PRELIMINARY PROGRAM

ORCA
ONLINE CONGRESS
July 7-10 2021

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CONGRESS HALL ZAGREB

13:00-17:00 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
Prof. Christian Spleith, ORCA President (Greifswald, Germany)
Prof. Ilze Akota, ADEE President (Riga, Latvia)

Prof. Andreas Schulte (Witten, Germany)

Dr. Javier Cortes (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
**CONGRESS HALL ZAGREB**

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**  
Education and Scientific Committee, Speakers and Leaders of National CC Versions

17:00  **Closing of the Event**

Scientific Committee: Andreas Schulte**, Joana Carvalho**, Marie-Charlotte Huysmans** and Stephanie Tubert-Jeannin  
** Members of ORCA Education Committee

17:15-18:30  **Opening Ceremony**

*Invited lecture - 30 min*

**From science to industry**  
academician Slobodan Vukičević (Zagreb, Croatia)
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12:30-13:30  ORCA Awards

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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
   H. Yang

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
   Yılmazkasapoglu Türkay, 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
CONGRESS HALL SPLIT

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?
   Schlenz, M.A.

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
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**
   Zúñiga-Corvalán, Camila

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

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**
   Neves, Beatriz Gonçalves

8. **Effect of sweeteners on the development of dental caries under a microcosm biofilm model**
   Nascimento, Caren Augustinho

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
Celik, Zeynep Ceren
**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**
   Lopes, Maria Suzi

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

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

7. **Fluoride concentration in Camellia sinensis teas from Argentina**
   Valadas, L.A.R.
CONGRESS HALL ŠIBENIK

15:30-16:30 Online poster session - HARD TISSUE
Moderators: Monique van der Veen and Gerd Gostemeyer

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?
   Şeker, Merve

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 Ivkova, Ana
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16:45-17:30  Keynote lecture I
Moderators: Ivan Miletić and Hrvoje Jurić

GICs – biomimetic and bioactive approach to dental caries
Prof. Domagoj Glavina and Prof. Kristina Goršeta (Zagreb, Croatia)

18:00-20:00  Cooking School in Croatia
National event
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12:20-12:50  Sponsored symposium - SDI

12:20-12:40
Riva Star SDF and Riva Star Aqua trial in Cambodia – A behind the scenes look
Bethy Turton

12:40-12:50
Discussion

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

Periodontal treatment and root caries
Mari-Charlotte Huysmans and Renske Thomas
(Nijemegen, The Netherlands)
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
   Jekaterina, Gudkina

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
   Moura, Maurício dos Santos
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
Souza Rocha, Elizabeth

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
Alvarez, Licet

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
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
   Amaechi, Bennett T.

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
   Taira, E.

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
   Kozak, Urszula

10. The effectiveness of black and green tea on remineralisation of artificial enamel lesions in situ
    El Shuwihdi, H.
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15:00-15:30  Sponsored symposium

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
Mungur, 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
Kerzel, Peter
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
   Ekstrand, Kim

   Schmoeckel, J.
Online poster session - CLINICAL STUDIES
Moderators: Rodrigo Giacaman and Ruth Santamaria

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
   Aravena-Orellana, Belén

3. Loss of dental tissue after restoration or sealing of occlusal caries lesion: 3-4-year results
   Carraro, R.L.C.

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 cavitated 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
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)
CONGRESS HALL ZAGREB

13:15-13:45  Sponsored symposium

14:00-16:00  SATURDAY AFTERNOON SYMPOSIUM
Minimally invasive dentistry – challenges for everyday practice

14:00-14:30  Minimally invasive approaches in dentistry: what’s in it for whom?
Eric 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