Cochrane Review on Fluoride Varnishes Shows Significant Caries Prevention in Children and Adolescents 2013

Results

- Primary dentition
  - 37% less new caries

- Permanent dentition
  - 43% less new caries

Clinical study essentials:
- 22 studies included
- 17/22 studies included in this Cochrane Review use Colgate Duraphat® varnish
- Randomised, parallel group designed and blinded outcome assessed studies selected
- 12,455 participants at the age of 1 – 15 years
- Studies with 1 – 5 years of duration included
- Published in the Cochrane Database of Systematic Reviews*

*About Cochrane Review: Cochrane Collaboration is a global organisation promoting evidence-informed health decision-making by producing independent, relevant and standardised systematic reviews. This review is developed in accordance with standardised methodological guidance for the preparation and maintenance of Cochrane Intervention reviews.

Implications for practice
This review demonstrates that, fluoride varnish application from 2 – 4 times a year for all children and adolescents is beneficial and is highly recommended.
Welcome from the President

Dear colleagues,

The International Association of Paediatric Dentistry welcomes you to its XIII meeting. First of all, I would like to thank the organizing committee led by Professor Richard Welbury. Organizing a meeting is not an easy task, and I have witnessed the tremendous efforts of our colleagues from Scotland in arranging this important event. What we will experience is the result of years of hard and efficient work.

The global community of paediatric dentistry is growing and interest in paediatric dentistry is also increasing around the world. This is excellent news. As we continue to have more colleagues interested in our specialty and improve our knowledge on how to prevent and manage the most prevalent oral diseases in children, we will be contributing to the health and happiness of children around the world. Meetings such as the one we will attend in Glasgow are true examples of the way forward. It is clear that the large number and variety of delegates and the wonderful scientific and social programme offered by our Scottish colleagues is going in exactly the direction IAPD hopes to follow.

Let’s enjoy the meeting, let’s learn what professors from all over the world have to teach us, let’s make new friends with colleagues. Let’s make our specialty continue to be the most important, rewarding and fantastic dental specialty in the world!

Jorge Luis Castillo
President of IAPD

Welcome from the Conference Chairman

It is an honour on behalf of the Local Organising Committee of the British Society of Paediatric Dentistry (BSPD) to welcome you to Glasgow for the 25th Congress of the International Association of Paediatric Dentistry (IAPD). It was seven years ago that BSPD first asked me whether I could put a team together to make a bid at IAPD Munich for the 2015 Congress. We did not hesitate in accepting the challenge because the opportunity to showcase our city to the rest of the world was irresistible.

Lots of friends and colleagues have worked very hard over the last six years to enable this congress to take place. I thank them unreservedly for all their time and effort on your behalf. We have been bonded together by a common purpose; to make sure that your visit to Glasgow is a memorable one with so many happy memories that you will want to return. Glasgow is renowned for its hospitality and there is a local saying that ‘People make Glasgow’. You will find local people interested to know why you are in Glasgow and wanting to know if they can help you with anything.

Finally I would like to specifically acknowledge the huge amount of work by Helen Rodd our Scientific Chairman, Audrey McClymont our Tartan designer and companion of ‘Maisie’ and our Congress Organiser team of Vicki Grant, Sharleen Geddes, and Joanne Paterson. Thank you. It has been a pleasure to work with you.

Six years of planning have now come to fruition. Enjoy!

Richard Welbury
Congress Chairman 25th Congress IAPD, Glasgow
General Information

Venue
The Scottish Exhibition and Conference Centre (SECC), Exhibition Way, Glasgow, G3 8YW
Tel: +44 (0)141 248 3000

Getting to the Venue / Car Parking
The Scottish Exhibition and Conference Centre (SECC) is a 15 minute walk from Glasgow city centre and 11 miles from the city’s International Airport.

From the city centre to the SECC
There is a train station at the SECC with a regular link to the city centre. The service is operated by Strathclyde Passenger Transport from Argyle Street Station, Central Station (lower level) and Anderston Station in the city centre – there are 4 trains per hour throughout the day.

For those travelling by car, the SECC is signposted on the main routes into the city and there are several car parks at the venue. If you have attended exhibitions at the SECC prior to 2014, please note that arrangements for parking at the SECC campus have now changed, with the opening of the brand new multi storey car park. The car park is operated by City Parking Glasgow LLP.

This facility is located at: 10 Stobcross Road, Glasgow, G3 8YW.

A map and directional information is available at http://www.cityparkingglasgow.co.uk/index.aspx?articleid=9996.

On-site pay machines are located at level 2 (walkway level) and ground floor main foyer level of the car park. Payment can be made by cash or credit/debit card.

Tariff Rates in the MSCP Monday to Sunday are:
- 1 hour £3.50
- 2-12 hours £7.00
- 13 hours £10.50
- 14-24 Hours £14.00

Visitors can either pre-pay after arrival or pay before exiting. The parking area is for cars only and has a height restriction of 1.9m.

Official Language
The official language of the Congress is English. No translation services are available.

Currency
The currency in the UK is Pounds Sterling (GBP). ATM machines are located on the concourse of the SECC.

Registration Desk
The registration desk is located within Hall 1 of the SECC and will be open from the following times below.

Any queries relating to the congress can be directed to the staff on the registration desk.

Pre-Congress workshop symposia:
Morning Symposia Registration:
0900 hours, Wednesday 1st July

Afternoon Symposia Registration:
1330 hours, Wednesday 1st July

Congress Registration:
Wednesday 1st July: 1500 – 1800 hours
Thursday 2nd July: 0815 – 1730 hours
Friday 3rd July: 0830 – 1730 hours
Saturday 4th July: 0830 – 1730 hours

Stronger Retention
This independent study of various cleaning regimes shows zirconia free of contaminants from saliva and blood has superior retention to any cement. NuSmile Try-In crowns allow the final crown to remain untouched by saliva and blood until cementation.

Time Savings
NuSmile Try-In crowns equal quicker restorations. Less time doing treatment means a happier patient and clinician, and increased productivity.

Learn more about the science behind NuSmile products at www.nusmilecrowns.com/ZRstudies

Only NuSmile ZR zirconia crown kits include FREE Try-In crowns for the best retention and fewer steps.

Effect of Saliva Contamination on Zirconium Dioxide Ceramic

Stronger Retention

Time Savings

NuSmile Try-In crowns equal quicker restorations. Less time doing treatment means a happier patient and clinician, and increased productivity.
Badges
For security reasons, badges must be worn throughout the meeting. Badges can be collected from the Registration desk. Any delegate without a congress badge will not gain access into sessions. If you lose your badge, please make your way to the registration desk where a new badge can be issued.

Conference
All fully registered delegates will receive the following:
- Admission to all sessions
- Admission to the Exhibition Hall
- Admission to the Welcome Reception – pre-registration required
- Admission to the Exhibition Whisky Tasting – no booking required
- Option to purchase a Dinner ticket - £60.00 per person
- Option to purchase a Farewell Party Ticket - £45.00 per person
- Delegate bag including the programme and other materials
- Name Badge
- Abstract publication
- Refreshments during the coffee breaks (Thursday/Friday/Saturday)
- Lunch (Thursday/Friday/Saturday)

IAPD 2015 Secretariat
For any enquires; the IAPD 2015 Secretariat are located at the Registration desk located in Hall 1 of the SECC.

Exhibition Hall
The exhibition is located in Halls 1 & 2 of the SECC. The opening times of the exhibition hall are:
- Thursday 2nd July: 0900 – 1830 hours
- Friday 3rd July: 0830 – 1730 hours
- Saturday 4th July: 0830 – 1730 hours

Poster Area
Poster will be located in Halls 1 & 2. Access is restricted to the opening times of the exhibition hall.

- Posters scheduled for a morning session must be mounted between 8.30 and 9.00 hours on Thursday 2nd July, Friday 3rd July or Saturday 4th July. The poster must then be taken down at the end of the session (12.50-13.00 hours). You must stand by your poster at your allocated time slot (between 11.30 and 13.00 hours) to give a 3 minute oral presentation, followed by 2 minutes of questions. The session will be facilitated by a Chair.
- Posters scheduled for an afternoon session must be mounted between 13.00 and 14.00 hours on Thursday 2nd July, Friday 3rd July or Saturday 4th July. The poster must then be taken down at the end of the session (17.00-17.30 hours). You must stand by your poster at your allocated time slot (between 16.00 and 17.00 hours) to give a 3 minute oral presentation, followed by 2 minutes of questions. The session will be facilitated by a Chair.
- Posters remaining on the boards after the end of the session will be removed by the conference organisers and will be taken to the registration desk. If they are not collected by 18.00 on Saturday 4th July they will be disposed of.

Speaker Preview Room
The speaker preview room is located in the Etive room. Opening times are:
- Wednesday 1st Jul: 1500 – 1800 hours
- Thursday 2nd July: 0815 – 1730 hours
- Friday 3rd July: 0830 – 1730 hours
- Saturday 4th July: 0830 – 1730 hours

Lunch and Coffee Breaks
Lunch and coffee breaks will be served from the catering outlets located within the exhibition hall.

Lunch & Learn Sessions
If delegates plan to attend any of the lunch and learn sessions, please collect lunch from the exhibition hall and then make your way to the session. Lunch collection is unavailable within the session rooms.

Certificate of Attendance
Delegates will be emailed a copy of their certificate of attendance after the Congress. For security reasons, badges must be worn throughout the meeting. If you require a hard copy certificate to present to your employer on your return, please request a copy from the registration desk. Please note that certificates will not be issued until the morning of Friday 3rd July.

Evaluation Form
Delegates will be emailed a link the evaluation form after the Congress. The email address will be the same as the one you registered with. It is required to complete an evaluation form in order to receive a Continuing Development Certificate (CPD/CME).

CPD Accreditation
The General Dental Council, UK, guidelines advise that CPD will be awarded on the basis of 1 point per 1 hour of education.

Mobile Phones and Devices
Please switch off or mute all electrical devices when you are in sessions.

Business Centre
The SECC Business Centre is located on the Concourse of the SECC and can provide a wide range of services, such as photocopying and faxing facilities. Opening times are 0930 – 1700 hours on open days of the Congress.

ATM
Two cash machines can be located on the Concourse of the SECC.

Lost Property
Lost property will be handed in to the Information Desk located on the Concourse.

Medical Problems
In the event of urgent medical assistance, please contact the Medical Centre located at the East end of the Concourse close to the Information Desk. If medical assistance is required, the nurse / first aider should be contacted immediately at extension 333 or via the control room at extension 290.
Fire Precautions
In the event of an emergency the following message will be announced:
“This is an urgent announcement. An emergency situation has arisen in the Centre. Please leave in an orderly manner by the nearest available exit”.

Public Address System
During the Congress the Public Address System is for the use of the Organisers or venue staff only, unless in the case of an urgent emergency.

Smoking
There is a no smoking policy in place within the SECC and all of the social event venues.

Wifi
Wifi is available to all delegates throughout the SECC.

Prayer Room
A prayer room is available on the concourse of the SECC. Please ask the registration staff for directions.

Nextbikes
The SECC has entered into an innovative new partnership with Nextbikes offering conference delegates free bike hire during their conference. The partnership allows delegates to take any number of journeys of up to 45 minutes throughout the duration of the conference.

IAPD attendees are therefore entitled to use the bikes for multiple journeys of up to 45 minutes with only a £1 credit card validation deposit required (refundable on request). If you would like to extend any journey longer than 45 minutes, we have arranged a discounted fee of £0.50 for every subsequent half hour use (you may also use your £1 deposit to extend your journey times).

The nearest Nextbikes station is conveniently located right outside the Clyde Auditorium, with thirty more located around the city, allowing you to take in the key attractions during your visit to Glasgow. Information about the bike stations throughout the city can be found on the Nextbike website, or by downloading the Nextbike app.

Social Events
Pre-registration was required for some of the social events. If you have purchased a social event ticket, you will find this within your registration pack.

If you have not purchased a ticket but would like to attend any of the tours or social events, please ask about availability at the Finance desk.

Welcome Reception
Date: Wednesday 1st July
Time: 1915 – 2130 hours
Ticket: No ticket required
Venue: Glasgow Science Centre, 50 Pacific Quay, Glasgow, G51 1EA
The Welcome Reception will commence immediately after the Opening Ceremony at the SECC. Delegates will cross the River Clyde to the Glasgow Science Centre located directly across from the SECC. Drinks and a finger buffet will be served. Delegates are encouraged to play with the exhibits.

With grateful thanks to Glasgow City Council for the Civic Hospitality.

Exhibition Whisky Tasting
Date: Thursday 2nd July
Time: 1715 – 1900 hours
Venue: Exhibition Halls 1 & 2
Ticket: Congress badge only
Delegates can sample some of Scotland’s finest whisky in the exhibition hall.

Designed to prevent teeth misalignments.
MAM Perfect: 60% thinner, 4 times softer*

Independent studies show the innovation and effects of the MAM Perfect, developed together with dentists and paediatricians:

Its exceptionally thin teat neck and especially soft material were tested in comparisons. Less pressure on teeth and jaws supports healthy dental development. The experts personally agree.

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

The complete study is available at: mambaby.com/professionals

*Scientific reports from the OFI-Institute verify: the MAM Perfect’s teat neck is 60% thinner; clinical tests by the Dental University Clinic of Vienna confirm: it is also 4 times softer than comparable soothers. (On average: 36 – 76% thinner / 2 – 8 times softer than regular silicone soothers).
General Information

Congress Dinner
Date: Friday 3rd July
Time: 1930 – 0000 hours
Venue: Thistle Hotel, Cambridge Street, Glasgow, G2 3HN
Ticket: Tickets are required for access to the dinner.
Dress Code: National Dress or Smart/Casual
Delegates will arrive to a welcome drinks reception, followed by a sit down dinner and entertainment. Delegates staying in city centre hotels should make their own way to and from the Thistle Hotel. Delegates will be able to phone and book residents a taxi to the venue.

Meeting Point – front entrance of the SECC

Coach transfers from the on-site hotels will be available outside the SECC at 1910 hours and returning at 0015 hours.

Congress Dinner
Date: Friday 3rd July
Time: 1930 – 0000 hours
Venue: Thistle Hotel, Cambridge Street, Glasgow, G2 3HN
Ticket: Tickets are required for access to the dinner.
Dress Code: National Dress or Smart/Casual
Delegates will arrive to a welcome drinks reception, followed by a sit down dinner and entertainment. Delegates staying in city centre hotels should make their own way to and from the Thistle Hotel. Delegates will be able to phone and book residents a taxi to the venue.

Farewell Party
Date: Saturday 4th July
Time: 1930 – 0000 hours
Venue: Riverside Museum and The Tall Ship Glasgow, 150 Pointhouse Place, Glasgow G3 8RS
Ticket: Tickets are required for access
Dress Code: Pirate Theme
The Tall Ship is berthed on the River Clyde and this will be a fun final party consisting of drinks, buffet and fantastic entertainment. Delegates should make their own travel arrangements to and from the Tall Ship.

Morning Jogs
We are hosting an organised 5 kilometre run on the banks of the River Clyde each morning and on Thursday evening. The route will take in the sights of the Glasgow Science Centre, Clyde Arch Bridge and the Finnieston Crane. It’s lovely and flat by the river making this a very accessible run for all abilities, you can even walk if you want to.

There is no need to pre-book, you just need to arrive at the meeting point on time each morning (or on Thursday evening) to join the group.

Meeting Point – front entrance of the SECC

Wednesday 1st July: 0730 hours start (please aim to be there 5 minutes early)
Thursday 2nd July: 0710 hours for a 0715 hours start
Thursday 2nd July: 0625 hours for a 0630 hours start
Friday 3rd July: 0710 hours for a 0715 hours start
Saturday 4th July: 0710 hours for a 0715 hours start

Tours
Delegates and accompanying guests should meet at the East entrance of the SECC for tour departures. Guests are advised to arrive 10 minutes before the scheduled departure time of tours. Please note that the tours will not wait for late arrivals.

If you have pre-booked tours, tickets will be provided in your delegate envelope. Tickets must be presented at the tour bus.

Wednesday 1st July
Glasgow City Tour 1400 – 1700 hours £35.00 per person.

Thursday 2nd July
Braveheart Tour 0900 – 1730 hours £60.00 per person.
Loch Lomond 1330 – 1730 hours £45.00 per person.

Friday 3rd July
Edinburgh City Tour 0900 – 1730 hours £60.00 per person.
Glengoyne Distillery 1330 – 1730 hours £45.00 per person.

Sunday 5th July
Golf at Turnberry: £160 per person
Depart SECC by coach at 0900 hours for a round of golf on the Kintyre Course
Enjoy refreshments on arrival, a round of golf and lunch before returning to Glasgow in the afternoon.

07:30 hours start (please aim to be there 5 minutes early)
07:10 hours for a 07:15 hours start
06:25 hours for a 06:30 hours start
07:10 hours for a 07:15 hours start
07:10 hours for a 07:15 hours start
## Overview Programme

### Wednesday 1st July

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<tr>
<th>Time</th>
<th>Clyde</th>
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<th>Alsh 1</th>
<th>Alsh 2</th>
<th>Boisdale 1</th>
<th>Boisdale 2</th>
<th>Halls 1 &amp; 2</th>
<th>Other locations</th>
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<tbody>
<tr>
<td>0930 - 1230</td>
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<td></td>
<td>Evidence Based Dentistry</td>
<td>Cleft Care: ‘the early years’. How, and what is good paediatric cleft care? What is the impact of getting it ‘right’?</td>
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<td>Hands on practical course Mastering the techniques for successful zirconia restorations in the paediatric patient. Sponsored by NuSmile</td>
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<td>1030 - 1150</td>
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<td>Bright Smiles Bright Future Award</td>
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<td>1230 - 1400</td>
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<td>IAPD promotion lunch and lecture for postgraduate students</td>
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<td>1400 - 1645</td>
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<td>Oral Health Research with children</td>
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<td>Multi-disciplinary treatment planning for traumatised incisors</td>
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<td>NuSmiles Clinical Skills (at Glasgow Dental Hospital)</td>
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<tr>
<td>1730 - 1900</td>
<td>Opening Ceremony</td>
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<td>1915 - 2130</td>
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<td>Hands on practical course Mastering the techniques for successful zirconia restorations in the paediatric patient. Sponsored by NuSmile</td>
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Breaks are anticipated between 1030 - 1100 and 1515 - 1530
Thursday 2nd July

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<th>Clyde</th>
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<tbody>
<tr>
<td>0900 - 1100</td>
<td>Keynote Session: Psychosocial impacts of appearance and oro-facial conditions</td>
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<tr>
<td>1100 - 1130</td>
<td>Parallel Session: Amelogenesis imperfecta: diagnostic and clinical challenges</td>
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<tr>
<td>1130 - 1245/1300</td>
<td>Parallel Session: Safeguarding children</td>
<td>Parallel Sessions: Oral presentations Preventive dentistry</td>
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<tr>
<td>1245 - 1400</td>
<td>Lunch and Learn session: SHOFU sponsored lunch and learn - Professor Satoshi Fukumoto, Japan</td>
<td>Lunch and Learn session: Aesthetic crowns for children - Professor Anne O’Connell, Ireland</td>
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<tr>
<td>1300 - 1350</td>
<td>Keynote Session: Improving dental appearance for young people</td>
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<tr>
<td>1400 - 1530</td>
<td>Parallel Sessions: Clinical and psychosocial considerations for children with dental anomalies</td>
<td>Parallel Sessions: Oral Presentations BSPD Clinical Prize</td>
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<tr>
<td>1530 - 1600</td>
<td>Parallel Session: Children do have rights</td>
<td>Parallel Session: Oral Presentations Epidemiology/dental public health I</td>
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<tr>
<td>1600 - 1700/1715/1730</td>
<td>Parallel Session: Clinical and psychosocial considerations for children with dental anomalies</td>
<td>Parallel Sessions: Oral Presentations Dental anxiety and behavioural management I</td>
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<tr>
<td>1730 - 1830</td>
<td>3M ESPE Sponsored Symposium: Prevent – treat – cover – maintain</td>
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## Friday 3rd July

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<tbody>
<tr>
<td>0900 - 1100</td>
<td>Keynote session: The child in pain</td>
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<tr>
<td>1100 - 1130</td>
<td>Parallel Session: Involving children in oral health research and service evaluation</td>
<td>Colgate Sponsored Symposium: Dentists as leaders - the art of communication</td>
<td>Parallel Sessions: Oral Presentations Restorative dentistry I</td>
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<tr>
<td>1130 - 1300</td>
<td>Lunch and Learn session: ‘The voice of the child’ and where is the voice of the dentist?</td>
<td>Lunch and Learn session: Stem Cells in Dental Tissue Engineering</td>
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<td>1245 - 1400</td>
<td>Keynote session: Ethical and inclusive practice</td>
<td>Invited Symposium: Clinical challenges in private practice</td>
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<td>1310 - 1350</td>
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<td>1500 - 1600</td>
<td>DMG-Dental Sponsored Symposium: The future of aesthetic dentistry with a minimal invasive approach for under 18s</td>
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<th>Boisdale 2</th>
<th>Halls 1 &amp; 2</th>
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<tr>
<td>1100 - 1130</td>
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<td>Break</td>
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<tr>
<td>1130 - 1300</td>
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<td>Poster Prize Session: Jens Andreasen Award, NuSmile Restorative Dentistry Case Report</td>
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<td>1310 - 1350</td>
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<td>Poster Session: Dento-alveolar trauma Orthodontics/craniofacial growth and development</td>
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<td>1350 - 1535</td>
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<td>Lunch</td>
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<td>1530 - 1600</td>
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<td>Break</td>
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<tr>
<td>1600 - 1700</td>
<td>Parallel Session: BSPD Poster Prize</td>
<td>Parallel Session: BSPD DCP Poster Prize</td>
<td>Parallel Session: Restorative dentistry Social science research</td>
<td>Poster Session: Restorative dentistry Social science research</td>
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<td>1700 - 1800</td>
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### Saturday 4th July

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<tr>
<td>0900 - 1100</td>
<td><strong>Keynote session:</strong> The scared child</td>
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<tr>
<td>1100 - 1130</td>
<td><strong>Parallel Session:</strong> Holistic care for the young patient</td>
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<tr>
<td>1130 - 1300</td>
<td><strong>Parallel Session:</strong> International perspectives on paediatric sedation</td>
<td><strong>Parallel Session:</strong> NuSmile Restorative Dentistry Research Award</td>
<td><strong>Parallel Session:</strong> Oral Presentations</td>
<td><strong>Parallel Session:</strong> Oral Presentations Education/service evaluation/audit oral</td>
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<td>1245 - 1400</td>
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<td>1300 - 1400</td>
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<td><strong>1310 - 1330:</strong> Lunch and Learn session Video games and the dental GA</td>
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<td>1400 - 1530</td>
<td><strong>Keynote session:</strong> Care for socially deprived children and children with dentoalveolar injury</td>
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<td>1530 - 1600</td>
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<td>1600 - 1700/1730</td>
<td><strong>Parallel Session:</strong> Ill children: challenges for the paediatric dentist</td>
<td><strong>Parallel Session:</strong> Caries diagnosis and management</td>
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<td>1730</td>
<td>Closing Ceremony</td>
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<tr>
<td>0900 - 1100</td>
<td>from 1000 hours: Parallel Session: BSPD Research Prize</td>
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<td>1100 - 1130</td>
<td>Break</td>
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<td>1130 - 1300</td>
<td><strong>Parallel Session:</strong> Oral Presentations Restorative dentistry oral II</td>
<td><strong>Parallel Session:</strong> Oral Presentations Epidemiology/dental public health oral II</td>
<td><strong>Parallel Session:</strong> Oral Presentations BSPD Clinical Governance Prize</td>
<td>Poster Session Oral Surgery/oral medicine/oral pathology Periodontology/ microbiology Education/service evaluation/audit</td>
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<td>1245 - 1400</td>
<td>Lunch</td>
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<td>1300 - 1400</td>
<td><strong>1310 - 1330:</strong> Lunch and Learn session Video games and the dental GA</td>
<td><strong>1300 - 1400:</strong> Lunch and Learn session MAM Baby sponsored lunch and team. Examining the effect of a special thin-neck pacifier on the primary dentition</td>
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<td>1400 - 1530</td>
<td>Break</td>
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<td>1530 - 1600</td>
<td><strong>Parallel Session:</strong> Oral Presentations Dental anxiety and behavioural management II</td>
<td><strong>Parallel Session:</strong> Oral Presentations Diagnosis/Imaging</td>
<td>Poster Session Basic Science Research Diagnosis/Imaging Restorative II</td>
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Programme

Wednesday 1st July

Pre-congress Symposia

Breaks are anticipated between 1030 - 1100 and 1515 - 1530

0930 - 1230 Evidence-based dentistry  Alsh 1
Professor Jan Clarkson, Dr Anne Marie Glenny
Professor Helen Worthington, UK

0930 - 1230 Cleft Care: “the early years”. How, and what, is good paediatric cleft care? What is the impact of getting it “right”?  Alsh 2
Mr Mark Devlin, Mr Toby Gillgrass, Professor Richard Welbury,
Mr Craig Russell, UK

0930 - 1230 Nu-Smiles Clinical Skills (hands on workshop)  Glasgow Dental Hospital
Mastering the techniques for successful zirconia restorations in the paediatric patient
Sponsored by NuSmile
Professor Anne O’Connell, UK
Dr Mala Desai, Australia
Dr Osama El Shawawy, Egypt

1030 - 1150 Bright Smiles Bright Future Award (open session)  Boisdale
Chairs: Anthony Tzong-Ping Tsai, Taiwan, Lisa Papagiannopoulis, Greece, Anna Maria Vierrou Greece, Milton Houpt, USA

1230 - 1400 IAPD promotion lunch and lecture for postgraduate students (pre-booked only)  Boisdale
(please note that this meeting is only open to postgraduates and that places are limited)

1230 - 1240 Introduction and welcome, Professor Gerald Wright, UK

1240 - 1310 Lunch and Networking

1310 - 1350 How to publish your research, Dr Paul Ashley, UK

1400 - 1645 Oral health research with children  Alsh 1
Dr Zoe Marshman, Dr Fiona Gilchrist, UK

1400 - 1645 Multi-disciplinary treatment planning for traumatised incisors  Alsh 2
Professor Monty Duggal, UK and Dr Peter Day, UK

1400 - 1645 Hands on practical course  Glasgow Dental Hospital
Mastering the techniques for successful zirconia restorations in the paediatric patient.
Sponsored by NuSmile
Professor Anne O’Connell, UK
Dr Mala Desai, Australia
Dr Osama El Shawawy, Egypt

1730 - 1900 Opening Ceremony, Clyde Auditorium SECC

1915 - 2130 Welcome Reception at Glasgow Science Centre

1030 Special Smiles Dental Project
Albert Yeung, UK

1050 My mama cares for me: a proactive dental home initiative
Arun M. Xavier, India

1110 Changing trends of dental caries and gingival health in 6-15 year children of rural India through a school oral health program: 27 years evaluation
Ashima Goyal, India

1130 Infant Oral Care Program and Protocol (IOCP) Based on MAYA & GIFVT Clinical Trials
Francisco Ramos-Gomez, USA
Thursday 2nd July

0900 - 1100  Keynote Session: Psychosocial impacts of appearance and oro-facial conditions  Clyde
0900 - 0915  Welcome and introductions - Professor Richard Welbury and Professor Helen Rodd, UK
0915 - 1000  Psychosocial Adjustment to Oro-facial Anomalies in Children and Young People - Professor Nichola Rumsey, UK
1000 - 1025  Helping children get better: do we make a difference? - Professor Nicky Kilpatrick, Australia
1025 - 1050  Compromised dental aesthetics in young children - Professor Anne O’Connell, Ireland
1050 - 1100  Discussion

1100 - 1130  Break  Halls 1 & 2

1130 - 1245  Parallel Session: Safeguarding children  Lomond
1130 - 1205  Safeguarding children: an international responsibility - Professor Richard Welbury, UK
1205 - 1235  Support and challenge: management of dental neglect and missed appointments - Dr Jenny Harris, UK
1235 - 1245  Discussion

1130 - 1245  Parallel Session: Amelogenesis imperfecta: diagnostic and clinical challenges  Clyde
1130 - 1205  The genetic basis of amelogenesis imperfecta - Professor Agnes Bloch-Zupan, France
1205 - 1235  Clinical and psychosocial impacts of amelogenesis imperfecta - Dr Susan Parekh, UK
1235 - 1245  Discussion

1130 - 1300  Parallel Sessions: Oral presentations
Preventive dentistry
Chairs: Richard Balmer, UK and Eduardo Alcaino, Australia

1130 - 1140  OR01.01 Impact of fluoride in home tap water and total daily fluoride intake on dental fluorosis and dental caries in children in Palestine
L. Abuhaloob, Gaza Strip, Occupied Palestinian Territory

1140 - 1150  OR01.02 Improving the oral health of pre-schoolers
A.M. Meldrum, D. E. Coates, A. E. Hannah & W. A. E. Aitken, New Zealand

1150 - 1200  OR01.03 Effect of different varnish application on treatment of white spot lesions by a quantitative light-induced fluorescence system
S. Kara, M. Akcay, E. Kucukyilmaz, S. Savas & H. Altintop, Turkey

1200 - 1210  OR01.04 State of mineralization markers in oral fluid of children with different risk of caries development
M. Shevchenko, L. Kiselnikova, I. Danilova, I. Alekseeva & D. Lezhnev, Russian Federation

1210 - 1220  OR01.05 Retrospective review of the caries prevention effectiveness of probiotic therapy in a pediatric clinical trial
M. L. Cannon & A. Voracek, USA

1220 - 1230  OR01.06 Effectiveness of the use of caries prevention tools in reducing caries risk in a sub-urban population of children in Nigeria
M. O. Ukpong, K. A. Kolawole, N. M. Chukwumah, T. Oyedele & H. Agabje, Oral Habit Study Group O2, Nigeria

1230 - 1240  OR01.07 Impact of a preventive clinic on general anaesthetic requirements for dental extractions in children with cleft lip/palate

1240 - 1250  OR01.08 Children’s oral health outcomes after 3 years of school-based oral health program in rural Mexico
C. Tung & R. M. Hill, USA

1250 - 1300  OR01.09 A qualitative study of foster carers’ oral health knowledge and experiences caring for the oral health of looked after Children in Tower Hamlets, UK
S. K. Subramaniam, F. Wong, D. Wright & V. Muirhead, UK
<table>
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<tr>
<th>Time</th>
<th>Session</th>
<th>Title</th>
<th>Chairs</th>
<th>Countries</th>
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<tr>
<td>1130 - 1300</td>
<td><strong>Parallel Sessions: Oral presentations</strong></td>
<td>Dental anomalies</td>
<td>Chairs: Barbara Chadwick, UK and Paidraig Fleming, Ireland</td>
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<tr>
<td>1130 - 1140</td>
<td>OR02.01</td>
<td>Prevalence and distribution of hypodontia and associated dental anomalies of mixed dentition in Chinese children</td>
<td>J. Zou, Q. Y. Ling, L. Fang &amp; Q. Zhang, China</td>
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<tr>
<td>1140 - 1150</td>
<td>OR02.02</td>
<td>Agenesis in patients with osteogenesis imperfecta</td>
<td>B. Malmgren, Sweden</td>
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<tr>
<td>1150 - 1200</td>
<td>OR02.03</td>
<td>Late morphological teeth changes in children after chemotherapy</td>
<td>M. Korolenkova, Russian Federation</td>
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<tr>
<td>1200 - 1210</td>
<td>OR02.04</td>
<td>Sequential cleft lip/palate management in China</td>
<td>T. P. Chiang &amp; W. H. Tao, Canada and China</td>
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<tr>
<td>1210 - 1220</td>
<td>OR02.05</td>
<td>Oehlers’ type III dens invaginatus presenting in mandibular central incisors using mineral trioxide aggregate for apical barriers while the pulps are vital</td>
<td>N.H. Ma, Y. Liu, S.S. Dai, L. Zhang &amp; Q. Y. Guo, China</td>
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<tr>
<td>1220 - 1230</td>
<td>OR02.06</td>
<td>Exposure and characterisation of collagen ultrastructure in primary teeth affected with osteogenesis imperfecta and dentinogenesis imperfecta</td>
<td>S. Ibrahim, A. Strange, S. Parekh &amp; L. Bozec, UK</td>
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<td>1230 - 1240</td>
<td>OR02.07</td>
<td>Oral manifestations in rare diseases</td>
<td>M. Callea, I. Yavuz, E. G. Mancini, M. Maglione, G. Clarich &amp; A. B. Gianni, Italy and Turkey</td>
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<tr>
<td>1240 - 1250</td>
<td>OR02.08</td>
<td>A case of medieval molar-incisor-mineralisation</td>
<td>M. E. J. Curzon, A. R. Ogden &amp; T. Pestell, UK</td>
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<td>1250 - 1300</td>
<td>OR02.09</td>
<td>Enamel aplasia and delayed eruption of permanent teeth</td>
<td>S. A. Tukmachi, F. Wong, R. Whatling &amp; F. Fong, UK</td>
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<tr>
<td>1130 - 1300</td>
<td><strong>Parallel Sessions: Oral presentations</strong></td>
<td>Dental anxiety and behavioural management I</td>
<td>Chairs: Marie Therese Hosey, UK and Jaap Veerkamp, The Netherlands</td>
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<tr>
<td>1130 - 1140</td>
<td>OR03-1.01</td>
<td>Analgesia and sedation; posttreatment effects</td>
<td>J. Rienhoff, S. Rienhoff, J. Krikken, I. Aartman &amp; J. S. J. Veerkamp, Germany and The Netherlands</td>
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<tr>
<td>1140 - 1150</td>
<td>OR03-1.02</td>
<td>Effect of a smartphone ‘app’ on toothbrushing behaviour in young children</td>
<td>J. Creeth, R. Lynch, P. Cootes, S. Banks, J. Gordon &amp; S. Spinks, UK</td>
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<td>1150 - 1200</td>
<td>OR03-1.03</td>
<td>Evaluating the amnesic effect of nitrous oxide in a mouse model of memory</td>
<td>D. Emmanouil, E. D. Klein &amp; R. M. Quock, Greece and Pullman, WA, USA</td>
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<tr>
<td>1200 - 1210</td>
<td>OR03-1.04</td>
<td>Parental functioning in childhood dental caries</td>
<td>Z. Abbasoglu, P. Algul, B. Buyukbayraktar, O. Zahmacilu &amp; N. Sandalli, Turkey</td>
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<td>1210 - 1220</td>
<td>OR03-1.05</td>
<td>School-based Intervention Trial Program of Dental Fear on Preschool Children Using Film Modeling in Sekeloa Kindergarten, Bandung, Indonesia</td>
<td>A. S. Setiawan, L. Elsar &amp; H. Agustiani, Indonesia</td>
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<tr>
<td>1220 - 1230</td>
<td>OR03-1.06</td>
<td>Dental anxiety, health-related quality of life, and psychological problems in young people</td>
<td>A. G. Morgan, J. Porritt, S. R. Baker, H. D. Rodd &amp; Z. Marshman, UK</td>
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<td>1230 - 1240</td>
<td>OR03-1.07</td>
<td>Prevalence of dental anxiety during the first transitional period of mixed dentition</td>
<td>V. Colares &amp; K. A. Barreto, Brazil</td>
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<tr>
<td>1240 - 1250</td>
<td>OR03-1.08</td>
<td>What the child ‘SAID’ to the dentist: a pilot RCT</td>
<td>R. Yee, L. Jones &amp; M. T. Hosey, UK and New Zealand</td>
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<td>1250 - 1300</td>
<td>OR03-1.09</td>
<td>Development and evaluation of the Child Experience of Dental Anxiety Measure (CEDAM)</td>
<td>J. M. Porritt, A. Morgan, H. D. Rodd, E. Gupta, F. Gilchrist &amp; Z. Marshall, UK</td>
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<td>1130 - 1250</td>
<td><strong>Poster Session:</strong> Preventive dentistry Dental Anomalies</td>
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<td>1130 - 1300</td>
<td><strong>Mortia Poster Prize session</strong></td>
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<td>1245 - 1400</td>
<td><strong>Lunch and exhibition</strong> Halls 1 &amp; 2</td>
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<td>1250 - 1350</td>
<td><strong>Lunch and Learn session</strong> Lomond Auditorium</td>
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<td>1250 - 1350</td>
<td><strong>Lunch and Learn session</strong> Forth Room</td>
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<td>1400 - 1535</td>
<td><strong>Keynote Session:</strong> Improving dental appearance for young people</td>
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<td>1405 - 1430</td>
<td>Psychosocial aspects of malocclusion: Do we measure it? Are we interested?</td>
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<td>1430 - 1455</td>
<td>‘Mind the Gap’ - Interdisciplinary Clinical Management of Young People</td>
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<td>1455 - 1520</td>
<td>Tooth Whitening for Children and Adolescents</td>
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<td>1520 - 1530</td>
<td><strong>Discussion</strong></td>
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<td>1535 - 1600</td>
<td><strong>Break</strong> Halls 1 &amp; 2</td>
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<td>1600 - 1610</td>
<td><strong>Parallel Session:</strong> Oral Presentations BSPD Clinical Prize Oral Session</td>
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<td>1605 - 1630</td>
<td><strong>Parallel Session:</strong> Clinical and psychosocial considerations for children with dental anomalies</td>
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<td>1630 - 1655</td>
<td>Quality of Life and Children’s Oral Health</td>
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<td>1655 - 1720</td>
<td>Caring for Children with Dentinogenesis Imperfecta</td>
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<td>1720 - 1730</td>
<td><strong>Discussion</strong></td>
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<td>1735 - 1800</td>
<td><strong>Parallel Session:</strong> Children do have rights</td>
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<td>1805 - 1830</td>
<td>Constructions of childhood and children’s rights</td>
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<td>1835 - 1900</td>
<td>Children’s rights: clinical perspective</td>
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<td>1905 - 1915</td>
<td><strong>Discussion</strong></td>
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**Links:**
- [Programme Thursday](#)
Thursday

1600 - 1700  Parallel Sessions: Oral Presentations
Epidemiology/dental public health I
Chairs: Chris Deery, UK and Gerald Wright, Canada

1600 - 1610  OR04-1.01 Caries prevalence in 5- and 10-year old Swedish children with cleft lip and/or palate - a case-control study

1610 - 1620  OR04-1.02 Treatment needs of European Special Olympics young athletes
C. Fernandez, K. Fabjanska, I. Kaschke & L. Marks, Belgium, Poland and Germany

1620 - 1630  OR04-1.03 Clinical outcomes in New Zealand primary oral health care
D. Boyd, L. Foster Page & M. Thomson, New Zealand

1630 - 1640  OR04-1.04 Quantitative evaluation of the main cariogenic microorganisms in S-ECC Children with congenital heart disease
W. Zhao, W. Li & D. Yu, China

1640 - 1650  OR04-1.05 The effect of mother’s education level, oral health knowledge, attitude, practice and the socioeconomic status on the prevalence of early childhood caries
S. M. A. A. Alwaeer, S. Guner & N. Sandalli, Turkey

1650 - 1700  OR04-1.07 Changing trends of dental caries and gingival health in 6-15 year children of rural India through a school health program: 27 years evaluation
A. Goyal & K. Gaudio, India

1600 - 1715  Parallel Sessions: Oral Presentations
Dento-aveolar trauma/orthodontic/craniofacial growth and development
Chairs: Peter Day, UK and Michael Casas, Canada

1600 - 1610  OR05/06.01 Experience of dentists managing orofacial trauma in New Zealand
B. K. Drummond, S. Saetrum, A. Nagels & W. M. Thomson, New Zealand

1610 - 1620  OR05/06.02 Prognosis for traumatic dental injuries in the primary dentition
E. Lauridsen & J. O. Andreasen, Denmark

1620 - 1630  OR05/06.03 Colour change in traumatised anterior permanent teeth
A.H. Alawami, S. Muhammad, S. Westland & P. F. Day, UK

1630 - 1640  OR05/06.04 Assessment of the quality of internet information on dental trauma
R. Jacq, A. Vanderzwalm & S. Vital, France

1640 - 1650  OR05/06.05 Evaluation of the effect of the closed-eruption technique on impacted immature maxillary incisors
S. Zheng, Y. Si, X. Shi, Z. Hu, X. Wang & X. Sun, China

1650 - 1700  OR05/06.06 The impact of Bonded-RME on the nasopharyngeal airway space
M. A. Al-Muzian, A. Ayoub & J. McDonald, UK

1700 - 1710  OR05/06.07 Prevalence of spacing in primary dentition of preschool children in middle Taiwan
C. J. Hung, K.T. Sun, H. H. Chiang, Y. H. Hsueh & Y. C. Chang, China

1600 - 1715  Poster Session: Dental anxiety and behavioural management
Epidemiology/dental public health

1600 - 1715  Poster Session: Prevent – treat – cover – maintain

1730 - 1830  3M ESPE Sponsored Symposium:
Prevent – treat – cover – maintain

Treatment options in modern paediatric dentistry
Professor Nicola Innes, UK

Fluoridation – prevention and maintenance
Professor Jack Toumbia, UK
Friday 3rd July

0900 - 1100  **Keynote session: The child in pain**  
Chairs: Jorge Luis Castillo, Peru and Janice Fearne, UK

0900 - 0915  **Welcome** - Professor Jorge Luis Castillo, IAPD President  
Introduction - Dr Janice Fearne, BSPD President

0915 - 1000  **Understanding and assessing pain in children**  
- Professor Linda Franck, USA

1000 - 1045  **A child-centred model to deal with pain in the dental surgery**  
- Dr Jaap Veerkamp, The Netherlands

1045 - 1100  **Discussion**

1100 - 1130  **Break**  
Halls 1 & 2

1130 - 1300  **Parallel Session: Involving children in oral health research and service evaluation**  
Chairs: Ferranti Wong, UK and Morenike Ukpong, UK

1130 - 1200  **How and why to engage children in oral health research and service evaluation**  
- Dr Zoe Marshman, UK

1200 - 1225  **How Should We Prevent and Manage Dental Caries; What are Children in Clinical Trials Telling us?**  
- Dr Nicola Innes, UK

1225 - 1250  **Child self-reported questionnaires in oral health research and service evaluation: what are they and do we need them?**  
- Dr Lyndie Foster Page, New Zealand

1250 - 1300  **Discussion**

1130 - 1300  **Colgate Sponsored Symposium: Dentists as leaders - the art of communication**  
Chairs: Helen Rodd, UK and Tim Newton, UK

1130 - 1135  **Introduction**

1135 - 1200  **Effective Vision - the key to human centered expert practice**  
Professor Nigel Nicholson, UK

1200 - 1225  **Improving adherence to dentists’ recommendations for children’s oral health**  
Professor Paul Brand, The Netherlands

1225 - 1250  **Promoting oral health equity**  
Professor Richard Watt, UK

1250 - 1300  **Discussion**

1130 - 1300  **Parallel Sessions: Oral Presentations**  
**Restorative dentistry I**  
Chairs: Kevin Donli, USA and Chris Vernazza, UK

1130 - 1140  **OR08-1.01 A split mouth clinical study evaluating stainless steel crowns and primary zirconia crowns in pulp treated primary molars**  
T. Wala, R. Bashiri & F. Alaghband, United Arab Emirates

1140 - 1150  **OR08-1.02 Pro-inflammatory cytokines inhibit osteogenic/dentinogenic differentiation of stem cells from apical papilla**  
K. Chen, H. Xiong, C. Liu & Y. Huang, China

1150 - 1200  **OR08-1.03 Investigation of the Er: YAG laser and diamond bur cavity preparation on the marginal microleakage of class V cavities restored with different flowable composites**  
Y. Kasimoglu, E. B. Tuna, E. Ozel & E. Firatli, Turkey

1200 - 1210  **OR08-1.04 A study on the apatite formation in the glass ionomer cements by 31P MAS-NMR spectroscopy**  
S. T. Khor, N. Karpukhina & R. G. Hill, United Kingdom

1210 - 1220  **OR08-1.05 The outcome and cost effectiveness of differing treatment strategies for deep caries in primary teeth**  
A. Banihani, J. Toubma, C. Deery, T. Munyombwe & M. Duggal, United Kingdom

1220 - 1230  **OR08-1.06 Sealing or restoring manifest occlusal caries in young permanent teeth: 6-8 years results**  
T. R. Andersen, K. D. Møller, M. Borum, U. Larsen, A. Bakshshandeh & V. Qvist, Denmark

1230 - 1240  **OR08-1.07 How deep is too deep? A retrospective study of the relationship between radiographic caries lesion depth and successful outcomes with the Hall Technique**  
W. Al-Yaseen, D. Evans & N. Innes, Iraq and United Kingdom

1240 - 1250  **OR08-1.08 The use of EZ-Pedo crowns within a private practice**  
M. G. Foster, Australia

1250 - 1300  **OR08-1.09 Retrospective evaluation of clinical and radiographic outcomes of immature permanent teeth treated with regenerative endodontic therapy (RET)**  
H. J. Tong, J. J. Ng, W. Lim, S. S. Tham & V. S. H. Yu, Singapore
Programme Friday

1130 - 1300 Parallel Sessions: Oral Presentations
Social sciences
Chairs: Jan Clarkson, UK and Linda Franck, USA

1130 - 1140 OR09.01 Assessment of oral health status and salivary characteristics of children with type 1 diabetes mellitus
P. Subramaniam, K. Kaje, A. Shrama & G. K. L. Babu, India

1140 - 1150 OR09.02 Development of CARIES-QC: a caries-specific measure of oral health-related quality of life for children
F. Gilchrist, H. D. Rodd, C. Deery & Z. Marshman, UK

1150 - 1200 OR09.03 Use of a patient decision aid for children requiring dental sedation: a pilot study

1200 - 1210 OR09.04 Clinical and behavioral correlates of oral impacts on daily performances
M. Lalic, M. Gajic, M. Gajic, K. Perisic, E. Aleksic & S. Lalic, Serbia

1210 - 1220 OR09.05 The assessment of oral health related quality of life for children after full mouth rehabilitation under general anesthesia
A.A. Sharaf, A. Hanno & H. Lotfy, Egypt

1220 - 1230 OR09.06 Oral health of children in relation to oral health behaviour and locus of control of their parents
U. Schiftner & L. Grimm, Germany

1230 - 1240 OR09.07 Differences in perceptions of oral health related quality (OHQoL) between children with traumatic dental injuries and their mothers
S. H. Al Jundi & I. Radaideh, Jordan

1240 - 1250 OR09.08 Office based propofol anaesthesia for paediatric dental treatment: evaluation of level of satisfaction in parents of patients
L. Van Lint, L. A. Van Der Meer & J. B. Krikken, The Netherlands

1250 - 1300 OR09.09 ‘This child is maltreated’ - a study of dental professionals reports to the social services
T. Kvist, M. Cocozza & G. Dahllof, Sweden

1130 - 1300 Poster Prize Session:
Jens Andreassen Award,
NuSmile Restorative Dentistry Case Report Poster

1130 - 1250 Poster Session:
Dento-alveolar trauma
Orthodontics/craniofacial growth and development

1245 - 1400 Lunch and exhibition

1310 - 1350 Lunch and Learn session
‘The voice of the child’ and where is the voice of the dentist? - Dr Marc Saadia, Dr Roberto Valencia, Mexico
Chair: Graeme Wright, UK

1310 - 1350 Lunch and Learn session
Stem Cells in Dental Tissue Engineering - Professor Jaques Nor, USA
Chair: Nicky Kilpatrick, Australia

1400 - 1535 Keynote session: Ethical and inclusive practice
Chairs: Victoria Clark, UK and Joseph Chan, Hong Kong

1405 - 1445 Paediatric Ethics in the Clinical and Research Settings
- Professor Lainie Friedman Ross, USA

1445 - 1525 ‘The hole and the whole’ Decision making in paediatric dental practice
- Professor Ivar Espelid, Norway

1525 - 1535 Discussion

1400 - 1530 Invited Symposium: Clinical challenges in private practice
Chair: Justin Lee, South Korea and Rute Gomes, Portugal

1400 - 1405 Introduction
Dr James Lucas, Australia

1405 - 1420 The challenge of behaviour in young children
Dr Jinous Tahmassebi, UK

1420 - 1435 The challenge of children with salivary dysfunction
Associate Professor James Lucas, Australia

1435 - 1450 The challenge of third party providers
Associate Professor Yasmi Crystal, USA

1450 - 1505 The Challenge of space
Dr Anna Maria Vierrou, Greece

1505 - 1530 International Panel Discussion

1530 - 1600 Break
1600 - 1715 **Parallel Session: Putting children first in prevention**
Chairs: Fiona Gilchrist, UK and Urshla Devalia, UK

**Parallel Session: Fluorosis: an increasing global problem.**
Microstructure and dental management
Chairs: Bernadette Drummond, New Zealand and Paul Ashley, UK
- Dr Roberto Valencia and Dr Marc Saadia, Mexico

1600 - 1610 **OR10.01 Do dental extractions at alveolar bone graft surgery affect outcome? A review of clinical outcomes over a three year period in a regional CLP unit**
L. A. L. Burbridge, P. D. Hodgkinson, & C. R. Mattick, UK

1610 - 1620 **OR10.02 Low level laser therapy in oral mucositis: preliminary results of a RCT**
R. Cauwels, V. Van De Velde, C. Dhoooge, W. Jaccquet & L. Martens, Belgium

1620 - 1630 **OR10.03 Determination of optimal settings for specific low level laser in oral mucositis treatment**
T. Tomazevic, U. Potocnik & J. Jazbec, Slovenia

1630 - 1640 **OR10.04 Importance of comprehensive dental treatment & health education in Down syndrome**
B. Varma & N. Fathima, India

1640 - 1650 **OR10.05 Behcet's disease in children: a case series from a UK multidisciplinary clinic**
S. Albadri & C. E. Pain, UK

1650 - 1700 **OR10.06 Aplasia of the lacrimal and salivary glands (ALSG) in siblings: a case report**
J. May, S. Mckaig & T. Kandiah, UK

1700 - 1710 **OR10.07 Oral manifestations of a serious underlying condition: a case report of two paediatric patients diagnosed with Langerhans cell histiocytosis**
S. Hughes, R. Freeman, B. Chadwick & E. J. Hingston, UK

1600 - 1730 **Parallel Session: Oral Presentations**
Basic science research
Chairs: Helen Liversidge, UK and Haim Sarnat, Israel

1600 - 1610 **OR12.01 Salivary microflora and mode of delivery - a longitudinal study**
K. Boustedt, G. Dahlén, J. Dahlgren, J. Roswall & S. Twetman, Sweden and Denmark

1610 - 1620 **OR12.02 The D3 group - bridging clinics, labs and people**
V. Perez, J. Mangum & M. Hubbard, Australia

1620 - 1630 **OR12.03 Exosome-transferred non-coding RNA mediates osteoclastogenesis in β-thalassemia major**
K. T. Sun, S. C. Chen, Y. N. Huang, C. H. Li & C. Y. Li, Taiwan, Republic of China

1630 - 1640 **OR12.04 Fingernails as biomarker of fluoride exposure in relation to the use of toothpaste with different concentrations of fluoride in young children**
M. Clenesek, S. Burnik Bobic, M. Kosorok, M. Zorec Karlovšek & R. Kosem, Slovenia

1640 - 1650 **OR12.05 Preliminary study on stem cells from human exfoliated deciduous teeth and cell sheet-mediated pulp regeneration**
N. Xie, F. Liu, Y. Y. Zhang & Q. Y. Guo, China

1650 - 1700 **OR12.06 Helicobacter pylori detected in oral specimens and investigation of dental pulp fibroblast cell adhesion and invasion**
Y. Ogaya, R. Nomura & K. Nakano, Japan

1700 - 1710 **OR12.07 Classification of mineral trioxide aggregate and portland cement materials and its implications for pediatric dentistry**
R. Steffen, M. Duggal & H. Van Waes, Switzerland & UK

1710 - 1720 **OR12.08 Semi real-time erosion of human enamel at the nano-scale**
J. Pattern, P. Waterhouse & M. German, UK

1720 - 1730 **OR12.09 Pulp cell regeneration in minipig**
S. Vital, F. Mangione, F. Decup, C. Bardet J. Leslieur & C. Chaussain, France

1600 - 1715 **Poster Session**
Restorative dentistry 1
Social science research

1700 - 1800 **DMG-Dental Sponsored Symposium**
The future of aesthetic dentistry with a minimal invasive approach for under 18’s - Linda Greenwall, UK
Saturday 4th July

0900 - 1100  **Keynote Session: The scared child**
Chairs: Rosemary Bryan, UK and Christina Stecksen Blicks, Sweden

0900 - 0915  **Welcome and Introduction**

0915 - 0950  **The psychologist’s perspective on dental anxiety in young people** - Professor Tim Newton, UK

0950 - 1015  **The paediatric dentist’s role in managing dental anxiety** - Professor Marie Therese Hosey, UK

1015 - 1050  **Psychosocial aspects of paediatric dental GA** - Professor Murray Thomson, New Zealand

1050 - 1100  **Discussion**

1000 - 1100  **Parallel Session: BSPD Research Prize**
Chair: Sondros Albadri, UK

1000 - 1010  **OZ02.01 The oral health behaviours of parents of young children living in deprived areas of the North of England**

1010 - 1020  **OZ02.02 Systematic review of facilitators and barriers to home-based toothbrushing practices by parents of young children**

1020 - 1030  **OZ02.03 A quantitative and qualitative survey of undergraduates’ perspectives of their paediatric dental training**
S. E. K. Grosse & N. P. T. Innes, UK

1030 - 1040  **OZ02.04 Prevention of enamel demineralisation in orthodontic patients using slow release fluoride glass devices**
C. Tatsi, F. Luther, M. Duggal & K. J. Toumba, UK

1040 - 1050  **OZ02.05 The consequences of premature extraction of primary teeth on the subsequent need for orthodontic treatment: a systematic review**
N. Bhujel, M. Duggal, P. Saini & P. F. Day, UK

1050 - 1100  **OZ02.06 Dental trauma research: on children or with children?**

1100 - 1130  **Break**
1130 - 1300  **Parallel Session: Holistic care for the young patient**  
Chairs: Martin Curzon, UK and Anne O’Connell, Ireland

1130 - 1150  **Restorative choices for young children with severe caries**  
- Professor Nikolaos Kotsanos, Greece

1150 - 1210  **Clinical considerations for the paediatric dental GA**  
- Dr Nick Lygidakis, Greece

1210 - 1230  **Premature loss of primary anterior teeth due to trauma: potential short and long term sequelae**  
- Professor Gideon Holan, Israel

1230 - 1245  **Discussion**

1130 - 1245  **Parallel Session: International perspectives on paediatric sedation**  
Chairs: Eduardo Alcaino, Australia and Sondos Albadri, UK  
Session led by Dr Eduardo Alcaino, Australia  
Professor Shun-Te Huang, Taiwan and Dr Alan Milnes, Canada

1130 - 1300  **Parallel Session: Oral Presentations**  
Education/service evaluation/audit  
Chairs: Sanjeev Sood, UK and Goran Dahlof, Sweden

1130 - 1140  OR11.01 Safeguarding children log: a 3 year retrospective audit of data at the Eastman Dental Hospital, UCLH, London  
A. Patrick & A. Johnson, UK

1140 - 1150  OR11.02 The teaching of management of the pulp in primary molars in Europe  
J. Monteiro, A. Ni Chaoiltaí & M. Duggal, UK and Ireland

1150 - 1200  OR11.03 An audit to assess the consent process for looked after children  
F. Thomson, R. Balmer & A. Hollis, UK

1200 - 1210  OR11.04 Blended learning paediatric dentistry MSc: developing a model of delivery  
S. Parekh, P. F. Ashley & M. Jenner, UK

1210 - 1220  OR11.05 A model ‘infant and child oral health promotion’ interprofessional education (IPE) program for professional health sciences  
G. Kulkarni, Canada

1220 - 1230  OR11.06 An audit looking how interventions involving specialist nurses and paediatric dentists have influenced early dental health behaviour in families with a child with a cleft  
J. A. Smalridge, V. Clarke, M. Collard, J. Mooney & S. O’Connell, UK

1230 - 1240  OR11.07 Changes in empathy during dental specialty training in Thessaloniki, Greece  
D. Tsiantou, N. Tzialia, K. Arapostathis & N. Kotsanos, Greece

1240 - 1250  OR11.08 Knowledge of Croatian general dentists to cope with a medical emergency in paediatric patients  
I Ćuković-Bagić, S Hrvatin, J Jeličić, H. Pezo & L. Marks, Croatia and Belgium

1250 - 1300  OR11.09 Sociography and educative communication: a matter of human relationships on therapeutic  
M. Valle, S. Krämer & A. Véliz, Chile
1130 - 1250  Parallel Session: Oral Presentations
Restorative dentistry oral II
Chairs: Claire Stevens and Ashima Goyal, India

1130 - 1140  OR08-2.01 Microleakage of restorations and scanning electron microscopy examination following cavity preparation by Er:YAG, Er,Cr:YSGG lasers and diamond bur on primary molars
K. Arapostathis, V. Kaitsas, G. Olivi, C. Boutsiouki, K. Tolidis & S. Benedicti, Greece and Italy

1140 - 1150  OR08-2.02 Pain experience 6 months after treatment of extensive caries in primary molars using atraumatic or ultraconservative caries treatment
S. M. Poots, V. Soovero, G. Americano, V. C. M. De Sousa & C. C. Bonifácio, Netherlands and Brazil

1150 - 1200  OR08-2.03 Evaluation of physical properties of new generation pulp capping materials
S. I. Birinci, S. Saatcioglu, B. S. Turan, S. Selvi-Kuvvetli, N. Sandalli, Turkey

1200 - 1210  OR08-2.04 A retrospective clinical study of resin modified glassionomer restorations in the primary posterior dentition
J. A. Dean, H. Peterson, A. Al Hosainy & B. J. Sanders, United States

1210 - 1220  OR08-2.05 Effect of photon-initiated photoacoustic streaming, ultrasonic and sonic irrigation techniques on dentinal tubule penetration of irrigation solution: a confocal microscopic study
N. Durmus, M. Akcay, H. Arslan, M. Mese, I. D. Capar, Turkey

1220 -1230  OR08-2.06 Indirect pulp treatment in primary teeth using propolis and calcium hydroxide - an in-vivo comparative study
C. U. Deepika, N. Govindaraj, P. Subramaniam & S. Pillai, India

1230 - 1240  OR08-2.07 Early restorative crown therapy in children, adolescents and young adults with Amelogenesis imperfecta: a prospective double-blind randomized controlled trial
G. Pousette Lundgren, G. I. Morling Vestlund, M. Trulsson & G. Dahllöf, Sweden

1240 - 1250  OR08-2.08 Office based propofol anesthesia for pediatric dental treatment: evaluation of postoperative pain
J. B. Krikken, C. J. De Jong & J. S. J. Veerkamp, Netherlands

1130 - 1300  Parallel Session: Oral Presentations
Epidemiology/dental public health oral II
Chairs: Richard Balmer, UK and Agnes Bloch-Zupan, France

1130 - 1140  OR04-2.01 Dental erosion prevalence and associated risk factors among 15-year old Chilean adolescents
F. Marro, C. Cantero, W. Jacquet,4 & L. Martens, Belgium and Chile

1140 - 1150  OR04-2.02 Characteristics and risk factors of severe early childhood caries in Catalan infants from high-income families
C. Palma, C. Marès, J. Rabassa & K. Rivas, Spain

1150 - 1200  OR04-2.03 The access to dental care for french children, study through the preventive free assessment program
A.C. Bas, P. Bourgnon & S. Azogui-Levy, France

1200 - 1210  OR04-2.04 Association between overweight/obesity and periodontitis in children and adolescents - a systematic review
S. De Smedt, S. Rajasekharan & L. Martens, Belgium

1210 - 1220  OR04-2.05 Dental caries and body mass index of preschool children in Greece
V. Pikramenou, D. Dimitraki & N. Kotsanos, Greece

1220 - 1230  OR04-2.06 The possible etiology of oral manifestations of celiac disease
S. Acar & S. Aydogdu, Turkey

1230 - 1240  OR04-2.07 Oral health of Greek children and adolescents with diabetes mellitus type 1: a preliminary report
A. Babiatzsa, S. Papanakou, S. Gizani, W. Papaioannou, C. Kanaka-Gantenbein & L. Papagiannoulis, Greece

1240 - 1250  OR04-2.08 Are sick kids at SickKids getting sicker? Ten year changes in perioperative resource utilization for children treated for dental ailments at an urban children's hospital
M. Pandey, H. Dharamshi, T. A. J. Parsons, E. J. Barrett & M. J. Casas, Canada

1250 - 1300  OR04-2.09 Social determinants and oral health-related behaviors among Thai adolescents over decade
A. Tienkon, W. Sriarj & T. Sornkotra, Thailand
1130 - 1250  
**Poster Session**  
Oral Surgery/oral medicine/oral pathology  
Periodontology/microbiology  
Education/service evaluation/audit  

**1130 - 1250 Poster Session**  

**1245 - 1400 Lunch and exhibition**  

**1310 - 1350 Lunch and Learn session**  

**1400 - 1535 Keynote Session:** Care for socially deprived children and children with dentoalveolar injury  
Chair: Professor Svante Twetman, Denmark and Elizabeth O’Sullivan, UK  

**1530 - 1600 Break**  

**1600 - 1730 Parallel Session:** Caries diagnosis and management  
Chairs: Anne Maguire, UK and Yasmi Crystal, USA  

**1605 - 1630 Delivering oral health services in school-based health clinics using the CAMBRA method**  
- Professor Linda Franck, USA  

**1630 - 1655 The cutting edge of caries detection and diagnosis: practitioner and patient perspectives**  
- Professor Chris Deery, UK  

**1655 - 1720 Caries prevention and management by bio-active restorative materials**  
- Professor Satoshi Imazato, Japan  

**1720 - 1730 Discussion**  

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**Saturday**  

**1130 - 1250**  
**NuSmile Restorative Dentistry Research Award**  
Forth  

**1130 - 1150**  
**PZ04.04 Decellularisation of dental pulp for use as a scaffold in regenerative endodontics**  
M. Matoug-Elwerfelli, H. Nazzal, J. Graham, M. Duggal & E. M. Raaf, UK  

**1150 - 1210**  
**PZ04.05 Bonding performance of a self-adhering flowable composite-resin to different deciduous surfaces**  
F. K. Abdel Gawad, M. A. Rashed, R. M. Abdelraouf & M. A. Mohammed, Egypt  

**1210 - 1230**  
**PZ04.06 Detection of noncavitated occlusal caries with a novel impedance spectroscopy**  
S. Adiguzel, B. Kargul, S. Peker & F. Yaniçoglu, Turkey  

**1230 - 1250**  
**PZ04.07 Shear bond strength of two novel dentin replacement materials and glass ionomer cement bonded to two resin composites**  
W. R. Choudhury & N. Sridhar, India  

**1130 - 1230**  
**Parallel Session: Oral Presentations**  
Boisdale 2  

**1130 - 1140**  
**OZ03.01 A service evaluation of dental treatment carried out on medical general anaesthetic lists at Great Ormond Street Hospital for Children**  
M. Patel & U. Devalia, UK  

**1140 - 1150**  
**OZ03.02 Audit to assess the justification and accuracy of prescriptions in a children’s dental casualty clinic**  
O. Sumner, H. Liandro & V. Hind, UK  

**1150 - 1200**  
**OZ03.03 Quality of care for children admitted for an emergency dental GA: a re-audit**  
A. C. Hyde, M. M. Ivanova, A. McKechnie & H. D. Rodd, UK  

**1200 - 1210**  
**OZ03.04 Enhancing children’s oral health literacy with the use of visual aid illustrations: a quality improvement project**  
H. Ameer & D. Baldwin, UK  

**1210 - 1220**  
**OZ03.05 An audit of record keeping for paediatric dental patient’s residing at a protected address**  
Y. S. Chau & M. Moffat, UK  

**1220 - 1230**  
**OZ03.06 Hall technique for treating carious primary molars in a general practice setting**  
G. D. Taylor, K. Perry & R. R. Welbury, UK  

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**OZ03.06 Hall technique for treating carious primary molars in a general practice setting**  
G. D. Taylor, K. Perry & R. R. Welbury, UK
1600 - 1730 Parallel Session: Ill children: challenges for the paediatric dentist  
Chairs: Dimitris Emmanouil, Greece and James Lucas, Australia

1605 - 1630 Children, adolescents and periodontal diseases  
- Dr George Tsaligardis, Sweden

1630 - 1655 Caring for children with cancer  
- Professor Goran Dahlflof, Sweden

1655 - 1720 Childhood stress and oral health  
- Professor Lisa Papagiannoulis, Greece

1720 - 1730 Discussion  
Supported by iADH

1600 - 1710 Parallel Session: Oral Presentations  
Chair: Wendy Bells, UK

1600 - 1610 OR03-2.01 Effect of parental presence on behaviour of paediatric dental patients  
K. Salem, H. Daneshvar, M. Kousha, D. S. Raissi & D. A. Raissi, Iran

1610 - 1620 OR03-2.02 Dental fear among immigrant children  
A. Dahlander, L. Jansson & M. Grindefjord, Sweden

1620 - 1630 OR03-2.03 The Hall Technique: promoting a positive attitude to dental treatment in young children and their carers  
H. Calache, R. E. Martin, M. J. Hall, D. J. Manton, J. W. Brownbill & K. Sivasithamparam, Australia

1630 - 1640 OR03-2.04 A comparison of intranasal and oral dexmedetomidine for procedural sedation in paediatric dental patients  
N. Singh, S. Singh & V. Patel, India

1640 - 1650 OR03-2.06 Oral sedation in children with intellectual disability  
G. Scagnet, V. Haudemand, J. Valente, S. Alba, S. Bruno & V. P. Rodriguez, Argentina

1650 - 1700 OR03-2.07 The impact of a dental exam appointment on salivary cortisol in children referred to dental sedation  
H. Gomes, A. Daher, G. Machado, P. Costa, A. Batista & L. Costa, Brazil

1600 - 1650 Parallel Session: Oral Presentations  
Chair: Robin Mills, UK and Sally Hibbert, Australia

1600 - 1610 OR13.01 Performance based evaluation of ICDAS II, RVG and ACIS device for detection and assessment of occlusal caries in primary molars  
M. Rathore, R. Singh, S. Tandon & N. Tewari, India

1610 - 1620 OR13.02 A reject analysis and observer agreement between oral radiologists and senior year master students in paediatric dentistry of CBCTs in under-aged patients  
J. W. G. Van Acker, L. C. Martens & J. K. M. Aps, Belgium and USA

1620 - 1630 OR13.03 The intra-oral camera in infants and toddlers  
M. E. Elfrink, J. S. Veerkamp, J. B. Krikken, J. Heijdra, K. L. Weerheijm & P. H. Hogeman, Netherlands

1630 - 1640 OR13.04 MicroRaman spectroscopy analysis of carious dentine  
A. Almahdy, F. Festy, T. F. Watson & A. Banerjee, Saudi Arabia and UK

1640 - 1650 OR13.06 Low level light therapy (LLLT) in paediatric patients experiencing chemotherapy induced oro-pharyngeal mucositis  
F. McDowall, J. Kirby, J. Love, N. O’Murchu & R. R. Welbury, UK

1600 - 1700 Poster Session: Basic Science Research

1730 Closing Ceremony
Thursday Morning

Posters

Thursday 2nd July, 1130 Hours

Morita Prize Entries

1130 PZ03.02 Ectodermal dysplasia with anodontia in childhood: a case report with 3-year follow-up
A.L. Costa1, J. C. Ramos1, P. Nicolau2, M. Rocha1, J. L. Pereira1 & M. Da Fonseca2
1Dentistry Department, Faculty of Medicine, University of Coimbra, Coimbra, Portugal, 2University of Illinois at Chicago College of Dentistry, Illinois, IL, United States

1135 PZ03.03 Antibacterial and mechanical properties of a novel dental composite
A. Lefkaditi1, X. Chatzistavrou2, N. Kotsanos1 & P. Papagerakis2
1Pediatric Dentistry, Aristotle University of Thessaloniki, Thessaloniki, Greece, 2Orthodontics and Pediatric Dentistry, University of Michigan, Ann Arbor, MI, United States

1140 PZ03.04 Dental care course and oral quality of life in patients with rare diseases
A. Wolf1, A. S. Kaiser2, M. Michaelis3, M. Switlana1, M. Moorman1 & K. Puspananjali4
1Department of Pedodontics and Preventive Dentistry, Faculty of Dental Sciences, MS Ramaih University of Applied Sciences, Bangalore, India, 2Department of Periodontology and Preventive Dentistry, Dental Schools, Aristotle University of Thessaloniki, Thessaloniki, Greece, 3Department of Paediatric Dentistry in the Schools of Medicine, Aristotle University of Thessaloniki, Thessaloniki, Greece, 4Pediatric Dentistry, Aristotle University of Thessaloniki, Thessaloniki, Greece

1145 PZ03.05 Association between maternal psychosocial factor and early childhood caries (ECC) among preschool children of Bangalore city
A. Shaw1, M. Mohan2 & K. Pushpananjali3
1Department of Pedodontics and Preventive Dentistry, Faculty of Dental Sciences, MS Ramaih University of Applied Sciences, Bangalore, India, 2Achutha Menon Centre for Health Science Studies, Sree Chirita Trivalm Institute for Medical Sciences and Technology, Trivandrum, India, 3Department of Public Health Dentistry, Faculty of Dental Sciences, MS Ramaih University of Applied Sciences, Bangalore, India

1150 PZ03.06 Induced artificial bone marrow cells from dental pulp cells of primary tooth using a natural compound
A. Yamada, T. Nakamura, M. Arakaki, Y. Sugawara, K. Saito & S. Fukumoto
Division of Pediatric Dentistry, Department of Oral Health and Development Sciences, Tohoku University Graduate School of Dentistry, Sendai, Japan

1155 PZ03.07 Prevalence of molar-incisor hypomineralization (MIH) in groups of children in national schools in Selangor, Malaysia
B. Sopudilam1, T. Vijayakumar1, M. Mahadi1, D. J. Manton2 & A. Ghanim2
1Department of Paediatric Dentistry, Kajang Hospital, Kajang, Malaysia, 2Hulu Langat Dental Division, Kajang, Malaysia, 3University of Melbourne, Melbourne Dental School, VIC, Australia

1200 PZ03.08 Cytotoxicity of accelerated mineral trioxide aggregate on stem cells from human dental pulp
B. Karanj1, P. Kulain2, O. Karabiyik2 & G. Torun Kose3
1Pediatric Dentistry, Marmara University, Istanbul, Turkey, 2Marmara University, Istanbul, Turkey, 3Department of Genetics and Bioengineering, Faculty of Engineering, Yeditepe University, Istanbul, Turkey

1205 PZ03.09 DNAs (did not attend) in the dental paediatric clinic: how are they managed and can we improve?
B. Buahin, K. Lee, S. Walley & S. Albadri
Paediatric Dentistry, Liverpool University Dental Hospital, Liverpool, United Kingdom

1210 PZ03.10 Cost-Effectiveness of fluoride varnish in the prevention of early childhood caries in non-fluoridated areas
C. Zan1, G. Espinoz1, P. Muñoz1, C. Vargas1, S. Muñoz1, Paediatric Dentistry and Orthodontic Department, Faculty of Dentistry, Universidad de La Frontera, Temuco, Chile, 2Public Health Department, Faculty of Medicine, Universidad de La Frontera, Temuco, Chile, 3Health Service Araucania Sur, Temuco, Chile

1215 PZ03.11 Prevalence of Talon cusp and its genetic link between ethnic groups and the autosomal dominant trait in recent mixing populations
C. V. A. Witt., P. Kerschot & M. Lüthi
Paediatric Dentistry, School Dental Clinic, Schaffhausen, Switzerland

1220 PZ03.12 Evaluation of secondary caries in a microbial caries model after the addition of chlorhexidine in the adhesive procedure
C. Bottsoud1, S. Luecker2, S. Amend2, E. Hadjiantonis & M. Duggal
1Pediatric Dentistry, Marmara University, Istanbul, Turkey, 2Paediatric Dentistry, School Dental Clinic, Schaffhausen, Switzerland

1225 PZ03.13 ORAI1/2 and STIM1 protein expression patterns and potential functions during tooth development
D. Dimitraki1, A. Lefkaditi1, N. Kotsanos1 & P. Papagerakis2
1Pediatric Dentistry, Aristotle University of Thessaloniki, Thessaloniki, Greece, 2Orthodontics and Pediatric Dentistry, University of Michigan, Ann Arbor, MI, United States

1230 PZ03.14 Efficacy of probiotics in plaque reduction and gingival health maintenance among children under orthodontic treatment: a pilot study
D. Kolop1, N. Yilmaz1, P. Kulain2, B. Gökkaya1 & B. Kargil1
1Department of Orthodontics, Marmara University, Istanbul, Turkey, 2Pediatric Dentistry, Marmara University, Istanbul, Turkey

1235 PZ03.15 Sweet, salty, bitter and sour taste perceptions of school children and relationship with caries-risk factors
E. Egl1 & A. Mentes
Pediatric Dentistry, Marmara University, Istanbul, Turkey

1240 PZ03.16 Factors predicting the success of pre-formed metal crowns: a retrospective study
E. Gupta1, A. Cowiam2 & H. D. Rodd2
1Oral Health and Development, University of Sheffield, Sheffield, United Kingdom, 2Paediatric Dentistry, University of Sheffield, Sheffield, United Kingdom

1245 PZ03.17 An unusual and severe sequela following trauma to the primary incisors
E. Hidayat1 & M. Duggal
Pediatric Dentistry, University of Leeds / Leeds Dental School, Leeds, United Kingdom
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<td>PZ03.36</td>
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<td>Academic Unit of Oral Health and Development, University of Sheffield, Sheffield, United Kingdom</td>
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<td>Division of Pediatric Dentistry, Department of Stomatology, Taipei Veterans General Hospital, Taipei, Taiwan, Republic of China</td>
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<td>Pediatric Dentistry, College of Dental Sciences, Manipal University, Manipal, India</td>
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<td>Department of Paediatric Dentistry, Nihon University School of Dentistry at Matsudo, Matsudo, Japan</td>
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<td>Pediatric Dentistry and Endodontics, Dhulikhel Hospital, Kathmandu University Hospital, Dhulikhel, Nepal, Conservative Dentistry and Endodontics, Dhulikhel Hospital, Kathmandu University Hospital, Dhulikhel, Nepal, Department of Community and Public Health Dentistry, Kist Medical College and Hospital, Gwarko, Nepal, School of Public Health and Community Medicine, B. P. Koirala Institute of Health Sciences, Dharan, Nepal</td>
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<td>Department of Paediatric Dentistry, PAECOMEDIS Research Cluster, Ghent University, Gent, Belgium, Faculty of Dentistry, Mara University of Technology, Shah Alam, Malaysia</td>
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<td>Department of Paediatric Dentistry, PAECOMEDIS Research Cluster, Ghent University, Gent, Belgium, Faculty of Dentistry, Mara University of Technology, Shah Alam, Malaysia</td>
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<td>University of Chile, Santiago, Chile</td>
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Pediatric Dentistry, University of Florida, Gainesville, FL, United States

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C. Mukundan*, F. Stoops & R. R. Welbury*
Crosshill Dental Practice, Port Glasgow, United Kingdom, *Paediatric Department, Glasgow Dental Hospital and School, Glasgow, United Kingdom

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J. Feng & J. Mi
Shanghai Stomatological Disease Center, Shanghai, China, *Shanghai Tongji Hospital, Shanghai, China

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Pediatric Dentistry, University of Buenos Aires, Buenos Aires, Argentina

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H. Jiang, M. O. Du & B. J. Tai
Department of Preventive Dentistry, School of Stomatology, Wuhan University, Wuhan, China

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K. Perisić*, M. Lalić*, N. Borotić, M. Gajić & E. Aleksić*
*Department of Preventive and Paediatric Dentistry, Faculty of Dentistry Pancevo, University Business Academy Novi Sad, Pancevo, Serbia, 1Department of Prosthodontics, Faculty of Dentistry Pancevo, University Business Academy Novi Sad, Pancevo, Serbia, 2Department of Orthodontics, Faculty of Dentistry Pancevo, University Business Academy Novi Sad, Pancevo, Serbia

**1200 PR01.10 Impact of Nigerian parents / caregivers oral health knowledge, attitude and practices on the oral health of their children**
C. A. Adekoya-Sofowora & F. O. Faniran
Child Dental Health, Obafemi Awolowo University, Ile-Ife, Nigeria, *Preventive Dentistry, Obafemi Awolowo University, Ile-Ife, Nigeria

**1205 PR01.08 Monitoring levels of preventive care: 7 year results**
F. E. Hogg & L. Ge
1Paediatric Department, Edinburgh Dental Institute, Edinburgh, United Kingdom, 2Department of Pediatric Dentistry, Capital Medical University School of Stomatology, Beijing, China, 3Department of Preventive Dentistry, Faculty of Dentistry - National, Singapore, Singapore

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S. Singh & M. Srivastava
Pedodontics & Preventive Dentistry, Babu Banaras Das College of Dental Sciences, Lucknow, India

**1215 PR01.10 Oral health preventive program for visually impaired children: Indian experience**
K. Gauria*, D. Sardana*, A. Goyal & A. Kapur*
Oral Health Sciences Centre, Postgraduate Institute of Medical Education & Research, Chandigarh, India, 1Centre for Dental Education, All India Institute of Medical Sciences, New Delhi, India

**1220 PR01.11 Impact of Nigerian parents / caregivers oral health knowledge, attitude and practices on the oral health of their children**
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Child Dental Health, Obafemi Awolowo University, Ile-Ife, Nigeria, *Preventive Dentistry, Obafemi Awolowo University, Ile-Ife, Nigeria

**1225 PR01.12 Factors associated with prevalence of the recurrent dental caries after 12 months treatment under general anesthesia**
Y. T. Liu*, C. Y. S. Hsu* & Y. T. J. Lin*
*Pediatric Dentistry, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan, Republic of China, 1Department of Preventive Dentistry, Faculty of Dentistry - National, Singapore, Singapore

**1230 PR01.13 What are the chances for the development of caries without prevention programs?**
D. Bakarcic*, J. N. Ivancic* & R. Grzic*
1Pediatric Department, Capital Medical University School of Stomatology, Beijing, China, 2Children’s Dentistry, St Thomas’ Hospital, London, United Kingdom, 3Antenatal Education Unit, St Thomas’ Hospital, London, United Kingdom

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A. Arajali*, P. Correa*, C. Williams*, D. Symington* & M. T. Hosey*
1Paediatric Dentistry, King’s College London Dental Institute, London, United Kingdom, 2Children’s Dentistry, St Thomas’ Hospital, London, United Kingdom, 3Antenatal Education Unit, St Thomas’ Hospital, London, United Kingdom

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S. Dima & N. C. Teng
Department of Pediatric Dentistry, School of Dentistry, Taipei Medical University, Taipei, Taiwan, Republic of China

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D. Yang*, J. Xun*, C. Mao*, J. Li* & L. Ge*
1Department of Pediatric Dentistry, Capital Medical University School of Stomatology, Beijing, China, 2Capital Medical University School of Stomatology, Beijing, China

**1250 PR01.17 Comparison of the newer preventive therapies on remineralisation of enamel in vitro**
M. Bataniche, M. Malinowski, J. Tahmassebi & M. Duggal
Paediatric Dentistry, University of Leeds / Leeds Dental School, Leeds, United Kingdom

**1260 PR01.18 The effect of matrix metalloproteinases (MMPs) inhibitor on caries progression in rats**
D. Yang*, J. Xun*, C. Mao*, J. Li* & L. Ge*
1Department of Pediatric Dentistry, Capital Medical University School of Stomatology, Beijing, China, 2Capital Medical University School of Stomatology, Beijing, China

**1265 PR01.19 Preventive therapies on caries progression in rats**
D. Yang*, J. Xun*, C. Mao*, J. Li* & L. Ge*
1Department of Pediatric Dentistry, Capital Medical University School of Stomatology, Beijing, China, 2Capital Medical University School of Stomatology, Beijing, China

**1270 PR01.20 The effect of matrix metalloproteinases (MMPs) inhibitor on caries progression in rats**
D. Yang*, J. Xun*, C. Mao*, J. Li* & L. Ge*
1Department of Pediatric Dentistry, Capital Medical University School of Stomatology, Beijing, China, 2Capital Medical University School of Stomatology, Beijing, China
1255 PR01.18 Children's access to oral health care in Nigeria: the role of paediatricians
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1Child Dental Health, University of Lagos, Lagos, Nigeria, 2Child Dental Health, Lagos University Teaching Hospital, Lagos, Nigeria
2Preventive Dentistry, University of Lagos, Lagos, Nigeria, 2Preventive Dentistry, Lagos University Teaching Hospital, Lagos, Nigeria
3Paediatrics, University of Lagos, Lagos, Nigeria, 3Paediatrics, Lagos University Teaching Hospital, Lagos, Nigeria
4Paediatrics, Lagos University Teaching Hospital, Lagos, Nigeria

1145 PR01.22 Can a pacifier act as a reservoir for bacterial contamination of teeth in young children? A pilot study
D. Sterckx1, D. Declercq2 & W. Teughels2
1Unit of Pediatric Dentistry and Special Dental Care, Department of Oral Health Sciences and Department of Dentistry, KU Leuven, Leuven, Belgium, 2Periodontology, Department of Oral Health Sciences and Department of Dentistry, KU Leuven, Leuven, Belgium

1150 PR01.23 The effects of ozone therapy on clinical success of fissure sealant applications
F. Küçük, M. Çetinkaya & F. Tuğra Öz
Paediatric Dentistry, Ankara University, Ankara, Turkey

1155 PR01.24 The survey on deciduous dental caries for young children in Nanjing
J. Wu1 & W. Zhu1
1Department of Oral Health Care, Affiliated Maternity and Child Health Hospital, Nanjing, China, 2Department of Pediatric and Preventive Dentistry, Nanjing Yuhua Dental Hospital, Nanjing, China

1200 PR01.25 The rate of retention of fissure sealants in the paediatric dentistry clinic
H. M. Afshafran & M. Alrahabi
Paediatric Dentistry, Dubai College of Dental Medicine, Dubai, United Arab Emirates

1205 PR01.26 Assessment of acidic beverages consumption habits in sports children
U. Bhushan & M. Goswami
Pedodontics and Preventive Dentistry, Maulana Azad Institute of Dental Sciences, Delhi, India

1210 PR01.27 Mother's knowledge about early childhood caries in Chilean children from low socioeconomic status
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1Paediatric Dentistry, Universidad de Chile, Santiago, Chile, 2Public Health, Universidad de Chile, Santiago, Chile

1215 PR01.28 The effect of computer-based intervention programme on adolescents
A. Toratti1, M. L. Laitala1, A. Kemppainen1, P. Pesonen2 & V. Anttonen1,3
1Department of Paedodontics, Institute of Dentistry, University of Oulu, Oulu, Finland, 2Medical Research Center Oulu, Oulu, Finland, 3Oulu University Hospital, Oulu, Finland

1220 PR01.29 The effectiveness of permanent molars' fissure sealing on the caries prevention in 8 year old children
L. Likar Osto, L. Hočevar, T. Leiban & A. Pavlic
Department of Paediatric and Preventive Dentistry, Faculty of Medicine, University of Ljubljana, Ljubljana, Slovenia

1225 PR01.30 Influence of targeted tooth brushing on remineralisation of initial caries lesions in newly erupted second molars
M. L. Laitala1, E. Jaantti1, H. Väelinikkilä1, T. Määttä1 & V. Anttonen1,3
1University of Turku, Faculty of Dental Medicine, Clinic of Stomatology, Masaryk University, Brno, Czech Republic, 2Medical Research Center Oulu, Oulu, Finland, 3Oulu University Hospital, Oulu, Finland

1230 PR01.31 Re-mineralising effect of CPP-ACP (Recaldent) and -tricalcium phosphate varnishes on dental enamel
Y. Martinez1, C. Martinez1, P. Gatón2, C. Serral2, A. Vicente1 & A. Ortíz1
1University of Murcia, Murcia, Spain, 2University of Barcelona, Barcelona, Spain

1235 PR01.32 Effect of fluoride varnishes on surface microhardness of enamel - an in-vitro study
G. Babu Kadakaikere Lakshman, T. Sangeeta & P. Subramaniam
Department of Pedodontics and Preventive Dentistry, The Oxford Dental College and Hospital, Bangalore, India

1240 PR01.33 The prevalence of S-ECC and related factors in 3-year old children in middle of Taiwan
H. H. Chi1, K. T. Sun2, Y. H. Hsieh1, C. J. Hung1 & Y. C. Chang1
1China Medical University Hospital, Taichung, Taiwan, Republic of China, 2Pediatric Dentistry, China Medical University Hospital, Taichung, Taiwan, Republic of China

1245 PR01.34 The relationship between mothers’ attitudes to diet and oral hygiene and caries risk in infants
M. Bartosova1,2, M. Svetlik3, M. Kukletova1 & L. Izakovicova Holla1,4
1Department of Paedodontics, Institute of Dental Medicine, Clinic of Stomatology, Masaryk University, Brno, Czech Republic, 2Research Centre for Toxic Compounds in the Environment (RECETOX), Chemistry Section, Masaryk University, Faculty of Science, Brno, Czech Republic, 3Department of Psychology and Psychosomatics, Faculty of Medicine, Masaryk University, Brno, Czech Republic, 4Department of Pathophysiology, Faculty of Medicine, Masaryk University, Brno, Czech Republic

1250 PR01.35 A new toothpaste in reducing gingival inflammation and preventing gingival bleeding: a double blind randomized controlled clinical trial
D. Neovicic Vranic1, M. Majstorovic1,2 & T. Kitanac1
1Department of Paediatric Dentistry, School of Dental Medicine, University of Zagreb, Zagreb, Croatia, 2Community Dental Centre, Zagreb, Croatia
1130 PR01.37 Habit changes in infants younger than four years of age, showing systemic pathologies attending the oral health program at Luis Calvo Mackenna Hospital (HLCM) attending the oral health program at Luis Calvo Mackenna Hospital (HLCM)  

1135 PR01.38 Early childhood caries: protective and determinant factors correlated with disease manifestation in children up to 4 years old. L.V.F.M. Lemongi1, M.A. Rego1, A.C. Cuanço1, S.I. Myaki2 & L.R. F. Watter4  

1140 PR01.39 In vivo evaluation of acidogenic proprieties of Stevia rebaudiana extracts on human saliva: a pilot study. B. Acid1, T. Cantile1, M. Coda1, A. Piotto1, A. Ingerto1 & G. F. Ferrazzano1  

1145 PR01.40 Oral care protocol intervention in the prevention and management of oral mucositis based on clinical evidence in oncohematological pediatric patients. V. Gómez Clemente1, A. Axano Velasco1, E. M. Martínez Pérez2, C. Mata Fernández2 & P. Planells Del Pozo2  

1150 PR01.41 Ph measurement, flow rate calculation, salivary concentration of CPP-ACP and Quer cetin after medicated chewing gum oral delivery. G. F. Ferrazzano1, T. Cantile1, B. Acid1, M. Coda1, M. G. Volpi1 & A. Ingerto1  

1155 PR01.42 Audit of compliance with Scottish Dental Clinical Effectiveness Programme (SDCEP) guidelines on provision of topical fluoride and fissure sealants in a general dental practice setting. E. L. Mcconry1  

PR01.43 Acidogenic potential of plain milk, milk with sugar, cornflakes with milk, and cornflakes, milk with sugar - In vivo comparison. S. S. Bhat1, V. S. Bhat1 & R. Kamam1  

1200 PR01.44 A phase II randomised controlled trial of an oral health education video game for high caries risk children. A. Aljafari1, J. Gallagher1 & M.T. Hoseny1  

1205 PR01.45 Effect of probiotic bacterium Lactobacillus reuteri on white spot lesion development in orthodontic patients. S. Gizani1, G. Petsi1, S. Tswetman1, C. Caroni1 & L. Papagiannoulis1  

1210 PR01.46 Oral health, vitamin and trace element status in child with ASD. B. Lew1, J. Molina1, E. Planells1 & F. Planells1  

1215 PR01.47 Preventive effect of CPP-ACP/NaF and NaF varnishes on dental erosion associated with abrasion, and on dental caries. L. C. Mai1, A. K. Alexandria1, T. I. Vieira1, T. K. S. Fidalgo1, M. M. Piton1 & A. M. G. Valença1  

1220 PR01.48 The prevalence of enamel demineralization of deciduous teeth in children 12 to 48 months old. W. Zyu1, J. Wu2  

1225 PR01.49 In vivo comparison of topical fluoride and orthodontic patients. Y. Gómez Clemente1, A. Axano Velasco1, E. M. Martínez Pérez2, C. Mata Fernández2 & P. Planells Del Pozo2  

1230 PR01.50 A retrospective study over the retention rate of non-invasive versus minimally invasive sealings- 2 yrs follow-up. M. Tanase1, A. M. Raducanu1 & I.V. Feraru1  

1235 PR01.51 Oral microbiota of children in public and private school and their relationship with food and oral habits. M. P. Guerrero1, N. M. Jimenez1, C. Amaro2, S. Aguilar1, P. O. Gil2 & E. Aguilar1  

1240 PR01.52 To compare the remineralization potential of milk, cheese and GC tooth mousse on demineralized human enamel. L. K. Vodi1, V. Szety1 & A. Hegde1  

1245 PR01.53 Preventive effect of CPP-ACP/NaF varnishes on dental erosion associated with abrasion, and on dental caries. L. C. Mai1, A. K. Alexandria1, T. I. Vieira1, T. K. S. Fidalgo1, M. M. Piton1 & A. M. G. Valença1  

1250 PR01.54 Dental caries recurrence after treatment for severe early childhood caries under general anesthesia: a 1-year follow-up. J. Tian1  

1Department of Pediatric Dentistry, Federal University of Paraíba, João Pessoa, Brazil  

2Private Pediatric Dental Clinic, Bucharest, Romania  

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9Department of Pediatric Dentistry, Federal University of Pará, João Pessoa, Brazil  

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Riga Stradins University, Riga, Latvia |
| 1140 | PR01.57 | The effect of MI paste plus on initial caries lesion using focus-ion-beam/scanning electron microscopy (FIB/SEM) | B. Kitki1, M. Sezer2 & B. Kargul1  
1Department of Pediatric Dentistry, Marmara University Faculty of Dentistry, Istanbul, Turkey; 2Nanotechnology Research and Application Center, Sabancı University, Istanbul, Turkey |
| 1145 | PR01.58 | White spot lesions and orthodontics: a clinical study and proposition of preventive protocols | W. Rehrhaye1, A. Benkaddour1, A. Bahoum1, L. Bahje1 & F. Zaoui1  
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1University of Murcia, Murcia, Spain; 2Clinica Dental, Murcia, Spain |
| 1155 | PR01.60 | Improving integration of dental and medical oral health services for young children | J. J. O’Riell1  
1Public Health & Community Dentistry, UCLA, Los Angeles, CA, United States; 2UCLA-First 5 LA Oral Health Program, Los Angeles, CA, United States |
| 1200 | PR01.61 | Contributions of caregiver’s social support to children’s dental caries in Guangzhou: a structural equation model | R. Qu1,2, E. C. M. Lo1 & H. Lin1  
1Department of Pediatric Dentistry, College of Stomatology, Guangdong Medical University, Nanning, China; 2Department of Preventive Dentistry, Guangzhou School of Stomatology, Sun Yat-sen University, Guangzhou, China; 3Dental Public Health, Faculty of Dentistry, University of Hong Kong, Hong Kong, China |
| 1205 | PR01.62 | Treatment of immature permanent teeth with periapical lesions | S. Gromova1 & O. Kovylna1  
1Kirov State Medical Academy, Kirov, Russian Federation; 2Paediatric Dentistry Dept, Moscow State University of Medicine and Dentistry named after A.I. Evdokimov, Moscow, Russian Federation |
| 1210 | PR01.63 | Management of white spot lesions before and during orthodontic treatment | M. Velissariou, M. Charopeme, N. Chandwani & K. Kavvadia  
Pediatric Dentistry, European University College, Dubai, United Arab Emirates |
| 1215 | PR01.64 | Effect of carbonated beverages on aesthetic restorative materials - an in-vitro surface microhardness study | A. M. Xavier1, S. M. Sunny2 & A. M. Hegde3  
1Depart. of Pediatric Dentistry, Amrita School of Dentistry, Aluva, India; 2Dental Surgeon, Smile ‘n Care Multispecialty & Pediatric Dental Home Aluva, Ernakulam, India; 3Pedodontics and Preventive Children Dentistry, A.B. Shetty Memorial Institute of Dental Sciences, Mangalore, India |
| 1220 | PR02.01 | Phenotypic and genotypic profile of a child with a unique pattern of molar teeth agenesis | B. Ahmed  
Prosthodontics, National University of Science & Technology (NUST), Islamabad, Pakistan |
| 1225 | PR02.02 | Early prosthodontic intervention in children with ectodermal dysplasia at age three | L. W. Ou-Yang & A. I. Tsai  
Department of Paediatric Dentistry, Chang-Gung University, Chang-Gung Memorial Hospital, Taoyuan county, Taiwan, Republic of China |
| 1230 | PR02.03 | Treatment for a patient with molar-incisor hypomineralization | S. H. Xu1, H. H. Chang2, Y. L. Wang2, G. F. Huang1 & M. K. Guo3  
1Pediatric Dentistry, National Taiwan University Children Hospital, Taipei City, Taiwan, Republic of China; 2Graduate Institute of Clinical Dentistry, National Taiwan University, Taipei City, Taiwan, Republic of China |
| 1235 | PR02.04 | Dental treatment consideration in a child with Pompe disease | K. Y. Chu1,2, Y. L. Wang1, H. H. Chang2, G. F. Huang1 & M. K. Guo3  
1National Taiwan University Hospital, Taipei, Taiwan, Republic of China; 2National Taiwan University, Taipei, Taiwan, Republic of China |
| 1240 | PR02.05 | Dental management of a patient presenting with incontinentia pigmenti (IP) | L. Daikour1, P. Ashley & S. Parekh  
Paediatric Department, Eastman Dental Institute, London, United Kingdom |
| 1245 | PR02.06 | Prevalence of hyperdontia and hypodontia in a Turkish pediatric patient population | M. Uluakay1, B. Pekel & A. Mentes  
Pediatric Dentistry, Marmara University, Istanbul, Turkey |

**Dental anomalies**

| 1130 | PR02.08 | Supernumerary teeth: epidemiological study in patients kids | E. L. Bagi1, M. Garcia, V. Pavan, G. Arrebola, M. Pantyler & L. Mendez  
Department of Pediatric Dentistry, University of Buenos Aires, Buenos Aires, Argentina |
| 1205 | PR02.09 | Attitudes towards genetic testing for dental disorders in children | C. J. Bushell & M. Harrison1,2  
1Paediatric Dentistry, King’s College London Dental Institute, London, United Kingdom; 2Consultant Paediatric Dentist, Guy’s and St.Thomas’ NHS Trust, London, United Kingdom |
| 1210 | PR02.10 | Solitary median maxillary central incisor (SMCCI) syndrome - a variant with a supplemental median maxillary central incisor | E. Dunbar & R. R. Welbury  
Glasgow Dental Hospital and School, Glasgow, United Kingdom |
| 1215 | PR02.11 | Non-syndromic hypo-hyperdontia in the mandibular anterior region | S. S. Huang1,2, M. H. Sheer1, S. T. Huang2 & S. Y. Hsiao1  
1Department of Dentistry, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan, Republic of China; 2Department of Pediatric Dentistry, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan, Republic of China; 3Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan, Republic of China |
| 1220 | PR02.12 | Regional odontodysplasia: the report of two unusual cases involved cross-region and over-region | G. Song1, S. Zhang2 & M. M. Omar  
Pediatric Dentistry, School & Hospital of Stomatology, Wuhan University, Wuhan, China |
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<td>PR02.13 Oligodontia in a pediatric patient with systemic disease</td>
<td>Z. A. Gürbüz &amp; A. Alacan</td>
<td>Pediatric Dentistry, Trakya University Faculty of Dentistry, Edirne, Turkey</td>
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<td>P. Schogger &amp; L. Gartshore</td>
<td>Paediatric Dentistry Department, University of Liverpool, Liverpool, United Kingdom</td>
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<td>PR02.15 Primary failure of eruption presenting in a patient to varying degrees in all four quadrants</td>
<td>P. Ashley, C. Clayton, J. Noar, A. Sharma &amp; L. Kneafsey</td>
<td>Paediatric Dentistry, Eastman Dental Institute, University College London (UCL), London, United Kingdom, Orthodontics, Eastman Dental Institute, University College London (UCL), London, United Kingdom, Paediatric Dentistry Department, University of Liverpool, Liverpool, United Kingdom</td>
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<td>PR02.16 Regional odontodysplasia: an unusual case report and two years follow up</td>
<td>C. Duran, I. Kakyounou, G. Oluş &amp; A. R. Menteg</td>
<td>Paediatric Dentistry, Marmara University, Istanbul, Turkey, Oral and Maxillofacial Surgery, Marmara University, Istanbul, Turkey</td>
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<td>PR02.17 Premature tooth loss in a 4-year old healthy boy, a diagnostic challenge</td>
<td>H. Backaert, T. De Ravel, I. Baillot-Forestier &amp; D. Declerck</td>
<td>Department of Oral Health Sciences and Department of Dentistry, Unit of Pediatric Dentistry and Special Dental Care, University Hospital Leuven, KU Leuven, Leuven, Belgium, Centre for Human Genetics, University Hospital Leuven, KU Leuven, Leuven, Belgium, Pediatric Dentistry, Dental Faculty, CHU Toulouse, Toulouse, France</td>
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<td>PR02.18 A case report of pre-mature eruption of an upper left first permanent premolar in a 5 year old patient</td>
<td>G. Chu &amp; E. Ravichandran</td>
<td>Public Dental Services, NHS Greater Glasgow &amp; Clyde, Glasgow, United Kingdom</td>
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<td>E. Ronkinain, S. Alakussu &amp; P. Nieminen</td>
<td>Institute of Dentistry, University of Helsinki, Helsinki, Finland</td>
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<td>PR02.21 Dental anomalies associated with agenesis of mandibular second premolars in Turkish population</td>
<td>M. Yüz, T. Bezgin, B. Merniq-Ozgul &amp; S. Sari</td>
<td>Paediatric Dentistry, Ankara University, Ankara, Turkey</td>
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<td>PR02.22 A case report: multiple un-erupted teeth and other dental anomalies in a non- syndrome patient</td>
<td>J. D. Edwards &amp; T. Percival</td>
<td>Paediatric Dental, Child Dental Health Unit, School of Dentistry, University of the West Indies, Champs Fleurs, Trinidad and Tobago</td>
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<td>PR02.23 Management and follow up of an erupting mesiodens in a four year old patient</td>
<td>J. R. Ammari</td>
<td>Private Paediatric Dental Clinic, Amman, Jordan</td>
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<td>PR02.24 Dental findings in the diagnosis of ectodermal dysplasia with immunodeficiency: a case report</td>
<td>T. Kawakami, Y. Hagihara, H. Yoneyama, M. Maeda, Y. Ito &amp; H. Karibe</td>
<td>Pediatric Dentistry, The Nippon Dental University, School of Life Dentistry at Tokyo, Tokyo, Japan, Pediatrics, Nippon Medical School, Tokyo, Japan</td>
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<td>PR02.25 Developmental enamel defects in one-year-old infants delivered with low and extremely low birthweights</td>
<td>V. Merigoz, R. Koborova, Z. Broukal, J. Dort &amp; H. Tobrmanova</td>
<td>Dentistry Department, Faculty of Medicine in Pilsen, Charles University in Prague, Pilsen, Czech Republic, Dentistry Department, Faculty of Medicine in Hradec Kralove, Charles University in Prague, Hradec Kralove, Czech Republic, Dentistry Department, 1st Faculty of Medicine, Charles University in Prague, Prague, Czech Republic, Department of Neonatology, Faculty Hospital in Pilsen, Pilsen, Czech Republic</td>
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<td>PR02.26 Management of pre-eruptive intra-coronal radiolucency in a maxillary canine: a rare case report</td>
<td>A. Akadghirji, J. Hennessy, E. Al-Awadhi &amp; T. Garvey</td>
<td>Department of Public and Child Dental Health, Dublin Dental University Hospital, Dublin, Ireland</td>
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<td>PR02.27 Minimally invasive rehabilitation of a case with amelogenesis imperfecta</td>
<td>M. A. Chauhary &amp; F. S. I. Wong</td>
<td>Paediatric Dentistry, Barts and the London School of Medicine and Dentistry, Queen Mary University of London, London, United Kingdom</td>
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<td>PR02.28 Idiopathic pre-eruptive coronal resorption of four impacted mandibular premolars in a child with STIM-1 deficiency</td>
<td>M. Lambrechts, I. Meyts, M. Peumans &amp; G. Vansteenkiste</td>
<td>Department of Oral Health Sciences and Department of Dentistry, Unit of Paediatric Dentistry and Special Dental Care, University Hospitals Leuven and University of Leuven, Leuven, Belgium, Department of Immunology and Microbiology, Childhood Immunology and Department of Pediatrics, University Hospitals Leuven and University of Leuven, Leuven, Belgium</td>
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<td>J. M. Jang, H. S. Lee, J. S. Song &amp; J. H. Lee</td>
<td>Department of Pediatric Dentistry, College of Dentistry, Yonsei University, Seoul, Korea, Republic of</td>
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<td>PR02.30 Children with deciduous-molar-hypomineralisation are at higher risk of developing molar-hypomineralisation</td>
<td>P. C. Jimenez, D. M. Pereira, J. N. Vives &amp; V. A. Perez</td>
<td>Department of Pediatric Stomatology, University of Talca, Talca, Chile, Department of Pharmacology and Therapeutics, The University of Melbourne, Melbourne, VIC, Australia</td>
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<td>PR02.31 Dental management for Turner syndrome patient - a case report</td>
<td>J. M. Su</td>
<td>Dental Department, Show-Chwan Memorial Hospital, Chang-Hua, Taiwan, Republic of China</td>
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<td>PR02.32 Multiple anomalies in mixed dentition: a case report</td>
<td>P. Indrayani</td>
<td>Paediatric Dentistry, Padjadjaran University, Bandung, Indonesia</td>
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Dental anxiety and behavioural management

1600 PR03.01 Pulpal laser anaesthesia vs local anaesthetic injection
A.V.K. Efthymiou
Paediatric Department, University of Athens, Private Dental Office, Aigaleo, Greece

1605 PR03.02 Environmental factors affecting children's anxiety & coping with dental general anaesthesia
A. S. Zaher, M. T. Hosey & S. Sood
Paediatric Dentistry, King's College London, London, United Kingdom

1610 PR03.03 Managing patients with special health care needs - are we there yet?
M. Quelmann-Marcio & L. R. F. Mugayar
Pediatric Dentistry, University of Florida, Gainesville, FL, United States

1615 PR03.04 Attitude towards oral health and prevalence of caries in school children in Tijuana , BC Mexico
P. A. Galvan Castillo, M. A. Zamudio Gomez, M. E. Torres Arellano, A. Campos Frias, C. A. Fregoso Guevara & J. L. Bustamante Reynoso
Especialidad Odontologia Pediatrica, Universidad Autonoma de Baja California, Tijuana, Mexico

1620 PR03.05 Evaluation of the effect of general anaesthesia and restraint during dental treatment on dental anxiety and behavior in children
H. Zhang, B. Xia, J. Wang, X. Chen, L. Ge
1Pediatric Dentistry, Clinic of Peking University School and Hospital of Stomatology, Beijing, China, 2Pediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China

1625 PR03.06 Comparison of oral and intramuscular ketamine, midazolam, atropine for sedation of 1-4 year old uncooperative pediatric dental patients
G. Ansari, N. Pasdar, M. Vahid Golpayegani, S. Shayeghi & A. Mahdavi
1Pediatric Dentistry, Shahid Beheshti Medical University, Tehran, Iran, Islamic Republic of, 2Pediatric Dentistry, Mazandaran University of Medical Sciences, Babol, Iran, Islamic Republic of, 3Anesthesiology, Shahid Beheshti Medical University, Tehran, Iran, Islamic Republic of

1630 PR03.07 Efficacy and outcome assessment of a specially designed augmentative communication program for managing children with special health care needs in a pediatric dental set-up
N. Gujral, S. Grewal & T. Sethi
1Pedodontics & Preventive Dentistry, Government Dental College, Amritsar, India, 2Pediatric Dentistry, Tufts University Dental School, Boston, MA, United States

1635 PR03.08 The effectiveness of using visual pedagogy in dental check up and preventive dentistry for children with autism: a randomized clinical trial
F. Nikian & Z. Taghijar
1Dental Public Health, Esfahan Medical University, Esfahan, Iran, Islamic Republic of, 2Esfahan University of Medical Sciences, Esfahan, Iran, Islamic Republic of

1640 PR03.09 Degree of anxiety and colour priority of child in a dental session
D. Onur Ozdas
Pediatric Dentistry Department, Istanbul Aydin University/Dentistry Faculty, Istanbul, Turkey
1645 PR03.10 Considering two usual scales for behaviour assessment during paediatric dental sedation
L. R. Costa1, A. Daher1, H. S. Gomes2, K. A. Viana3, G. C. M. Machado1 & P. S. S. Costa1
1Paediatric Dentistry, Federal University of Goias, Goiania, Brazil, 2Dentistry Graduate Program, Federal University of Goias, Goiania, Brazil, 3Paediatrics, Federal University of Goias, Goiania, Brazil

1650 PR03.11 The use of relaxation and needle desensitisation to treat and resolve dental phobia
C. M. Campbell, C. Simpson & G. D. Taylor
Department of Paediatric Dentistry, Glasgow Dental Hospital and School, Glasgow, United Kingdom

1655 PR03.12 Parent, dentist, and independent rater assessment of child distress during preventive dental visits
T. M. Nelson1, C. E. Huebner1 & J. A. M. Scott1
1Department of Pediatric Dentistry, University of Washington, Seattle, WA, United States, 2School of Public Health, University of Washington, Seattle, WA, United States

1660 PR03.13 Comparison between two types of video eyeglasses in management of pediatric dental patients
G. M. Mahmoud
Pediatric Dentistry, 6th October University for Modern Science and Arts, Cairo, Egypt

1665 PR03.14 Children's intelligence quotient following dental general anesthesia: the clinical observation
B. Xia, Y. Xiao, J. Wang & L. Ge
Department of Pediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China

1670 PR03.15 An integrated care approach in the management of small children requiring dental treatment under general anaesthesia (GA)
J. Drobotko, A. Sedyoykin & K. Fedotov
Paediatric Dentistry Department, Moscow State University of Medicine and Dentistry named after A.I. Evdokimov (MSUMD), Moscow, Russian Federation

1675 PR03.16 Midazolam sedation for young children
L. Kiselevkova, A. Zolotussky, L. Drobotko, A. Sedyoykin & K. Fedotov
Paediatric Dentistry Department, Moscow State University of Medicine and Dentistry named after A.I. Evdokimov (MSUMD), Moscow, Russian Federation

1680 PR03.17 Comparative study of artiﬁcian versus lidocaine for extraction of primary molars
S. Bak1 & M. Ei-Sneikhi2
1Pediatric and Community Dentistry Department, Beirut Arab University, Beirut, Lebanon, 2On Secondment from Faculty of Oral and Dental Medicine, Cairo University, Cairo, Egypt, 3Pediatric Dentistry Department, Faculty of Oral and Dental Medicine, Cairo University, Cairo, Egypt

1685 PR03.18 Acceptance of child behavior management techniques in a group of Cambodian mothers
C. Yoi
1Pediatric Dentistry, Mahidol University, Faculty of Dentistry, Bangkok, Thailand, 2Dentistry, University of Puthisastra, Faculty of Dentistry, Phnom Penh, Cambodia

1690 PR03.19 Comparative evaluation of clinical effectiveness of a vibrating device (Vibraject) and surface anesthetic agent in reducing pain during local anesthesia injection
I. K. Pandit1, N. Gugnani1, M. Gupta1, N. Pandit1 & H. Malhan1
1Paediatric and Preventive Dentistry, DA(C) Dental College, Yamunanagar, India, 2DA(C) Dental College, Yamunanagar, India

1695 PR03.20 The application of video glasses to manage challenging paediatric dental situations
P. J. Hara, A. Causas & K. Coomaraswamy
Paediatric Dentistry, Birmingham Dental Hospital, Birmingham, United Kingdom

1700 PR03.21 Computer capillaroscopy assisted assessment of stress level in children undergoing dental treatment under conscious sedation
E. Shavlovskaya1, M. Korolenkova1, F. Mutafina1 & I. F. Ostreiko2
1Pediatric Dentistry, Central Research Institute of Dentistry and Maxillofacial Surgery, Moscow, Russian Federation, 2Functional Diagnostics, Central Research Institute of Dentistry and Maxillofacial Surgery, Moscow, Russian Federation

1705 PR03.22 Dental treatment in a patient with Ulrich congenital muscular dystrophy under total intravenous anesthesia
Department of Pediatric Dentistry, School of Dental Medicine, Seoul National University, Seoul, Korea, Republic of

1710 PR03.23 Dental phobia with anxiety in adults who needs comprehensive dental treatment: a case report
China Medical University Hospital, Taichung City, Taiwan, Republic of China

1715 PR03.24 To compare the efﬁcacy of various sedative agents - oral, inhalational and intravenous, in children for minor dental procedures
A. B. Joshi1, A. M. Hegde2, M. Gopakumar1 & U. S. Raveendran1
1Pedodontics and Preventive Dentistry, A B Shetty Memorial Institute of Dental Sciences, Nitte University, Mangalore, India, 2Anesthesiology and Critical Care, K S Hegde Medical Academy, Nitte University, Mangalore, India

1720 PR03.25 Dental treatment under general anaesthesia (DGA) among healthy and medically compromised children
V. Anttonen1,2, S. Rankinen1, F. Vanhankulj1,3, S. Koskinen1 & M. L. Laitala1
1Department of Paedodontics, University of Oulu, Medical Faculty, Oulu, Finland, 2Medical Research Center, University Hospital and University of Oulu, Oulu, Finland, 3Oulu University Hospital, Oulu, Finland

1725 PR03.26 Evaluation of pediatric patients’ needs who treated with sedation in the first place: a retrospective research
S. E. Yildiz1, H. M. Görce1, H. Kinaç1, G. Kìp1, & H. Bodur1
1Department of Pediatric Dentistry, Gazi University Faculty of Dentistry, Ankara, Turkey, 2Department of Statistics, Gazi University Faculty of Science, Ankara, Turkey

1730 PR03.27 Child in the dental chair - communicating beyond words
R. Nair1, S. Bridges1 & C. K. Y. Yiu1
1Paediatric Dentistry and Orthodontics, Faculty of Dentistry, Hong Kong University, Hong Kong, Hong Kong, 2Faculty of Education, Hong Kong University, Hong Kong, Hong Kong, 3Paediatric Dentistry, Faculty of Dentistry, Hong Kong University, Hong Kong, Hong Kong

1735 PR03.28 Diurnal bruxism treatment with behavior management: a case report
G. Iran & T. Ulusu
Pediatric Dentistry, Gazi University, Ankara, Turkey

1740 PR03.29 Dental anxiety in Czech pre-schoolers
J. Vasakova1, J. Matusovska1, L. Sebestova1, L. Navarova1 & Z. Broukal2
1Department of Paedodontics, School of Dental Medicine, 1st Faculty of Medicine, Charles University, Prague, Czech Republic, 2Department of Epidemiology and Preventive Dentistry, School of Dental Medicine, 1st Faculty of Medicine, Charles University, Prague, Czech Republic

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1625 PR03.30 DentalVibe injection comfort system versus traditional syringe for palatal local infiltration anesthesia in children
C. Kaya, U. Şeremet Elbay, M. Elbay & C. Uğurlu
Pediatric Dentistry, Kocaeli University
Dentistry Faculty, Kocaeli, Turkey

1630 PR03.31 Comparing dental stress in new child patients and returning patients using salivary cortisol, immunoglobulin-A and alpha-amylase
A. Naddeen1, S. M. Alaki2, A. Sta1 & S. Ouda1
1King Abdulaziz University, Jeddah, Saudi Arabia, 2Pediatric Dentistry, King Abdulaziz University, Jeddah, Saudi Arabia

1635 PR03.32 The increasing rate of autism spectrum disorders and associated factors in Taiwan
C. H. Li1, S. C. Chen1, Y. H. Hsueh2, C. J. Hung1 & K. T. Sun1
1Pediatric Dentistry, China Medical University Hospital, Taichung, Taiwan, Republic of China, 2Department of Endocrinology, Cheng Ching Hospital, Taichung, Taiwan, Republic of China

1640 PR03.33 Acceptability and cognition of dental general anesthesia to parents in Xi’an, China
S. Yuan, F. Liu & X. Wang
Department of Pediatric Dentistry, School of Stomatology, The Fourth Military Medical University, Xi’an, China

1645 PR03.34 Children’s dental disease treatment effect observed under general anesthesia
Y. Zhang, X. Cao, L. Zhu & W. Qin
Pediatric Dentistry, Dalian Stomatological Hospital, Dalian, China

1650 PR03.35 Factors correlated with children’s dental anxiety in Latvia
L. Krūma1, R. Care1 & M. Rascevska2
1Institute of Stomatology, Riga Stradins University, Riga, Latvia, 2Faculty of Education, Psychology and Arts, University of Latvia, Riga, Latvia

1655 PR03.36 Pharmacological versus physical restraint: a clear polarization among Brazilian pediatric dentists
Dental School, Federal University of Goias, Goiânia, Brazil

1660 PR03.37 Assess the relation between the behavior of children in home and in dental clinics
N. Jayavel Pandiyavan
Dept of Paediatric Dentistry, Penang International Dental College, Penang, Malaysia

1665 PR03.38 Prevalence of intra-oral injection fear in children and adolescents. Preliminary results
K. G. Berge1,2, M. L. Agdal1,2 & M. Viik1,2
1Department of Clinical Dentistry, University of Bergen, Bergen, Norway, 2Specialist Oral Health Centre for Western Norway, Bergen, Norway

1670 PR03.39 Dancing tango on teeth and lips - a medical anthropological study on oral care for persons with profound intellectual and multiple disabilities
N. C. Chen1, Y. C. Lee1, S. T. Huang1 & Y. Z. Wang1
1Kaohsiung Medical University, Kaohsiung, Taiwan, Republic of China, 2Division of Special Care Dentistry, Kaohsiung Medical University, Kaohsiung, Taiwan, Republic of China, 3Department of Psychology, Kaohsiung Medical University, Kaohsiung, Taiwan, Republic of China

1675 PR04.01 Gutkha and pan - a threat to our youth
N. Majed1 & A. M. Hegde2
1Middle East Specialised Medical Centre, Abu Dhabi, United Arab Emirates, 2AB Shetty Memorial Institute of Dental Sciences, Mangalore, India

1680 PR04.02 Children’s oral health outcomes after school-based oral health program in Nepal
R. M. Hill, C. Tun & S. M. Hirsch
Global Outreach and International Initiatives, New York University College of Dentistry, New York, NY, United States

1685 PR04.03 Changes in caries prevalence of Isle-of-Islay children 1999-2014
M. Formby1 & R. R. Welbury2
1Remote and Rural Fellow, NHS Education for Scotland, Isle of Islay, United Kingdom, 2Paediatric Dentistry, University of Glasgow, Glasgow, United Kingdom

1690 PR04.04 Wait times for pediatric dental treatment under general anesthesia at three U.S. federally qualified health centers (FQHCs)
T. Vichiyanit1, S. Suchada1, K. Kumthanom2, J. Apisudtisin2, N. Uaewatanasakul3 & Y. Ariyakietsakul3
1Department of Community Dentistry, Mahidol University, Faculty of Dentistry, Bangkok, Thailand, 2Mahidol University, Faculty of Dentistry, Bangkok, Thailand, 3Shetty Memorial Institute of Dental Medicine, Lutheran Medical Center, Brooklyn, NY, United States

1695 PR04.05 Reasons for seeking dental care, caries profile and treatment need of children in Tabuk, KSA
S. A. H. Jafri1 & M. Amri2
1Department of Clinical Dentistry, University of Hong Kong, Hong Kong, Hong Kong, 2Department of Community Dentistry, University of Hong Kong, Hong Kong, Hong Kong

1650 PR04.06 Antley-Bixler-syndrome oral findings, a case report
M. O. Hilali1 & A. M. Sulaman2
1Pediatric, Khartoum University, Khartoum, Sudan, 2Khartoum University, Khartoum, Sudan

1655 PR04.07 The oral health regimes, dental experience and parental perceptions of oral health care of children with special needs
N. N. Longridge1, S. Wulley1, S. Alabd1 & S. J. Spiller2
1Paediatric Dentistry, University of Liverpool, Liverpool, United Kingdom, 2Sutton Dental Practice, Blesmere Port, United Kingdom

1660 PR04.08 The burden of oral disease in children with welfare concerns in Glasgow, Scotland: the work continues
C. M. Park1, L. M. Miller2 & A. M. Cairns2
1Paediatric Dentistry, University of Glasgow, Glasgow, United Kingdom, 2Paediatric Dentistry, Glasgow Dental Hospital and School, Glasgow, United Kingdom

1665 PR04.09 What influence mothers to control children’s sugared snack? An application of theory of planned behaviors
T. Vichiyanit1, S. Suchada1, K. Kumthanom2, J. Apisudtisin2, N. Uaewatanasakul3 & Y. Ariyakietsakul3
1Department of Community Dentistry, Mahidol University, Faculty of Dentistry, Bangkok, Thailand, 2Mahidol University, Faculty of Dentistry, Bangkok, Thailand, 3Shetty Memorial Institute of Dental Medicine, Lutheran Medical Center, Brooklyn, NY, United States

1670 PR04.10 ECC: a disease that is about more than just baby teeth
L. Smith
Pediatrics, University of Calgary, Calgary, AB, Canada

1675 PR04.11 Childhood risk factors for late eruption of permanent teeth
H. M. Wong, S. M. Peng, Y. F. Wen & C. McGrath
University of Hong Kong, Hong Kong, Hong Kong
1605 PR04.25 The perception and practices of nomadic women in a rural community in South Western Nigeria to their children's oral health
O. Bankole¹, F. Lawal² & A. Balogun³
¹School of Dental Sciences, University of Ibadan, Ibadan, Nigeria, ²Periodontology and Community Dentistry, University College Hospital, Ibadan, Nigeria

1610 PR04.27 Prevalence and characteristics of supernumerary teeth in Japanese children and the influences on permanent dentition
H. Homma, M. Miyashima, N. Nagai, A. Tashiro, A. Sakurai & S. Shintani
Department of Pediatric Dentistry, Tokyo Dental College, Tokyo, Japan

1615 PR04.16 Occurrence of variations in morphology of frenum among children of different racial groups
N. Ghimire
Pedodontics and Preventive Dentistry, Kathmandu University School of Medical Sciences, Kavre, Dhulikhel, Nepal

1620 PR04.17 Association of temporomandibular dysfunction signs and the different types of malocclusions in children (6 - 13 years old)
Paediatric Dentistry, De La Salle Bajo University, Faculty of Odontology,Leon, Mexico

1625 PR04.18 Prevalence and correlates of halitosis among adolescents in Debrecen, Hungary
J. A. Nemes¹, M. Papp¹, N. Rácz¹, G. Kováecz², J. Mátír & M. Alberth¹,2
¹Faculty of Dentistry, University of Debrecen, Debrecen, Hungary, ²Institute of Psychology, University of Debrecen, Debrecen, Hungary

1630 PR04.19 Prevalence and associated factors of molar incisor hypomineralisation among schoolchildren in Debrecen, Hungary
G. Kováecz¹, J. A. Nemes¹, J. Mátír¹ & M. Alberth¹
¹Faculty of Dentistry, University of Debrecen, Debrecen, Hungary, ²Institute of Psychology, University of Debrecen, Debrecen, Hungary

1635 PR04.20 Oral conditions in extremely low birth weight children
M. Alberth¹, K. Lampé¹, G. Kováecz¹, J. Mátír¹ & J. A. Nemes¹
¹Faculty of Dentistry, University of Debrecen, Debrecen, Hungary, ²Institute of Psychology, University of Debrecen, Debrecen, Hungary

1640 PR04.21 The relationship between childhood oral habits, dental abnormalities and articulation disorders
N. Rácz¹, B. Baksa¹, I. Pongrácz¹, J. Mátír¹ & M. Alberth¹
¹Faculty of Dentistry, University of Debrecen, Debrecen, Hungary, ²Institute of Psychology, University of Debrecen, Debrecen, Hungary

1645 PR04.22 Childsmile National data linkage birth cohort: Scotland 2003-2012
Community Oral Health, Dental School, College of MLVs, University of Glasgow, Glasgow, United Kingdom

1650 PR04.23 Mother’s immigrant status as indicator for caries among 5-, 7-, 12- and 15-year old children in Denmark: a study based on data from 2006 and 2013
L. B. Christensen¹, K. Rosing¹, 2 & A. Sundby²
¹University of Copenhagen, Copenhagen, Denmark, ²The Child and Youth Oral Health Services of Copenhagen, Copenhagen, Denmark

1655 PR04.24 Dental caries prevalence using icda scores - a call for proper diagnosis
Q. G. Daniciek¹, O. Alader¹ & B. Popoola¹
¹Child Oral Health, University of Ibadan, Ibadan, Nigeria, ²Periodontology and Community Dentistry, University College Hospital, Ibadan, Nigeria

1660 PR04.26 Association between overweight and caries experience among children 5 to 8 years old
F. C. Soares¹, 2, R. A. Lima³, M. V. G. Barros¹, G. Dahlld¾ & V. Colares²
¹Department of Dental Medicine, Karolinska Institute, Stockholm, Sweden, ²Department of Pediatric Dentistry, University of Pernambuco, Recife, Brazil, ³Center for Research in Childhood Health, University of Southern Denmark, Odense, Denmark, ⁴Department of Physical Education, University of Pernambuco, Recife, Brazil

1665 PR04.27 Association between childhood oral habits, dental abnormalities and articulation disorders
N. Rácz¹, B. Baksa¹, I. Pongrácz¹, J. Mátír¹ & M. Alberth¹
¹Faculty of Dentistry, University of Debrecen, Debrecen, Hungary, ²Institute of Psychology, University of Debrecen, Debrecen, Hungary

1670 PR04.28 Factors influencing prevalence of caries in a Chilean preschool population: econometric analysis
R. A. Palacio¹, 2, C. R. Vernazza¹, J. Sherr¹, J. G. Steele¹ & L. Vale³
¹School of Dental Sciences, Newcastle University, Newcastle Upon Tyne, United Kingdom, ²Institute of Health and Society, Newcastle University, Newcastle Upon Tyne, United Kingdom

1675 PR04.29 Challenges for the management of paediatric dental emergencies in major metropolitan urban area: Paris
M. Nasseripour¹, 2 & J. Azerad¹, 2
¹University Paris 5, Paris, France, ²Odontology, Hôpital La Pitié Salpêtrière, Paris, France, ³University Paris 7, Paris, France

1680 PR04.30 Caries prevalence of 15-year old Greek children using the ICIDAS II system. A national pathfinder survey
M. Sifakaki¹, A. Kavadiadis¹, K. Tsindou², E. Berdousis¹, N. Dimou¹ & C. J. Oulis¹
¹Paedodontic, Career Post Graduate Institute of Dental Sciences, Lucknow, India, ²Paedodontics, Saraswati Dental College & Hospital, Lucknow, India

1685 PR04.31 Prevalence of oral habits and its related malocclusion among 6-12 years old school children of Lucknow city, India
N. Khan¹, F. Samadi¹, S. Navit¹, K. Singh¹, N. Singh¹ & N. Shrivastav¹
¹Pedodontics, Career Post Graduate Institute of Dental Sciences, Lucknow, India

1690 PR04.32 Improvement of oral health of low birth weight children
O. O. Denloye¹, O. Alade² & B. Popoola¹
¹School of Dental Sciences, College of MVLS, University of Glasgow, Glasgow, United Kingdom

1695 PR04.33 High birth weight children
O. O. Denloye¹, O. Alade² & B. Popoola¹
¹School of Dental Sciences, College of MVLS, University of Glasgow, Glasgow, United Kingdom

1700 PR04.34 The perception and practices of nomadic women in a rural community in South Western Nigeria to their children's oral health
O. Bankole¹, F. Lawal² & A. Balogun³
¹School of Dental Sciences, University of Ibadan, Ibadan, Nigeria, ²Periodontology and Community Dentistry, University College Hospital, Ibadan, Nigeria

1705 PR04.35 Temporomandibular disorders (TMD) in children: postural alterations as a risk factor
S. Cortes¹, A. Mondello¹, R. Galarza¹, D. Fridman & A. Biondi
Pediatric Dentistry, School of Dentistry, University of Buenos Aires, Buenos Aires, Argentina
1625 PR04.30 Regional disparities and resources used in dental health care among children in China
X. Gu1, S. Houser1, J. Zou1 & X. Zhou1
1State Key Laboratory of Oral Diseases, West China Hospital of Stomatology, Sichuan University, Chengdu, China, 2School of Health Professions, University of Alabama at Birmingham, Birmingham, AL, United States, 3Pediatric Dental Department, State Key Laboratory of Oral Diseases, West China Hospital of Stomatology, Sichuan University, Chengdu, China

1630 PR04.31 Prevalence survey of dental trauma to schoolchildren in Xi’an, China
R. Tang & Q. Guo
Stomatology Hospital of Xi’an Jiaotong University, Xi’an, China

1635 PR04.32 Cases experience of 12-year-old Greek children using ICDAS II criteria. A national pathfinder survey
O. Panagopoulou1, K. Kavvadia1, K. Tsiridou1, E. Berdousis1, N. Dimou1 & C. Oulis1
1Department of Paediatric Dentistry, School of Health Sciences, Faculty of Dentistry, University of Athens, Athens, Greece, 2Department of Computer Science and Biomedical Informatics, University of Thessaly, Thessaly, Greece

1640 PR04.33 Overretained primary teeth in children attending the paediatric dentistry clinic - Bucharest, Romania
P. Luca1, A. Munteanu1, A. M. Bratu1, C. Farcașu1 & T. Farcașu1
1Paediatric Dentistry, Carol Davila University, Bucharest, Romania, 2Orhodontics, Carol Davila University, Bucharest, Romania, 3Prosthetics, Carol Davila University, Bucharest, Romania

1645 PR04.34 Academic performance and athletic activities of Greek schoolchildren with cleft/lip palate: pilot study
G. Vajdouglu1, R. Pitrou1, M. Nasia2 & S. Gizani1
1Department of Pediatric Dentistry and Orthodontics, University of Athens, Athens, Greece, 2Department of Pediatric Dentistry, University of Athens, Athens, Greece, 3Department of Orthodontics, University of Athens, Athens, Greece

1650 PR04.35 Assessing the prevalence of early childhood caries and the associated determinants in children: a cross sectional study in Egypt
R. K. Abou El Fadl1, T. A. El Mokadem1, M. A. Abdel Fattah2 & A. M. El Allam2
1Pediatric Dentistry & Dental Public Health Department, Faculty of Dentistry, Ain Shams University, Cairo, Egypt, 2Dental & Oral Health Department, Ministry of Health and Population, Cairo, Egypt, 3Misr International University, Cairo, Egypt

1655 PR04.36 Prevalence of white spot lesions of teeth in Gifu, Japan
T. Okano, N. Wakamatsu, S. Kuwabara, M. Ito, M. Inuma & Y. Tamura
Department of Pediatric Dentistry, Division of Oral Structure, Function and Development, Asahi University School of Dentistry, Mizuho, Japan

1700 PR04.37 Socioeconomic status and oral conditions related to quality of life
1Paediatric Dentistry, UNICAMP, Piracicaba, Brazil, 2Epidemiological, UofT, Toronto, ON, Canada

1705 PR04.38 Relevance of motor function and oral function in childhood: efficiency of the mouth rinsing function test
T. Asari1, A. Ishizaki1, H. Kwon1, K. Murakami1, A. Tanaka1 & S. Hironaka1
1Department of Special Needs Dentistry, Division of Hygiene and Oral Health, Showa University, Tokyo, Japan, 2Tanaka Dental Clinic, Ibaraki, Japan

1600 PR04.39 Relevance of motor function and oral function in childhood: eating behavior and general development
A. Ogawa1, A. Ishizaki1, H. Kwon1, D. Takagi1, A. Tanaka1 & S. Hironaka1
1Department of Special Needs Dentistry, Division of Hygiene and Oral Health, Showa University, Tokyo, Japan, 2Tanaka Dental Clinic, Ibaraki, Japan

1620 PR04.43 Caries experience in children with cleft lip and palate in Latvia
K. Krasone, R. Care & I. Akota
Riga Stradinis University, Institute of Stomatology, Riga, Latvia

1605 PR04.40 Dental health of 1 to 3-year old children in a large city in northern Poland
E. Nadolska-Gazda & K. Emerich
Department of Paediatric Dentistry, Medical University of Gdansk, Gdansk, Poland

1610 PR04.41 Relevance of motor function and oral function in childhood: association between occlusal force and triceps surae muscle thickness
K. Fuji1, S. Hironaka1, K. Ishikawa1, A. Utsumi1, L. Osaki2 & A. Tanaka2
1Department of Special Needs Dentistry, Division of Hygiene and Oral Health, Showa University, Tokyo, Japan, 2Tanaka Dental Clinic, Ibaraki, Japan

1615 PR04.42 Mothers related risk factors of ECC in very low birth weight children
R. Koberova Ivancakova1, J. Zemankova2, Z. Janovska1, V. Merglova2 & Z. Broukal1
1Paediatric Dentistry, Faculty of Medicine and University Hospital, Charles University Prague, Hradec Královy, Czech Republic, 2Paediatric Dentistry, Faculty of Medicine and University Hospital, Charles University Prague, Hradec Královy, Czech Republic

1645 PR04.48 Oral health of children with Down syndrome in Bosnia and Herzegovina
H. Jurci1, S. Porovićić2, S. Mesihović-Dinarević2 & S. Jurišić2
1Department of Preventive and Paediatric Dentistry, School of Dental Medicine, University of Zagreb, Zagreb, Croatia, 2Paediatric Dental Department, Public Health Centre of Sarajevo Canton, Sarajevo, Bosnia and Herzegovina, 3Paediatric Clinic, University Clinical Centre Sarajevo, Sarajevo, Bosnia and Herzegovina, 4Department of Periodontology, Dental Polyclinic Jurišić, Mostar, Bosnia and Herzegovina

1630 PR04.45 Maternal active smoking and its risk of oral clefts: a meta-analysis
L. Renkai, Z. Xuan, P. Yiran & L. Chenghao
West China School of Stomatology, Sichuan University, Chengdu, China

1635 PR04.46 Incidence and risk factors of traumatic dental injury in preschool: a prospective longitudinal study
S. M. Peláez1, P. Correa-Faria1, M. L. Ramos-Jorge1 & I. A. Pordeus1
1Federal University of Minas Gerais, Belo Horizonte, Brazil, 2Federal University of Jequitrinhonha and Mucuri Valleys, Diamantina, Brazil

1640 PR04.47 Oral and dental health status of children with chronic renal failure (CRF)
S. A. Moussa1 & S. Y. Al-Bauomy2
1Dental Department, Primary Health Care Cooperation, Doha, Qatar, 2Pediatric Dentistry and Oral Public Health, Al A thậm, Cairo, Egypt

1645 PR04.48 Oral health of children with Down syndrome in Bosnia and Herzegovina
H. Jurci1, S. Porovićić2, S. Mesihović-Dinarević2 & S. Jurišić2
1Department of Preventive and Paediatric Dentistry, School of Dental Medicine, University of Zagreb, Zagreb, Croatia, 2Paediatric Dental Department, Public Health Centre of Sarajevo Canton, Sarajevo, Bosnia and Herzegovina, 3Paediatric Clinic, University Clinical Centre Sarajevo, Sarajevo, Bosnia and Herzegovina, 4Department of Periodontology, Dental Polyclinic Jurišić, Mostar, Bosnia and Herzegovina
1650 PR04.49 Parent's knowledge and attitude towards the importance of primary teeth
S. A. Hadjiy1 & A. Salaih1
1Dentistry, Ajman University of Technology and Sience, Dubai, United Arab Emirates, 2Dentistry, Ajman University of Technology and Sience, Ajman, United Arab Emirates

1655 PR04.50 Pattern and prevalence of retained primary teeth at the paediatric dental clinic of the University College Hospital, Ibadan, Nigeria
O. I. Iyun1, O. M. Olaniyel2, O. Ayebamer2 & O. Popcolu3
1Maxillofacial Unit, Ring Road State Hospital, Ibadan, Nigeria, 2Child Oral Health, University College Hospital, Ibadan, Nigeria

1660 PR04.51 Impact of indigenous tooth cleaning and normal tooth brushing habits on caries experience in children S. Pitchai
Public Health Dentistry, Sibir Institute of Dental Sciences, Guuntur, India

1665 PR04.52 Differentiated approach to preventive dentistry programs in children with special needs Y. V. Pakhomova1 & O. G. Arvamova2
1Pediatric Dentistry, Central Research Institute of Dentistry and Maxillofacial Surgery, Moscow, Russian Federation, 2Preventive Dental Care, Central Research Institute of Dentistry and Maxillofacial Surgery, Moscow, Russian Federation

1670 PR04.53 Dental caries in school children at two different Libyan setting: the effects of fluoride level O. W. Greuma1 & A. M. Nasser
Zawia Dental School, University of Zawia, Zawia, Libyan Arab Jamahiriya

1675 PR04.54 The dentition status and treatment needs among children with developmental delay Y. C. Yeh1, H. Y. Liu1, R. S. Tang2, S. Y. Hsiao2 & S. T. Huang3
1Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan, Republic of China, 2School of Dentistry, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung, Taiwan, Republic of China, 3Division of Paediatric Dentistry, Department of Dentistry, Kaohsiung Medical University Hospital, Kaohsiung, Taiwan, Republic of China

1680 PR04.55 Caries experience of 5 year-old Greek children using ICADS II criteria. A national pathfinder survey K. Kavadi1, C. Peppa1, K. Tandou1, E. Berdou1, N. Demou1 & G. Oulis1
1Pediatric Dentistry Department, University of Athens, Dental School, Goudi, Athens, Greece, 2Department of Computer Science and Biomedical Informatics, University of Thessaly, Larissa, Greece

1685 PR04.56 To assess the level of parent’s satisfaction in a dental setting V. Gavara
Pedodontics and Preventive Dentistry, Seema Dental College and Hospital, Dehradun, India

1690 PR04.57 Evaluation of oral health status, practices and treatment needs of children attending special schools S. N. Ambati2 & R. Muppa
Department of Pedodontics & Preventive Dentistry, Parineeya Institute of Dental Sciences and Research Center, Hyderabad, India

1695 PR04.58 Molar incisor hypomineralisation: 3-year follow-up of filling status in permanent first molars P. Wogeli1 & D. Haube2
1Aalborg Municipal Dental Service, Aalborg, Denmark, 2Department of Dentistry, Section for Pediatric Dentistry, Health, Aarhus University, Aarhus, Denmark

1700 PR04.59 Epidemiological study of extrinsic stain and early childhood caries S. Ankita, M. S. Muthu, A. Jean & B. Murugan
Department of Pedodontics and Preventive Dentistry, Faculty of Dental Sciences, Sri Ramachandra University, Chennai, India

1705 PR04.60 Traumatic dental injuries among 3 to 17 year old school children U. A. Nasrul & V. Khandelwal2
1Pedodontics & Preventive Dentistry, NIMS Dental College, NIMS University, Jaipur, India, 2Pedodontics & Preventive Dentistry, Sri Aurobindo College of Dentistry, Indore, India

1710 PR04.61 Molar incisor hypomineralisation in 5 year old children from Peru J. I. Salazar1 & C. G. Barrantes2
1Private Practice, Lima, Peru, 2Pedodontics, Universidad Peruana Cayetano Heredia, Lima, Peru

1715 PR04.62 Children with severe caries may have toothache and need for dental procedures A. Dheer, H. S. G. Rodrigues, G. C. M. Machado, A. P. Mundim, P. S. S. Costa & L. R. Costa
Federal University of Goias, Goiania, Brazil

1720 PR04.63 Indicators of dental morbidity of children in ecologically unfavorable region of Kazakhstan G. Yermukhanova1, R. Nurly2 & M. Kuat3
1Pediatric Dentistry, Kazakh National Medical University after S. Astafydarov, Almaty, Kazakhstan, 2Stomatologic Faculty, Kazakh National Medical University after S. Astafydarov, Almaty, Kazakhstan, 3Mangistau Stomatologic Center, Aktau, Kazakhstan

1725 PR04.64 Adding xylitol to milk as a pediatric caries prevention strategy: factors associated with caries in a school-based randomized clinical trial in Peru A. R. Cabrera Matza1, D. L. Ch2, G. Zegarra1, E. C. Vasquez1, M. C. Roberts2 & D. Haube2
1Academic Department of Dentistry for Children and Adolescents, Universidad Peruana Cayetano Heredia, Lima, Peru, 2School of Washington, Seattle, WA, United States, 3Universidad Alas Peruanas, Arequipa, Peru, 4Universidad Catolica de Santa Maria, Arequipa, Peru
Friday 3rd July, 1130 hours

NuSmile Restorative Case Report Poster Prize

1130 PZ04.01 A novel approach for building-upankylosed primary molars in cases of missing permanent premolars. A case report
K. Chatzidimitriou, N. N. Lygidakis & N. A. Lygidakis
Private Paediatric Dental Clinic, Athens, Greece

1135 PZ04.02 Sonic vibration device to accelerate glass ionomer cement setting in ART technique: a case report
L. Yashibka, T. K. Tedesco, A. F. B. Calvo & O. P. Raggio
Department of Orthodontics and Pedodontics, School of Dentistry, University of Sao Paulo, Sao Paulo, Brazil

1140 PZ04.03 Dental management of a patient with tricho-dento-osseous (TDO) syndrome: a case report
S. Mtiragopoulos, A. Arigropoulos, K. Arapostathis, E. Kotsimiti & N. Kotsianos
1Paediatric Dentistry, Aristotle University of Thessaloniki, Thessaloniki, Greece, 2Prosthodontics Department, Aristotle University of Thessaloniki, Thessaloniki, Greece

1150 PZ04.05 Bonding performance of a self-adhering flowable composite-resin to different deciduous surfaces
F. K. Abdel Gasaw1, M. A. Flash1, R. M. Abdelraouf2 & M. A. Mohammed2
1Pediatric Dentistry and Dental Public Health, Faculty of Oral and Dental Medicine, Cairo University, Giza, Egypt, 2Biomedical Faculty of Oral and Dental Medicine, Cairo University, Giza, Egypt

1155 PZ04.06 Detection of noncavitated occlusal caries with a novel impedance spectroscopy
S. Adguzel, B. Kargij, S. Peker & F. Yankoglu
Marmara University, School of Dentistry, Istanbul, Turkey

1200 PZ04.07 Shear bond strength of two novel dentin replacement materials and glass ionomer cement bonded to two resin composites
W. R. Choudhury & N. Sridhar
Department of Pedodontics & Preventive Dentistry, Manipal College of Dental Sciences, Manipal University, Manipal, India

Jens Andreasen Poster Research Prize

1130 PZ05.02 Combined surgical and restorative management of invasive cervical resorption: a case report
B. Ozgur, H. C. Cehreli
Paediatric Department, Hacettepe University Faculty of Dentistry, Ankara, Turkey

1135 PZ05.03 Multidisciplinary management of a late-referred root fracture
S. Ozcan Cicek, M. Akkoçakoglu & Z. Cehreli
1Department of Paediatric Dentistry, Hacettepe University Faculty of Dentistry, Ankara, Turkey, 2Department of Oral Maxillofacial Surgery, Hacettepe University Faculty of Dentistry, Ankara, Turkey

1140 PZ05.04 Clinical evaluation of composite restorations of traumatized anterior teeth in children: a four-year prospective longitudinal study
C. Sakkas1, L. K. Khommeriko2, N. Bidenko2 & I. Trachuk2
1Private Paediatric Dental Practice, Nicosia, Cyprus, 2Paediatric and Preventive Dentistry, Bogomolov National Medical University, Kiev, Ukraine

1145 PZ05.05 A clinical audit of avulsion injuries to permanent dentition at School Dental Service, Health Promotion Board
C. K. J. Lee1, S. K. X. Chua1, L. Y. H. Lee1, A. X. E. Lim1, W. Lim1 & H. J. Tong1,2
1Faculty of Dentistry, National University of Singapore, Singapore, Singapore, 2School Dental Service, Health Promotion Board, Singapore, Singapore

1150 PZ05.06 Multidisciplinary treatment approach in a complicated crown-root fracture
G. Erbas Unverdi & C. H. Gungor
Pediatric Dentistry, Hacettepe University Faculty of Dentistry, Ankara, Turkey

1155 PZ05.07 A prospective clinical study of regenerative endodontic treatment of traumatised non-vital immature teeth
M. Nazzal1, K. Kenny2, J. Kang3 & M. S. Duggal4
1Pediatric Dentistry, University of Leeds, Leeds, United Kingdom, 2School Dental Service, Health Promotion Board, Nicosia, Cyprus, 3Oral Biology, University of Leeds, Leeds, United Kingdom

1200 PZ05.08 A case of invasion of alveolar bone into the root canal of an avulsed and replanted permanent incisor
H. Al-Bahar & M. Duggal
Department of Paediatric Dentistry, University of Leeds, Leeds, United Kingdom

1205 PZ05.09 Clinical outcomes and survival rates of transplanted permanent teeth in children
J. Diaz, C. Zaror & J. Alejandra
Paediatric Dentistry & Orthodontic Department, Universidad de La Frontera, Temuco, Chile

1210 PZ05.10 Development of a core outcome set for traumatic dental injuries
K. P. Kinyony, M. O.Sharif1 & P. F. Day1,2
1Department of Paediatric Dentistry, School of Dentistry, University of Leeds, Leeds, United Kingdom, 2Department of Orthodontics, Eastman Dental Institute, London, United Kingdom

1215 PZ05.11 Cone beam computed tomography assisted management of intruded maxillary primary incisors
M. S. Muthu1,2, L. Sunderrajan1, M. Thamotharampillai1, F. J. Mohammed2
1Department of Pediatric Dentistry, Faculty of Dental Sciences, Sri Ramachandra University, Chennai, India, 2Pedo Planet, Pediatric Dental Centre, Chennai, India

1220 PZ05.12 Tales of a tooth monster
N. Tewari, N. Singh, S. Singh & S. Gupta
Pedodontics and Preventive Dentistry, BABU Banaras Das College of Dental Sciences, BBD University, Lucknow, India

1225 PZ05.13 Management of crown-root-fractured permanent incisors by multidisciplinary approaches: a case series
L. Wun, R. Fang, S. Li, L. Gao, J. Li & X. Wang
School of Stomatology, Fourth Military Medical University, Xi’an, China

1230 PZ05.14 Legal aspect updates in traumatology: an Italian overview
S. Bernardi1, S. Caruso1, L. D. Fabio2, M. A. Continenza1, R. Gatto1 & R. Docimo1,2
1Department of Life, Health and Environmental Sciences, University of L’Aquila, L’Aquila, Italy, 2Department of Experimental Medicine and Surgery, University of Rome ‘Tor Vergata’, Rome, Italy
1210 PR05.46 Evaluation of dental pulp blood flow in immature maxillary incisors with concussion by Laser Doppler Flowmetry
X. Wang & Z. Tian
Department of Pediatric Dentistry, School of Stomatology, The Fourth Military Medical University, Xi’an, China

1215 PR05.48 Interdisciplinary management of a crown-root fracture in a young permanent incisor: a case report
P. A. Pinho1, A. Vera2, D. Bravo-Cavicchioli3 & M. A. Rojas4
1Department of Pediatric Stomatology, University of Talca, Talca, Chile, 2Department of Pediatric Stomatology and Department of Oral Rehabilitation, University of Talca, Talca, Chile, 3Department of Oral Rehabilitation, University of Talca, Talca, Chile, 4Department of Stomatology, University of Talca, Talca, Chile

1220 PR05.49 Delayed permanent tooth eruption due to the previous trauma and treatment procedure
S. Korun1, A. Islam1, G. Savtekin2, O. A. Öge3 & Ç. Çetiner4
1Pediatric Dentistry, Near East University Faculty of Dentistry, Nicosia, Cyprus, 2Orthodontic, Paris Descartes University, Montrouge, France, 3Odontologie Pediatrique, Paris Descartes University, Montrouge, France, 4Department of Pediatric Dentistry, Dental Polyclinic Zagreb, Zagreb, Croatia

1225 PR05.50 Revascularization of necrotic, immature permanent tooth: a case report
M. E. Guervara Veloso
Pediatric Dentistry, Clique Dentaire Ardentis Veyvey, Veyvey, Switzerland

1230 PR05.51 Multidisciplinary approach in treatment of avulsion of both maxillary central incisors
S. Kardic1, M. Magdalenic Meštrović2 & V. Picek3
1Paediatric Dentistry, Dental Polyclinic Zagreb, Zagreb, Croatia, 2Orthodontics, Dental Polyclinic Zagreb, Zagreb, Croatia

1235 PR05.52 Environment of traumatic dental injuries in children and adolescents treated at the University Medical Centre Ljubljana, Slovenia
V. Polansek & R. Kosem
Dept. of Paediatric and Preventive Dentistry, University Medical Centre, Ljubljana, Slovenia

1240 PR05.53 Orthodontic management of traumatically intruded immature upper permanent incisor
N. Jegat1, A. Chokron2 & A. Kamoun2
1Odontologie Pediatrique, Paris Descartes University, Montrouge, France, 2Orthodontic, Paris Descartes University, Montrouge, France

1245 PR05.54 The role of paediatric dentists in the management of a complex trauma case
S. E. Duranis Pelletier & D. D. Vu
Paediatric Dentistry, CHU Ste-Justine/University of Montreal, Montreal, QC, Canada

1250 PR05.55 Alveolar trauma with dental replantation and alveolar bone maintenance for dental implant positioning. A case report with a 7 year follow-up
L. R. Arzamendi1, S. Ayala1, H. Gomez-Llano2, J. Avelais2 & E. Serena3
1Odontology, CIASALUD UABC, Tijuana, Mexico, 2Odontology, UABC, Tijuana, Mexico, 3Medicine, CIASALUD UABC, Tijuana, Mexico

1255 PR05.56 The use of regenerative endodontic technique for an unusual presentation of non-vital immature permanent incisor
W. Ajmairi & M. Duggal
Paediatric Dentistry, University of Leeds, Leeds, United Kingdom

1260 PR05.57 Molar incisor hypomelinalization: two case reports
L. P. Chen & S. J. Chen
Gung Memorial Hospital, Taipei, Taiwan, Republic of China

1265 PR05.58 Consequences of non-eruption of intruded primary incisors
A. Shmuely Avi & G. Holan
Pediatric Dentistry, Hebrew University-Hadassah School of Dental Medicine, Jerusalem, Israel

1270 PR05.59 Complete root resorption as a consequence of multiple avulsion
N. Ivanic1, J. Jelic1 & R. Grzic2
1Paediatric Dentistry, School of Medicine, University of Rijeka, Rijeka, Croatia, 2Department of Paediatric and Preventive Dentistry, University of Rijeka, Rijeka, Croatia

Orthodontics/craniofacial growth and development

1300 PR06.01 The next big thing in clear aligners therapy
S. Kandil
K Line Europe GmbH, Dortmund, Germany

1305 PR06.02 Association between feeding duration, non-nutritive sucking habits and occlusal characteristics in Chinese children
C. Xiaoyan1, G. Lihong2 & X. Bin2
1Department of Pediatric Dentistry, First Dental Center, Peking University School and Hospital of Stomatology, Beijing, China, 2Department of Pediatric Dentistry, Peking University School and Hospital of Stomatology, Beijing, China

1310 PR06.03 Management of multiple supplemental mesiodens - a multidisciplinary approach
S. R. Cheruj1, D. V. Reddy2 & L. Bune3
1Department of Pedodontics and Preventive Dentistry, Sri Sai College of Dental Surgery, Vikarbad, India, 2Department of Orthodontics, Sri Sai College of Dental Surgery, Vikarbad, India, 3Sri Sai College of Dental Surgery, Vikarbad, India

1315 PR06.05 Management of pre-occlusal tooth eruption with short root
I. Megheri & Z. Cehreli
Paediatric Dentistry, Hacettepe University, Ankara, Turkey

1320 PR06.06 Impact of three different topical agents on enamel demineralization around orthodontic brackets: a clinical study
A.M. Abdelfattah1, S. M. Hammadi1 & A. M. Fouda1
1Pediatric Dentistry, Mansoura University, Mansoura, Egypt, 2Orthodontics, Mansoura University, Mansoura, Egypt

1325 PR06.07 Treatment of adolescent patients with missing permanent teeth and multidisciplinary therapy with implants insertion: 5- year prospective study
Department of Stomatology, Charles University, 2nd Faculty of Medicine and Motol University Hospital, Prague, Czech Republic

1330 PR06.08 Oral communication disorders and oral health status of children in daycare
1Clínica e Odontologia Preventiva, Universidade Federal de Pernambuco, Recife, Brazil, 2Odontologia, Universidade Estadual da Paraíba, Campina Grande, Brazil, 3Faculdade de Odontologia, Universidade de Pernambuco, Camarajibe, Brazil, 4Pós Graduação - Mestrado, Universidade Estadual do Pará, Campina Grande, Brazil
1205 PR06.09 Displaced permanent canines with associated disturbance of primary canines: a case report

M. C. Wang & W. Y. Shih
Taipei Veterans General Hospital, Taipei, Taiwan, Republic of China

1210 PR06.10 Three-dimensional assessment of facial soft-tissue modification in children with crossbite before and after early correction

J. Li, H. Liu, M. Qin, Y. Wang & Y. C. Sun
School and Hospital of Stomatology, Peking University, Beijing, China

1215 PR06.11 Development of sucking function of infants with cleft lip and palate

Y. Sans1, H. Ogura1, T. Kondo1, S. Kondo1, H. Nakahara1 & T. Tamura1
Pediatric Dentistry, Asahi University, Mzuhu City, Japan, 2Clinic of Cleft Lip and Palate, Fujita Health University, Toyoake City, Japan

1220 PR06.12 Using dental age by estimation chronological age in Czech children aged 3 - 18 years

K. Gornalová1, T. Dostalová1 & H. Eliasova1
Department of Stomatology, Charles University, 2nd Faculty of Medicine and Motol University Hospital, Prague, Czech Republic, 3Institut of Criminalistics Prague, Prague, Czech Republic

1225 PR06.13 Maximal interincisal distance in healthy children in Istanbul

F. Seymen1, M. Koruyucu1 & K. Gencay2
Department of Pedodontics, Istanbul University, Istanbul, Turkey, 3Istanbul University, Istanbul, Turkey

1230 PR06.14 Assessment of functional therapy influence on facial proportions

A. Muntean1, A. Mesaroš1, C. Costea1, D. Fesliță1 & M. Mesaroš1
1Pedodontics, Faculty of Medicine and Pharmacy ‘I.Hatagiu’, University of Medicine and Pharmacy ‘I.Hatagiu’, Bucharest, Romania, 2Department of Pediatric Dentistry, School of Dentistry, Faculty of Medicine, University of Medicine and Pharmacy ‘I.Hatagiu’, Bucharest, Romania

1235 PR06.15 3-D image measurements of facial growth in children with thalassaemia

K. Almuhttar1, J. Fearn1 & L. Zou1
1Centre Oral Growth and Development, Paediatric Dentistry, Queen Mary University of London/Barts & The London School of Medicine and Dentistry, London, United Kingdom, 2Clinical Oral Biometric, Queen Mary University of London/Barts & The London School of Medicine and Dentistry, London, United Kingdom

1240 PR06.16 The management of a patient with fibroedysplasia ossificans progressiva suffering from a dental abscess

F. E. Fletcher, S. Thillainathan, S. Parekh & G. Abou-Ameira
Maxillofacial and Dental Department, Great Ormond Street Hospital, London, United Kingdom

1245 PR06.17 An interesting case of an enormous cervicofacial nevofibroma

S. Thillainathan, F. Fletcher & U. Devalia
Great Ormond Street Hospital, London, United Kingdom

1250 PR06.18 The mouth breathing children, their characteristics and the possible relation with their academic performance

R. M. Nogueira1, A. J. Nogueira1, D. B. Correa2 & M. C. Martins2
1Pedodontics, Federal University of Pará, Belém, Brazil, 2Superior School of Amazonia, Belém, Brazil

1255 PR06.19 Modification of overjet and overbite in children with tongue thrusting after cementation of palatal buttons for the reeducation of the tongue

G. C. Carvajal1, M. Aguirre1 & S. S. Parracho2
Clínica Indígena, Santiago, Chile

1210 PR06.20 Early treatment in primary dentition of a class III malocclusion with the trainer (EF Class III): a cases report

G. C. Pimentel1, R. E. Sepulveda1 & F. R. Figueroa2
1Paediatric Dentistry, Universidad de Chile, Santiago, Chile, 2Pontificial Catholic University of Chile, Santiago, Chile

1215 PR06.21 Early orthopedic treatment with fixed appliances

M. G. Casanova Mercado, C. A. Fregoso Guevara, I. A. Verdugo Valenzuela, M. A. Zamudio Gomez, M. E. Torres & M. Salcedo
Pediatric Dentistry, Universidad Autónoma de Baja California, Tijuana, Mexico

1220 PR06.22 The effects of rapid palatal expansion with facemask on permanent successor by finite element analysis

D. H. Kim1, T. J. Shin1, H. H. Son2, S. H. Lee1, C. C. Kim1 & K. T. Jang1
1Department of Pediatric Dentistry, Seoul National University, Seoul, Korea, Republic of, 2Department of Conservative Dentistry, Seoul National University, Seoul, Korea, Republic of

1225 PR06.23 Oral manifestations of twin sisters with pseudohypoparathyroidism type la

N. Isogawa & Y. Baba
Pedodontics and Orthodontics, National Center for Child Health and Development, Tokyo, Japan

1230 PR06.24 Palatal training therapy - a team approach to management of intratable speech disorders

J. Parry1,2, D. Sellers3 & C. Bird4
1Special Care Dentistry, Sussex Community Trust, West Sussex, United Kingdom, 2Royal Alex Children’s Hospital, Brighton, United Kingdom, 3Speech and Language Therapy, Sussex Community Trust, West Sussex, United Kingdom

1235 PR06.25 Influence of adhesives and different methods of enamel pretreatment on the bond strength of orthodontic brackets

H. Jurčić1, S. Jurčić2, G. Jurčić2 & S. Porovic3
1Department of Preventive and Paediatric Dentistry, School of Dental Medicine, Zagreb, Croatia, 2Dental Polyclinic Jurčić, Mostar, Bosnia and Herzegovina, 3Public Health Centre of Sarajevo Canton, Sarajevo, Bosnia and Herzegovina

1240 PR06.26 Occusal characteristics of primary dentition and the prevalence of malocclusion in preschool children

C. Bica1, C. Cosma1, D. Ejian1, R. Gyergyay1, A. Bud1 & K. Mátra1
1Paediatric Dentistry Department, University of Medicine and Pharmacy, Tirgu Mureş, Romania, 2University of Medicine and Pharmacy, Tirgu Mureş, Romania, 3Orthodontic Department, University of Medicine and Pharmacy, Tirgu Mureş, Romania

1245 PR06.27 Planas direct tracks for early anterior crossbite correction

A. M. P. A. Souza, M. F. Oliveira & M. C. S. Rastelli
Odontologia, Universidade Regional de Blumenau, Blumenau, Brazil

1250 PR06.28 Accuracy and reliability of tooth size and arch width measurements using conventional and three-dimensional digital models

T. Yonezu1, A. Arakawa2, A. Tashiro1 & S. Shintani1
1Pediatric Dentistry, Tokyo Dental College, Chiba, Japan, 3D Corporation, Chiba, Japan
1215 PR06.29 Alternative preventive treatment for high-risk maxillary canines impaction
S. Zepeda, K. N. Ramirez, I. A. Verdugo, M. A. Zamudio & C. A. Fregoso
Postgraduate of Pediatric Dentistry, Universidad Autonoma de Baja California, Tijuana, Mexico

1220 PR06.30 Long-term Space changes after premature loss of a primary maxillary first molar
P. C. Tang, Y-T Lin & Y. T. Lin
Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan, Republic of China

1225 PR06.31 Comparative evaluation of OnyxCephtm software and Demirjian method for estimating dental age of 6-13 year-old children
N. Özveren1, S. Özalp1, T. Ünver2 & E. Aytuğar2
1Department of Pediatric Dentistry, Besevitam Vakif University Faculty of Dentistry, Istanbul, Turkey, 2Department of Oral and Maxillofacial Radiology, Besevitam Vakif University Faculty of Dentistry, Istanbul, Turkey

1230 PR06.32 Acute otitis media and the need for myringotomy tubes among paediatric cleft lip and palate patients
V. Lehtonen, R. Lithovius, L. Ylikontiola, V. Anttonen, T. Aulo & V. Harila
Oulu University Hospital and University of Oulu, Oulu, Finland

1235 PR06.33 To keep or not to keep the space following the premature loss of primary molars?
C. Pujade1,2, M. M. Landru1,2 & E. Darnun2
1Paediatric Dentistry, Paris Descartes University, Montrouge, France, 2Paediatric Dentistry, Mondor-Chenevier Hospital Complex, Créteil, France, 3Dental Materials Research Unit, Innovations and Interfaces, Montrouge, France

1240 PR06.34 Prevalence of and relationship between malocclusion and orofacial dysfuction in children and adolescents - an epidemiological study
M. R. D. Cavillo, M. S. Leme & T. S. Barbosa
Department of Pediatric Dentistry, University of Campinas, Piracicaba, Brazil

1245 PR06.35 Alternative and simple technique for prosthodontic oral rehabilitation of patient with dystrophic epidermolysis bullosa: a clinical case report
J. Moran, S. Kramer & M. Valle
University of Chile, Santiago, Chile

1250 PR06.36 Early correction of Classe III malocclusion: a systematic review and case reports
H. Benyaha, W. Rehrhaye, Y. Oualalou & F. Zaoui
Department of Orthodontics, Faculty of Dental Medicine, University Mohammed V, Rabat, Morocco

1255 PR06.37 Simultaneous correction of the posterior unilateral cross bite, anterior open bite and sucking digital habit using a modified hyrax breake
P. Jarj & H. Orrego2
1Ministry of Health, Lima, Peru, 2Universidad Nacional Mayor de San Marcos, Lima, Peru

1255 PR06.38 Stages in third molar development and eruption to estimate 18-year threshold
M. Y. P. Mohd Yusof1,2, R. Cauwels1 & L. Martens1
1Department of Pediatric Dentistry and Special Care, PAKOMICEDS Cluster, Ghent University, Ghent, Belgium, 2Centre of Oral & Maxillofacial Diagnostics and Medicine Studies, Faculty of Dentistry, Universiti Teknologi MARA, Shah Alam, Malaysia

1260 PR06.39 Early treatment of anterior crossbite in children under 3 years: clinical cases
G. Redondo Santiago1, R. Mayné Acien1,2, S. Yuste1,2 & J. Maristany I Vilanova1
1Dr. Maristany Private Practice, Barcelona, Spain, 2Universidad de Barcelona, Barcelona, Spain, 3Universidad internacional de Catalunya, Barcelona, Spain

1265 PR06.40 A longitudinal radiographic study of tooth eruption
L. Mustafa, F. Wong & H. Liversidge
Centre for Oral Growth and Development, Queen Mary University of London, London, United Kingdom

1270 PR06.41 Defining normal eruption in terms of root stage
H. Liversidge
Dental Institute, Queen Mary University of London, London, United Kingdom
1625 PZO1.06 Pre-operative documentation of sleep disordered breathing (SDB) status enquiry for children undergoing dental general anaesthesia (DGA)
M. C. De Souza & M. Harrison
Department of Paediatric Dentistry, Guy’s & St Thomas’s NHS Trust, London, United Kingdom

1630 PZO2.01 Audit of frequency and type of splints already placed on Patients that attend with a dental trauma on paediatric dentistry casualty
L. Archer & L. A. E. Burridge
Child Dental Health, Newcastle Dental Hospital, Newcastle, United Kingdom

1635 PZO2.02 Kinder wide smiles
A. Mason, L. Mayze, E. Vo, S. Sharp & M. Smith
Oral Health Services, Barwon Health, Newcomb, VIC, Australia

1640 PZO2.03 Dental morbidity among early childhood children left without parents’ care and children living with parents in Moscow
K. Miloserdova, L. Kiseinikova, O. Zaytseva & E. Krillova
MSUMD, Moscow, Russian Federation

1645 PZO2.04 Preventive care offered to an adolescent accessing public oral health services in NSW Australia
A. V. Mesen*, A. S. Blinkhorn*, J. Taylor & F. A. Blinkhorn*
*Faculty of Health and Medicine, School of Health Sciences, Oral Health Discipline, The University of Newcastle, Newcastle, Australia

1650 PZO2.05 An overview of a volunteer student placement oral health promotion project: saving smiles in Soe
L. Wallace & J. Taylor
Oral Health, University of Newcastle, Ourimbah, NSW, Australia, Oral Health, University of Newcastle, Ourimbah, NSW, Australia

1655 PZO2.06 Topical fluoride postcode lottery; who’s the winner?
C. Bower, V. Wilson, L. Mclean, T. Brookhead, Z. Marshman & H. Zaltoun
1Paediatric Dentistry, Charles Clifford Dental Services, Sheffield, United Kingdom, 2School of Clinical Dentistry, University of Sheffield, Sheffield, United Kingdom

1660 PZO2.07 Children’s views on fluoride varnish application by extended-duty dental nurses in a non-dental setting
A. L. Wickers*, A. Aljaffari & M. T. Hoosey
1Paediatric Dentistry, King’s College Hospital, London, United Kingdom, 2Paediatric Dentistry, King’s College Hospital, London, United Kingdom

1705 PZO2.08 Management of carious primary incisors in preschool children based on ICCMS philosophy
L. D. Bassi & J. M. Fearne
Paediatric Dentistry, Bart’s Health NHS Trust, Royal London Dental Institute, London, United Kingdom

1710 PZO2.09 Paediatric dentistry oral and intravenous sedation service evaluation: how are we doing?
A. Borkowska, R. Barnard, A. Wickers, F. Roberts & L. Lourenço-Matharu
Paediatric Dentistry, Dental Institute, King’s College London, London, United Kingdom

1600 PR08-1.01 Patient-reported outcomes for pre-formed metal crowns: a dental therapist-led audit
J. Cowjam*, E. Gupta, F. Gilchrist & H. D. Rodd
1Paediatric Dentistry, Charles Clifford Dental Hospital, Sheffield, United Kingdom, 2Oral Health and Development, University of Sheffield, Sheffield, United Kingdom

1605 PR08-1.02 Short-term outcome of endodontically treated permanent teeth in a paediatric population
P. T. Clarke*, N. Longridge, A. Jones & S. Albadri
1Restorative, Liverpool Dental Hospital, Liverpool, United Kingdom, 2Maxillofacial Dept, Alder Hey Children’s Hospital, Liverpool, United Kingdom, 3Paediatrics, Liverpool Dental Hospital, Liverpool, United Kingdom

1610 PR08-1.03 Partial pulpotomy of two carious primary molars using bioactive tricalcium silicates as a pulp dressing material. A Case report
Pediatric Dentistry Dept. Faculty of Dentistry, Anhans University, Cairo, Egypt

1615 PR08-1.04 Evaluation of the mechanical properties of a newer universal flowable composite for applications in pediatric restorative dentistry
R. G. Utreja & C. Bhat
Department of Pediatric and Preventive Dentistry, Bharati Vidyapeeth Dental College and Hospital, Pune, India

1620 PR08-1.05 Bleaching of traumatized discolored anterior tooth using walking bleach technique
A. Islam, S. Korun, H. Tunç & S. Çetiner
Paediatric Dentistry Department, Dentistry Faculty of Near East University, Nicosia / Northern Cyprus, Cyprus
PR08-1.06 Color changes of S-PRG tooth-coating material “Barrier Coat” applied on white spot lesion in primary tooth enamels: in vitro and clinical studies
Y. Honda1,2, H. Otani2, M. Miyazaki1 & F. García-Acevedo1
1Department of Operative Dentistry, Niho University School of Dentistry, Tokyo, Japan, 2Division of Pediatric Dentistry, Department of Oral Health and Development Sciences, Tohoku University Graduate School of Dentistry, Sendai, Japan, 3Otani Dental Clinic, Nayoro, Japan, 4Department of Bioscience Research, University of Tennessee Health Science Center, College of Dentistry, Memphis, TN, United States

PR08-1.07 Microleakage and dentine surface after chemomechanical caries removal versus drilling
K. Kitsawhong1, A. L. Seminario2, P. Pungchanachai1, A. Rattanachaorenthum1 & W. Pitiha1
1Department of Pediatric Dentistry, Khon Kaen University, Khon Kaen, Thailand, 2Department of Pediatric Dentistry, University of Washington, Seattle, WA, United States, 3Department of Community Dentistry, Khon Kaen University, Khon Kaen, Thailand

PR08-1.08 In vitro evaluation of the antibacterial effect of various agents and systems used for cavity disinfection
O. Bayou1, I. Eredmer2, G. Bayramoglu3, R. Akoy4 & T. Tuzuner5
1Department of Paediatric Dentistry, Karadeniz Technical University, Trabzon, Turkey, 2Department of Paediatic Dentistry, RTE University, Rize, Turkey, 3Microbiology, Faculty of Medicine, Karadeniz Technical University, Trabzon, Turkey

PR08-1.09 Effectiveness of gingival retraction methods: a systematic review
S. Tabassum
Dentistry, Aga Khan University Hospital, Karachi, Pakistan

PR08-1.11 The effect of chlorhexidine 2% application on shear bond strength of different dentin adhesives in deciduous teeth: an in vitro study
E. Faridkh Gisoure
Pediatric Dentistry, Kerman Dental Faculty, Kerman, Iran, Islamic Republic of Iran

PR08-1.12 Dental treatment of patients with hemophilia A: a case report
National Taiwan University, Taipei, Taiwan, Republic of China

PR08-1.13 Development of radio-opaque resin for white spot lesion
M. Moeinian1, F. Wong1, R. Hill2, J. Darr2 & D. Clement1
1Qmul, London, United Kingdom, 2UCL, London, United Kingdom

PR08-1.14 Comparative clinical of adhesives systems used in primary teeth
A. M. Ortodiani, S. G. Cortese & A. M. Biondi
1Department of Pediatric Dentistry, University of Buenos Aires, Buenos Aires, Argentina

PR08-1.15 Caries experience and treatment of children with special health care needs (CSHCN)
K. Bührer, K. Rothmaier, V. Pitchika, R. Hickel & J. Königsherr
Kinder- und Jugendbehandlung, Poliklinik für Zahnheilkunde und Parodontologie Klinikum der Universität München, München, Germany

PR08-1.16 Comparison of morphology of Taiwanese lower primary molars with related stainless steel crowns
T. T. Chan1 & H. H. Tsai2
1Dentistry Department, Mackay Memorial Hospital, Taipei, Taiwan, 2School of Oral Hygiene, Taipei Medical University, Taipei, Taiwan, Republic of China

PR08-1.17 Minimal invasive potential of three caries excavation methods in children
M. K. Zave1, S. B. Eltwifi2, S. A. Mahmoud1 & S. A. Abdelmonem2
1Oral Radiology Department, Faculty of Oral and Dental Medicine, Cairo University, Cairo, Egypt, 2Pediatric Dentistry and Dental Public Health, Faculty of Oral and Dental Medicine, Cairo University, Cairo, Egypt

PR08-1.18 Shear bond strength and microleakage of a sealant containing S-PRG filler (BeautiSealant)
H. Seo & J. An
Department of Pediatric Dentistry, Gangneung-Wonju National University, Gangneung, Korea, Republic of

PR08-1.19 Could mini-head hand-piece optimize operator’s convenience & patients’ behavior in minimally invasive procedures?
M. Rashed, D. Mohab & S. Awad
Pediatric Dentistry and Dental Public Health Department, Faculty of Oral and Dental Medicine, Cairo University, Cairo, Egypt

PR08-1.20 Revascularisation of immature permanent teeth: 9-month follow-up
E. Karakaya, B. N. Çelik & H. Sönmez
Pediatric Dentistry, Kerman Dental Facult, Kerman, Iran, Islamic Republic of

PR08-1.21 Comparative evaluation of the effect of 10% a-tocopherol solution and 5% grape seed extract on the micro hardness and shear bond strength of bleached dentin
C. Singh & M. Srivastava
Pedodontics and Preventive Dentistry, KD Dental College and Hospital, Mathura, India

PR08-1.22 Histologic evaluation of the short term response of primary dental pulp to a biodegradable propolis preparation. An experimental study on dogs
A. N. Abd El-Latif1, M. A. Matar2, G. M. Mahmoud3 & G. F. Balata4
1Oral Pathology, Pharos University in Alexandria, Alexandria, Egypt, 2Pediatric Dentistry, Pharos University in Alexandria, Alexandria, Egypt, 3Pediatric Dentistry, 6th October University for Modern Science and Arts, Cairo, Egypt, 4Department of Pharmaceutics, Faculty of Pharmacy, Zagazig, Egypt

PR08-1.23 Revitalisation of previously traumatized root-filled incisors: 24-month follow-up
G. Atasayev & Z. Cehrai
Department of Pediatric Dentistry, Faculty of Dentistry, Hacettepe University, Ankara, Turkey

PR08-1.24 Obtaining exfoliated teeth for research purposes: a feasibility study
C. Warner, T. Broomhead & H. D. Rodd
School of Clinical Dentistry, University of Sheffield, Sheffield, United Kingdom

PR08-1.25 Cytotoxicity and regenerative potential of three different tricalcium silicate-based cements
K. C. Huth, K. Broos, S. Kist, R. Hickel & M. Kolmuss
Department of Restorative Dentistry & Periodontology, University of Munich, Munich, Germany

PR08-1.26 A comparative study of Biodentine™ and MTA Angelus on adhesion of human periodontal ligament fibroblasts
A. Alcaína1, O. Cortés1, M. Catalá1, S. Guzmán1 & M. D. Austro1
1Pediatric Dentistry, University of Murcia, Murcia, Spain, 2Pediatric Dentistry, University of Valencia, Valencia, Spain, 3University of Murcia, Murcia, Spain
PR08-1.50 Oral rehabilitation in pediatric dentistry patient


1Bahia School of Medicine and Public Health, Salvador Bahia, Brazil, 2Saudes I, University Southwest of Bahia, Jequie, Brazil

PR08-1.51 An audit of general dental practitioner registration for patients in the department of paediatric dentistry

M. G. Altenbruyn, C. R. Vernazza

1Department of Paedodontics, University of Oulu, Oulu, Finland, 2Medical Research Center Oulu, Oulu, Finland, 3Oulu University Hospital, University of Oulu, Oulu, Finland

PR09.05 Social science research (including quality of life)

PR09.01 Impact of dental caries and its treatment on the quality of life of 12-15-year old adolescents in Benin, Nigeria

N. M. Chukwurah1, M. O. Fokoyan2, E. G. O. Ogbechie1 A. A. Unwani1

1Department of Preventive Dentistry, University of Benin Teaching Hospital, Benin City, Nigeria, 2Child Dental Health, Obari, Awolowo University, Ile-Ife, Nigeria

PR09.02 A comparative study of oral health status and oral health related quality of life in children with autism

S. Alad1, J. Khairi1, E. A. Al-Ashiry1

1Pediatric Dentistry, King Abdulaziz University, Jeddah, Saudi Arabia, 2King Abdulaziz University, Jeddah, Saudi Arabia

PR09.03 Can mHealth dental Apps help disadvantaged parents establish children's oral hygiene routines?

L. L. Jones, K. K. Preston

Psychology, Massey University, Wellington, New Zealand

PR09.04 Pain behaviour among children with juvenile idiopathic arthritis (JIA) and oro-facial pain

E. Leiksell1, M. E. Etberg2, B. Hedinberg-Magnusson3, B. Magnusson4, J. Hallberg5

1Pediatric Dentistry, Umea University Hospital, Umea, Sweden, 2Pediatric Dentistry, Blekinge Centre of Competence, Karlskrona, Sweden, 3Dental Medicine, Karolinska Institute, Stockholm, Sweden, 4Oral Physiology, Folketandvarden, Stockholm, Sweden, 5Paediatric Rheumatology Unit, Karolinska University Hospital, Stockholm, Sweden, 6Nordic School of Public Health, Goeteborg, Sweden

PR09.05 They care, we treasured - multi-win pattern of oral care of Aboriginal children in remote area

R. S. Tung1, V. T. Lin2, A. H. Shun-Tei2

1Kochiang Medical University, College of Dentistry, Kochiunng, Taiwan, Republic of China, 2Baby Tooth Family Dental Clinic, Kochiunng, Taiwan, Republic of China

PR09.06 Oral health condition of preschool children liver transplant candidates and its impact on oral health related quality of life (OHRQoL) - a pilot study

E. A. Vidoraga, J. Abanto, F. A. Alves, M. Böneckert

Paediatric Dentistry, University of Sao Paulo, Sao Paulo, Brazil

PR09.07 Quality of life of Brazilian children with cleft lip and palate

A. F. P. Pereira,1 M. Fazoir2, T. C. Silva2, D. Fus, M. A. M. Machado1, T. M. Okei1

1Hospital for Rehabilitation of Craniofacial Anomalies, University of Sao Paulo, Bauru, Brazil, 2Department of Paediatric Dentistry, Orthodontics and Public Health, University of Sao Paulo/Bauru School of Dentistry, Bauru, Brazil

PR09.08 Interprofessional study of oral health in primary care

A. Nowak1, J. Silverman2 & L. Mitchell-Rotston1

1AAPD Policy and Research Center Oral Health Policy Center, Chicago, IL, United States, 2AAPD Policy and Research Center, Chicago, IL, United States

PR09.09 Family related factors of children treated under dental general anaesthesia (DGA) - a pilot survey

P. Rajavara1, R. L. Alatala1 & V. Anttonen1

1Department of Paedodontics, University of Oulu, Institute of Dentistry, Oulu, Finland, 2Municipal Health Center, Oulu, Finland, 3Medical Research Center, Oulu University Hospital and University of Oulu, Oulu, Finland

PR09.10 The contribution for life quality of a social-educative programme

J. S. Moreira-Jr1, L. V. S. Martino1 & E. M. Chagas-Cristato1

1Health, Social Service of the Commerce, Sao Paulo, Brazil, 2Odontologia Social, Universidade de Sao Paulo, Sao Paulo, Brazil

PR09.11 Patient with ectodermal dysplasia: how to improve their quality of life from childhood to adolescence?

A. J. López1, M. Adarero2, V. Gómez3, M. Ernberg3, E. Leksell1,2, M. H. Abreu2 & F. Gilchrist1 & Z. Marshman5

1Pediatric Dentistry, King Abdulaziz University, Jeddah, Saudi Arabia, 2King Abdulaziz University, Jeddah, Saudi Arabia, 3Department of Paediatric Dentistry, Charles Clifford Dental Hospital, Sheffield, United Kingdom, 4Academic Unit of Dental Public Health, University of Sheffield, Sheffield, United Kingdom

PR09.12 Quality of life of preschoolers in Lagos, Nigeria

C. L. Nzomiwu1, E. O. Sote2

1Department of Paedodontics, Institute of Dentistry, Charles Clifford Dental Hospital, Lagos, Nigeria, 2Child Dental Health, Lagos University Teaching Hospital, Lagos, Nigeria

PR09.13 Does obesity increase risk of dental caries? Cross-sectional study at Taif University

M. Abdel Wahab

Taif University, Taif, Saudi Arabia

PR09.14 Pattern of presentation of common oral conditions and their impact on quality of life of preschoolers in Lagos, Nigeria

O. L. Nnorwuh1, E. O. Sote2 & F. A. Oredugba3

1Child Dental Health, Lagos University Teaching Hospital, Lagos, Nigeria, 2Child Dental Health, College of Medicine, University of Lagos, Lagos, Nigeria

PR09.15 Sublingual administration of atropine eye drops in children with excessive drooling

M. Bilquisud

Linkoping University, Nornköping, Sweden
**Saturday 4th July, 1130 hours**

**Periodontology/microbiology**

1130 PR07.01 Aggressive periodontitis in a 5-year old child without any systemic diseases
M. Haghifan
Paediatric Dentistry, Zanjan University of Medical Sciences, Zanjan, Iran, Islamic Republic of

1135 PR07.02 Early loss of primary teeth as the presenting feature of hypophosphatasia
R. Power1, R. John2 & C. Burren3
1Department of Paediatric Dentistry, Bristol Dental Hospital, Bristol, United Kingdom,
2Department of Paediatric Dentistry, University of Bristol, Bristol, United Kingdom,
3Department of Paediatric Endocrinology and Diabetes, Bristol Royal Hospital for Children, Bristol, United Kingdom

1140 PR07.03 Comparison of Streptococcus mutans in saliva before and after dentalcaries filling with resin-based composite
L. Fang, Y. Liu, R. Yang & J. Zou
West China College of Stomatology, Sichuan University, Chengdu, China

1145 PR07.04 Oral microbiome analysis in children with colored dental biofilms
Department of Pediatric Dentistry, Tokyo Dental College, Tokyo, Japan

1150 PR07.05 Potential role of MMP-13, MMP-12 and ameloblastin in a new type of gingival fibromatosis
G. Kang, J. H. Lee, J. S. Song & S. O. Kim
Department of Pediatric Dentistry, College of Dentistry, Yonsei University, Seoul, Korea, Republic of

1155 PR07.06 Generalised aggressive periodontitis in the primary dentition: a case report
G. Zhang, R. Yang & J. Zou
Department of Pediatric Dentistry, West China School of Stomatognathic, Sichuan University, Chengdu, China

1200 PR07.07 Effect of ozone on bacteria related to early childhood caries
M. X. Porte1, M. Cardoso1, R. Arnold1, L. A. Pimenta1 & R. Vieira1
1Pediatric Dentistry, Universidade Federal de Santa Catarina, Florianópolis, Brazil,
2University of North Carolina, Chapel Hill, NC, United States,
3Craniofacial, University of North Carolina, Chapel Hill, NC, United States

1205 PR07.08 Acute necrotizing ulcerative gingivitis in primary denture: a proposal of treatment
M. Marty1,2, F. Vaysse1,2 & I. Balleu-Forestier1,2
1Pediatric Dentistry, Toulouse Dental School, Toulouse, France,
2University Hospital Toulouse, Toulouse, France

1210 PR07.09 Agreement of two molecular methods for the oral anaerobes detection in children
P. Pantuckova1, M. Bartosova1, Z. Broukal1, M. Kukelova1 & L. I. Holla1,3
1Clinic of Stomatognathic, St. Anne’s Faculty Hospital, Faculty of Medicine, Masaryk University, Brno, Czech Republic,
2School of Dental Medicine, Charles University in Prague, the 1st Faculty of Medicine, Prague, Czech Republic,
3Department of Pathophysiology, Faculty of Medicine, Masaryk University, Brno, Czech Republic

1215 PR07.10 The metagenome analysis of salivary microflora in Japanese children with early childhood caries
T. Fujisawa, K. Satoh & T. Hoshino
Department of Pediatric Dentistry, Nagasaki University Graduate School of Biomedical Sciences, Nagasaki, Japan

1220 PR07.11 A case of advanced periodontitis with palmo-plantar keratoderma and its 3-year comprehensive management
M. Liu, Y. Chen & S. Li
Sichuan University, Chengdu, China

1225 PR07.12 Antibacterial effect of ozone water on periodontopathogens in vitro
Q. Shi & G. X. Jia
1Pediatric Dentistry, Capital Medical University School of Stomatognathic, Beijing, China,
2Beijing Childrens Hospital, Beijing, China

1230 PR07.13 Evaluation of effects of four combinations of root canal irrigants on microflora in the infected root canals of primary teeth: an in vivo study
R. Yang, L. Tang & J. Zou
Pediatric Dentistry, West China College of Stomatognathic, Sichuan University, Chengdu, China

1235 PR07.14 Analysis of effectiveness of triterpenoid compounds for prevention of dental caries
C. Mitsuhashi1, N. Tatsukawa1, Y. Chihara1, Y. Iwamoto1 & K. Kozai1
1Pediatric Dentistry, Hiroshima University, Hiroshima, Japan, 2Pediatric Dentistry, Hiroshima University Hospital, Hiroshima, Japan

1240 PR07.15 Role of glucan-binding domain of GbpC in biofilm formation by Streptococcus mutans
Y. Takashima, Y. Morikawa, K. Fujita & M. Matsumoto-Nakano
1Pediatric Dentistry, West China College of Stomatognathic, Sichuan University, Chengdu, China

1245 PR07.16 Assessment of gingival thickness in children
D. Chaurani1, S. M. Dridi1,2, C. Joseph1 & E. Dursun1,2
1Paediatric Dentistry, Paris Descartes University, Montrouge, France,
2Paediatric Dentistry, Montoro-Chateneuve Hospital Complex, Créteil, France,
3Periodontology, Paris Descartes University, Montrouge, France,
4Periodontology, Montoro-Chenevier Hospital Complex, Créteil, France,
5Paediatric Dentistry, Nice Sophia Antipolis, Nice, France

**Oral surgery/oral medicine/oral pathology**

1130 PR10.01 Role of Er, Cr: YSGG lasers in pediatric dentistry
G. Kumar
Pediatric Dentistry, Maulana Azad Institute of Dental Sciences, Delhi, India

1135 PR10.02 Management of dystrophic epidermolysis bullosa: a rare case report
F. A. Alomari1 & A. A. Dawasaz2
1Oral & Maxillofacial Surgery, King Faisal Medical City, Abha, Saudi Arabia,
2King Khalid University, Abha, Saudi Arabia

1140 PR10.03 Conservative treatment of dentigerous cyst associated with primary molars
Y. Yang, M. Qin, X. Wang & Y. Li
Pediatric Dentistry, Peking University School of Stomatognathic, Beijing, China

1145 PR10.04 Recovery of dentigerous cysts in two pediatric patients following decompression by a modified space maintainer
B. Sirinoglu Capan1, G. Gocmen2, H. Gunes1 & K. Goker1
1Department of Pediatric Dentistry, Faculty of Dentistry, Marmara University, Istanbul, Turkey,
2Department of Oral and Maxillofacial Surgery, Faculty of Dentistry, Marmara University, Istanbul, Turkey
1150 PR10.05 Nationwide survey of dental problems in patients with osteogenesis imperfecta
R. Okawa, K. Saga & K. Nakano
Department of Pediatric Dentistry, Osaka University Graduate School of Dentistry, Osaka, Japan

1155 PR10.06 Dental management of patients with type I spinal muscular atrophy
J. C. Hassi, R. Jara & S. Hola
School of Dental Medicine, Medicine Faculty, Pontificia Universidad Católica de Chile, Santiago, Chile

1200 PR10.07 Management of a jaw cyst on a paediatric patient with alpha-mannosidosis: a case report
R. Adamji & L. Brown
St George's Hospital, London, United Kingdom, 3Paediatric Dentistry, Charles Clifford Dental Hospital, Sheffield, United Kingdom

1205 PR10.08 Regional odontodysplasia: a case report
S. Parmar, N. Bhujel, C. Williams, J. Johnson & M. Champion
1Paediatric Dentistry, Guy’s and St. Thomas’ NHS Trust, London, United Kingdom, 2Paediatric Metabolic Department, Evelina Children’s Hospital, London, United Kingdom

1210 PR10.09 Compliance with UK national guidelines for the oral management of oncology patients
J. R. Bailey, L. Gartshore, G. T. Yessoufoun & S. Carew O’Donnell
1St George’s Hospital, London, United Kingdom, 2King’s College London Dental Institute, London, United Kingdom

1215 PR10.10 Juvenile ossifying fibroma: presentation in two paediatric patients
L. Thorne, L. Martin & P. M. Speight
Oral and Maxillofacial Pathology, Charles Clifford Dental Hospital, Sheffield, United Kingdom

1220 PR10.11 Dental treatment patients with bleeding disorders-prospective study
K. Chlieborad, J. Papez, T. Dostalova & V. Kromnik
1Department of Stomatology, 2nd Faculty of Medicine Charles University in Prague, Prague, Czech Republic, 2Department of Paediatric Hematology and Oncology, 2nd Faculty of Medicine Charles University in Prague, Prague, Czech Republic

1225 PR10.12 An unusual case of pathological primary tooth mobility
R. Freeman & E. Hingston
Department of Child Dental Health, University Dental Hospital Cardiff, Cardiff, United Kingdom

1230 PR10.13 Management of tooth extraction presenting in a patient with severe haemophilia A
J. Papez, K. Chlieborad, T. Dostalova & V. Kromnik
1Department of Stomatology, 2nd Faculty of Medicine Charles University in Prague, Prague, Czech Republic, 2Department of Paediatric Hematology and Oncology, 2nd Faculty of Medicine Charles University in Prague, Prague, Czech Republic

F. Bingy, K. Chatzidimitriou, C. Matisiouda, K. Tosios & P. Christopoulos
1Department of Paediatric Dentistry, Charles Clifford Dental Hospital, Sheffield, United Kingdom, 2Paediatric Dentistry, Harrogate and District Foundation Trust, Harrogate, United Kingdom, 3Unit of Oral Health & Development, School of Clinical Dentistry, University of Sheffield, Sheffield, United Kingdom

1240 PR10.15 Extraoral lesion evaluation in patient with acute lymphoblastic leukaemia
1Pediatric Oncology, Faculdade Medicina ABC, Santo André, Brazil, 2Servicio de Odontologia, Hospital Estadual Mario Covas, Santo André, Brazil, 3Pediatrics, Universidade Federal de São Paulo, São Paulo, Brazil

1245 PR10.16 Benign cementoblastoma - a rare case report in a young child
T. Sangeta, G. Babu Kadakagere
Lakshmna & P. Subramaniam
Department of Pedodontics and Preventive Dentistry, The Oxford Dental College and Hospital, Bangalore, India

1250 PR10.17 An 18 months review of paediatric oral biopsies at the Dental Centre, Lagos University Teaching Hospital, Lagos, Nigeria
A. S. Aderakai, F. A. Credugba, M. O. Ashiwaju, O. A. Effionm & M. O. Gbotalorum
1Child Dental Health, Lagos University Teaching Hospital, Lagos, Nigeria, 2Oral Pathology and Oral Biology, Lagos University Teaching Hospital, Lagos, Nigeria, 3Oral and Maxillofacial Surgery, Lagos University Teaching Hospital, Lagos, Nigeria

1255 PR10.18 A retrospective study of biopsied oral lesions in Thai pediatric patients
V. Veeramukul
Department of Oral Pathology, Chulalongkorn University, Bangkok, Thailand

1260 PR10.19 A review of three cases to demonstrate the value of coronectomy in reducing postoperative neuropathy in the management of “high risk” mandibular teeth
S. Marshall, C. Bryant & M. Akhuwala
1Paediatric Dentistry, King’s College Hospital, London, United Kingdom, 2Oral Surgery, King’s College Hospital, London, United Kingdom

1335 PR10.20 Use of diaries to identify the impact of recurrent aphthous ulceration in children
H. Zaltoun, H. Rogers & Z. Marshman
1Paediatric Dentistry Unit, Charles Clifford Dental Services, Sheffield, United Kingdom, 2School of Clinical Dentistry, University of Sheffield, Sheffield, United Kingdom

1340 PR10.21 A case of eruption of the impacted first molar associated with the compound odontoma in mandible
Y. Shimada, K. Sonobe, R. Umezawa, Y. Endo, H. Fese & K. Mehima
1Pediatric Dentistry, School of Dentistry, Showa University, Tokyo, Japan, 2Sonobe Clinic, Tokyo, Japan, 3Umezawa Clinic, Tokyo, Japan, 4Division of Pathology, Department of Oral Diagnostic Sciences, Showa University, Tokyo, Japan

1345 PR10.22 Severe external root resorption in a 13 year old boy with primary hyperoxyluria
B. Patel, A. Casaua, C. Brown & V. Clark
1Paediatric Dentistry, Birmingham Dental Hospital, Birmingham, United Kingdom, 2Birmingham Children’s Hospital, Birmingham, United Kingdom

1350 PR10.24 Oral & maxillofacial pathological lesions in children managed at the Department of Paediatric Dentistry Kuala Lumpur Hospital
N. N. N. Yusuf, J. M. Sharif, N. M. Arefin
1Paediatric Dentistry, Kuala Lumpur Hospital, Kuala Lumpur, Malaysia, 2Paediatric Dentistry Unit, Department of Restorative Dentistry, National University of Malaysia, Kuala Lumpur, Malaysia

1355 PR10.25 A preventive approach to two non-syndromic pediatric patients with oral self-mutilation
F. Karalidou, D. Akyo Kotan, A. Alacağm & N. Öztaş
Paediatric Dentistry, Gazi University, Ankara, Turkey
1200 PR10.26 Ameloblastic fibro-odontoma: a case report
H. H. Chiappi, Y. F. Wu & S. S. Siesin1,2,4
1Department of Pediatric Dentistry, China Medical University Hospital, Taichung, Taiwan, Republic of China, 2Departments of Oral & Maxillofacial Surgery, China Medical University Hospital, Taichung, Taiwan, Republic of China, 3Department of Oral Pathology, China Medical University Hospital, Taichung, Taiwan, Republic of China, 4Department of Law, National Chung Hsing University, Taichung, Taiwan, Republic of China

1220 PR10.30 Compound odontoma and delay eruption of mandibular right 1st permanent molar in a seven-year-old boy
C. W. Yen1, M. H. Sheen1,2, S. T. Huang1,2 & S. Y. Hsiao3
1Department of Oral Hygiene, College of Dental Medicine, Kaohsiung Medical University, Kaohsiung City, Taiwan, Republic of China, 2Division of Paediatric Dentistry, Department of Dentistry, Kaohsiung Medical University Hospital, Kaohsiung City, Taiwan, Republic of China

1225 PR10.31 Melanotic neuro-ectodermal tumor of infancy
S. Namini2 & G. K. Velagapudi2
1Pediatric Dentistry, Rainbow Hospital for Women and Children, Hyderabad, India, 2Rainbow Hospital for Women and Children, Hyderabad, India

1220 PR10.32 Acquired toxoplasmosis of a cervical lymph node in a seven-year-old boy: a case report
P. A. Foo & M. Dhillon
Oral and Maxillofacial Surgery, Aberdeen Royal Infirmary, Aberdeen, United Kingdom

1225 PR10.33 Long term effects of radiation therapy and chemotherapy in tooth formation and development. A case series report
S. Papagiou, O. Panagiotou, G. Panagoulou, K. Tsouaiki & K. Kavadias
Paediatric Dentistry, National and Kapodistrian University of Athens, Athens, Greece

1240 PR10.34 Clinical and pathohistological profiles of chronic odontogenic infections with microvascular proliferation in children with permanent dentition
T. Kutrovci1,2,3, S. Ilijas2, A. Begzati1, A. Reshepi1, B. Xhemajli1 & N. Kutlovci2
1Department of Pediatric Dentistry, University Dentistry Clinical Center of Kosovo, Prishtina, Kosovo, Republic of, 2Department of Pediatric Dentistry, Saints Cyril and Methodius University School of Skopje, Skopje, Macedonia, the Former Yugoslav Republic of, 3Department of Pediatric Dentistry, University of Prishtina, Prishtina, Kosovo, Republic of

1225 PR10.35 Case series of paediatric odontomas: are we communicating the link with Gardner's syndrome?
M. H. Connolly1, M. Littler1, M. Nugent1 & F. Sibai2
1Oral and Maxillofacial Surgery, City Hospitals Sunderland, Sunderland, United Kingdom, 2Oral and Maxillofacial Surgery, James Cook University Hospital, Middlesbrough, United Kingdom

1225 PR10.36 Case report of Williams syndrome in Saudi Arabia
H. Bangar1, N. Alghanim1,2
1Department of Paediatric Dentistry, Riyadh College, Riyadh, Saudi Arabia, 2Department of Dentistry, University of London, London, United Kingdom

1225 PR10.37 Investigation and countermeasures of 43 pre-eruptive intracoronal absorption
Z. Duranghi
Stomatological Hospital of Xi’an Jiaotong University College of Medicine, Xi’an, China

1300 PR10.38 Painless and bloodless surgery in pedodontics
V. S. Bhat1 & S. S. Bhat2
1Prosthodontics, Yenepoya University, Mangaluru, India, 2Pedodontics, Yenepoya University, Mangaluru, India
PR11.05 Development of a joint paediatric dentistry/oral medicine clinic within a hospital setting
D. Eltahhan1, S. Hughes2, P. Atkin2
& M. Collard1
1Paediatric Dentistry, University Dental Hospital Cardiff, Cardiff, United Kingdom, 2Oral Medicine, University Dental Hospital Cardiff, Cardiff, United Kingdom

PR11.06 Comprehensive dental care under general anaesthesia: carer feedback and satisfaction
F. Soldani, S. Noveira & H. Tate
Bradford District Care Trust, Bradford, United Kingdom

PR11.08 An audit of complete hospital paediatric dental department
S. Walley, K. Lee & S. Albadri
Paediatric Department, Liverpool Dental School, Liverpool, United Kingdom

PR11.09 Patient and parents/carers satisfaction on the joint orthodontic-paediatric clinic (JOP) 
R. Alsourani1, P. Kandiah2 & H. Dhaliwal3
1Paediatric Dentistry, King's College London, London, United Kingdom, 2Oral Medicine, University Dental Hospital Cardiff, Cardiff, United Kingdom, 3Orthodontic Dentistry, Leeds Dental Institute, Leeds, United Kingdom

PR11.10 Reasons for and sources of referral to paediatric dentistry
M. G. Brosnan & B. K. Drummond
Oral Sciences, University of Otago School of Dentistry, Dunedin, New Zealand

PR11.11 Service evaluation of the ‘piggy back’ service provided by Newcastle Dental Hospital
V. Hind, Y. S. Chau, C. R. Vernazza, L. Burbridge & M. Moffat
Department of Child Dental Health, Newcastle upon Tyne NHS Foundation Trust, Newcastle upon Tyne, United Kingdom

PR11.12 An audit of Auto transplantation cases carried out at Birmingham Dental Hospital from 2006 to 2014
D. Shekht & A. James
Paediatric Department, Birmingham Dental Hospital, Birmingham, United Kingdom

PR11.13 Paediatric dental anaesthesia safety: where are we now post-WHO surgical safety checklist?
S. Khan & T. Kandiah
Dental and Maxillofacial Department, Surrey and Sussex NHS Healthcare Trust, Redhill, United Kingdom

PR11.14 An audit for preformed stainless steel crown documentation: indications for placement and post operative instructions
S. A. Afreessi & M. Alhalabi
Paediatric Dentistry, Dubai College of Dental Medicine, Dubai, United Arab Emirates

PR11.15 Audit of paediatric dental referrals into a community dental service requiring treatment plan modifications
S. L. Chamagodi & R. Wassall1
Northumbria Community Dental Services, Newcastle upon Tyne, United Kingdom, 1School of Dental Sciences, Newcastle University, Newcastle upon Tyne, United Kingdom

PR11.16 Role of a ‘video assisted lecture’ on changing Albanian undergraduate students’ opinions regarding pain free dental injections in children
C. O. Kuscu1, D. Hysi1, E. Cagar1, C. Toti2 & E. Drobontu2
1Private Dental Office Istanbul/Tirana, Istanbul, Turkey, 2School of Dentistry, Tirana University, Tirana, Albania

PR11.17 What is the burden of care for adolescent dental patients? A service evaluation
J. K. E. Hook1, T. Park2, S. Albadri1 & M. M. F. Skene3
1Paediatrics, University of Liverpool, Liverpool, United Kingdom, 2University of Liverpool, Liverpool, United Kingdom, 3Paediatrics, University Dental Hospital Manchester, Manchester, United Kingdom

PR11.18 Teaching of overlapping subjects in paediatric dentistry
C. V. Lyttle, F. R. Stoops, A. Crighton & R. R. Welbury
Paediatric and Oral Medicine Departments, University of Glasgow, Glasgow, United Kingdom

PR11.19 The use of dental dam during pulp therapy in paediatric patients
B. H. Ghaffari, M. Alhalabi & M. Kowash
Paediatric Dentistry, Dubai College of Dental Medicine, Dubai, United Arab Emirates

PR11.20 Prescribing audit based in a paediatric dentistry hospital department
D. Singh, M. Lau, F. McDowall & C. Campbell
Oral Health Directorate, NHS Greater Glasgow and Clyde, Glasgow, United Kingdom

PR11.21 Fluoride varnish application in paediatric patients and the role of incentivisation in improving clinician behaviours
F. R. Stoops, E. Dunbar, F. Hogg & C. Campbell
Paediatric Dentistry, Glasgow Dental Hospital, Glasgow, United Kingdom

PR11.22 The utilisation of theatre time for paediatric dental care using propofol intravenous sedation
K. L. Swalej1, L. Mcclean1, V. Srivivasan1, S. Rolfe1 & M. Thirukkumaru1
1Department of Child Dental Health, University Dental Hospital Manchester, Manchester, United Kingdom, 2Department of Anaesthetics, Royal Manchester Children's Hospital, Manchester, United Kingdom

PR11.24 Antibiotic prescribing practices of East Surrey Hospital Dental and Maxillofacial department
T. Kandiah, A. Patrick & T. Stokes
Dental and Maxillofacial Dept, East Surrey Hospital, Redhill, United Kingdom

PR11.25 Audit of ‘Did Not Attend’ (DNA) appointments for 0-16 year old children across Leeds Community Dental Service (CDS)
M. Kalkani & S. Kindelan1
1Paediatric Dentistry, University of Leeds, Leeds Dental Institute, Leeds, United Kingdom, 2Paediatric Dentistry, Leeds Community Dental Service, Leeds, United Kingdom

PR11.26 An audit of documentation of conscious sedation in primary dental care
C. A. Yeung1 & S. A. Khan2
1Public Health, NHS Lanarkshire, Bothwell, Hamilton, United Kingdom, 2Hamilton Dental Centre, Hamilton, United Kingdom
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<td>An audit comparing record keeping in electronic and paper formats on a paediatric dentistry student teaching clinic</td>
<td>K. L. O’Donnell, A. Maxwell, W. Anderson, V. Shadrack, G. L. Richardson &amp; J. I. Foley</td>
<td>paediatric Dentistry, Kings’ College Hospital, London, United Kingdom, Charles Clifford Dental Hospital, Sheffield, United Kingdom, University of Aberdeen, Aberdeen, United Kingdom, Glasgow Dental Hospital, Glasgow, United Kingdom, Edinburgh Dental Institute, Edinburgh, United Kingdom</td>
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<td>PR11.28</td>
<td>Current referral trends for paediatric dental extractions under general anaesthesia at the University Dental Hospital, Cardiff</td>
<td>A. Wallace &amp; H. Zahrour</td>
<td>Paediatric Dentistry Department, University Dental Hospital, Cardiff, United Kingdom</td>
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<td>PR11.29</td>
<td>Non-attendance of paediatric dental patients: an audit to assess practitioner action</td>
<td>S. Bhatia &amp; S. Hughes</td>
<td>Paediatric Dentistry, University Dental Hospital Cardiff, Cardiff, United Kingdom, University Dental Hospital Cardiff, Cardiff, United Kingdom</td>
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<td>PR11.30</td>
<td>A survey of paediatric dentistry undergraduate teaching in the UK</td>
<td>W. Hayat &amp; S. Sood</td>
<td>Paediatric Dentistry, Kings College London, London, United Kingdom</td>
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<td>An audit of parent satisfaction in a paediatric dental department, Eastman Dental Hospital, UCLH</td>
<td>M. Neil &amp; A. Johnson</td>
<td>Department of Paediatric Dentistry, Eastman Dental Hospital, London, United Kingdom</td>
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<td>PR11.32</td>
<td>Acceptability and efficacy of nitrous oxide inhalation sedation from a parent/patient perspective</td>
<td>A. Ammari</td>
<td>Soho Centre for Health and Care, Community and Specialist Dental Services, Central London Community Healthcare NHS trust, London, United Kingdom</td>
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<td>PR11.33</td>
<td>An evaluation of the use of biodentine as an apical barrier</td>
<td>S. O. Hughes, A. Wallace &amp; H. Zahrour</td>
<td>Department of Paediatric Dentistry, Charles Clifford Dental Hospital, Sheffield, United Kingdom</td>
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<td>Assessment of the reason for referral to secondary care and the assessment therein of children with Molar Incisor Hypomineralisation</td>
<td>M. Al-Chihabi &amp; S. Barry</td>
<td>Paediatric Dentistry, Manchester Dental Hospital, Manchester, United Kingdom</td>
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<td>PR11.35</td>
<td>Pediatric dentistry undergraduate program: comparing students performance before and after curriculum reorientation</td>
<td>A. E. Haddadi, M. C. Skeiton-Macedo, J. L. Romero, D. P. Raggi, C. J. F. Alencar &amp; M. S. Bonecker</td>
<td>Orthodontics and Pediatric Dentistry, University of Sao Paulo/Faculty of Dentistry, Sao Paulo, Brazil, Teladentistry Center, University of Sao Paulo/Faculty of Dentistry, Sao Paulo, Brazil, Pediatric Dentistry, University Paulista/Faculty of Dentistry, Sao Paulo, Brazil</td>
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<td>PR11.36</td>
<td>Use of theatre time for paediatric dental operating lists at the Eastman Dental Hospital, University College London Hospitals</td>
<td>P. Cooper, U. Devalia &amp; A. Patrick</td>
<td>Paediatric Dentistry, Eastman Dental Hospital, London, United Kingdom</td>
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<td>PR11.37</td>
<td>Developing an oral health clinical practice guideline for a children’s hospital</td>
<td>K. J. Oliver, M. Ho, T. A. Parsons, P. J. Judd, M. J. Casas</td>
<td>Dentistry, The Hospital for Sick Children, Toronto, ON, Canada, Nursing Practice, The Hospital for Sick Children, Toronto, ON, Canada</td>
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<td>PR11.38</td>
<td>Impact of educational program for institutionalized special-care patient’s guardians</td>
<td>S. Monsalves, S. Krämer, P. Espinosa &amp; M. Valle</td>
<td>Paediatric Dentistry, University of Chile, Santiago, Chile</td>
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<td>PR11.39</td>
<td>Evaluation of the clinical documentation during the use of nitrous oxide inhalation sedation for dental treatment</td>
<td>G. K. Hussain, I. Hussein, M. Kowash &amp; M. Alhakabi</td>
<td>Dubai College of Dental Medicine, Dubai, United Arab Emirates</td>
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<td>PR11.40</td>
<td>Preventing ECC: the “play-way”</td>
<td>N. Srivastava, V. Adliaha, A. Bharadwaj &amp; M. Mohan</td>
<td>Paedodontics &amp; Preventive Dentistry, Subharti Dental College &amp; Hospital, Meerut, India</td>
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<td>PR11.41</td>
<td>Acceptability of fissure sealants on undergraduate clinics</td>
<td>R. Kaur, R. Mattiocii, M. Ogretme &amp; S. Sood</td>
<td>Paediatric Dentistry, King’s College London Dental Institute, London, United Kingdom</td>
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<td>PR11.42</td>
<td>Three dimensional virtual reality system for pediatric dental training</td>
<td>M. Ozaki, T. Hashimoto &amp; I. Kari</td>
<td>Fukoku Dental College, Fukuoka, Japan</td>
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<td>PR11.43</td>
<td>Improving the appropriateness of paediatric referrals to community dental services: a completed cycle</td>
<td>A. J. Comerford</td>
<td>Community Dental Services, Barts Health NHS Trust, London, United Kingdom</td>
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<td>PR11.44</td>
<td>Audit of caries risk assessment and caries prevention within the salaried dental service</td>
<td>L. Dufty</td>
<td>Zetland House Dental Clinic, Salaried Dental Service, Northallerton, United Kingdom</td>
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<td>PR11.45</td>
<td>Utilization of dental services among secondary school students in Port Harcourt, Nigeria</td>
<td>J. Espoto &amp; C. Obiajuwa</td>
<td>University of Port Harcourt, Port Harcourt, Nigeria, University of Port Harcourt Teaching Hospital, Port Harcourt, Nigeria</td>
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<td>Repeat attendance by paediatric patients on general anaesthetic lists over 5 years, Oxfordshire Salaried Primary Care Dental Service (OSSPCDS)</td>
<td>N. A. Akinyelu &amp; E. Nguyen</td>
<td>Oxfordshire Salaried Primary Care Dental Service, Oxfordshire, United Kingdom</td>
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<td>PR11.47</td>
<td>Effect of b-learning in Objective Structured Clinical Examination (OSCE) in practice assessment pterygomandibular technique</td>
<td>C. J. F. Alencar &amp; A. F. B. Calvo</td>
<td>Orthodontic and Pediatric Dentistry, University of Sao Paulo / Faculty of Dentistry, University of Sao Paulo / Faculty of Dentistry, Sao Paulo, Brazil, University of Sao Paulo / Faculty of Dentistry, Sao Paulo, Brazil</td>
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<td>PR11.48</td>
<td>Child abuse and role of the paediatric dentist</td>
<td>B. Vardhana &amp; K. R. Vijetha</td>
<td>Dept of Dentistry, ESIC Medical College &amp; Hospital, Gulbarga, India, Annapurn Dental Care Centre, Gulbarga, India</td>
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Saturday 4th July, 1600 hours

**Restorative dentistry (including endodontics/prosthodontics/dental materials)**

**1600 PR08-2.01 Effect of different parameters of Er:YAG laser irradiations on class V composite restorations: a microleakage study**

E. B. Tuna¹, E. Ozer² & E. Firat³

¹Department of Pediatric Dentistry, University of Istanbul, Faculty of Dentistry, Istanbul, Turkey, ²Department of Restorative Dentistry, University of Kocaeli, Faculty of Dentistry, Kocaeli, Turkey, ³Department of Pedodontics, Gazi University Faculty of Dentistry, Ankara, Turkey

**1605 PR08-2.02 Response of pulp to MTA and N-hexyl cyanocrylate in pulpotomies of rat’s teeth**

A. P. Silva¹, C. S. Muñoz¹, Y. M. Beneito¹, A.V. Hernández & A. J. D. Ruíz²

¹Stomatology, University of Murcia, Murcia, Spain

**1610 PR08-2.03 Clinical performance of compomer strip crowns in primary incisors, in children with high risk caries who underwent GA**

S. Michal

Specialized Private Dental Practice, Warsaw, Poland

**1615 PR08-2.04 Bonding of self-adhering flowable composite-resin versus total-etch to dentin surface of permanent molars**

M. A. Rashidi¹, F. K. Abdel Gawadi¹, M. A. Mohammed¹ & R. M. Abdelraouf¹

¹Pediatric Dentistry and Dental Public Health, Faculty of Oral and Dental Medicine, Cairo University, Giza, Egypt, ²Pediatric and Community Dentistry, Faculty of Oral and Dental Medicine, October 6 University, Giza, Egypt

**1620 PR08-2.05 Shear bond strength of two different types of flowable composite-resin to enamel surface of deciduous molars**

M. A. Mohammed¹, M. A. Rashidi¹, F. K. Abdel Gawadi¹ & R. M. Abdelraouf¹

¹Pediatric and Community Dentistry, Faculty of Oral and Dental Medicine, October 6 University, Giza, Egypt, ²Pediatric Dentistry and Dental Public Health, Faculty of Oral and Dental Medicine, Cairo University, Giza, Egypt, ³Biomaterial, Faculty of Oral and Dental Medicine, Cairo University, Giza, Egypt

**1625 PR08-2.06 Clinical evaluation of microabrasion and resin infiltration applications on white spot lesions**

C. Buyuk¹ & N. Akal

Pediatric Dentistry, Gazi University Faculty of Dentistry, Ankara, Turkey

**1630 PR08-2.07 Preformed crowns in a dental school clinic: parents’ preference and reasons for choice**

N. R. Cheddı⁰, J. C. Abou Cheddı⁰, N. Mouchayleh¹ & B. Melki²

¹Pediatric Dentistry, Saint Joseph University, Beirut, Lebanon

**1635 PR08-2.08 Healing with incomplete root development after 40 months following revascularization: a case report**

M. Akcay³, I. Erkmen Arımaž⁴ & I. Sanoğlu Sönmez⁴

³Department of Pediatric Dentistry, Adnan Menderes University, Aydin, Turkey, ⁴Department of Pediatric Dentistry, Kırıkkale University Faculty of Dentistry, Kırıkkale, Turkey

**1640 PR08-2.09 Regenerative endodontic treatment of an immature permanent molar with a necrotic pulp: a case report**

P. Oralı & N. Öztaş

Gazi University, Ankara, Turkey

**1645 PR08-2.10 Clinical and radiographic evaluation of MedCem Portland Cement in pulpotomies of primary molars: a pilot study**

M. Armans Serred, C. Cuadros-Fernández, A. I. Lorente-Rodríguez, S. Saez & M. Mercade-Belido

Universitat Internacional de Catalunya, Sant Cugat del Valles, Spain

**1650 PR08-2.11 Immature permanent teeth with apical periodontitis treated with apexogenesis technique: a report of case**

Y. Li¹, Y. Lin¹, X. Liang¹, Y. Ji & Y. Zhang²

¹Pediatric Dentistry, Dalian Stomatological Hospital, Dalian, China

**1655 PR08-2.12 The effect of Er:YAG laser irradiation on the bond strength of fiber-reinforced composite with various adhesive systems to dentin**

S. Keles³, G. Dinç⁴, G. Güzel⁴ & İ. Sönmez⁴

³Department of Pedodontics, Adnan Menderes University, Aydin, Turkey, ⁴Department of Restorative Dentistry, Adnan Menderes University, Aydin, Turkey

**1660 PR08-2.13 Effect of Er:YAG laser irradiation after silver-diamine-flouride and ammonium hexafluorosilicate applications on the microtensile-bond-strength in sound and caries-affected-dentin and changes in the structure of dentin**

B. Bolukbası¹, E. Kucukyilmaz, M. Akcay & S. Savas

¹Department of Pediatric Dentistry, Izmir Katip Celebi University, Faculty of Dentistry, Izmir, Turkey

**1665 PR08-2.14 Analysis of the composition and maturation of a new tricalcium silicate cement - Medcem MTA®**

L. C. Martens¹, C. Vercreynne¹, D. Schaubroeck² & S. Rajasekharan¹

¹Department of Paediatric Dentistry, PAECOMEDIS Research Cluster, Ghent University, Gent, Belgium, ²Department of Basic Medical Science - Biomaterials Group, Ghent University, Ghent, Belgium

**1670 PR08-2.15 Density and tubular diameter in different dentin depths associated with bond strength**

A. G. Silva¹, G. G. Domingues¹, T. F. Tedesco, A. F. B. Calvo & D. P. Raggio

Department of Orthodontics and Paediatric Dentistry, University of Sao Paulo, Sao Paulo, Brazil

**1675 PR08-2.16 Fracture resistance of two types of full ceramic crowns restoring primary teeth**

O. El Shanaawy¹, M. A. El Sayed & R. A. Nasr

Pediatric Dentistry, Cairo University, Cairo, Egypt

**1680 PR08-2.17 Revascularization treatment of necrotic immature permanent tooth - a case report**

S. Hrvatin¹, J. Jeličić², L. Skojo², I. Cuković-Blagić³ & H. Jurić³

¹School of Medicine, University of Rijeka, Rijeka, Croatia, ²Health Centre Zagreb-East, Zagreb, Croatia, ³Department of Paediatric and Preventive Dentistry, Dental Polyclinic of Split, Split, Croatia

**1685 PR08-2.18 Fixed aesthetic appliance for replacing lost anterior primary teeth: a case series**

J. M. Farzan

Pedo Planet Pediatric Dental Centres, Chennai, India
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1605 PR08-2.02 The relationship between children's primary teeth's occlusal and body's gravity center movement
Y. Ji
Pediatric Dentistry, Dalian Stomatological Hospital, Dalian, China

1610 PR08-2.03 Distinct post-transcriptional regulation of monocarboxylate transporter 1 expression between neurons and non-neuronal cells in the mouse brain
C. Takasaki & Y. Yawaka
Hokkaido University Graduate School of Dental Medicine, Sapporo, Japan

1615 PR12.04 Salivary α- Amylase activity, Immunoglobulin A, G and total protein concentration in children with different level of dental caries
M. Ghasempour1, S. Mahjoub2, A. Mostafazadeh3 & A. Rahmati1
1Pediatric Dentistry Dentistry, Babol University of Medical Sciences, Babol, Iran, Islamic Republic of, 2Babol University of Medical Sciences, Babol, Iran, Islamic Republic of

1620 PR12.05 The role of AEG-1 in dental pulp cells during inflammatory reaction
M. He
Dept of Pediatric Dentistry, Wuhan University Hospital of Stomatolgy, Wuhan, China

1625 PR12.06 Isolation, identification and biological characteristics of Beagle stem cells from pulp of deciduous teeth
Department of Pediatric Dentistry, Stomatolgy Hospital of Xi’an Jiaotong University, College of Medicine, Xi’an, China

1620 PR08-2.40 A simple technique modification to prepare zirconia crowns on primary teeth
E. B. Acosta1, H. A. Ramírez2, H. M. Valencia3 & E. E. Rangel4
1Pediatric Dentistry, UANL Universidad Autonoma de Nuevo Leon, Monterrey, Mexico, 2Pediatric Dentistry, UNITEC, Distrito Federal, Mexico

1625 PR08-2.41 Application and comparison of diode laser pulpotomy and formocresol pulpotomy
S. L. Pei & J. F. Liu
National Yang-Ming University, Taipei, Taiwan, Republic of China

1630 PR08-2.42 Demineralized bone matrix(DBM) used for direct pulp capping in rats
Y. F. Mei1,2, X. Zhu2 & Q. Liu1
1Community Dental Service, Barts Health NHS Trust, London, London, United Kingdom, 2Jiangsu Key Laboratory of Oral Disease, Nanjing, China

1635 PR08-2.43 An audit of the materials used to restore the primary molars of children at Barts Health NHS Trust Community Dental Service
J. Dougherty, K. Almukhtar1 & N. Pearson1
1Community Dental Service, Barts Health NHS Trust, London, United Kingdom

1640 PR08-2.44 Effect of additional acid etching for single-step self-etch adhesives on dentin bond strength in primary teeth
J. Kim, Y. Kim & T. Jeong
Pediatric Dentistry, School of Dentistry, Pusan National University, Yangsan, Korea, Republic of

1645 PR08-2.45 Infiltration of proximal caries in a primary molar: two years clinical and radiographic follow-up
M. M. Ammari1,2, A. S. Letieri1, R. C. Jorge1, I. P. R. Souza1 & V. Soviero1
1Pediatric Dentistry and Orthodontics, Federal University of Rio de Janeiro, Rio de Janeiro, Brazil, 2Specific Training, Fuminense Federal University, Nova Friburgo, Brazil, 3Preventive and Community Dentistry, State University of Rio de Janeiro, Brazil

1650 PR08-2.46 Microbial evaluation of immature permanent teeth with necrotic pulp with triple antibiotic paste or calcium hydroxide with 2% Chlorhexidine gel in pulp revascularization
S. Guzman1, O. Cortes2, M. A. Alcayda1 & J. Boi2
1Pediatric Dentistry, Universidad de Murcia, Universidad de Murcia Murcia, Spain, 2Universidad de Murcia, Murcia, Spain, 3Universidad de Barcelona, Barcelona, Spain

Basic science research

1600 PR12.01 Parathyroid hormone: increased tooth mobility after orthognathic surgery?
1Pediatric Dentistry, School of Dentistry, Sapporo, Japan, 2Pediatric Dentistry, School of Dentistry, Dalian Stomatological Hospital, Dalian, China

1605 PR12.02 The relationship between children's primary teeth's occlusal and bodie's gravity center movement
Y. Ji
Pediatric Dentistry, Dalian Stomatological Hospital, Dalian, China

1610 PR12.07 Anti-growth effects of triple/ double antibiotic paste on stem cells from exfoliated deciduous teeth (SHED)
Y. Y. Tu, T. Y. Chen1,2, Y. H. Chang1,2, Y. C. Hsu1,2
1Pediatric Dentistry, Kaohsiung Chang Gung Memorial Hospital, Kaohsiung, Taiwan, Republic of China, 2Graduate Institute of Medical Science, College of Health Sciences, Chang Jung Christian University, Tainan, Taiwan, Republic of China, 3Innovative Research Center of Medicine, College of Health Sciences, Chang Jung Christian University, Tainan, Taiwan, Republic of China

1615 PR12.08 Changes of alveolar bone volume for healthy and overincisorated rats in ligature induced experimental periodontitis
J. Dai & Y. Zhang
Wuhan University Hospital of Stomatolgy, Wuhan, China

1620 PR12.09 Analysis of the tetR dependent regulation in Treponema denticola
Y. Ara1, S. Shintani & K. Ishihara2
1Pediatric Dentistry, Tokyo Dental College, Tokyo, Japan, 2Microbiology, Tokyo Dental College, Tokyo, Japan

1625 PR12.10 Role of Wnt signaling in dental mesenchyme during serial tooth formation
J. Shimomura-Kuroki1,2, M. Jussila3 & I. Thesleff4
1Institute of Biotechnology, University of Helsinki, Helsinki, Finland, 2The Nippon Dental University, School of Life Dentistry at Nigata, Nigata, Japan

1630 PR12.11 Maternal occlusal disharmony suppresses cell proliferation in the hippocampus of pups
M. Inoue1, S. Mori2, H. Kondo3, C. Murabayashi4, Y. Tamura1 & K.Y Kubo2
1Pediatric Dentistry, Asahi University, Mizuho, Japan, 2Seijoh University, Toukai, Japan

1655 PR12.17 CCL17 enhances saliva IgA response and protection of anti-caries DNA vaccine
Y. Yan
School of Stomatolgy, Tongji University, Shanghai, China

1660 PR12.13 Immunohistochemical observation for multirooted tooth formation in rat
E. Otsawa1, T. Yamamura2, H. Yamamoto3 & S. Shintani2
1Department of Pediatric Dentistry, Tokyo Dental College, Tokyo, Japan, 2Department of Histology and Developmental Biology, Tokyo Dental College, Tokyo, Japan
PR12.15 Time-sequenced expression of Notch in enamel organ cells of mouse incisor after mechanical injury

S. G. Wang, Q. R. Yin, J. Tong
Dept. of Preventive Dentistry, School of Stomatology, The Fourth Military Medical University, Xi’an, China

PR12.16 Comprehensive expression analysis of the gene in connection with mouse lack tooth development of symptoms

N. Ogawa1, W. Morita2 & T. Shimizu2
1Department of Pediatric Dentistry, Nihon University Graduate School of Dentistry at Matsudo, Matsudo, Japan, 2Department of Pediatric Dentistry, Nihon University School of Dentistry at Matsudo, Matsudo, Japan

PR12.17 Investigation of influencing factors for dental caries susceptibility using mice

A. Hirai1, C. Endo1, S. Yamamoto-Nemoto1, K. Shimizu1 & T. Shimizu1
1Department of Pediatric Dentistry, Nihon University Graduate School of Dentistry at Matsudo, Matsudo, Japan, 2Department of Pediatric Dentistry, Nihon University School of Dentistry at Matsudo, Matsudo, Japan

PR12.18 Differentiation potential of dental pulp stem cells derived from hypophosphatasia model mouse

E. Yokoi1, S. Yamamoto-Nemoto2 & T. Shimizu1,2
1Department of Pediatric Dentistry, Nihon University Graduate School of Dentistry at Matsudo, Matsudo, Japan, 2Department of Pediatric Dentistry, Nihon University School of Dentistry at Matsudo, Matsudo, Japan

PR12.19 Dental pulp stem cells from natal teeth: isolation and morphological study

K. M. Rezende1, J. P. Zum2 & M. Bönecker1
1Pediatric Dentistry, University of Sao Paulo, Sao Paulo, Brazil, 2University of Sao Paulo, Sao Paulo, Brazil

PR12.20 Functional analysis of the glutamine metabolism gene in Streptococcus mutans

Y. Morikawa, Y. Takashima, K. Fujita & M. Matsumoto-Nakano
Department of Pediatric Dentistry, Okayama University Graduate School of Medicine, Dentistry and Pharmaceutical Sciences, Okayama, Japan

PR12.21 Intra-acu-mull administration of endomorphin-2 decreases acupull acetylcholine efflux of freely moving rats

Y. Kiguchi1, S. Yamamoto-Nemoto2
1Pediatric Dentistry, Nihon University Graduate School of Dentistry at Matsudo, Matsudo, Japan, 2Department of Pediatric Dentistry, Nihon University School of Dentistry at Matsudo, Matsudo, Japan

PR12.22 The impaction of pulpits of different degree on cell proliferation and osteoblastic differentiation of DPSC in Beagle immature premolars

L. Long1, Z. Yuming2 & G. Lihong2
1Peking University School and Hospital of Stomatology, Beijing, China, 2Pediatric Dentistry, Peking University Hospital and School of Stomatology, Beijing, China

PR12.23 Activation of AMPK suppresses glia activation and alleviates trigeminal neuralgia

Y. Yang1, L. Hu2 & L. Wang1
1Affiliated Dental Hospital of Nanjing Medical University, Nanjing, China, 2Nanjing Medical University, Nanjing, China

PR12.24 Expression of receptor activator of NF-κB ligand and osteoprotegerin in chronic periapical granuloma of deciduous teeth

J. Shang, N. Yang, H. Zhao & Y. Zhou
Department of Pedodontics, Capital Medical University School of Stomatology, Beijing, China

PR12.25 Construction of Cadherin11 expression vector and its effect on the growth of rat dental pulp cells

Y. Wu
Guangxi Medical University, Nanning, China

PR12.26 Researches on expression of glutamate receptors in human odontoclasts and effects on viability of odontoclasts

F. Huang1, H. Kong2, H. He1, Z. Gao1 & J. Liu1
1Department of Paediatric Dentistry, Guangzhou School of Stomatology, Sun Yat-sen University, Guangzhou, China, 2Guangdong Provincial Key Laboratory of Stomatology, Guangzhou School of Stomatology, Sun Yat-sen University, Guangzhou, China

PR12.27 Photodynamic antimicrobial therapy reduces the production of lactic acid by Streptococcus mutans biofilms

T. C. Silva1, A. F. F. Pereira2, D. Rios1, T. M. Oliveira1 & M. A. A. Machado1
1Department of Pediatric Dentistry, Orthodontics and Public Health, Bauru School of Dentistry/University of Sao Paulo, Bauru, Brazil, 2University of Sao Paulo/Hospital for Rehabilitation of Craniofacial Anomalies, Bauru, Brazil

PR12.28 Deciduous periodontal ligament stem cells regulate the formation and apoptosis of osteoclast during physiologic root resorption

L. Wu, Q. Wang & X. Wang
Department of Pediatric Dentistry, School of Stomatology, The Fourth Military Medical University, Xi’an, China

PR12.29 The effects of graded concentrations of xylitol and erythritol on Streptococcus mutans and sobrinus growth

K. W. White1,2, C. M. Le1,2, A. L. Vorachek1,2, M. Merchant1,2, W. Kabat1,2 & M. L. Cannon1,2
1Northwestern University, Feinberg School of Medicine, Chicago, IL, United States, 2Ann and Robert H. Lurie Children’s Hospital of Chicago, Chicago, IL, United States

PR12.30 The effects of graded concentrations of xylitol and erythritol on Streptococcus mutans and sobrinus growth

K. W. White1,2, C. M. Le1,2, A. L. Vorachek1,2, M. Merchant1,2, W. Kabat1,2 & M. L. Cannon1,2
1Northwestern University, Feinberg School of Medicine, Chicago, IL, United States, 2Ann and Robert H. Lurie Children’s Hospital of Chicago, Chicago, IL, United States
1645 PR12.35 Confirmation of a new mutation in the PTHF1R-gene over two generations
S. Feierabend1, B. Hartmann2, E. Hellwig1 & J. Fischer2
1Department of Operative Dentistry and Periodontology, University Medical Center, Centre for Dental Medicine, University of Freiburg, Freiburg, Germany, 2Institute for Human Genetics, University Medical Center, University of Freiburg, Freiburg, Germany

1650 PR12.36 Using the deciduous tooth as a tool to record early zinc nutrition
N. A. Wahono1,2,3, W. Dirks1, D. Ford2,3 & J. Fischer2
1School of Dental Science, Newcastle University, Newcastle Upon Tyne, United Kingdom, 2Institute for Cell and Molecular Biosciences, Newcastle University, Newcastle Upon Tyne, United Kingdom, 3Human Nutrition Research Centre, Newcastle University, Newcastle Upon Tyne, United Kingdom

1655 PR12.37 Characterization of long-term cryopreserved stem cells from human exfoliated deciduous teeth
S. Kamolmatyakul1 & O. Parnkaew2
1Preventive Dentistry, Prince of Songkla University, Hatyai, Thailand, 2Price of Songkla University, Hatyai, Thailand

Diagnosis/imaging

1600 PR13.01 A study on factors associated with the eruption disorder of first permanent molars
J. Y. Kim1, M. S. Kim1, J. M. Sun1, G. T. Kim2 & S. C. Choi1
1Pediatric Dentistry, Kyung Hee University, School of Dentistry, Seoul, Korea, Republic of, 2Oral and Maxillofacial Radiology, Kyung Hee University, School of Dentistry, Seoul, Korea, Republic of

1605 PR13.03 Double dilacerations in an erupted upper central incisor: a case report
L. M. Millar1, K. J. Donaldson2, L. M. Brocklebank1 & L. L. K. Chung3
1Department of Paediatric Dentistry, Glasgow Dental Hospital and School, Glasgow, United Kingdom, 2Department of Radiology, Glasgow Dental Hospital and School, Glasgow, United Kingdom, 3Department of Orthodontics, Glasgow Dental Hospital and School, Glasgow, United Kingdom

1610 PR13.04 The influence of fissure sealants on values of laser fluorescence
T. Toyama1, Y. Matsubara1, O. Fukuta1, M. Maimowski1, J. K. Touniba2 & M. S. Duggal2
1Pediatric Dentistry, Aichi Gakuen University, Nagoya, Japan, 2University of Leeds, Leeds, United Kingdom

1615 PR13.05 Diagnostic biteview radiographs: an audit of compliance with national guidance
A.M. Hargan1 & P. Fee2
1Centre of Special Care in Dentistry, Hospitals Leuven, Leuven, Belgium & 2Centre for Genetic Medicine, KU Leuven, University Hospitals Leuven, Leuven, Belgium

1620 PR13.06 Determination of total antioxidant capacity of serum and saliva in sickle cell anaemia patients
S. Baliga1, P. Bhatiya1, N. Thosar2 & S. Baliga2
1Pedodontics & Preventive Dentistry, Sharda Pawar Dental College, Wardha, India

1625 PR13.07 An audit of the documentation of dental radiographic examination justification
D. Ahmed1, K. Kowash2 & M. Al Halabi3
1Department of Operative Dentistry and School of Dental Medicine, Dubai, United Arab Emirates

1630 PR13.08 Influence of exposure settings on the visibility of anatomical landmarks in intraoral radiography
A. A. Al-Humairi1 & A. Job2
1School of Dentistry and Health Sciences, Charles Sturt University, Wagga Wagga, NSW, Australia

1635 PR13.09 Cone beam computed tomography evaluation of the effect of permanent tooth germ on localization of deciduous teeth apical foramen
S. San1, A. E. Zeren1, L. Durutürk1, O. Gülen1 & K. Kamburoğlu2
1Pediatric Dentistry, Ankara University/ Faculty of Dentistry, Ankara, Turkey, 2Oral and Maxillofacial Radiology, 75th Year Dental Hospital, Ankara, Turkey

1640 PR13.10 Validation of method for evaluating pain caused by temporomandibular disorders in youngsters with an intellectual disability
G. Dugashvili1, G. Menabde2, M. Jalendzic2, L. Van Den Bergh1 & L. Marks1
1Centre of Special Care in Dentistry, PaeCoMedIs, Gent University Hospital, Gent, Belgium, 2Iula State University, Scientific Research Institute of Medicine, Tbilisi, Georgia

1645 PR13.11 Detection of occlusal caries among children in Madinah, KSA, according to WHO basic methods, ICDAS II and laser fluorescence
O. S. Bahakam1, M. A. Mirza2, H. A. Al-Ofi3, Z. M. Al-Harbi1, W. Saadi1 & A. Bhayat1
1Taibah University, Medina, Saudi Arabia

1650 PR13.12 Prevalence of angulation of the maxillary canine germ
V. L. Castellanos-Contreras1, I. A. Verdugo-Velazquela2, C. A. Fregoso-Guevara1, M. A. Zamudio-Gomez3 & M. E. Torres-Arellano4
1Centro de Ciencias de la Salud, Universidad Autónoma de Baja California, Tijuana, Mexico

1655 PR13.13 Temporomandibular joint changes detected by cone beam computed tomography in children with sleep bruxism and painful symptoms
K. V. Diaz-Serrano1, F. Lorenzetti-Silva2, F. G. Leite3, P. Nelson-Filho1 & F. W. Paula-Silva4
1Pediatric Dentistry, School of Dentistry of Ribeirão Preto, University of Sao Paulo, Ribeirão Preto, Brazil, 2School of Dentistry of Ribeirão Preto, University of Sao Paulo, Ribeirão Preto, Brazil, 3Ophthalmology, Otolaryngology and Head and Neck Surgery, Medical School of Ribeirão Preto, University of Sao Paulo, Ribeirão Preto, Brazil

1700 PR13.14 External root resorption of several permanent teeth: a diagnostic clue
G. Abbabi, V. Verhaeghe1, D. Declercq1, I. Balleux-Forestier1 & T. De Ravel De L’argentière1
1Department of Oral Health Sciences and Department of Dentistry. Unit of Pediatric Dentistry and Special Dental Care, KU Leuven, Leuven, Belgium, 2Centre for Human Genetics, KU Leuven, University Hospitals Leuven, Leuven, Belgium
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## Exhibitor Guide

**Bridge2Aid**

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<td>Toothache can be debilitating, constant, and excruciating; 75% of the world’s population do not have access to any oral pain relief. Bridge2Aid is working to change this terrific statistic. Our goal is clear; provide emergency pain relief to those who need it most, and make a lasting change through training.</td>
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<tr>
<td>Email: <a href="mailto:Shaenni@Bridge2aid.Org">Shaenni@Bridge2aid.Org</a></td>
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<td>Web: <a href="http://www.Bridge2aid.Org">www.Bridge2aid.Org</a></td>
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<td>Twitter: @Bridge2aid</td>
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**BugBrush Ltd**

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<td>BugBrush is a unique toothbrush designed to tackle the soaring rates of E.C.C. - by empowering infants to clean their teeth through play. BugBrush is the first product in the world which combines the plaque removing effectiveness of a toothbrush, with all the fun and safety elements of a toy.</td>
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<tr>
<td>Email: <a href="mailto:Rowena@Bugbrush.Co.Uk">Rowena@Bugbrush.Co.Uk</a></td>
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**The British Society of Paediatric Dentistry (BSPD)**

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<td>The British Society of Paediatric Dentistry (BSPD) is the national society specifically concerned with the oral health of children in the UK. We aim to improve oral health in children and encourage the highest standards of clinical care. BSPD has over 500 members from university and hospital paediatric dental departments, the community dental service as well as specialist and general dental practice. Undergraduate students, dental therapists, hygienists and other dental auxiliaries are also encouraged to join at specially reduced rates. We encourage colleagues to consider a career in Paediatric Dentistry and provide advice and support to patients and their parents. The Society has representation on various committees and bodies involved in the development of oral health strategies, and has produced policy documents and position statements on various aspects of oral health and dental care for children. We are currently represented on a Department of Health working group to agree care pathways for children’s dentistry and have close working relationships with organisations such as Public Health England, the British Dental Association and the Royal Colleges of Surgeons. BSPD has thirteen regional branches which meet locally on a regular basis. These meetings have an educational as well as a social function, and include talks by speakers invited to update members about new developments in the field and its associated specialities. We also have an active media team who co-ordinate our strong media presence, ensuring that children’s oral health in the UK remains firmly in the spotlight.</td>
</tr>
<tr>
<td>Email: <a href="mailto:administrator@bspd.co.uk">administrator@bspd.co.uk</a></td>
</tr>
<tr>
<td>Web: <a href="http://www.bspd.co.uk/bspduk">http://www.bspd.co.uk/bspduk</a></td>
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**DMG Dental-Material GmbH**

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<tr>
<td>For over 50 years DMG has been well-known as the innovative manufacturer of high quality dental materials. The portfolio includes successful brand products such as Luxatemp, LuxaCore or Honigum. With its innovation Icon, DMG opens up ways for caries treatment without drilling. The microinvasive caries infiltration method enables the early arrest of incipient caries without unnecessarily sacrificing healthy hard tissue.</td>
</tr>
<tr>
<td>Web: <a href="http://www.dmg-dental.com">www.dmg-dental.com</a></td>
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<tr>
<td>Facebook: <a href="http://www.facebook.com/dmgdental">http://www.facebook.com/dmgdental</a></td>
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**DSI HUBER, Dental Science and Inovation**

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<tr>
<td>DSI HUBER is a group of dental scientists and innovators in Munich, specialised on design and distribution of Medcem MTA and Dental Loupes with LED Powerlights.</td>
</tr>
<tr>
<td>Email: <a href="mailto:frank.berlinghoff@dsi-huber.de">frank.berlinghoff@dsi-huber.de</a></td>
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<tr>
<td>Web: <a href="http://www.dsi-huber.de">www.dsi-huber.de</a></td>
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**EAPD**

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<th>Stand: 30</th>
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<tbody>
<tr>
<td>3th EAPD Congress, 2nd - 5th June 2016, Belgrade, Republic of Serbia</td>
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<tr>
<td>Email: <a href="mailto:info@eapd2016-serbia.com">info@eapd2016-serbia.com</a>, <a href="mailto:eapdsrb@gmail.com">eapdsrb@gmail.com</a></td>
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<td>Web: <a href="http://www.eapd2016-serbia.com">www.eapd2016-serbia.com</a></td>
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**EZPEDO**

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<td>EZPEDO introduced the world to Pediatric Zirconia Crowns in 2010, and has been leading the way ever since. The #1 preferred brand in the US offers patented technology providing the most esthetic and most durable restoration for patients and a simple, faster technique for doctors. Owned by 2 dentists based in California, ISO 13485 certified, with customers in 13 countries, and is the only brand that is both designed AND made in the USA.</td>
</tr>
<tr>
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**GC Europe NV**

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<td>GC is one of the largest dental suppliers world-wide. With more than 600 different dental products, GC is consistently known for top product quality ease of handling and the highest standard of customer service. As an innovative company, our goal is to increasingly provide our customers with trusted solutions focusing on safety and oral health.</td>
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Exhibitors

International Association for Paediatric Dentistry (IAPD)

The International Association of Paediatric Dentistry (IAPD) was founded in 1969. The aim of the Association is to act as an International Forum for certified paediatric dentists and general dental practitioners with an interest in treating children. IAPD is made up of individual members and National Societies and is based in Geneva/Switzerland.

Email: iapd@iapdworld.org
Web: www.iapdworld.org

26th Congress of the International Association Paediatric Dentistry (IAPD 2017)

26th Congress of the International Association Paediatric Dentistry (IAPD 2017). The Chilean Society of Paediatric Dentistry has the great honor of hosting the XXVI Congress of the International Association of Paediatric Dentistry in Santiago, Chile, from 4th to 7th October 2017. It is a privilege for Chile and our Society to organise this Congress and welcome you all in our beautiful country, where we will be looking forward to hearing that you have booked this date to attend this wonderful celebration for Paediatric Dentistry worldwide.

Email: iapd2017@kenes.com
Web: www.iapd2017.com

Ivoclar Vivadent AG

Tel: + 423-235-3375
Web: www.ivoclarvivadent.com

Kelvingrove Museum & Art Gallery

Glasgow Museums
The City of Glasgow owns one of the finest civic collections in Europe. See outstanding works by Charles Rennie Mackintosh, the Scottish Colourists and the Glasgow Boys, as well as arms and armour, Scottish history and more. Our shops stock a fantastic range of gifts and souvenirs inspired by the collection, with many items exclusive to us.

Web: www.glasgowmuseums.com

Kinder Krowns®

Kinder Krowns® are proud to be the leader in Zirconia Pediatric Crowns, with 15+ years of experience using it in our Certified Dental Laboratory and over 20 years of experience with esthetic pediatric crowns. You can trust us to provide you with consistent, easy to use, beautiful restorations every time.

Email: custserv@kinderkrowns.com
Web: www.KinderKrowns.com

KaVo Dental

For over a century, KaVo has been expanding its role as a leader in innovation, quality and technological advances for the dental community. Whether aesthetics, functionality or cost-efficiency are priorities, KaVo products provide best value and peace of mind.

Solutions specifically for paediatric dentistry include mini handpieces, DAINOCAM x-ray free carries detection device and low-dose x-ray systems.

Tel: 01494 733000
Email: info@kavo.co.uk
Web: www.kavo.co.uk
Twitter: @KaVoGlobal

Mad Molars

Three University of Glasgow staff, including the Head of the Dental School, has entered a 1977 Leyland Princess in the 2015 Monte Carlo or Bust Banger Rally (16-19 July). They are raising money for a Dental Technology Teaching Suite at Glasgow Dental School. Visit stand 40 to help support this fundraising adventure.

Myofunctional Research Co.

MILLIONS of children require orthodontic treatment and parents are increasingly seeking non-extraction, earlier treatment options. The by Myofunctional Research Company developed Myobrace System™ provides an opportunity for pre-orthodontic treatment and avoiding braces or extractions.

The Myobrace System™ encourages correct facial development and helps patients achieve Straight Teeth the Natural Way.

PDAA 2016

Three University of Glasgow staff, including the Head of the Dental School, has entered a 1977 Leyland Princess in the 2015 Monte Carlo or Bust Banger Rally (16-19 July). They are raising money for a Dental Technology Teaching Suite at Glasgow Dental School. Visit stand 40 to help support this fundraising adventure.

Premier Dental Products

Premier is an American based manufacture of high quality dental and medical products, established in 1913, Premier has been at the forefront of product design and innovation for over a century. With legacy products like Triple Tray, the worlds number one dual arch impression tray with over 100 million sold. To our latest preventative like Enamelon Treatment gel, 970 ppmF (Stannous with ACP technology) that delivers up to two and a half times more fluoride than a prescription strength 5% NaF, yet has none of the unwanted side effects, suitable for all age groups from the age of 6 years and above.

Email: sjulian@premusa.com
Web: www.premusa.com
Twitter: @premierscott

RA Medical Services LTD

RA Medical Services Ltd is a family run company who specialise in the supply and maintenance of Inhalation Sedation Equipment. A comprehensive range of equipment will be available to view at IAPD with friendly staff on hand to answer any questions. A range of informational material will also be available.

Email: info@ramedical.com
Web: www.ramedical.com

Shinhung Co. Ltd.

Established in 1955 and located in Seoul, Shinhung is Korea’s leading dental product manufacturer, producing dental units, chairs, cabinets, autolaves, disposable needles, stainless steel crowns, and implant system. Shinhung products can be found in more than 50 countries worldwide.

Email: lake0831@hotmail.com
Web: www.shinhung.co.kr
JOCPD provides clinically relevant information to enable the practicing dentist to have access to the state of the art in Pediatric Dentistry. From prevention, to information, this peer-reviewed journal keeps you abreast of the latest news and developments related to Pediatric Dentistry. New for 2016 frequency is increasing to six issues per year!

Email: JOCPD@subscriptionoffice.com
Web: www.JOCPD.org

Wisepress.com, Europe’s leading conference bookseller, has a range of books and journals relevant to the themes of the meeting. In addition to attending 200 conferences per year, Wisepress has a comprehensive medical and scientific bookshop online with great offers. Follow us on Twitter for the latest news @WisepressBooks.

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Web: www.wisepress.com
Twitter: www.wisepressBooks

The Royal College of Physicians & Surgeons Glasgow

The Faculty of Dental Surgery of the Royal College of Physicians and Surgeons of Glasgow is one of the world’s leading bodies for dental health professionals. With its whole-team approach, it develops, delivers and supports a high quality programme of education and continuing professional development. It is internationally recognised for setting standards in examinations and assessments to ensure the best possible care for patients worldwide. Interested? Visit us at stand 61 to find out more.

Email: dental@rcpsg.ac.uk
For the past 24 years we’ve helped pediatric dentists deliver over 4 million smiles – more than all of our competitors combined. You get ahead by being proactive, anticipating customers’ needs and doing whatever it takes to keep patients smiling.

Thank you for your business. We will continue to go the extra mile to ensure there are plenty of smiles ahead.

“NuSmile ZR crowns are the third zirconia system I’ve tried. They are definitely the easiest to fit thanks to the Try-In crowns. The retention of the crowns is superior, as the cemented crowns never interact with the oral environment.”

Lawrence Dinkes, DDS
Commerce Park Children’s Dentistry & Orthodontics, Bridgeport, CT