Ladies and gentlemen, dear ORCA friends,

On behalf of the local Organizing Committee, it is my great pleasure to welcome you to the 68th ORCA Congress which should have taken place in Zagreb, Croatia from July 7-10, 2021.

Unfortunately, because of current situation with the COVID 19 pandemic, this year’s ORCA Congress will once again take place in an online-only format without any in-person activities. Rest assured, this will certainly be a congress to remember!

ORCA always breaks new ground as the influential international hub for researchers, clinicians and dental industry suppliers who are committed to excellence in promotion of oral health through science and research in the field of cariology.

ORCA presents four days of thought-provoking, knowledge and skill-enhancing content from the world’s most eminent oral health professionals who come in pursuit of oral health excellence. Our Scientific Committee have invited 6 very distinguished international experts in the world of cariology to share with us the latest updates in the field with 3 keynote lectures. The program is comprised of an exciting combination of 114 poster presentations, panel discussions and symposia, presenting the latest results of research.

The congress kicks off on Wednesday, July 7 with the ORCA and Association for Dental Education in Europe (ADEE) exciting joint event which celebrates the 10th anniversary of European Cariology Core Curriculum. Another highlight of the program is the Saturday Afternoon Symposium (SAS), which is prepared in collaboration with the Croatian Society of Pediatric and Preventive Dentistry, and, as the name suggests, takes place on Saturday, July 10. Invited lecturers for SAS are 3 world renowned experts in minimally invasive restorative techniques for children.

The social aspect of ORCA congresses is always very important, but faced with imposed limitations and challenges, we are confident that this year’s congress will be as “live” as possible with special features such as the interactive Cooking school in Croatia on Thursday, July 8, and artistic Gala night comprised of special performances by ORCA participants on Friday, July 9. These are not to be missed!

ORCA2021 promises to be another stimulating, relevant and evidence-based event. It is a perfect opportunity for participants to update their knowledge, techniques and refine their skills.

Welcome to ORCA2021 online congress!

Yours sincerely,

Prof. Hrvoje Jurić

Organizing Committee President and ORCA Co-President
ORGANIZERS

ORCA – European Organisation for Caries Research
Croatian Medical Association, Croatian Dental Society
Croatian Medical Association, Croatian Society for Paediatric and Preventive Dentistry
School of Dental Medicine, University of Zagreb

UNDER THE HIGH AUSPICES

President of the Republic of Croatia, Mr Zoran Milanović

UNDER THE AUSPICES

Ministry of Health of the Republic of Croatia
Ministry of Science and Education of the Republic of Croatia
Ministry of Tourism and Sports of the Republic of Croatia

ORGANIZING COMMITTEE

PRESIDENT AND
ORCA CO-PRESIDENT

Professor HRVOJE JURIĆ, DMD, MSc, PhD
University of Zagreb, School of Dental Medicine
e-mail: juric@sfzg.hr

ORGANIZING COMMITTEE

President: Prof Hrvoje Jurić
Members:
Assoc Prof Ivana Miletić
Assist Prof Kristina Goršeta
Assoc Prof Marin Vodanović
Assist Prof Ana Badovinac
Assist Prof Joško Viskić

SCIENTIFIC COMMITTEE

ORCA Vice-President: Marie-Charlotte Huysmans
Co-President: Hrvoje Jurić
Editor: Carolina Ganß
ONLINE CONGRESS

All registered participants will receive access information (username and password) on their e-mail address with which they will be able to access the online congress from on July 7-10 via the official website: www.orca2021.com

Upon accessing the official website, participants will register by clicking on CLICK HERE TO ENTER on the virtual registration desk. After they enter their username and password, they will access the online conference platform with the following content: CONGRESS HALLS where they will follow the lectures, PROGRAM, SPONSORS, and E-CAFÉ.

Under sponsors, by clicking on the sponsor’s logo, the participants will access official company website with additional information.

The e-café is intended for socializing and talking about more casual topics that are not necessarily related to the scientific program (a virtual coffee break).

If participants would like to ask questions or participate in the discussion, they may do so through a chat platform that will be available in each Congress Hall.

All congress materials and lectures will be available on the congress web platform by September 01, 2021. If you don’t have time to follow the lectures in real time or would like to watch them again, you may do so later on.
**WEDNESDAY, JULY 7, 2021**

### CONGRESS HALL ZAGREB

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<tr>
<th>13:00-17:00</th>
<th>ORCA/ADEE education platform</th>
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<tr>
<td>13:00-13:10</td>
<td>Welcome address</td>
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<td>Christian Splieth, ORCA President</td>
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<td>Ilze Akota, ADEE President</td>
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<tr>
<td>13:10-14:10</td>
<td>Impact of the European Cariology Core Curriculum (Andreas Schulte)</td>
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<td>National Cariology Curriculum Consensus Conference as a Chance for Interdisciplinary Communication - the Spanish Example (Javier Cortés)</td>
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<td>Building a Consensus on a Core Cariology Curriculum: Canadian National Symposium (Svetlana Tikhonova)</td>
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<td>ACFF – Global Examples of Localisation and Implementation of the European Cariology Core Curriculum (Nigel Pitts and Stefania Martignon)</td>
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<td>14:10-14:20</td>
<td>Discussion</td>
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<td>14:20-14:25</td>
<td>Innovative Ways in Teaching Cariology – Introduction of a new Format (Marie-Charlotte Huysmans)</td>
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### CONGRESS HALL DUBROVNIK

| 14:25-14:50 | Use of a student response system for teaching radiographic caries detection and treatment planning (Alix Young) |
| 14:50-15:00 | Short break                                         |
| 15:00-15:50 | Oral presentations (4 presenters)                   |
| 15:50-16:00 | Break out room with presenter 1                     |
|             | Break out room with presenter 2                     |
|             | Break out room with presenter 3                     |
|             | Break out room with presenter 4                     |
| 15:25-16:00 | Innovative ways of teaching cariology: working in class on practical problem-solving (Joana Carvalho) |

### CONGRESS HALL SPLIT

| 14:25-14:50 | Oral presentations (4 presenters)                   |
| 14:50-15:00 | Break out room with presenter 1                     |
|             | Break out room with presenter 2                     |
|             | Break out room with presenter 3                     |
|             | Break out room with presenter 4                     |
| 15:25-16:00 | Innovative ways of teaching cariology: working in class on practical problem-solving (Joana Carvalho) |

### CONGRESS HALL ZAGREB

| 16:00-16:40 | Update of Curricula in Oral Health Professionals’ Higher Education – the European Perspective (Stephanie Tubert-Jeannin) |
|             | Implementation of Curricula – How to approach this Challenge (Svetlana Tikhonova) |
| 16:40-17:00 | Round table discussion with the audience |
| 17:00       | Closing of the event |

### ORCA 2021 opening ceremony

| 17:15-18:30 | From science to industry - Osteogrow: From discovery to drug development for bone regeneration (Slobodan Vukičević) |
### THURSDAY, JULY 8, 2021

**CONGRESS HALL ZAGREB**

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<td>12:30-13:30</td>
<td>ORCA Awards</td>
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<tr>
<td>13:45-15:00</td>
<td>Online poster session - NCJSA</td>
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<td>Break</td>
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<td>15:00-15:30</td>
<td>Break</td>
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<td>15:30-16:30</td>
<td>Online poster session - FLUORIDE</td>
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<td>13:45-15:00</td>
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<td>15:00-15:30</td>
<td>Break</td>
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<td>15:30-16:30</td>
<td>Online poster session - HARD TISSUE</td>
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### Keynote lectures

- **Keynote lecture I**: GICs – biomimetic and bioactive approach to dental caries (Domagoj Glavina and Kristina Goršeta)
- **Keynote lecture II**: Periodontal treatment and root caries (Marie-Charlotte Huysmans and Renske Thomas)
- **Keynote lecture III**: The 2021 WHO Resolution on Oral Health: Impact for Cariology and Caries Management in the next Decade? (Falk Schwendicke and Julian-Markus Fischer)

### FRIDAY, JULY 9, 2021

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<tr>
<td>12:10-12:50</td>
<td>Sponsored symposium - SDI</td>
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<td>12:50-13:40</td>
<td>Keynote lecture II: Periodontal treatment and root caries</td>
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<td>15:30-16:30</td>
<td>Online poster session - EPIDEMOLOGY</td>
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<td>13:45-15:00</td>
<td>Online poster session - DIAGNOSIS</td>
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<td>15:30-16:30</td>
<td>Online poster session - CLINICAL STUDIES</td>
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### Keynote lectures

- **Keynote lecture III**: The 2021 WHO Resolution on Oral Health: Impact for Cariology and Caries Management in the next Decade? (Falk Schwendicke and Julian-Markus Fischer)

**CONGRESS HALL DUBROVNIK**

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<td>16:45-17:30</td>
<td>General Assembly</td>
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<td>17:35-18:35</td>
<td>General Assembly</td>
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<td>18:45</td>
<td>Gala music party</td>
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<tr>
<td>14:00-16:00</td>
<td>Saturday Afternoon Symposium</td>
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<td>14:00-14:30</td>
<td>Minimally invasive approaches in dentistry: what’s in it for whom?</td>
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<td>(Erik Vermaire)</td>
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<td>14:30-14:50</td>
<td>Minimally invasive dentistry; where are we with it as a paradigm</td>
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<td>for dental care? (Nicola Innes)</td>
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<td>14:50-15:30</td>
<td>Minimally invasive dentistry; a growing suite of techniques ready</td>
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<td>for use? (Ruth Santamaria Sanchez)</td>
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<td>15:30-16:00</td>
<td>Discussion</td>
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<td>16:00</td>
<td>Closing ceremony</td>
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PROGRAM
CONGRESS HALL ZAGREB

13:00-17:00 ORCA/ADEE education platform
To celebrate the tenth anniversary of the European Cariology Core Curriculum for undergraduate dental students published in 2011 in the European Journal of Dental Education and in Caries Research

13:00-13:10 Welcome address
Prof. Christian Splieth, ORCA President (Greifswald, Germany)
Prof. Ilze Akota, ADEE President (Riga, Latvia)

Prof. Andreas Schulte (Witten, Germany)

Dr. Javier Cortés (Pamplona, Spain)

Dr. Svetlana Tikhonova (Montreal, Canada)

13:55-14:10 ACFF – Global Examples of Localisation and Implementation of the European Cariology Core Curriculum
Prof. Nigel Pitts (London, UK)
& Dr. Stefania Martignon (Bogota, Colombia)

14:10-14:20 Discussion

14:20-14:25 Innovative Ways in Teaching Cariology – Introduction of a new Format
Prof. Marie-Charlotte Huysmans, ORCA President Elect (Nijmegen, The Netherlands)
CONGRESS HALL DUBROVNIK

Chair: Marie-Charlotte Huysmans

14:25-14:50 Interactive presentation

Use of a student response system for teaching radiographic caries detection and treatment planning
Alix Young

14:50-15:00 Short break

15:00-15:50 Oral presentations

Caries OUT: COVID-19 adapted CCI Multicenter Study as an innovative cariology teaching ongoing experience
Stefania Martignon

Teaching ICDAS at Preventive dentistry department, Moscow University of Medicine and Dentistry Russia, in collaboration with University of Copenhagen
Irina Kuzmina

The MILA system to teach integrated cariology curriculum for postgraduate students
Jogikalmat Krithikadatta

Teaching cariology throughout the dental curriculum without a cariology course: the University of Talca model
Constanza Fernández

15:50-16:00 Breakout rooms, discussion with each presenter

Breakout room Martignon
Breakout room Kuzmina
Breakout room Krithikadatta
Breakout room Fernández
CONGRESS HALL SPLIT

Chair: Andreas Schulte

14:25-15:10 Oral presentations

Methodology changes to ICDAS teaching/learning approach for first-year dental students in Indiana due to Covid-19
Armando Soto-Rojas

Attitudes of Dental Students and Young Dentists towards Treatment of Dentin Caries
Tamara Peric

Cariology education – Master-of-Science in Dentistry program in cariology and operative dentistry at Indiana University
Masatoshi Ando

Impact of a caries lesion detection didactic-laboratorial training for dental students. A COVID-19 adapted methodology
Sebastian Lara

15:10-15:20 Break-out rooms, discussion with presenters

Breakout room Soto-Rojas
Breakout room Peric
Breakout room Ando
Breakout room Lara

15:20-15:35 Short break

15:35-16:00 Interactive presentation

Innovative ways of teaching cariology: working in class on practical problem-solving
Joana Carvalho
16:00-16:20  Update of Curricula in Oral Health Professionals’ Higher Education – the European Perspective
Prof. Stephanie Tubert—Jeannin, ADEE Past-President (Clermont-Ferrand, France)

16:20-16:40  Implementation of Curricula – How to approach this Challenge
Dr. Svetlana Tikhonova (Montreal, Canada)

16:40-17:00  Round-Table Discussion with the Audience
Andreas Schulte, Marie-Charlotte Huysmans, Joana Carvalho, Stephanie Tubert-Jeannin, Nigel Pitts, Stefania Martignon, Javier Cortés, Svetlana Tikhonova, Margherita Fontana, Rodrigo Giacaman

17:00  Closing of the Event

17:15-18:30  ORCA2021 opening ceremony

Invited lecture

From science to industry
Osteogrow: From discovery to drug development for bone regeneration
academician Slobodan Vukičević (Zagreb, Croatia)
CONGRESS HALL ZAGREB

12:30-13:30 ORCA Awards

2019 Yngve Ericsoon Prize recipient
Fridus van der Weijden (Amsterdam, The Netherlands)

2020 ORCA Award recipient
Eric Reynolds (Melbourne, Australia)

2021 ORCA Award recipient
To be announced at the congress

CONGRESS HALL DUBROVNIK

13:45-15:00 Online poster session - NCJSA
Moderators: Marie-Charlotte Huysmans and Aylin Baysan

1. Erosion of CAD/CAM materials and human enamel: in situ/in vivo and in vitro studies
Yang, Hui

2. Staining potential of carious lesions treated with silver diammine fluoride (SDF) and potassium iodide (KI)
Patel, Jilen

3. Effect of two fluoride therapies on hypersensitive carious primary teeth: An observational cohort study
Abudrya, Mohamed

4. Pain perception during caries excavation with bioactive caries detecting (BCD) dye solution and air polisher prophy
Govind, Shashirekha

5. Remineralization effect of different agents on artificial dentin caries: an in vitro study
Yilmazkasapoglu Turkay, Ece

6. The economic impact of two diagnostic strategies in the management of restorations in primary teeth
Freitas, R.D.

7. Combining artificial intelligence and targeted fluorescent particles for caries detection and ICDAS-II scoring
Jones, Kai A.

8. Oral health-related quality of life versus socioeconomic and gender status in the Croatian sample
Klarić, Iva

9. Comparison of different methods of education in the adoption of knowledge on prevention of oral health
Marcelja, Martina

15:00-15:30 Break
13:45-15:00  Online poster session - EROSION
Moderators: Benedikt Luka and Anderson Hara

1. Anti-erosive and anti-abrasive efficacy of different F/Sn containing commercially available toothpaste formulations on enamel in-vitro
Luka, Benedikt

2. How conclusive are nutrition questionnaire results in the context of erosive tooth wear research?
Ganß, Carolina

3. Impact of whey protein and whole milk on the protection of enamel against erosion
Niemeyer, Samira Helena

4. Measurement of the surface hardness and calcium release of natural unpolished enamel during erosion
Baumann, Tommy

5. Modification of salivary pellicle with polyphenol-rich plant extracts and fluoride to protect against enamel erosion
Carvalho, Thiago Saads

6. Erosive Tooth Wear related factors in adolescents: questionnaire validation
Avila, Viviana

7. Aminomethacrylate copolymer associated to fluoride and stannous on enamel erosive wear
Borges, Alessandra

8. Erosive effect of different beverages on composite materials
Goršeta, Kristina

9. Intraoral circadian pH measurements with a wireless sensor: proof-of-principle study
Neuhaus, Klaus W

10. The burden of erosive tooth wear and risk indicators in adults: a population-based study
Jardim, Juliana

15:00-15:30  Break
CONGRESS HALL ŠIBENIK

13:45-15:00  Online poster session - MICROBIOLOGY
Moderators: Sebastian Schlafer and Ana Carolina Magalhaes

1. Lactobacillus reuteri and Streptococcus oligofermentans are efficient colonizers in a multi-species model of cariogenic biofilm
   Rikvold, Pernille

2. Ratiometric analysis of local S. mutans biofilm pH on tooth and restoration surfaces
   Schlafer, Sebastian

3. Potential anticaries effects of prebiotic fibers: a systematic review of the literature
   Fernández, Constanza E.

4. Inhibitory effects of S-PRG filler-containing gel paste on Streptococcus mutans
   Nomura, Ryota

5. External pH regulates intracellular second messengers in Streptococcus mutans
   Ruksakiet, K.

6. Fluorescence technology differentiates bacterial microbiome deep dentin carious lesions in vivo
   Ribeiro, Apoena Aguiar

7. Detection of streptococcus mutans serotypes in biofilm and dentin caries lesions from children with early childhood caries
   Rodrigues, Lidiany

8. Effect of sweeteners on the development of dental caries under a microcosm biofilm model
   Magalhães, Ana Carolina

9. Effect of drops containing Lactobacillus reuteri on various caries-related variables in orthodontic patients
   Alforaidi, Sahal

10. Demineralization prevention with a new antibacterial restorative composite containing QASi nanoparticles in an in situ study
    Rechmann, Peter

15:00-15:30  Break
1. Interplay between brushing, slurry diluent and dilution ratio on erosive tooth wear
   Oba Sakae, Leticia

2. The action of 1450 and 5000 ppm of sodium fluoride on the erosion/abrasion of dentine
   Almohefer, Sami

3. The effect of hematopoietic stem cell transplantation on caries and hyposalivation
   Bulthuis, Marjolein

4. 1H-NMR fingerprinting of parotid saliva low-molecular weight organic components for caries-risk prediction
   Rovera, Angela

5. Microbial indicators of dysbiosis prior the early childhood caries
   Kahharova, Dono

6. Detection of uncommon bacterial diversity of dental caries in adults by Next Generation Sequencing
   Çelik, Zeynep Ceren

16:30-16:45 Break
15:30-16:30 Online poster session - FLUORIDE
Moderators: Stefania Martignon and Kristina Goršeta

1. TOF-SIMS as an alternative to the microbiopsy technique for determining enamel fluoride uptake
   Morawietz, Maria

2. Fluoride Concentration of Commercially available toothpastes in the Dominican Republic: a pilot study
   Abreu-Placeres, Ninoska

3. Effect of silver diammine fluoride on bond strength of restorative materials to natural carious dentin
   Prakash, Meghna

4. Nocturnal salivary fluoride bioavailability after brushing with high-fluoride dentifrice
   Campos Vale, Gláuber

5. Fluoride uptake by enamel after use of fluoride varnishes
   Zabokova Billbilova, Efa

6. Correlation between the dmft/DMFT index and fluoride in drinking water from the North Macedonia
   Ambarkova, Vesna

7. Fluoride concentration in Camellia sinensis teas from Argentina
   Valadas, L.A.R.

16:30-16:45 Break
1. Secondary caries adjacent to bulk or incrementally filled composites placed after selective excavation in vitro
   Askar, Haitham

2. To evaluate the caries inhibitory potential of 810 nm diode laser
   Sharma, Sonali

3. Do minimally invasive cavity principles really reduce volume loss?
   Yanikoğlu, Funda

4. Comparison of DIAGNOdent™ with SEM-EDX for chemical composition of primary and permanent enamel: in-vitro study
   Anandakrishna, Latha

5. DEHP causes enamel and dentin hypo-mineralization: a mouse model of low-dose exposure
   Bui, Ai Thu

6. The fate of 4 teeth treated with the Hall technique: histological and radiographic examination
   Mourad, Mhd Said

7. Pulpal response to the caries process in human teeth
   Sotirovska Ivkovska, Ana

16:30-16:45  Break
CONGRES HALL ZAGREB

16:45-17:30 Keynote lecture I
Moderators: Ivana Miletić and Hrvoje Jurić

16:45-17:30 GICs – biomimetic and bioactive approach to dental caries
Prof. Domagoj Glavina and Prof. Kristina Goršeta
(Zagreb, Croatia)

17:25-17:30 Discussion

18:00-20:00 Cooking School in Croatia
National event
**CONGRESS HALL ZAGREB**

12:10-12:50  **Sponsored symposium - SDI**

12:10-12:40  **Riva Star SDF and Riva Star Aqua trial in Cambodia – A behind the scenes look**  
Bethy Turton

12:40-12:50  **Q&A session**

12:55-13:40  **Keynote lecture II**  
Moderator: Audrey Hollanders

12:55-13:35  **Periodontal treatment and root caries**  
Marie-Charlotte and Renske Thomas  
*(Nijemegen, The Netherlands)*

13:35-13:40  **Discussion**
**CONGRESS HALL DUBROVNIK**

**13:45-15:00**  
**Online poster session - EPIDEMIOLOGY**  
Moderators: Christian Splieth and Gail Douglas

1. **The effect of MI Varnish™ on caries increment among 6 and 12 years old children in Riga, Latvia. A 3 year study**  
Gudkina, Jekaterina

2. **A social/behavioural gradient in dental health among preschool children: data from the second Italian pathfinder**  
Campus, Guglielmo

3. **Is cariology a topic of scientific interest today? Analysis of the references available on PubMed in the last 20 years**  
Cagetti, Maria Grazia

4. **Oral health behavior change of Moscow students during distance education due to Covid-19 epidemic**  
Kuzmina, Irina

5. **Child feeding practice and psychosocial risk factors associated with early childhood caries**  
Škrinjarić, Tomislav

6. **Effect of COVID-19 on the frequency of paediatric dental treatment in general anesthesia in Latvia**  
Maldupa, Ilze

7. **Oral health in Macedonian geriatric population associated with prosthetic status and comorbidity**  
Stavreva, Natasha

8. **Caries experience in elderly people consuming a milk-based drink nutritional supplement: a cross sectional study**  
Castro, Ramiro J.

9. **Estimating and comparing the burden of coronal and root caries in adults: A population-based study**  
Jardim, Juliana

**15:00-15:30**  
Break
CONGRESS HALL SPLIT

13:45-15:00  Online poster session - DIAGNOSIS
Moderators: Anahita Jablonski-Momeni and Klaus Neuhaus

1. Diffuse Reflection Spectroscopy used for the detection of dental caries
Charvát, Jindřich

2. Concordance between visual ICDAS criteria, stereomicroscopy and micro-CT
Usuga-Vacca, Margarita

3. How can caries lesion progression be predicted by severity clinically assessed? - a network meta-analysis
Braga, Mariana

4. Diagnostic methods for root caries lesions. A systematic review of the literature
Gambetta-Tessini, Karla

5. Generalizability of deep learning models for caries detection in Near-Infrared Light Transillumination images
Holtkamp, Agnes

6. Prediction of coronal and root caries progression based on caries activity classification at individual level
Rup, Ariel Goulart

7. Prevalence of hidden caries in premolars at a dental clinic in Japan
Sugiyama, Seiichi

8. Radiographic indicators for caries diagnosis in adolescents with high prevalence: a cross-sectional study
Maltaz, Marisa

9. Additional information from dental radiographs to clinical diagnosis of primary and secondary caries and restorations
Bakhshandeh, Azam

10. 3-D imaging with intraoral scanners is a valid tool for dental plaque planimetry
Giese-Kraft, Katja

15:00-15:30  Break
13:45-15:00  Online poster session - DE- AND REMINERALISATION
Moderators: Frank Lippert and Richard Wierichs

1. Influence of viscosity and thickening agent of bleaching gels on enamel demineralization and color change
   Torres, C.R.G.

2. Caries-preventive effect of varnishes differing in fluoride compounds on artificial enamel caries in vitro
   Wierichs, Richard Johannes

3. Fluorescence changes in artificial enamel lesions after exposure to sodium fluoride toothpastes of different compositions
   Bottenberg, Peter

4. Is enamel more permeable in patients with type-2 Diabetes Mellitus? - An in-vivo SEM evaluation
   Krithikadatta, Jogikalmat

5. Hydroxyapatite toothpaste for root caries prevention: a pH-cycling study
   Meyer, Frederic

6. Effects of zinc ions on enamel demineralisation at the ultrastructural level
   Lynch, Richard

7. Rinsing with statherin-derived peptide alters the proteome of the acquired enamel pellicle
   Buzalaf, Marília

8. Effect of different toothpastes containing either bioactive glass with low fluoride or high fluoride on artificial root caries
   Chen, Haoran

9. Enamel demineralization incidence in youth after 6 months treatment with braces
   Chałas, Renata

10. The effectiveness of black and green tea on remineralisation of artificial enamel lesions in situ
    El Shuwihdi, H.

15:00-15:30  Break
CONGRESS HALL DUBROVNIK

15:30-16:30 Online poster session - EPIDEMIOLOGY
Moderators: Guglielmo Campus and Mariana Braga

1. How to extrapolate trial-based economic evaluations to populations? – proposing sensitivity analyses based on national data
   Braga, Mariana

2. Systematic review on use of SDF varnish for management of dental caries in permanent teeth
   Baysan, A.

3. The impact of lifestyle change on oral health habits of Moscow schoolchildren during COVID-19 pandemic
   Said, D.

4. FAMI-PROTECT project: oral health in vulnerable migrants in Lazio, Italy
   Corridore, Denise

5. Caries incidence among dental-versus pharmacy students in relation to risk factors. A clinical, radiological and a questionnaire study
   Ekstrand, Kim

6. Visual inspection and toothbrush care: a mother-baby paired cross-sectional study
   Carvalho, Marcio

7. In situ investigation on the surface morphology of eroded enamel after using hydroxyapatite-containing formulations
   Witecy, Corinna

16:30-16:45 Break
CONGRESS HALL SPLIT

15:30-16:30 Online poster session - CLINICAL STUDIES
Moderators: Peter Bottenberg and Julian Schmoeckel

1. Effect of intensified prevention on caries risk children undergoing dental treatment under general anaesthesia
Alkilzy, Mohamad

2. A Survey of diabetologists’ knowledge and attitudes regarding the association between Diabetes Mellitus and odontostomatological diseases
Rahiotis, Chris

3. Salvadora persica extract (miswak) and oral health. A systematic review
Bontà, Giuliana

4. Short-term xerostomia after hematopoietic stem cell transplantation: preliminary analysis of the Orastem study
van Leeuwen, S.J.M.

5. Non-aerosol emergency paediatric dental treatments during the COVID-19 lock-down: a retrospective analysis
Al Masri, Ahmad

6. Dentist reproducibility, feasibility and acceptability of clinical classification of neighbour primary molar-teeth surfaces’ contour type
Cortés, Andrea

Schmoeckel, J.

16:30-16:45 Break
1. Treatment acceptance of hypersensitive carious teeth using two different treatment approaches: An observational cohort study
Santamaría, Ruth M.

2. Cariogenic potential of commonly used non-nutritive sweeteners: A systematic review and meta-analysis
Giacaman, Rodrigo

3. Loss of dental tissue after restoration or sealing of occlusal caries lesion: 3-4-year results
Maltz, Marrisa

4. Caries OUT COVID-19-adapted CCI multicentre study: baseline description of participants at Uruguay site
San-Martin, Magdalena

5. Restorations performance after selective removal of soft dentine: a controlled clinical trial – 18 months follow-up
Recchi, Andrea

6. Impact of cavitaded caries lesion on self perceived general well-being
Assunção, CM

7. Resin infiltration of proximal caries lesions in permanent teeth: systematic review and scenario analysis
Göstemeyer, Gerd
CONGRESS HALL ZAGREB

16:45-17:30  Keynote lecture III
Moderator: Sebastian Paris

16:45-17:25  The 2021 WHO Resolution on Oral Health: Impact for Cariology and Caries Management in the next Decade?
Prof. Falk Schwendicke and Julian-Markus Fischer
(Berlin, Germany)

17:25-17:30  Discussion

CONGRESS HALL GENERAL ASSEMBLY

17:35-18:35  General Assembly

CONGRESS HALL ZAGREB

18:45  Gala music party
CONGRESS HALL ZAGREB

14:00-16:00 SATURDAY AFTERNOON SYMPOSIUM
Minimally invasive dentistry – challenges for everyday practice
Moderators: Christian Splieth and Domagoj Glavina

14:00-14:30 Minimally invasive approaches in dentistry: what’s in it for whom?
Erik Vermaire (Leiden, The Netherlands)

14:30-14:50 Minimally invasive dentistry; where are we with it as a paradigm for dental care?
Nicola Innes (Cardiff, Ireland)

14:50-15:30 Minimally invasive dentistry; a growing suite of techniques ready for use?
Ruth Santamaria Sanchez (Greifswald, Germany)

15:30-16:00 Discussion

16:00-17:00 Closing ceremony
Croatian cuisine is heterogeneous and is known as a cuisine of the regions, since every region of Croatia has its own distinct culinary tradition. Its roots date back to ancient times. The differences in the selection of ingredients and forms of cooking are most notable between those in mainland and those in coastal regions.

Our Cooking School in Croatia, along with our charming hosts/chefs, will bring you closer to some of the best known and loved Croatian dishes. Put your aprons on and join us on our gastronomic journey. But most importantly, prepare to have lots of fun!
You will get a chance to tune in live in the cooking school and show us your completed dishes! And we do look forward to that.

Cooking School organized and executed by Prof Hrvoje Jurić and his pediatric dentistry residents!
**ISTRIAN COLD PLATTER**

**INGREDIENTS**
- Istrian prosciutto
- sausage with truffles
- Istrian ombolo
- Istrian bacon
- variety of cheeses (goat cheese, sheep milk cheese, truffle cheese)

**RECIPE**
Cut and serve

**PUMPKIN SOUP**

**INGREDIENTS (FOR 8-10 SERVINGS)**
- 3 kg butternut squash (cca 3 pieces of butternut squash)
- 4 smaller red onion heads
- 6 garlic cloves or garlic powder
- 240 ml of vegetable stock (bouillon cube)
- salt
- pepper
- nutmeg
- spices of choice (chilli, chives, oregano)
- 300 ml of cooking cream
- pumpkin oil
- pumpkin seeds
- olive oil

**RECIPE**
Prepare the vegetable stock (cube) according to the instructions. Cut the onion into little cubes and sauté in olive oil with garlic until glassy. Cut the pumpkin in half lengthwise, remove the seeds with a spoon, and remove the skin with a large kitchen knife. Cut the pumpkin flesh into cubes about 2 cm in size and add to pan with the onions. Simmer the vegetables for ten minutes, then add the vegetable stock. Cook for 30 minutes on low heat. Add salt, pepper, and spices of your choice. Remove the pot from the heat and blend the vegetables into a thick, creamy soup with a hand blender. Add the cooking cream. Cook for a few more minutes. Toast pumpkin seeds over low heat. Sprinkle the finished soup with toasted pumpkin seeds and a little pumpkin oil.
PORK CHOPS IN FOIL

INGREDIENTS (FOR 10 SERVINGS)
10 deboned pork chops
10 medium-sized potatoes
2 red onion heads
25 dkg muschrooms
salt
pepper
Vegeta seasoning
garlic powder or one garlic clove
per one pork chop
olive oil
aluminum foil
parchment paper

RECIPE
Remove bones from pork chops. Add salt, pepper, a little Vegeta seasoning and a little garlic powder. Peel the potatoes and cut them into thin slices. Cut the onions into thin rings and the mushrooms into slices. Cut aluminum foil and baking paper into 10 pieces, large enough that the pork chops and potatoes can be packed in packets. Arrange in a large bowl: aluminum foil, baking paper, olive oil, sliced potatoes, pork chop, mushrooms, onions, garlic clove, olive oil. Close the packets. Bake at 200 degrees C for about 45 min to 60min (until the potatoes are soft).
ROŽATA
(Dalmatian pudding)

INGREDIENTS (FOR 8-10 CERAMIC BOWLS OR ONE LARGER BAKING MOLD WITH A DIAMETER OF 24 CM)

For caramel:
8 tablespoons of sugar
mall amount of water

For cream:
8 eggs
12 tablespoons of sugar
small amount of rum
lemon zest of 2 large lemons
2 tablespoons of flour
1 l milk
2 vanilla sugar packets

RECIPE

For caramel, add the 8 tablespoons of sugar into a pan, add some water and then place on low heat until it dissolves. Turn up the heat until the sugar syrup takes on a golden brown color. Do not mix the sugar during this process. Remove the pan from the heat and carefully spread the caramel into the ceramic serving bowl/s. This must be done fairly quickly as the caramel will harden fast. Turn the serving bowl/s upside down so that the caramel slowly covers the sides and leave to cool. Preheat the oven to 180°C or 356°F. For cream, warm the milk in a bowl and slowly add the sugar until it dissolves. Remove from heat and allow to cool to room temperature. Next, whisk the eggs together with vanilla sugar. It's better to use a fork or hand whisk for this as you don't want the eggs to foam. Add the lemon zest, flour and rum and gently mix. Now pour the milk into the mixture and slowly stir until everything is combined together. Pour the resulting mixture slowly through a sieve and then into the ceramic serving bowl/s with the caramel. Place the serving bowls into a deep baking tray and then add hot water to about 2/3 the height of the ceramic serving bowls. Bake for about 30-40 minutes until the crust forms, then carefully remove the bowls from the hot water and leave them to cool to room temperature. Cover the ceramic bowls with cling film and place in the refrigerator to fully chill. When ready to serve, carefully separate it from the edge of the mold with a knife and turn it on a plate.

Bon apetit!😊
**OTHER INFORMATION**

**Congress venue**
Online congress  
orca2021.com

**Official language**
Official language is English. Simultaneous translation will not be provided.

**Certificate of Attendance**
A Certificate of Attendance will be issued to all registered participants.

**Important information**
All congress materials, lectures, and sponsors list will be available until September 01, 2021, so participants may view certain portions after the congress if they are unable to follow during congress dates.

**CONTACT**

**Technical Organizer:**
Conventus Credo d.o.o.
Baltazara Bogišića 2, 10 000 Zagreb
MB: 2102510
OIB: 94766180676
ID: HR-AB-01-08057163
Tel: +385 1 4854 696
Fax: +385 1 4854 580
E-mail: danijela@conventuscredo.hr
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