Kawchay, P., P01-34

Kaga, M., P02-10

Kakuda, S., P02-10

Kakuno, E., P02-84

Kamasaki, Y., P03-103, P03-105, P19-589

Kandiah, T., P05-137

Kang, C.M., P12-344

Kang, D.G., P10-285

Kang, E.J., O20-143

Kang, I.S., P12-314, P13-376

Kang, J.E., P01-33, P05-165

Kang, M., O17-123

Kang, Y., O10-60

Kanomi, R., P02-84, P12-350

Kantoor, P., P12-329

Kapoor, A., O18-125

Kapoor, H., P10-275

Kapur, A., O11-67, P12-336, P12-351, P14-406

Karabermeli, E., O17-120, P04-120

Karabulut, B., P15-443, P17-540

Karacay, S., P15-443

Karaki, T., P12-372

Kargul, B., P01-9, P07-195, P17-548,
Niiwato, N., P13-388, P13-391
Nilsson, M., O12-81
Nishida, Y., P11-299
Nishiguchi, M., P03-105, P19-589
Nishimura, H., P03-103, P03-105, P19-589
Noar, J., O07-45
Noda, M., P12-340
Noh, H.S., P01-25
Nomoto, C., P15-490
Noong, Y., P05-157
Nooth, A., P12-319
Noshiro, M., P12-359
N. R. Heo, P12-328
Nzomiw, C., O03-16, P12-342

O
Ohiggins, E., P14-435
O’murchu, N., P16-493
O’rourke, P., O04-20
Odebode, A., P12-330
Ogawa, K., P12-362
Ogawa, Y., P19-595
Oghara, T., P01-15, P15-465
Ogunkola, A., P12-330
Ogunkola, B., P03-97
Oh, J.E., P03-86, P05-150, P10-264
Oh, K.S., P04-127
Oh, M.H., O03-17, O07-42, P15-478
Oh, S.H., O12-83, P02-50, P12-374, P19-585
Ohno, J., P18-555
Oka, K., P15-456, P17-542, P17-546
Okabe, H., P02-78
Okamoto, T., P03-99
Okamura, K., P12-350
Okano, T., P01-30
Okawa, R., P06-176
Okubo, K., P18-564
Okuiji, D., P13-375
Okumoto, T., P12-331
Okumura, Y., P15-465
Okuno, A., O09-57
Olaru, A., P15-461
Olatosi, O., O15-102
Olczak-Kowalczyk, D., P16-516, P16-519
Oliveira, L., P07-206, P07-210
Oliveira, L.B., P07-208
Ollila, H., P19-590
Olsen, C., P12-326, P12-364
Omer, A., O18-129
Onar Ozdas, D., P03-85
Ong, C., P05-143
Onishi, M., P12-355
Ono, Y., P15-480
Onyejeka, N., O15-102
Opareye, T., P12-330
Oredugba, F., O03-16, P12-342
Ortega, A.L., P06-185
Osinake, K., P03-97
Osman, A., P12-339
Osuij, O., P16-497
Otani, H., P12-373
Otsuka, M., P05-153
Oyedele, T., P02-58
Oyedele, T.A., P15-463
Ozaip, S., P03-85
Ozbay, G., P17-548, P18-556
Ozel, E., O13-85
Ozel, S., P07-197
Ozer, L., O17-120
Oziegbe, E., O02-58
Ozmen, B., P12-337, P12-358, P12-369

P
Pac, M., P16-519
Paiva, S., P05-168
Paiva, S.M., P09-251
Palamaras, J., O13-88, O13-89
Palany, T.K., O18-133
Pamuk, F., P03-85
Panahi, O., P16-509
Pandey, M., P12-326
Pandit, I.K., P12-329
Panthi, P., P01-38
Papruzenhka, T., P05-169, P16-521
Paredes-Vieyra, J., P18-552
Parekh, S., O10-64, P12-357
Park, C.Y., O10-66, P02-63
Park, H.J., P10-264
Park, H.S., P16-506
Park, H.W., P08-227, P19-573
Park, J.C., P08-227
Park, J.W., O10-59
Park, J.Y., P01-27
Park, K.T., O10-66, P02-61, P02-63, P14-424, P16-498
Park, M.R., O16-112
Park, M.S., P06-191, P06-192
Park, S.H., P04-135
Park, S.Y., O19-140, P01-16
Park, Y.K., P01-33, P10-262
Pastbl, M., P08-220, P08-222, P08-224
Pastblina, I., P08-222, P08-224
Patel, B., P12-357
Patel, S., O07-45
Peariasamy, K., P11-298
Pei, S.L., O17-119
Pei, T., P15-447
Pen, S., P01-9, P18-556
Peng, C., P12-343
Peng, S., P12-366
Peng, S.M., P15-467
Pennacchiotto, G., O01-3
Perceval, A., P02-60
Permatasari, R., P12-356
Peson, P., P03-112, P15-477, P19-590
Peters, B.G., P19-577
Petroshan, K., P01-46
Petrovskiy, L., P09-240
Philabot, M., P17-532
Pendihkinken, K., P19-599
Pietinen, S., P19-599
Ploypradith, C., P16-507
Polat, G., P09-238
Ponpai, N., P13-379
Ponte, T.M., P13-401
Popoola, B., O15-104
Pordeus, I.A., P09-251
Poromahata, T., O05-31
Poulson, S., P05-160
Pournashemi, S.J., P13-394
Prasertsom, P., O09-53
Prates, L.H., O11-69
Prett, M., P05-139
Pronicki, M., P16-516
Pumtangon, P., O10-60
Pungchanachaluk, P., P01-34

Q
Qadri, G., O02-9
Qin, G., P05-172
Qin, M., P11-308, P12-333, P12-343, P12-352
Qi, R., P10-278
Qvist, V., O04-22, O04-23, P01-21

R
Ra, J.Y., P05-144, P12-314, P12-315, P12-328, P13-376, P14-429, P15-485
Rabie, A.B., O20-145
Rabei, S., P13-385
Rachida, A., P04-134
Raggio, D., O04-21
Raggio, D.P., P01-24
Rahimi, B., P02-52
Raf, E.M., P11-306
Rajasekharan, S., O09-56, O13-87
Ramanava, V., P12-370
Ramankulova, L., P12-82
Ramirez, R.J., P13-403
Ramlu, N., O18-131
Ramos, M., P11-296
Ramos, M.G., P07-206
Ramos-Jorge, J., P09-251
Ramos-Jorge, M.L., P09-251
Rana, V., P01-38, P10-275, P18-568
Rao, N.N., P13-389
Rascevska, M., P05-164
Rashed, M., O06-34, P18-558, P19-600
Rattan, V., P12-311
Rattanarangsima, K., O09-53
Raval, P., O16-108
Reddy, E.R., O02-8
Reddy, S., P10-279
Remulla, G., P13-382
Remulla, G.I., P12-312
Reti, A., P09-256
Rezende, K.M., P16-527
Rhoma, O., P09-244
Rim, J.Y., P16-517
Rirattanapong, P., O05-31
Ritesh, B., P13-389
Ritwik, P., O09-54, O19-138
Rizal, M.F., P12-356
Rizga, A., O15-105
Robertson, A., O18-132
Rodd, H., O12-77
Rodionova, A., P07-196, P12-338
Roebeek, E., P16-518, P16-518
Roh, B.D., P12-334
Rojas-Alvarado, R., P13-403
Rokooe, M., O16-110
Rosen, S.L., P19-606
Roxi, R.M., P04-132
Ruan, W.H., O10-65
Ruíz-Mena, A., P18-552
Rukiyanont, P., P16-495
Rustan, Y., P12-335
Ryu, H.J., P02-53
Rzaeva, T., P04-128
S
Saad, N., P13-398
Sadalskiy, Y., P19-586
Saeed, M., O17-115
Saengsirinavin, C., O05-31
Saharudin, S., P04-132
Said, S.N.M., P15-481
Salio, Y., P12-372
Saioth, H., P13-392
Saitoh, I., P12-321, P14-417
Sakai, N., P05-153
Sakuma, A., P19-595
Sakurai, A., P07-204, P12-325
Salama, F., P05-147
Salami, A., O13-99
Saleh, A., O17-115
Salem, K., O12-78, P06-178
Salmias, A., P09-256
San Pedro, P., P03-14
Sandiwinata, V., P03-107
Sandor, G., P03-112
Sándor, G.K., P15-477
Sano, H., O02-10
Sano, Y., P14-430
Santini, A., P16-518, P16-518
Santos, F.P., P07-208
Sargsyan, A., P16-514
Sari, M.E., P12-337, P12-358, P12-369
Saripudin, B., O18-130
Sasabe, T., P01-15
Sasaki, Y., P03-101
Sashidhar, A., P13-389
Saskianti, T., O16-114
Sasmita, I., P10-277
Sato, R., P08-228
Sato, A., P19-595
Satoh, K., P03-105, P19-589
Satygo, E., P02-56, P19-586
Sawa, Y., P17-542, P17-546
Sawada, T., P12-349
Schilke, R., P16-526
Schindler-Hultsch, G., O18-127
Schmidlin, P., P16-503
Schmitz, K., P13-387
Sedojkin, A., P08-226, P08-230
Sefiani, A., P04-130
Sencimen, M., P14-404, P15-451
Şengül, F., P01-6
Sentjabryova, A., P05-169
Senzui, S., P02-68
Seo, H.W., P08-227, P19-573
Seong, M.K., P06-189, P14-436
Sepet, E., P13-378
Serafin, M., P14-413
Setlawan, A., P05-157, P10-277
Seydi, A., O12-80
Seymen, F., O13-86, P04-122
Shafei, H., P19-600
Shah, J., P05-159
Shahawy, O.E., P13-396, P13-398, P18-558
Shahrabi, M., O02-12, O16-110
Shahsavar, F., O12-78
Shaik, H., O02-8
Shakavets, N., P12-370, P12-371, P19-603
Shakhashoro, H., P03-116
Shang, J., O16-109, P18-565
Shanmugam, H.V., P09-259
Shahni, R., O15-101
Sheen, M.H., O20-142
Shehab, D., P13-98
Sheehan, A., O09-53
Shen, Q., P10-280
Sheng, W., O14-91
Sheta, S., P05-145
Shi, Q., P17-545
Shih, W.Y., P18-554
Shim, Y.S., P05-173, P07-207
Shimada, A., P12-340
Shimada, M., P13-384
Shimada, Y., P13-393
Shimanaka, R., P12-372
Shimazu, K., P05-151, P12-347
Shimomura-Kuroki, J., P13-384
Shin, C., P01-39
Shin, D.M., P12-363
Shin, G.Y., P12-315
Shin, I.S., P19-573
Shin, J.H., O15-100, P02-49, P14-247
Shin, S., O09-55, P02-57
Shin, S.W., P01-18, P04-123, P05-142, P11-305
Shin, S.Y., P06-187, P16-528
Shin, T.J.S., P03-104
Shin, Y.S., P12-334
Shinagawa, M., P11-299
Shinno, K., P01-13
Shintani, S., P02-68, P02-80, P07-204, P12-325, P12-349, P12-367, P19-592
Shirai, H., P02-80, P19-592
Shirase, T., P10-263
Shlomina, A., P19-583
Si, Y., P19-576
Siham, C.E., P04-134
Silin, A., P02-56, P19-586
Silva, M., P12-354
Simakov, A., P07-198
Siti Hajar, H., P12-317
Sivasanjini, A., O17-121
Skatova, E., P01-3, P01-46, P15-460, P19-583
Smallridge, J., P15-439
Soenawan, H., P12-335, P12-356
Sofowora, C.A., P15-463
Soh, Y.Y., P04-121
New Visions for Paediatric Dentistry

SCIENTIFIC PROGRAM

Sohn, H.K., P14-414, P16-513
Sombona, P., P02-89
Son, H.K., P17-122, Q02-144, P01-23, P03-88, P03-118, P04-125, P09-235, P09-237, P12-363, P14-407, P14-428, P15-489
Song, H.J., P08-219
Song, J.S., O17-122
Song, L., P15-479, P19-591
Song, R.B., P18-563
Song, S.B., P14-436
Sossimeier, D.M., P07-208
Sote, E.O., P16-106
Soviero, V., P15-458
Spadari, F., P16-525
Splieht, C., O02-9
Sporer, A., P16-503
Sri-Aularawat, W., P16-511
Sridhar, N., P13-389
Srikant, G., P13-389
Sriuskit, V., P19-580
Srivastava, N., P01-38, P10-275, P12-329, P18-568
Stanciu, I.A., P15-461
Stasio, M.D., P10-269
Steffen, R., P12-324, P16-503
Stenhagen, K., P19-593
Strakhova, S., P16-500
Stroianu, A., P10-273
Su, J.M., P06-184
Suardita, K., O14-116
Subramañiam, P., O03-15, O19-135, P11-300, P12-365
Sudha, R., O08-48
Sudinordambojo, B., O01-4
Sugiyama, M., P12-340
Sugiyama, S., P07-204
Sugiyama, T., P14-415
Suharsini, M., P03-107
Sui, X., P10-267, P10-276
Sun, K.T., O01-5, O02-11, O14-95
Sun, X., P19-576
Sun, Z., P18-565
Sutharaphan, T., P17-541
S.Y. AN, P12-328
Svensson, P., P05-160
Syed, A.A., O18-126

T
Tabari, A.K., P06-178
Tachiki, C., P02-68
Taebunpakul, P., P16-495
Taebunpakul, S., P16-495
Tagliabue, A., P16-525
Tago, J., P13-382
Tagt, M., P13-389
Taguchi, T., P12-373
Tahmassabii, J., P12-316
Taiwo, J., P13-383
Takahashi, M., P03-101
Takahashi, S., P15-465
Takano, H., P13-384
Takarini, V., P01-17
Takashima, Y., P10-270, P10-272
Takata, T., P13-391
Takemoto, Y., P02-76
Tallab, H., P12-319
Tamara, C., P07-200
Tamura, Y., P12-355, P14-423, P14-430
Tanaka, A., P12-320
Tanaka, M., O09-57
Tanday, A., P15-441
Tandon, S., P11-302
Tang, E., P03-109
Tang, R.S., P03-93, P08-218, P16-531
Taniguchi, R., P18-567
Tapia, M., P09-258
Tataounoff, J., P09-251
Tateishi, S., P01-13
Tay, D., P14-413
Tedjosasongo, U., O08-49
Tello, G., P07-210
Teng, N., P03-91
Teng, N.C., P13-380
Teo, T., O07-45, P12-368
Tettamanti, L., P16-525
Tewari, A., P13-397
Tewari, N., P11-302
Thakuria, B., P18-568
Thanakun, S., P16-511
Thanjal, N., O11-71
Tian, W., P13-84
Toda, M., P18-555
Tokay, U., P12-337, P12-358, P12-369
Tokui, K., P19-574
Tokunaga, Y., P01-8
Tokura, T., P10-265
Tolgay, C.G., P15-447
Tomie, M., P03-99, P15-469
Tomiki, S., P19-587
Tomlinson, M., P11-306
Tong, H.J., P05-143, P12-316
Tong, L., P03-109
Topcuoglu, N., O13-86, P12-345
Torres, M., P02-69
Torres-Arellano, M., P10-287, P10-292
Toumba, J., O04-27, O06-33, O19-137
Toumba, K.I., P11-306
Toyoda, Y., P11-309
Treuner, A., O02-9
Tsai, C.C., O12-76, P07-199
Tserakhava, T., P16-521, P19-603
Tseveenjav, B., P19-590
Tsukamoto, R., P11-301, P12-362
Tsuruga, E., P17-542, P17-546
Tu‘ihalamaka, S., P19-587
Tuloglu, N., P12-337
Tuna Ince, B., P04-122
Tuna-Ince, B., O13-86, P07-197
Tuna-Ince, E.B., O13-85, P01-2, P02-52
Tupalli, A.R., O18-126
Tuysuz, B., P04-122
Tveit, A.B., P19-593
Twai, W., P11-306
Twetman, S., P10-271

U
Uchikawa, Y., P10-263
Uehara, T., P15-480
Ukpong, M., O15-102
Uluj, D., P15-449
Uluj, S.D., P15-445
Unghuchus, C., P13-379
Usir, K., P01-17
Utikina, E., P07-198, P18-561
V
Vakentina, Y., P05-149
Valle, M., O01-3, O03-14, P03-114
Van Acker, J., P12-322
Van Amerongen, E., O04-21
Van Waes, H., P12-324, P16-503
Vandenbulcke, J., O09-56
Varma, B., O14-94
Varma, S., O14-94
Vest, M., P05-160
Veeraritthaphan, D., P16-507
Velas, A., P09-256
Vera, A., P06-186
Verbeeck, R., O13-87
Vercruysse, C., O13-87
Vergara, C., O03-14
Vergara, D., O03-14
New Visions for Paediatric Dentistry
Scientific Program

Vichayanrat, T., P03-89
Vieira, R., O11-69
Vijayakumar, T., P12-313
Virtanen, J., P13-385
Virtanen, J.L., P19-590
Volpe, M.G., P10-269
Vongsavan, K., O05-31

W
Walia, T., O13-90
Wang, J., P07-209, P19-598, P19-605
Wang, L., P02-74, P06-166, P19-608
Wang, M., P13-400
Wang, M.C., P18-554
Wang, N.J., O15-98
Wang, Q., P12-318
Wang, W., P19-576
Wang, X., O06-39, P15-479
Wang, X.J., P12-347, P13-384, P19-595
Wassef, N., P13-396
Watanabe, K., P01-15, P15-465
Watarai, M., P14-438
Watson, S., P12-354
Wen, L., O06-39, P06-190
Wendt, L.K., O12-81
Wibisono, W., O01-4
Wibowo, T.B., O08-49
Wickström, A., O01-2
Wigen, T.I., O15-98
Williams, R., P12-364
Wong, F., O11-71
Wongarndee, M., P01-34
Wong, H.M., P12-366, P15-467
Wong, S., P16-522
Wong, S.S.E., O16-107
Woo, J.H., P09-248
Woo, S.E., P19-578
Wood, D., P11-306
Wu, C.H., P08-216
Wu, L., O06-39
Wu, L.Z., P06-181, P07-203
Wu, Y., P17-549

X
Xia, Y., P02-72
Xiao, Y., P12-318
Xiaodong, C., P19-596
Xiaohui, X., P10-290
Xin, W., P19-596
Xiong, H., P18-559
Xu, F., P09-254
Xuan, K., P06-190
Xueying, M., P19-596

Y
Yakob, W., P15-484
Yakoleva, N., P08-228
Yamamoto, S., P12-362
Yaman-Dosdogru, E., P15-447
Yamasaki, Y., P02-62, P02-76, P02-84, P12-321, P14-417
Yamashita, H., P02-68
Yang, D., P01-28
Yang, H.J., P13-390
Yang, Q., P18-565
Yang, R., P09-254, P10-276
Yang, S.D., P14-431
Yang, X., P06-183
Yan, Y., O09-55, P02-55, P02-57, P02-73, P12-343
Yan, Y.M., O14-93, P02-71, P02-75, P02-77, P02-81, P02-82, P04-121, P04-127, P05-140, P06-187, P08-217, P08-219, P08-221, P08-223, P15-442, P15-444, P15-482, P16-494, P16-496, P16-528
Yawaka, Y., P02-10, P11-309
Yawaiy, R., O05-30
Yazdani, R., P13-385
Yazid, P., P12-361
Yeh, Y.C., P08-216
Yen, C.W., P08-214
Yen, T.I., P02-54
Yermukhanova, G., O12-82
Ye, X.C., P19-654
Yeung, C.A., P19-606
Yeung, P., P11-304
Yegenia, F., P05-149
Yildirim, E., P15-443
Yilmaz, A., P01-11, P09-238
Yin, J., P19-596
Yin, Z., P19-596
Yiu, C.K.Y., P12-346, P15-481
Yokonuma, K., P19-574
Yonezu, T., P02-68, P12-367
Yonezu, T., P02-80, P19-592
Yong, C.Y.K., P03-111
Yoon, H.J., P03-94
You, E.K., P18-553
You, S.H., P03-98
Youn, X.H., P01-40
Yu, D., P10-278
Yu, M., P01-45, P10-288
Yu, N.Y., P16-510
Yu, Q., O09-54
Yu, S.G., P05-138
Yuan, C., P19-576
Yuan, L., O06-39
Yuki, M., P10-274
Yukiko, T., P10-274
Yukinari, T., P12-373
Yumashev, D., P10-261
Yun, H.J., P01-41
Yun, K.H., P16-515
Yung, C.Y.K., P03-111
Yurchenko, N., P16-514

Z
Zaitoun, H., O19-136, P04-119
Zamudio-Gómez, M., P03-117, P13-403, P10-287, P10-292
Zaoui, F., P01-5
Zeng, X.L., P07-201
Zerener, T., P14-404, P15-451
Zhang, D.D., P18-563
Zhang, P., P12-352
Zhang, S., P01-22
Zhang, Y., P06-181, P15-479, P19-591, P19-605
Zhang, Z., P01-28
Zho, H.Y., P18-555
Zhao, W., P10-278
Zhao, Y., O16-113, P01-36
Zheng, S., P09-258, P19-576
Zhengbing, C., P09-250
Zhou, W., P18-570
Zhou, Y., P18-565
Zhou, Z.F., P07-203
Zhu, H.Y., P18-565
Zhang, J.W., P03-108
Zhou, Y., O16-113, P01-29, P01-33, P03-86, P04-123, P05-142, P05-150, P05-152, P11-305, P17-539
Zia, Y., P02-72
Zia, X., P12-318
Ziaodong, C., P19-596
Ziaohui, X., P10-290
Ziaoying, M., P19-596
Ziaoyong, C., P19-596
Ziaoyun, Y., P09-254, P10-267, P10-293
Zuniga, P., P12-323
What is a Q-ray?

- A Q-ray is a blue colored visible light (visible rays), which is harmless to the human body.
- QLF-D (Quantitative Light induced Fluorescence-Digital) is an innovative device, which uses the Q-ray to indicate the early stages of incipient caries, plaque, calculus, etc which it is shown as red fluorescent light.
- The QLF-D will quantitatively capture and analyze image. Patients without professional knowledge can check their own personal oral conditions by looking at the images and score. The data can constantly be updated and saved. Ultimately, the doctor and patient can communicate easily.

Clinical cases

Q-ray Analyzer

A special program is used to analyze the stages of plaque and incipient caries by quantitative and qualitative methods.

White spot analysis

Incipient caries that cannot be identified by the naked eye can easily be detected from images and numerical values.
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<table>
<thead>
<tr>
<th>Individual Sponsors</th>
</tr>
</thead>
</table>
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<table>
<thead>
<tr>
<th>Special Sponsor</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image4.png" alt="Hyundai" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Official Air Carrier</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image5.png" alt="Korean Air" /></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Supporting Organization</th>
</tr>
</thead>
</table>
| ![Seoul Metropolitan Government](image6.png)  
| ![Korea Tourism Organization](image7.png)  
| ![KOFST](image8.png)  
| ![Gang Nam Gu](image9.png) |

<table>
<thead>
<tr>
<th>F&amp;B Sponsors</th>
</tr>
</thead>
</table>
| ![Bukseog](image10.png)  
| ![Hwajaeng](image11.png)  
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### Exhibition Plan (Alphabetic Order)

<table>
<thead>
<tr>
<th>Exhibitor</th>
<th>Booth No.</th>
</tr>
</thead>
<tbody>
<tr>
<td>3M ESPE</td>
<td>1</td>
</tr>
<tr>
<td>Bisco</td>
<td>17</td>
</tr>
<tr>
<td>BORYUNG MEDIENCE</td>
<td>20</td>
</tr>
<tr>
<td>Cheng Crowns</td>
<td>40</td>
</tr>
<tr>
<td>Chokwang Dental Co., Ltd.</td>
<td>38</td>
</tr>
<tr>
<td>DENTALL</td>
<td>35</td>
</tr>
<tr>
<td>Dentos, Inc</td>
<td>14</td>
</tr>
<tr>
<td>DENTSPLY KOREA</td>
<td>25</td>
</tr>
<tr>
<td>DMG Dental Material GmbH</td>
<td>9</td>
</tr>
<tr>
<td>E-solution</td>
<td>55</td>
</tr>
<tr>
<td>EDEN Co.</td>
<td>39</td>
</tr>
<tr>
<td>GARAM Orthodontics Dental Laboratory</td>
<td>15</td>
</tr>
<tr>
<td>GC Korea co., Ltd.</td>
<td>13</td>
</tr>
<tr>
<td>Global Dental Relief</td>
<td>7</td>
</tr>
<tr>
<td>Global Microscope Korea</td>
<td>32</td>
</tr>
<tr>
<td>HDX Corporation</td>
<td>46</td>
</tr>
<tr>
<td>Hyundai Motor Company</td>
<td>26</td>
</tr>
<tr>
<td>IAPD-International Association of Paediatric Dentistry</td>
<td>4</td>
</tr>
<tr>
<td>IAPD 2015</td>
<td>5</td>
</tr>
<tr>
<td>Inspektor Asia</td>
<td>16</td>
</tr>
<tr>
<td>Ivoclar Vivadent AG</td>
<td>24</td>
</tr>
<tr>
<td>Jin System</td>
<td>54</td>
</tr>
<tr>
<td>KDB Life</td>
<td>10</td>
</tr>
<tr>
<td>KOMET DMI KOREA Co., Ltd.</td>
<td>37</td>
</tr>
<tr>
<td>Kwang Myung DAICOM, Inc.</td>
<td>36</td>
</tr>
<tr>
<td>META BIOMED</td>
<td>50</td>
</tr>
<tr>
<td>MIDONG Co., Ltd.</td>
<td>27</td>
</tr>
<tr>
<td>Morpheus Co., Ltd.</td>
<td>52</td>
</tr>
<tr>
<td>NARAE Publishing</td>
<td>33</td>
</tr>
<tr>
<td>NIBEC CO., LTD.</td>
<td>51</td>
</tr>
<tr>
<td>NuSmile Pediatric Crowns</td>
<td>43</td>
</tr>
<tr>
<td>ORTHOLUTION CO., LTD.</td>
<td>48</td>
</tr>
<tr>
<td>Osasco (BioMTA)</td>
<td>18</td>
</tr>
<tr>
<td>OSSYS TEM IMPLANT Co., Ltd.</td>
<td>23</td>
</tr>
<tr>
<td>OSUNG MND CO., LTD.</td>
<td>53</td>
</tr>
<tr>
<td>PDAA</td>
<td>6</td>
</tr>
<tr>
<td>Porter Instrument / Matrx by Parker</td>
<td>19</td>
</tr>
<tr>
<td>Ray Co., Ltd</td>
<td>41</td>
</tr>
<tr>
<td>ROI VISUAL CO., LTD</td>
<td>47</td>
</tr>
<tr>
<td>Seoul Children’s Dental Center</td>
<td>45</td>
</tr>
<tr>
<td>Seoul Kidsapana Dental Clinic</td>
<td>31</td>
</tr>
<tr>
<td>Shinhung Co., Ltd.</td>
<td>2</td>
</tr>
<tr>
<td>SHOFU INC.</td>
<td>3</td>
</tr>
<tr>
<td>SK Telecom</td>
<td>42</td>
</tr>
<tr>
<td>The Korean Academy of Pediatric Dentistry (KAPD)</td>
<td>8</td>
</tr>
<tr>
<td>THEZONWORLD CO., LTD</td>
<td>28</td>
</tr>
<tr>
<td>VATECH Networks</td>
<td>49</td>
</tr>
<tr>
<td>VERICOM</td>
<td>34</td>
</tr>
<tr>
<td>Xenosys</td>
<td>21</td>
</tr>
<tr>
<td>Yours Dental Co., Ltd.</td>
<td>22</td>
</tr>
</tbody>
</table>
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<table>
<thead>
<tr>
<th>Sponsor</th>
<th>Address</th>
<th>Telephone</th>
<th>Website</th>
<th>Email</th>
</tr>
</thead>
<tbody>
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<td><a href="http://www.3m.co.kr">http://www.3m.co.kr</a></td>
<td><a href="mailto:jinahn@mmm.com">jinahn@mmm.com</a></td>
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<td>+82 2 2026 2121</td>
<td><a href="http://www.biscoasia.com">http://www.biscoasia.com</a></td>
<td><a href="mailto:bisco@biscoasia.com">bisco@biscoasia.com</a></td>
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<tr>
<td>Cheng Crowns</td>
<td>P.O. BOX 5001, Exton, PA 19341</td>
<td>+01 610 296 5525</td>
<td><a href="http://www.chengcrowns.com">http://www.chengcrowns.com</a></td>
<td><a href="mailto:info@chengcrowns.com">info@chengcrowns.com</a></td>
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</table>

3M ESPE has been named the most innovative company in the worldwide dental industry for the eighth consecutive year, based on new product approvals and international patents. (Source: Anaheim Group, 2012 Dental Industry Review) 3M ESPE provides dental products including bonding agents, cements, curing lights, restorative materials, infection control, impression system, preventive and lab and digital products. Not only we offer the innovative products to dentistry, but we have a worldwide reputation for bringing exciting new ideas and ingenious solutions to in-clinic, making a difference in dental practice as well as improving the care of patients. Our commitment to the dental industry extends from product innovation and quality control, to education and collaboration.

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Homepage http://dentos.co.kr
E-mail yjchae@dentos.co.kr

Dentos Inc. produces and sells Orthodontic devices including Microimplant, was established in 2001 after the years of KNU Dental college prof. Park Hyo-sang, prof. Bae Seong-min, prof. Kyung Hee-moon’s research & development.
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DENTSPLY is now the largest manufacturer of dental prosthetics and consumable dental products in the world, with over 60% of sales outside of US and factories in Europe, South America and Asia, and sales distribution facilities scattered across more than 120 countries around the world, as well as with manufacturing complexes and distribution centers strategically located in more than 40 countries on six continents. DENTSPLY is uniquely positioned to serve dentistry in a global sale.

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GC Corporation, placed in Tokyo, Japan is founded in 1921 as a leading company in the field of dental materials and equipments. Currently, we have manufacturing plants in Japan, China, the United States and Europe, and sell our products in 121 countries around the world.

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Global Dental Relief, a 501(C)3 charitable organization that provides free dental care to impoverished children and families of Nepal, Vietnam, Guatemala, Kenya, Cambodia and India. This is accomplished through treatment and preventive care in dental clinics that serve schools, orphanages, monasteries and remote villages. Care is provided by dental volunteers that are recruited from the United States and other countries. In the last eleven years of operation from 2001-2012, volunteers saw 72,000 patients—90 percent of whom are children—at clinics and schools in Nepal, Vietnam, Guatemala, Kenya, Cambodia and India. The value of dental care provided exceeds 14 million dollars.

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Global Dental Relief

Global Dental Relief, a 501(C)3 charitable organization that provides free dental care to impoverished children and families of Nepal, Vietnam, Guatemala, Kenya, Cambodia and India. This is accomplished through treatment and preventive care in dental clinics that serve schools, orphanages, monasteries and remote villages. Care is provided by dental volunteers that are recruited from the United States and other countries. In the last eleven years of operation from 2001-2012, volunteers saw 72,000 patients—90 percent of whom are children—at clinics and schools in Nepal, Vietnam, Guatemala, Kenya, Cambodia and India. The value of dental care provided exceeds 14 million dollars.

Hyundai Motor Company

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The International Association of Paediatric Dentistry (IAPD) was founded in 1969 under the name of “International Association of Paediatric Dentistry for Children”. It started with a national membership of 31 national societies and a supporting membership of 270 paediatric dentists, which has grown to 57 national societies and over 1000 members in 2013. The aims of the Association was to act as an international forum for certified paediatric dentists and general dental practitioners with an interest in treating children. Since that time the members and worldwide influence of the association have expanded so that now, through its national societies it represents over 15,000 dentists.

A Q-ray is a blue colored visible light (visible rays), which is harmless to the human body.

QLF-D (Quantitative Light induced Fluorescence-Digital) is an innovative device, which uses the Q-ray to indicate the early stages of incipient caries, plaque, calculus, etc which it is shown as red fluorescent light. The QLF-D will quantitatively capture and analyze images. Patients without professional knowledge can check their own personal oral conditions by looking at the images and score. The data can constantly be updated and saved. Ultimately, the doctor and patient can communicate easily.

The British Society of Paediatric Dentistry (BSPD) has the great honour of hosting the 25th Congress of the International Association of Paediatric Dentistry in 2015. This marks a significant anniversary in the history of IAPD and we are committed to making the Congress a memorable one. Come and visit our stand to learn more about our plans for 2015. We look forward to seeing you.

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JinSystem operates an online sales promotion homepage for children, “Ring Angel.”
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G&H – Orthodontic Wire etc.
TP – Lip retractor, In-Vu Bracket etc.
Dener – Articulator etc.
SAM – Articulator etc.
Reliance – Bonding, Resin etc.
Speed System – Speed Bracket, Wire etc.
SCHEU – Biostar, Ministar, Thermo forming technique etc.
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**E-mail**
yuqing@nibec.co.kr

NIBEC was established by current and former professors of School of Dentistry, Korea Seoul National University and authorized as INNOBIZ-venture company. NIBEC has own strength in the research and development (R&D) in the field of peptide engineering, biomaterials, tissue engineering, medicine. The products categorized as 1) tissue engineering product for dental bone substitute for implant surgery, collagen based guided tissue regenerative membrane, which have been supplied to clinics; and 2) Oral care product for teeth whitening, teeth desensitizing agent and implant cleaning agent based on polymer coating technology. And 3) Cosmetic product, very innovative product SKIN AROPA at the end of a long study has developed. As R&D leading company, NIBEC has been successful to develop and commercialize novel peptide based tissue engineering product.
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<tr>
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<tr>
<td></td>
<td>77007 USA</td>
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<tr>
<td><strong>Tel</strong></td>
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<td><strong>E-mail</strong></td>
<td><a href="mailto:info@nusmilecrowns.com">info@nusmilecrowns.com</a></td>
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NuSmile Pediatric Crowns is the leading manufacturer worldwide of esthetic full-coverage restorative options for active children. NuSmile Signature (pre-veneered) and NuSmile ZR (Zirconia) Crowns offer complete selections of crowns for the primary dentition, delivering superior esthetics and durability at affordable prices to meet the demands of both clinicians and parents.

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<thead>
<tr>
<th><strong>Ossco (BioMTA)</strong></th>
<th><strong>OSSTEM IMPLANT Co., Ltd.</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Booth No. 18</strong></td>
<td><strong>Booth No. 23</strong></td>
</tr>
<tr>
<td><strong>Address</strong></td>
<td>(143-809) #302, RS building, 333 Gwangjang-dong, Gwangjin-gu, Seoul, Korea</td>
</tr>
<tr>
<td><strong>Tel</strong></td>
<td>+82 2 779 2880</td>
</tr>
<tr>
<td><strong>Homepage</strong></td>
<td><a href="http://www.biofilling.com">http://www.biofilling.com</a></td>
</tr>
<tr>
<td><strong>E-mail</strong></td>
<td><a href="mailto:ymlee720@hanmail.net">ymlee720@hanmail.net</a></td>
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</tbody>
</table>

Ossco company was founded in 1995. Ossco is company which is specialized in dental bio-material, especially MTA(mineral trioxide aggregate) and bioceramic.

Ossco company is now dealing with OrthoMTA for root canal filling MTA and RetroMTA for vital pulp and root repair which was developed by BioMTA Korea. OrthoMTA is the world first orthograde root canal obturation MTA with unique orthograde filling method and instruments. RetroMTA is fast setting bioceramic for root repair and vital pulp therapy. RetroMTA does not be discolored after setting or curing light.

| **Address** | #104 Suntechcity B/D., Sangdaewon-dong, Joongwon-gu,Kyunggi-do, Korea |
| **Tel** | +82 31 777 2244 |
| **Homepage** | http://www.ortholution.com |
| **E-mail** | orlus@ortholution.com |

Founded in 2003, the company is headquartered in Seoul and has a branch office in Seongnam city.

Based on data from scientific researches and profound clinical experiences we developed the next generation of mini screw type orthodontic implant-Orlus mini-implant system- to solve many previous problems. And we manufactured it since 2003.

This ORLUS screw structure increased dramatically the success rate by greatly enhancing cortical bone support and by minimizing technique-dependence and it can be easily through drilling free structure and be also used easily in diverse locations.

Orlus mini-implant system operates under guidelines of the FDA and ISO 13485 quality systems and is authorized to use the CE mark and also has applied a lot of patents and a new design for practical use.

| **Address** | 8thFL. World Meeirdian ll,426-5, Gasan-dong,Geumcheon-gu,Seoul, 153-759,Korea |
| **Tel** | +82 2 2016 7000 |
| **Homepage** | http://www.osstem.com |
| **E-mail** | master@osstem.com |

As a result of consistent striving for clinical advancements and for its contribution to the popularization of dental implants, OSSTEM IMPLANT has received much appreciation and passion from customers all over the world. Currently, OSSTEM IMPLANT products are widely used in over 49 countries through its 19 overseas subsidiaries and 30 foreign distributors. OSSTEM IMPLANT has become the NO.1 dental implant company in the Asia Pacific market and NO.6 in the world in global sales.
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SUPPORTERS AND EXHIBITORS

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Address  #3003, HaKun-ri, Yangchon-Myeon,
         Gimpo-city, Gyeonggi-do, korea Medical
         Centre, Singapore 248649
Tel     +82 31 987 5395
Homepage  http://www.osung.co.kr
E-mail   Osungsales@osung.co.kr

We, OSUNG MND CO., LTD. is the sole dental hand
instrument manufacturer in Korea and providing the
best on over 30 years of Knowhow.

Our company was established in 1976, and we’ve
been acting as an instrument manufacturer in dental
field since then.

Though the company is yet small-volumed, but we’ve
been growing remarkably in recent days. We’ve are
exporting to around 30 countries now, and enjoying
good reputation from them.

We aim the highest in quality and in service.

Porter Instrument / Matrix by Parker  Booth No. 19
Address  245 Township Line Road, Hatfield,
         PA 19440 USA
Tel     +1 215 723 4000
Homepage  http:// porterinstrument.com
E-mail   dental@parker.com

- Porter MXR Nitrous Oxide/Oxygen Flowmeter Systems
- Matrix by Parker Nitrous Oxide/Oxygen Delivery Systems
- Emergency Oxygen delivery systems
- For the delivery of Nitrous Oxide/Oxygen Analgesia.
- N2O/O2 breathing circuits (autoclavable and disposable)

PDA

Address  c/o Society fo Paediatric Dentistry
         Singapore, 1 Orchard Boulevard #13-06,
         Camden Medical Centre, Singapore
         248649
Tel     +65 6220 2588
Homepage  http://www.pdaa2014.com
E-mail   pedosoc@live.com

The 9th Biennial Conference of the Pediatric Dentistry
Association of Asia (PDA) in 2014 will be held in the
Garden City of Singapore. The meeting will feature
scientific lectures, oral and poster presentation ses-
sessions as well as a trade exhibition which will focus
around the theme “Pediatric Dentistry - Challenges,
Innovations and Future Directions”.
This conference serves to gather dental professionals
comprising specialist pediatric dentists, general den-
tists, oral health therapists and hygienists for a fresh
exchange of knowledge in all pediatric dentistry top-
ics. We have arranged an array of international and
regional experts to speak at this event. There will be
ample opportunity for formal and informal networking
among delegates, including tea break sessions, lunch
and a gala dinner.

Ray.Co.,Ltd  Booth No. 41
Address  218, Maeyeong Rd., Yeongtong-gu,
         Su won-si, Gyeonggi-do, 443-823, Korea
Tel     +82 31 605 1000
Homepage  www raymedical.com
E-mail   ray overseas@raymedical.co.kr

RAY Corporation is Korea’s premier company with
state of art dental imaging device and information
technologies.
In April 2010, we became an affiliate of SAMSUNG
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Our product, RAYSCAN α series (CT, Panoramic,
Cephalometric) is designed to meet your needs and to
respond to complex issues in dental industry.

- Various CT images for Accurate Diagnosis and Dental
  Treatment
- 3 Detectors for Panoramic, Cephalometric and CT to
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- Prolonged life span of the detectors.
- Low-dose for patient (and Children)
- Convenient and Emotional design.
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<th><strong>SPONSORS, SUPPORTERS AND EXHIBITORS</strong></th>
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<tr>
<th><strong>ROI VISUAL CO., LTD</strong></th>
<th><strong>Booth No. 47</strong></th>
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<tbody>
<tr>
<td><strong>Address</strong></td>
<td>135-010, Myeongeun Building, #12-3, Nonhyun-dong, Gangnam-gu, Seoul, Korea</td>
</tr>
<tr>
<td><strong>Tel</strong></td>
<td>+82 70 4640 4688</td>
</tr>
<tr>
<td><strong>Homepage</strong></td>
<td><a href="http://www">http://www</a> aniroi.com</td>
</tr>
<tr>
<td><strong>E-mail</strong></td>
<td><a href="mailto:smlee@aniroi.com">smlee@aniroi.com</a></td>
</tr>
<tr>
<td><strong>Roi Visual</strong> is a leading Korean animation studio that produces both 2D and 3D animation. Since its foundation, Roi Visual has produced a number of high quality animations such as ‘Woobi Boy’, ‘Chiro’, ‘Inner Ranger’ and ‘Robocar Poli’. Inner Ranger is a dental education project for children. Produced in cooperation with K.A.P.D (Korean Academy of Pediatric Dentistry), the Korean Dental Health Association and K.A.C.P.D. (Korean Academy of Clinical Preventive Dentistry), it uses appealing story plots that provides practical advice of how to keep our teeth healthy. Inner Ranger comes as DVD and comic book format with both Korean and English language.</td>
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<tr>
<th><strong>Seoul Children’s Dental Center</strong></th>
<th><strong>Booth No. 45</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Address</strong></td>
<td>70-15, Chungdam-dong, Gangnam-gu, Seoul, Korea</td>
</tr>
<tr>
<td><strong>Tel</strong></td>
<td>+82 70 8275 4738</td>
</tr>
<tr>
<td><strong>Homepage</strong></td>
<td><a href="http://www.childent.com">http://www.childent.com</a></td>
</tr>
<tr>
<td><strong>E-mail</strong></td>
<td><a href="mailto:cdc_childdent@naver.com">cdc_childdent@naver.com</a></td>
</tr>
<tr>
<td>Seoul Children’s Dental Center, Korea’s first private pediatric dental office, was established in 1992. It is not only a place to receive treatment, but a dental home that offers specialized care for your child. Each one of our patients receives individualized treatment with the utmost attention towards both the patient and the parents. Furnished with unique play rooms and further amenities for children to enjoy their time at our hospital, the goal at Seoul Children’s Dental Center is to treat each child as if he/she was a number of our own family.</td>
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<tr>
<th><strong>Seoul Kidspapa Dental Clinic</strong></th>
<th><strong>Booth No. 31</strong></th>
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<tbody>
<tr>
<td><strong>Address</strong></td>
<td>303, Chunsau dosi 1, 161, Geumgok-dong, Bundang-gu, Seongnam-si, Gyeonggi-do, Korea</td>
</tr>
<tr>
<td><strong>Tel</strong></td>
<td>+82 31 782 4189</td>
</tr>
<tr>
<td><strong>Homepage</strong></td>
<td><a href="http://www.kidspapa.com">http://www.kidspapa.com</a></td>
</tr>
<tr>
<td><strong>E-mail</strong></td>
<td><a href="mailto:kizpapa@naver.com">kizpapa@naver.com</a></td>
</tr>
<tr>
<td>It is the enterprise and developed child mouth administration application in the Seoul Kidspapa dental clinic. The name of application is Kipachi Mohumgi. The children decide to have an interest about the tooth health through four games. I get not to master naturally through a play. I try an expectancy.</td>
<td></td>
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<thead>
<tr>
<th><strong>Shinhung Co., Ltd</strong></th>
<th><strong>Booth No. 2</strong></th>
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<tbody>
<tr>
<td><strong>Address</strong></td>
<td>10-3, Jungnim-Dong, Jung-Gu, Seoul, Korea</td>
</tr>
<tr>
<td><strong>Tel</strong></td>
<td>+82 2 6266 2000</td>
</tr>
<tr>
<td><strong>Homepage</strong></td>
<td><a href="http://shinhung.co.kr">http://shinhung.co.kr</a></td>
</tr>
<tr>
<td><strong>E-mail</strong></td>
<td><a href="mailto:lake0831@shinhung.co.kr">lake0831@shinhung.co.kr</a></td>
</tr>
<tr>
<td>Shinhung Co., Ltd., who is the leading company in dental, have been dedicated for the development of dental industry, localization of up to dated medical equipment and enhancement of public oral health. As the first company listed stock market in the medical &amp; dental area in Korea and an enterprise having high growth potentiality in the world, Shinhung, has attracted public attention. Shinhung has various line-ups with great quality such as “Taurus G2”, the unit chair which has not only sophisticated design but optimum functions for both of dentists and patients, and “Kids Crown” which has economical and biocompatible.</td>
<td></td>
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Shofu will exhibit direct restoratives like Bonding, Cement and Composite as follows. The following 1,2,3,4,5,6,7,8 and 11 contains S-PRG filler which can release and recharge fluoride and other 6ions.

1. FL-Bond II (6th generation bonding)
2. BeautiBond (7th generation bonding)
3. BeautiSealant (Pit and fissure sealant)
4. PRG Barrier Coat (Tooth coating)
5. Beautifil II (CR)
6. Beautifil Flow (Flowable CR)
7. Beautifil Flow Plus (Flowable CR)
8. Beautifil Injectable (Injectable CR)
9. Glassionomer FX-II(GI Cement for filling)
10. Glassionomer CX (GI Cement for luting)
11. BeautiCem SA (Self adhesive resin cement)

The Korean Academy of Pediatric Dentistry (KAPD) is an membership organization in which more than 1000 pediatric dentists are committed to attainment of primary and specialty oral health care for children and adolescence as well as patients with special needs. Since it was founded in 1958, the KAPD has accomplished outstanding achievements in both quality and quantity.

SK Telecom, the largest mobile company in Korea,(Subscriber 26 million) made a great effort to change the Quality of Education in terms of smart learning for Mobiles. For the purpose of the equality & cost reduction of education.

Most of people have smartphone but, they don’t enough contents, even informal educational contents, like movies, dramas & sports. In these situations smartphone based tools & pedagogies are very important with global contents. So SK Telecom will introduce the most effective Educational tools, based on smartphone, even can be useful in health care accessories, using very small Beam projector(smartbeam), connected to smartphone.

Oral health has been regarded as one of the five lucks in life since the past,because it is blessing to bite well with healthy teeth and gums.

Since we, THEZON was founded with the goal to make customers have better lives with oral health in 2001, we have a fine reputation and competitiveness in South Korea by supplying only top quality dental products with differentiated customer service.

We have been marketing Ultradent products, Aquapick oral-irrigator, Bien-Air products, SALLI, bWHITE and so on and we are doing everything in our power to do quick and perfect customer service.

We are a fast growing company with global competitiveness in quality and technology through intensive R&D, continuous innovation and technical cooperation with partners.

We will return customers’ love and support with better products and better customer service.
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</tr>
</thead>
<tbody>
<tr>
<td>Tel</td>
<td>+82 2 3497 5821</td>
</tr>
<tr>
<td>Homepage</td>
<td><a href="http://www.vatech.co.kr/">http://www.vatech.co.kr/</a></td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:Hani.kim@vatechglobal.com">Hani.kim@vatechglobal.com</a></td>
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</table>

VATECH Networks: Global Healthcare Group of Companies

**VATECH Global**

VATECH Global is the world's leading global distribution and service-oriented company. Worldwide, VATECH Global Co., Ltd has 12 overseas subsidiaries. We are aiming to be the world’s No.1 provider of Dental imaging system such as Panoramic, CBCT, Intra oral sensor and Software. Our slogan is “Dental Pioneer”. It means we constantly pursue challenges of making the impossible to possible and creatively pioneering the spirit of innovation that enables VATECH to be a global dental company.

**VATECH Korea**

The Korean marketing headquarters of VATECH became a separate company as VATECH Korea on 1 September 2009 in order to enhance the capacity of the Korean marketing team, and to better manage clients. As of 2013, we are steadily developing various service items necessary for dentistry in the future including diagnosis equipment, leading the Korean dental market.

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<tr>
<th>Address</th>
<th>861-8, Toegye-Dong, Chuncheon-Si, Gangwon-Do 200-944,Korea</th>
</tr>
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<tbody>
<tr>
<td>Tel</td>
<td>+82 31 441 2881</td>
</tr>
<tr>
<td>Homepage</td>
<td><a href="http://www.vericom.co.kr">http://www.vericom.co.kr</a></td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:vericom@vericom.co.kr">vericom@vericom.co.kr</a></td>
</tr>
</tbody>
</table>

Vericom, established in Mar. 1998, has been targeting “Achieving Supreme Value, Healthy and Beautiful tooth with Vericom” and producing dental materials through continuous research and development. We, Vericom, as a leading manufacture in dental industry, have been continually developing a range of materials to provide customers with valuable experience and recently launched V-varnish which contains 5% sodium fluoride and can be used teeth for the purpose of delivering fluoride and treating hypersensitivity not only for children but also adults.

- ▲ Opimum flow and easy to apply
- ▲ Single does packaging
- ▲ Containing TCP and Xylitol
- ▲ Fast fluoride release

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<tbody>
<tr>
<td>Tel</td>
<td>+82 2 3789 2831~3</td>
</tr>
<tr>
<td>Homepage</td>
<td><a href="http://www.yoursdental.com">http://www.yoursdental.com</a></td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:Yours-dental@hotmail.com">Yours-dental@hotmail.com</a></td>
</tr>
</tbody>
</table>

We, Yours Dental Co., Ltd. are one of the leading importers and distributors of high-quality dental materials and equipments from Europe and the USA. We have very strong sales teams and network covering entire Korean market. We have many successful experiences in introducing new materials and techniques for the benefits of dentists, patients and dealers through various seminars and hands-on courses. Our product lines are,

- VOCO GmbH, Germany (Grando: Universal nano-hybrid restorative material)
- FORESTADENT, Germany (Quicklear Brackets: Ceramic Self-ligating brackets)
- Tekscan Inc., USA (T-Scan II: Digital Occlusion Analysis System)
- Sabre Dental Product Ltd., UK (K4 Anchor System: Root Canal Post)
- StickTech Ltd., Finland (everStick PERIO: Glass-fibre Periodontal splint)

#### Xenosys

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<th>Address</th>
<th>#401, Dooson picadiri Bldg., 33-80 Geumgok-dong, Dong-gu, Incheon 401-060 Republic of Korea.</th>
</tr>
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<tbody>
<tr>
<td>Tel</td>
<td>82 32 875 9811~2</td>
</tr>
<tr>
<td>Homepage</td>
<td><a href="http://www.xenosys.co.kr">http://www.xenosys.co.kr</a></td>
</tr>
<tr>
<td>E-mail</td>
<td><a href="mailto:sales@xenosys.co.kr">sales@xenosys.co.kr</a></td>
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General Information

24th Congress of the International Association of Paediatric Dentistry
Weather
Korea lies in the temperate zone and has four distinct seasons; spring, summer, fall, and winter. Seoul in June is in the early summer, and the average temperature is 23 degrees Celsius (75 in Fahrenheit).

Time Difference
Korea standard time is 9 hours ahead of Greenwich Mean Time (GMT+9).

Electricity
The standard electricity supply is 220-volts AC/60 cycles. Most hotels may provide outlet converters for 110 and 220 volts.

Tax & Tipping
Value-added tax is levied on most goods and services at a standard rate of 10% and is included in the retail price. Tipping is not customary in Korea. In tourist hotels a 10% service charge is added to the bill, and 3-10% at some large restaurants.

Currency
The unit of Korean currency is the Won (£). Coin denominations are in £10, £50, £100, £500. Bank notes are £1,000, £5,000, £10,000 and £50,000. Bank cheques are circulated in denominations of £100,000 and over. Foreign currency and traveler’s cheques can be converted into Korean Won at foreign exchange banks and other authorized money exchangers. The exchange rate is subject to fluctuation, but one U.S. dollar is equivalent to approximately £1,100 as of May 2013. Credit cards such as Diners Club, Visa, American Express, and Master Card are widely accepted at major hotels, shops, and restaurants.

Transportation
T-money card is a rechargeable card for paying transportation fares in and around Seoul. It can be purchased at any convenience store and ticket vending devices inside subway stations (£2,500 Won). It also gives you a fare discount for transfer.
Lockers

Paid-lockers are located next to escalator near South Gate. Small one is 1,500Won and large one is 2,000Won per 12hours.

Liability and Insurance

Delegates are advised to arrange health and accident insurance is not liable for travelling to Korea. The Congress Organizer is not liable for personal injury or loss/damage to property and belongings of delegates during the Congress or their stay in Seoul.

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

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First Aid is provided on site. In case of emergency, please notify the Congress Secretariat. Korean Tourism Organization can help with all your needs for traveling in Korea, no matter where you are. Simply dial 1330 from either your cell phone or public telephone to have your travel inquiries answered. 1330 is a travel information phone service provided exclusively for foreign tourists traveling in Korea. A friendly multilingual operator (English, Japanese, and Chinese) is available to assist with any inquiries 24 hours a day. 1330 is also linked to the Emergency Phone 119, and provides foreign tourists with an emergency language translation service.

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