



the 70th congress

ORCA 2023 meets **EFCD**

Organisation for Caries Research &
European Federation for Conservative Dentistry,
Egmond aan Zee, the Netherlands, 5-8 July



Poster Sessions at a Glance

Session 1 Epidemiology

Thursday, July 6 2023, Afternoon

Chair Persons: *Julian Schmoeckel, Lene Hove*

- 1 Global prevalence of early childhood caries. Systematic review and meta-analysis.**
Maklennan, Anastasia | Esteves-Oliveira, Marcella | Guglielmo, Campus*
- 2 Caries status in 12-year-old children, health care systems and socio-economic conditions across European Countries. A systematic review and meta-analysis**
Vukovic, Ana | Schmutz, Kian Alessandro | Borg-Bartolo, Roberta | Cocco, Fabio | Sava Rosianu, Ruxandra | Jordan, Rainer | MacLennan, Anastasia | Cortes-Martinicorenas, Javier F. | Rahiotis, Christos | Madléna, Melinda | Arghittu, Antonella | Castiglia, Paolo | Estevez-Oliveira, Marcella | Cagetti, Maria Grazia | Wolf, Thomas G. | Campus, Guglielmo*
- 3 Adjustment for school type related selection bias in 12-yr-olds in German National Oral Health Survey**
*Wahl, Goetz | Splieth, Christian | Schmoeckel, Julian**
- 4 Association between tooth brushing frequency and the increment of dental caries and tooth loss in adolescents**
Brusius, Carolina | Alves, Luana | Maltz, Marisa*
- 5 Early childhood predictors for dental caries in primary teeth: a machine learning approach**
*Reyes, Lilian T. | Knorst, Jessica K. | Ortiz, Fernanda R. | Brondani, Bruna | Emmanuelli, B. | Guedes, Renata S. | Ardenghi, Thiago M. | Mendes, Fausto M.**
- 6 Caries experience of 7-year-old children living in Uzbekistan: an epidemiological study**
Khudanov, B.O. | Gulyamov, D.T. | Tuygunov, N.N. | Turaev, K.I. | Abdurahimova, F.A. | OybutaevSh.U. | Schulte, A.G.*
- 7 First oral health survey among schoolchildren in Burundi**
Lamloum, Demetrio | La Corte, Pino | Nkeshimana, Serges | Tuyikeze, Olivier | Iradukunda, Pacifique | Nibigira, Eleonore | Viarchi, Arianna | Campus, Guglielmo*
- 8 defs/DMFS improvements in the Public Dental Health Service for Children/ Adolescents in Denmark during 1972-2022**
Christiansen, Jette | Christiansen, M. E. Christian | Ekstrand, Kim R*

- 9 **Validation of the Turkish child oral health impact profile-short form (COHIP-SF 19) in children with molar-incisor hypomineralization**
*Tugcu, Nihan | Bekiroglu, Nural | Kargul, Betul | Durmus, B**
- 10 **Progression of dental caries to severe stages in the primary dentition: a 7-year cohort study**
Brondani, Bruna | Knorst, Jessica | Ardenghi, Thiago | Mendes, Fausto*
- 11 **Caries experience of second permanent molars among 11-15-year-old children in Greifswald: a cross-sectional analysis**
Mourad, Mhd Said (MS. Mourad) | Al Masri, Ahmad (A. Al Masri) | Pink, Christiane (C. Pink) | Vielhauer, Aninna (A. Vielhauer) | Abdin, Maria (M. Abdin) | Splieth, Christian H. (CH. Splieth)*
- 12 **Caries Prevalence on young first and second permanent molars: a cross-sectional study in Greifswald**
Al Masri, Ahmad (A. Al Masri) | Mourad, Mhd Said (MS. Mourad) | Pink, Christiane (C. Pink) | Vielhauer, Aninna (A. Vielhauer) | Abdin, Maria (M. Abdin) | Splieth, Chrisitan (C. Splieth)*
- 13 **Fissure sealing and caries experience in German Special Olympics Athletes between the years 2008-2018**
Schmidt, P. | Czenskowski, F.S.H. | Kaschke, I. | Schulte, A.*
- 14 **Dental caries and tooth wear: observational study among an adult population in France**
Decup, Franck | Doméjean, Sophie | Lefèvre, Solène | Léger, Stéphanie | Grosogogeat, Brigitte*
- 15 **Self-Reported Oral Health in a Population of Pregnant Portuguese Women.**
Azevedo, Maria João | Ferreira, Ana Filipa | Ramalho, Carla | Sampaio-Maia, Benedita | Zaura, Egija*
- 16 **Factors associated with missing teeth in the general population of Bialystok, Poland - preliminary report**
Bagińska, Joanna | Rodakowska, Ewa | Gabiec, Katarzyna | Łaguna, Wojciech | Kamińska, Inga | Stachurska, Zofia | Dubatówka, Marlena | Kondraciuk, Marcin | Kamiński, Karol*
- 17 **Dental Caries and Periodontal problems among Refugees: A Scoping Review**
Banihashem Rad, Seyed Ahmad | Esteves Oliveira, Esteves Oliveira | Maklennan, Anastasia | Campus, Guglielmo*
- 18 **Evaluation of dental caries and oral health behavior in middle-aged and elderly persons living in the community: A pilot study**
Roccuzzo, A | Borg-Bartolo R. | Schimmel, M. | Tennert, C. | Manton, DJ | Campus, G.*
- 19 **Characteristic of factors associated with dental caries in Polish adult population- preliminary study**
Rodakowska Ewa | Baginska Joanna | Jamiolkowski Jacek | Kaminska Inga | Gabiec Katarzyna | Stachurska Zofia | Dubatowka Marlena | Kondraciuk Marcin | Kaminski Karol*
- 20 **Exploring caries risk indicators among 65-year-olds in Oslo**
Young, Alix | Diep, My Tien | Sødal, Anne Thea Tveit | Skudutyte-Rysstad, Rasa | Hove, Lene Hystad*
- 21 **Caries experience among 65-year-olds in Oslo**
Hove, Lene Hystad | Diep, My Tien | Sødal, Anne Thea Tveit | Young, Alix | Skudutyte-Rysstad, Rasa*

Session 2 Clinical studies part 1 & Restorative

Thursday, July 6 2023, Afternoon

Chair Persons: Max Cenci, Áine Lennon

- 22 Dental practitioner's treatment choices for replacement of defective restorations**
Bottenberg, Peter | Jacquet, Wolfgang | Vanwing, Tom | Hamouchi, Mimoun | Vanden Abbeele, Astrid*
- 23 Attitude towards the deep treatment of caries. Survey on a clinical case**
S. Arroyo-Bote a-b | C. Bennasar Verges a | S. Herrero Tarilonte a | P. Riutord Sbert a-b | A. A. López-González a-b | D. Gonzalez Carrasco a-b*
- 24 Can marginal defects predict restorations' failure? A nested cohort study**
Chaves, E.T. | Romero, V.H.D. | Lima, G.S. | Mendes, F.M. | Huysmans, M.C.D.N.J.M. | Cenci, M.S.*
- 25 Prospective randomized split-mouth study investigating class-II-restorations with novel self-adhesive-bulk-fill and conventional bulk-fill-composites: 4-year results**
Scholz, Konstantin Johannes | Hiller, Karl-Anton | Ettenberger, Sarah | Cieplik, Fabian | Buchalla, Wolfgang | Federlin, Marianne*
- 26 Evaluation of MTA in direct pulp capping treatment of immature permanent teeth: retrospective study**
Kalyoncu, Isil Ozgul | Sadikoglu, Ayse Nur | Eren Giray, Figen | Kargul, Betul*
- 27 Shear bond strength of 4 dental adhesives placed following selective fluorescence caries removal in vitro**
Lennon, Áine M | Nina, Reich | Ebensberger, Helga | Ferstl, Gerlinde | Hiller, Karl-Anton | Buchalla, Wolfgang*
- 28 Effectiveness of polywave LED curing units for postcuring of 3D-printed crown and bridge resin**
Chang, J | Chung, SH | Choi, Y | Kim, S | Jiang, E | Lim, BS*
- 29 Systematic review and network meta-analysis of restorative therapy and adhesive strategies in root caries lesions**
Schmidt, Jana | Proesl, Susanne | Schulz-Kornas, Ellen | Haak, Rainer | Meyer-Lueckel, Hendrik | Campus, Guglielmo | Esteves-Oliveira, Marcella*
- 30 Success rate of Hall Technique for restoring carious primary molars - Systematic review and meta-analysis**
Tedesco, TK | Gallegos, CL | Silva, GS | Gimenez, T | Braga, MM | Araujo, MP | Jayaraman, J | Al-Yaseen, W | Innes, NP | Raggio, DP*
- 31 Micro-tensile bond strength between 3D printing resin and acrylic provisional resin and fracture toughness of combined with different thickness**
Jang, Jin-Young | Yu, Young Ho | Seo, Deog-Gyu | Park, Jeong-won*
- 32 Conservative Esthetic Approach for Treatment of Enamel Developmental Defects**
Kamel, Mohamed | Wahba, Nour*
- 33 The influence of food pigments on the color of composite materials**
Zubrzycka, Joanna | Jankowska, Natasza | Kaminska-Pikiewicz, Katarzyna | Chalas, Renata*

- 34 Curing Light Beam's inhomogeneity affects resin composite's microhardness: effect of thicknesses and shades**
Choi, M | Kim, DH | Park, Sung-ho*
- 35 The Effect of Er, Cr- YSGG Laser Caries Removal on The Bond Strength of a Universal Adhesive to Dentin**
Yazicioglu Pirpir, Yeliz Hayriye | Cetin Tuncer, Nurgul | Barutcugil, Cagatay*
- 36 Comparison of surface roughness of glass ionomer based restorative materials after brushing with different toothpastes**
Mangut, Berrak | Gocmen, Gulcin Bilgin | Atali, Pinar Yilmaz*
- 37 Assessment of surface properties of glass ionomers by SEM/EDX after brushing with different toothpastes**
Gocmen, Gulcin Bilgin | Mangut, Berrak | Tarcin, Bilge*
- 38 Investigation of the effect of different beverages on the hardness and roughness of restorative materials**
Çakmak, İremnur | Dülger, Kıvanç | Pürçek, Genç ağa*

Session 3 Diagnosis & Microbiology

Thursday, July 6 2023, Afternoon

Chair Persons: *Schlafer, Sebastian, Dono Kahharova*

- 39 Diagnosing exposed dentin by multiple raters allows new insights into diagnostic decision making of dentists**
Vach, Kirstin | Ganss, Carolina | Schlueter, Nadine | Vach, Werner*
- 40 Accuracy of photographs taken with a smartphone to detect active caries lesions in orthodontic patients**
*Takahama, Ricardo | Markezan, Patricia | Nagipe, Larissa | Swarowsky, Luciana | Dettmer, Bianca | Alves, Luana | Zenkner, Julio**
- 41 Development of a vision transformer model for caries detection and localisation on dental photographs**
Kühnisch, Jan | Felsch, Marco | Anne Schlickerrieder | Engels, Paula | Schoenewolf, Jule | Hickel, Reinhard | Heinrich-Weltzien, Roswitha | Gruhn, Volker | Hesenius, Marc | Meyer, Ole*
- 42 Fluorescence-based detection of secondary caries lesions around amalgam restorations**
Hyung-Suk, Lee | You-Jin, Maeng | Eun-Song, Lee | Elbert, de Josselin de Jong | Baek-Il, Kim*
- 43 Comparison of visual and online digital images using merged International Caries Detection and Assessment System (ICDAS) codes in dental undergraduate students**
Mohamed Zohdi, Noorharliana | Abu Bakar, Norashikin*
- 44 Remote Caries Lesion Assessment Using CariesCare International Criteria: Perspectives for Teledentistry**
Abreu-Placeres, Ninoska | Yunes-Fragoso, Paula | Rodriguez, Alejandra | Garrido, Luis Eduardo | Ekstrand, Kim Rud | Beltrán, Edgar Orlando | Cortés, Andrea | Douglas, Gail VA | Newton, Jonathon Timothy | Pitts, Nigel B | Deery, Chris | Martignon, Stefania*
- 45 In-vitro performance of BlueCheck liquid for detection of initial lesions on occlusal surfaces**
Jablonski-Momeni, Anahita | Müller, Mara | Bottenberg, Peter*
- 46 Ultrasound Device, Antimicrobial Photodynamic Therapy and Bioactive Glasses for the Treatment of Dentin Caries Lesions**
*Besegato, JF | Borges Gobbo de Melo, P | Bernardi, ACA | Bagnato, VS | de Souza Rastelli, AN**
- 47 A combined microscopy-based analysis of biofilm pH and biofilm matrix carbohydrates**
Del Rey, Yumi C. | Schlafer, Sebastian*
- 48 Modulation of mutans streptococci cariogenic biofilm represent a promising targeted preventive therapy for dental caries.**
*Lowder, Ashley | Ahn, Sean | Liu, Chuwen | Cho, Hunyong | Arnold, Roland R | Divaris, Kimon | Wu, Di | Ribeiro, Apoena Aguiar**
- 49 The antimicrobial effect of two Vitamin D compounds on Streptococcus mutans and their impact on virulence gene expression**
Baysan, Aylin | Picolo, Marta | Stephen, Abish*

- 50 Association of *Helicobacter pylori* in oral cavity with dental caries**
Kadota, Tamami | Hamada, Masakazu | Okuda, Makoto | Ogaya, Yuko | Nomura, Ryota | Nakano, Kazuhiko*
- 51 Antibiofilm activity of a *Curcuma xanthorrhiza* oil nanoemulsion on dental microcosm biofilms**
Cho, Mu-Yeol | Lee, Eun-Song | Elbert, de Josselin de Jong | Kim, Baek-Il*
- 52 Multiple-enzyme treatment reduces biofilm formation in a highly acidogenic in vitro model**
Rikvold, Pernille Dukanovic | Møllebjerger, Andreas | Meyer, Rikke Louise | Schlafer, Sebastian*
- 53 *Rothia* species in caries-free and caries-affected toddlers**
Kahharova, Dono | Brandt, Bernd W | Buijs, Mark J | Peters, Mathilde | Jackson, Richard | Hara, Anderson | Keels, Martha Ann | Levy, Steven | Zaura, Egija | Fontana, Margherita*
- 54 Antimicrobial activity of probiotic strains against caries-associated oral bacterial species – an in vitro study**
Reichardt, E. | Alig, L. | Kulik, E. | Bornstein, M. M.*
- 55 Effect of a solution containing *Malva sylvestris* on microcosm biofilm formed on tooth**
Braga, A. S. | Almeida, G. P. | Silva, L. R. A. | Souza, B. M. | Magalhães, A. C.*
- 56 Synergistic effect of α -(1→3) glucanase and DNase on the removal of *S. mutans* biofilm**
Queiroz, Mateus Xavier | Cortez, Anelyse Abreu | Pellegrini, Vanessa de Oliveira Arnoldi | Cury, Jaime Aparecido | Polikarpov, Igor | Ricomini-Filho, Antônio Pedro*
- 57 Biofilm formation on dentin influenced by toothpastes in situ**
Rupf, Stefan | Hannig, Matthias*
- 58 Evaluation of optimal pH and temperature of α -(1→3) glucanase from *Prevotella melaninogenica***
Ricomini Filho, Antonio Pedro | Cortez, Anelyse Abreu | Queiroz, Mateus Xavier | Pellegrini, Vanessa de Oliveira Arnoldi | Polikarpov, Igor*

Session 4 ORCA Nathan Cochrane Junior Scientist Award part 1

Friday, July 7 2023, Morning

Chair Persons: Sebastian Paris, Dongmei Deng

- 59 Caries-inhibiting activity of Silver Diamine Fluoride: Effects of Potassium Iodide**
ElSharkasi, Lamis | Bingle, Lynne | Rodd, Helen | Martin, Nicolas | Deery, Christopher*
- 60 Effect of Ca-Coacervates and its components on enamel lesions in de- and remineralizing environments in vitro**
Kharbot, Basel | Gruber, Dominik | Cölfen, Helmut | Paris, Sebastian*
- 61 Effect of Polyacrylic Acid on mineralization processes in artificial enamel lesions**
Vieweg, Paul | Kharbot, Basel | Dieke, Maj | Cölfen, Helmut | Staiger, Marc | Paris, Sebastian*
- 62 Assessment of Enamel Remineralisation After Treatment with Different Varnishes**
Parlakyildiz Gokce A. | Kelesoglu E. | Sagir K. | Kargul B.*
- 63 A new approach for edx fluorescence methodology and sem observations combined with light microscopic analysis**
Kukey Pelin | Turkmen Cafer | Cimilli Zuhre Hale | Zeren Muzaffer*
- 64 Impact of SDF + KI Topical Application on the Remineralisation of Deciduous teeth.**
Kaur, Mandeep | Anderson, Paul | Wong, Ferranti | Shahid, Saroash*
- 65 The performance of SoprolIFE for detection of root caries**
Chen, Haoran | Hill, Robert | Baysan, Aylin*
- 66 Validity and Reliability of OCT in the diagnosis of approximal carious lesions**
Strumpski, Michaela | Schneider, Hartmut | Rüger, Claudia | Schulz-Kornas, Ellen | Haak, Rainer*
- 67 Efficacy of herbal toothpastes containing Moringa Oleifera and hemp on dentin tubule occlusion**
Alkan, Elif | Tağtekin, Dilek | Korkmaz, Nesrin*
- 68 The efficacy of some commercial desensitizing toothpastes on dentin tubules occlusion and on dentin hardness**
Taraboanta, I | Bologa, E | Nica, I | Georgescu, A | Stoleriu, S | Andrian, S*
- 69 Does biofilm formation correlate with the numbers of bacterial cells initially attached to a surface?**
Sun C | Mazurel D | Ligtenberg A.J.M | Deng D*
- 70 Evaluation of the variability of supragingival biofilm clinical isolates**
Ghaouas, Soukaina | Chala, Sanaa*
- 71 Factors influencing exopolysaccharide formation in saliva-derived polymicrobial biofilms**
Mazurel, Danuta | Exterkate, Rob | Deng, Dongmei*
- 72 Ratiometric monitoring of extracellular pH at the microscale in in situ-grown dental biofilms exposed to different saliva flow velocities and film thicknesses**
Kristensen, Mathilde Frost | Lund, Marie Braad | Schramm, Andreas | Lau, Ellen Frandsen | Schlafer, Sebastian*

- 73 Aerosol formation and potential infectivity of various dental treatments**
Melzow, Florentina | Rese, Tim | Kertzsch, Ulrich | Paris, Sebastian*
- 74 Comparison of Two Techniques for Analyses of Cone Beam Computed Tomography Measurements of Tertiary Dentin**
Baraka, Marwa | Fontana, Margherita | Cevdanes, Lucia | Benavides, Erika | Ruellas Antonio | Moustafa, Nourhan*
- 75 Identifying Internal Changes in the teeth in response to enamel cracking using X-ray Microtomography**
*Jamil, Yousaf**
- 76 Assessment of microtensile bond strength of different caries removal techniques with ICDAS scores**
Kanar, Özlem | Tağtekin, Dilek | Korkut, Bora | Yanıkoğlu, Funda*

Session 5 Behavioural Sciences, Public Health & Education

Friday, July 7 2023, Morning

Chair Persons: *Ilona Persoon, Daniela Raggio*

- 77 Snapsnack: taking photographs for registration of food frequency intake, a pilot study**
Lagerweij, Maxim | Volgenant, Catherine*
- 78 An update of practitioners' thresholds for restorative intervention of carious lesions: Systematic Review**
Lundbeck, Heather | Innes, Max | Al-Yaseen, Waraf | Raggio, Daniela | Innes, Nicola*
- 79 Development of an Evidence-Based Mobile Health Application for, and with, Parents to Improve Children's Oral Health**
Raggio, Daniela P | Al-yaseen, Waraf | Araujo, Mariana P | Innes, Nicola*
- 80 Perception of care worker's oral-related activities of day and night care centers for elderly**
*CHOI, YONGKEUM | YUN, JIHYE | CHA, EUNKYUNG | PARK, HYANGAH**
- 81 Qualitative study of older patients' perceptions of root caries treatment with silver diamine fluoride**
*Sommerfeldt, Wiebke | Gellert, Paul | Müller, Anne | Götze, Nirina | Göstemeyer, Gerd**
- 82 Association of dental caries according to the dietary pattern of rice**
Ryu S.H. | Kim S.J. | Cho H.J. | Wang Z.L. | Lee H.J.*
- 83 Trend analysis between interdental cleaning devices and DMFT among the Korean population**
Wang Z.L. | Kim S.J. | Cho H.J. | Ryu S.H. | Song Y.H.*
- 84 Do air purifiers reduce viral aerosol spreading during simulated caries-related tooth-preserving operative care?**
Beltrán, Edgar | Castellanos, Jaime | Allison, James | Holliday, Richard | Jakubovics, Nicholas | Avila, Viviana | Martignon, Stefania*
- 85 Macedonian pregnant women's knowledge and attitudes about oral health**
Ambarkova Vesna | Ambarkov Jovan | Sulejmani Arjeta | Ivanovski Kiro | Karakamcev Andrej*
- 86 Dental caries factors in children aged 18 months in a core city of Japan**
Masatoshi Otsugu | Yusuke Mikasa | Taro Matsuoka | Katsura Matsunami | Motomi Nakamura | Atsushi Kondo | Makoto Kitatani | Shozo Wada | Tsutomu Sasabe | Takuji Hoshina | Takahiro Kato | Tetsuya Manabe | Takafumi Kato | Kazuhiko Nakano*
- 87 Consequences of untreated dental caries in a vulnerable population in the Netherlands**
Gitz, S. J. | Volgenant, C. M. C. | van der Heijden, G. J. M. G.*
- 88 Herbal mouthrinses for prevention of dental caries in children and adolescents – A Systematic Review**
SAIKIA, ANKITA | MS Muthu | Abirami S | Akila G | Krithika C | Richard K*
- 89 Latin American Consensus in Spanish of Cariology Teaching for Dental Schools**
Martignon, Stefania | Jacome-Lievano, Sofia | Malheiros, Zilson | Stewart, Bernal | Pozos-Guillén, Amaury de J. | Sampaio, Fabio | Giacaman, Rodrigo | Bullen, Miriam | Abreu-Placeres, Ninoska | Aranguiz, Vicente | Squassi, Aldo | Fernández, Constanza E. | Hugo, Fernando Neves | Gudiño, Sylvia | Pardo, Maria Isabel | González, Mónica | Zarta, Olga | Garcia, Mauricio |*

Salazar, Lupe | Fontana, Margherita | Santamaría, Ruth M. | Melo, Paulo | Castillo, Jose Luis | Cortes, Andrea

- 90 Consensus for Teaching Dental Caries in Portuguese Language for Brazilian Dental Schools**
Sampaio, Fabio* | Bonecker, Marcelo | Paiva, Saul | Alex Arthur, Rodrigo | Cohen-Carneiro, Flavia | Rafael Ditterich, Rafael | Schneider Pires, Fabiana | Wang, Linda | Maria Cavalcante, Larissa | Gatti-Reis, Luisa | Borges Spínola, Vitoria | Scavuzzi, Ana Isabel | Malheiros, Zilson | Stewart, Bernal | Martignon, Stefania | Carcereri, Daniela | Fontanella, Vania
- 91 Minimal invasive treatment choice based on macroscopic and histological image diagnosis by dentists and students**
Kuzmina, Irina* | Said, Daria | Kuznetsov, Pavel | Pazdnikova, Nadezhda | Lapatina, Alla
- 92 Attitude and practice of faculty members toward “Minimal Invasive Dentistry”: A study in Iran and Turkey**
Asgari Imaneh* | Yilmazkasapoglu, Ece | Kargül, Betül
- 93 Silver diamine fluoride use among Italian dentists: a questionnaire survey**
Cagetti, Maria Grazia* | Salerno, Claudia | Camoni, Nicole | Cirio, Silvia | Campus, Guglielmo
- 94 Caries risk assessment by Dutch dental students**
Persoon, Ilona F.* | Volgenant, Catherine M.C. | Giacaman, Rodrigo A. | Doméjean, Sophie | de Soet, Hans (J.)J.
- 95 The inter-rater reliability of oral hygiene students and lecturers assessing preclinical cavity preparation exams.**
Wijzenbeek, Tjitske* | van der Veen, Monique
- 96 Where do we put the money for implementing active learning on caries detection?**
Braga, Mariana Minatel* | Yampa-Vargas, Jhandira Daibelis | Machado, Thais Gomes de Oliveira | Oliveira, Gabriele | Imparato, José Carlos | Raggio, Daniela Prócida | Mendes, Fausto Medeiros | IuSTC Group
- 97 Effectiveness of Dental Faculty Education Intervention in Caries Management**
Nanda, Shubha* | Ferreira Zandoná, Andréa | Soi, Poonam | Jain, Shruti

Session 6 ORCA Nathan Cochrane Junior Scientist Award part 2

Friday, July 7 2023, Afternoon

Chair Persons: *Rodrigo Giacaman, Clarissa Bonifacio*

- 98 Impact of Silver Diammine Fluoride Use on the Need for Dental General Anaesthesia Treatment in Children**
*Abdulrahim, Ruba**
- 99 Differential Learning vs. Conventional Method in Improving Tooth Brushing in Children: A Randomized Controlled Trial**
Leghrouz, Loay | Khole, Manasi R. | Splieth, Christian H. | Schmoedel, Julian*
- 100 Oral health and dental anxiety in recall patients in a specialized pedodontic university clinic**
Karim, Ramiar | Schmoedel, Julian | Splieth, Christian*
- 101 The effect of different sweeteners on oral microbiome: a clinical exploratory pilot study**
Zakis, Davis R. | Van der Waal, Suzette V. | Brandt, Bernd W. | Keijser, Bart J. F. | Crielaard, Wim | Zaura, Egija | Volgenant, Catherine M. C.*
- 102 Variations in Salivary Composition upon a Single Protein-Rich Food Ingestion; A Pilot Study.**
Echeverría, C | García-Manríquez, N | Villalobos-Contreras, J | Echeverría, D | Lozano, C | Fernández, CE | Gambetta-Tessini, K | Valdés, S | Mira, A | Giacaman, R*
- 103 DMFT related dental plaque scoring by using different imaging systems**
Meseli, Simge | Korkut, Bora | Tagtekin, Dilek | Yanikoglu, Funda*
- 104 Sixty-month clinical evaluation of a universal adhesive's different adhesive strategies in Class II bulk-fill restorations**
Uslu Tekce, Aybuke | Yazici, A. Ruya | Kutuk, Zeynep Bilge*
- 105 The effect of considering marginal defects when assessing posterior restorations – the CaCIA Cluster Randomized Controlled Trial**
Digmayer Romero, Vitor Henrique | Trota Chaves, Eduardo | Signori, Cácia | Medeiros Mendes, Fausto | Huysmans, Marie-Charlotte | Cenci, Max*
- 106 Influence of gender and combined hormonal oral-contraceptive on parotid saliva flow-rate, pH, and electrolytes concentration**
Rovera, Angela | Anderson, Paul*
- 107 Gene-Environment Interactions and Caries Risk Assessment: MMP3, VDR, IL-6 and TNF- α Gene Polymorphisms**
Özmen, Seda | Yılmaz Atalı, Pınar | Ağralı, Ömer Birkan | Tacal Aslan, Beste | Aksu, Mehmet Burak | Polat, Tolga | Yılmaz, Özlem Özge | Ulucan, Korkut*
- 108 Caries indicators in twin children: comparison between monozygotics and dizygotics**
Freitas, Julia G. | Pontes, Laura R.A. | Brondani, Bruna | Otta, E. | Raggio, Daniela P. | Braga, Mariana M. | Mendes, Fausto M.*
- 109 Plaque indices and planimetrically measured plaque coverage - a true relationship?**
Jung, Katja | Armbrecht, Franziska | Giese-Kraft, Katja | Ressel, Elisa | Ganss, Carolina*
- 110 Dental healthcare costs of children living in Amsterdam and associated socio-demographic characteristics**

van Ligten, T.S. (Tessa) | Schmitz, D. (Daan) | Volgenant, C.M.C (Catherine) | Donken, R. (Robine) | van der Heijden, G.M.J.G (Geert) | Duijster, D. (Denise)*

111 Prevalence of root caries and psycho-social perception in the Indian geriatric population.

Govind, Shashirekha | Satyarup, Dharmashree | Bastia, Roja | Jena, Amit*

112 The use of fluoride toothpaste mitigates oral health inequalities: The Korean National Children's Oral Health Survey

Ji-Na Lim | Tae-Hee Go | Soo-Hwang Seok | Soo-Yeon Shin | Ja-Won Cho | Jae-Young Lee*

113 Parental and caregivers' perspectives on addressing persistent oral health inequality among young children

Balasooriyan, Awani | Dedding, Christine | Bonifácio, Clarissa Calil | van der Veen, Monique H.*

114 Compliance to a Dutch national caries prevention advice (CPA) in 1-year olds living in Amsterdam

Kaan, Amke Marije | Ujcic-Voortman, Joanne | Haring, Luuk | Zaura, Egija*

115 Factors in early childhood affecting dental caries incidence by age 42 months in Japan

Mikasa, Yusuke | Otsugu, Masatoshi | Matsuoka, Taro | Matsunami, Katsura | Nakamura, Motomi | Kondo, Atsushi | Kitatani, Makoto | Wada, Shozo | Sasabe, Tsutomu | Hoshina, Takuji | Kato, Takahiro | Manabe, Tesuya | Kato, Takafumi | Nakano, Kazuhiko*

116 Validity and reliability of a questionnaire designed to evaluate: knowledge and perception of sugar substitute and oral health.

Nikooseresht, Parisa | Anderson, Paul | Baysan, Aylin*

117 Development of a Clinical Practice Guideline for dental care for pregnant women in primary healthcare

Mazzetti, Thais | Daneris, Andrea | Vetromilla, Bruna | D'Avila, Otávio | Dickie de Casttilhos, Eduardo | Cenci, Maximiliano*

Session 7 De- and Remineralization & Erosion

Friday, July 7 2023, Afternoon

Chair Persons: *Thiago Saads Carvalho, Nadine Schlueter*

- 118 Association of remineralizing agents with in-office dental bleaching on enamel demineralization**
Torres, C.R.G. | Moecke, S.E. | Pinto, E.P.G. | Andrade, A.C.M. | Borges, A.B.*
- 119 The effect of various remineralization agents on artificial enamel lesions according to two different quantitative fluorescence systems**
*Ozsalih Bilsel, Seda | Kargul, Betul | Dogan, Salih | Bekiroglu, Gulnaz Nural | Yilmaz, Muesser Ahu**
- 120 Optical coherence tomography versus transverse microradiography to determine lesion depth of demineralized enamel**
Schulz-Kornas, Ellen | Meißner, Tobias | Braga, Aline S. | Haak, Rainer | de Melo, F. P. S. R. | Saldanha, L. L. | Dokkedal, A. L. | Magalhães, A. C. | Esteves-Oliveira, M.*
- 121 Effect of Silver Diamine Fluoride (SDF) on secondary caries In Vitro**
Askar, Haitham | Tschöke, Tobias | Paris, Sebastian | Göstemeyer, Gerd*
- 122 Remineralization by dental gels containing S-PRG Fillers (S-PRG)**
Daisuke, Inaba | Toshiyuki, Nakatsuka | Elbert, de Josselin de Jong | Jiro, Hitomi*
- 123 Efficacy of Ca and Na salts of poly-gamma-glutamic acid on demineralisation inhibition of hydroxyapatite discs**
*Narayanamurthy, Deeksha | Hill, Robert | Anderson, Paul**
- 124 Gastric Acid Erosion Protection from a Toothpaste containing various sources of Calcium, Phosphate, and Fluoride In Vitro**
Gilligan, SL | Mihoková, S | Philippotts, CJ | Joiner, A | Owens, GJ | Barnett, S*
- 125 Effect of an experimental TiF₄/NaF solution in preventing tooth erosion - in vivo study**
*Vertuan, Mariele | Silva, Julia França | Souza, Beatriz Martines | Magalhães, Ana Carolina**
- 126 Experimental varnishes based on the association of polymethacrylate copolymers with fluoride against erosive tooth wear**
Borges, Alessandra Buhler | Santos, Tamires Maria de Andrade | Lotto, Giovanna | Aoki, Idalina Vieira | Scaramucci, Tais | Torres, Carlos Rocha Gomes*
- 127 In vitro investigation of the anti-erosive efficacy and durability of a stannous/chitosan/fluoride toothpaste**
Morawietz, Maria | Schiffner, Thomas | Kiesow, Andreas*
- 128 Influence of the salivary enamel pellicle on the wettability of different polymer solutions**
Oba Sakae, Leticia | Niemeyer, Samira Helena | Buhler Borges, Alessandra | Scaramucci, Tais | Saads Carvalho, Thiago*
- 129 Effect of the interaction between polymers and the salivary pellicle on enamel demineralization**
Scaramucci, Tais | Sakae, Leticia | Niemeyer, Samira Helena | Borges, Alessandra | Carvalho, Thiago*

130 Effect of combining fluoride with polyphenol-rich plant extracts on the proteomic composition of dentine pellicles

*Niemeyer, Samira Helena | Carvalho, Thiago Saads | Wittwer, Lucas | Buzalaf, Marília Afonso Rabelo | Baumann, Tommy**

131 Proteomic analysis of salivary dentine pellicle modified with plant extracts

Niemeyer, Samira | Carvalho, Thiago | Wittwer, Lucas | Furrer, Samuel | Buzalaf, Marilia | Baumann, Tommy*

132 Protein composition in acquired pellicle of adolescents with erosive tooth wear or extensive caries

Avila, Viviana | Beltran, Edgar O | Velandia, Myriam | Castellanos, Jaime | Gordon, Proctor | Martignon, Stefania*

133 Effect of salivary pellicle modification with grape seed extract on enamel erosion and abrasion

*Mailart, Mariane Cintra | Nikolla, Ilirida | Reinales, Ana Sofia Arana | Niemeyer, Samira Helena | Baumann, Tommy | Carvalho, Thiago Saads**

134 Cross-sectional clinical study on salivary enzyme activity and erosive tooth wear of different aetiology

Schlueter, Nadine | Luka, Benedikt | Hannig, Matthias | Vach, Kirstin | Basche, Sabine | Mueller, Maxi | Mulic, Aida | Hannig, Christian*

135 Tobacco smoking does not affect the erosion-protective capacity of the salivary pellicle

Kanzow, Philipp | Schlarmann, Frederike | Barke, Sarah | Rohland, Bianca | Wiegand, Annette*

136 Dental erosion and its impact on quality of life in the patient with gastroesophageal reflux

Tran Thu Thuy | Nguyen Thi Diem | Lu Minh Loc | Phung Minh Thinh*

137 Food Habits and Erosive Tooth Wear in a Sample of Vegans and Omnivores

Fernández, Constanza E. | Pino, Matias J. | Arancibia, Marcela | Valentina, Valenzuela. | Maturana-Valenzuela, Catalina. | Silva, Consuelo.*

Session 8 Fluoride, Hard Tissues & Pulp-Dentinal Reactions

Saturday, July 8 2023, Morning

Chair Persons: *Livia Tenuta, Steven Levy*

138 Fluoride clearance from the oral environment after rinsing with an eluted solution of S-PRG fillers

Kato, Kazuo | Shimazaki, Yoshihiro*

139 Caries prevention effect of toothpaste using fluoride deposition technology

Akabane, C | Fujiki, M | Kimura, M | Hashimoto, R | Ono, M | Imazaki, M | Yamamoto, Y*

140 Longitudinal Fluoride Intake Not Associated with Age 23 Tibial Bone Strength from Finite Element Analyses

Levy, Steven | Pendleton, Chandler | Guha, Indranil | Saha, Punam | Warren, John | Eichenberger-Gilmore*

141 Total fluoride intake across pregnancy amongst pregnant women in North-East England

John, Sherley | Barker, Debra | Combet, Emilie | Zohoori, Vida*

142 Engineering and fluoride release of fluoride salts nanoparticles

*Chang, Albert | Lahann, Joerg | Tenuta, Livia M. A.**

143 Prevalence of Receipt of Fluoride Varnish in Dental and Medical Settings in School-aged U.S. Children

*Tandon, Mary | Levy, Steven | Eckert, George | Warren, John | Daly, Jeanette M. | Keels, Martha Ann | Hara, Anderson | Fontana, Margherita | Levy, Barcey T.**

144 Effects of LED curing light on silver diamine fluoride penetration into dentin caries lesions.

Crystal, Yasmi O | Rabieh, Sasan | Janal, Malvin N | Cerezal, Gretchen | Hu Bin | Bromage, Timothy G*

145 Abrasion of dental hard tissues by baking soda: effect of dilution and brushing force

Turssi, Cecilia | Garcia, Gabriela | Barros, Leonardo | Scaramucci, Taís | Savio, Bezerra*

146 Bonding of restorative Materials to Caries-affected Dentin Disinfected with Photodynamic Therapy and Chemical Disinfectants

*Atalay, Cansu**

147 Bond strength of bioactive materials to laser-prepared dentin

*Yuksel, Ahmet Burak**

148 The effect of treatment regimens on mineralisation of MIH enamel in vitro

Sharqawi, Abdulwaddood | Malinowski, Marina | Strafford, Simon Mark | Drummond, Bernadette | Balmer, Richard*

149 Partial pulpotomy in young permanent molars: a systematic review and meta- analysis

Camoni, Nicole | Cirio, Silvia | Cagetti, Maria Grazia | Esteves-Oliveira, Marcella | Campus, Guglielmo*

150 Combined vital pulp therapy and direct restoration saved a hopeless tooth: 5 years case report.

*Holscher, Christian**

Session 9 Clinical studies part 2

Saturday, July 8 2023, Morning

Chair Persons: Ruth Santamaria, Richard Wierichs

151 Preliminary Assessment of Caries Lesion Trajectories Over Time in Children from a US

Population

Fontana, Margherita* | Eckert, GJ | Benavides, E | Clements, D | Hara, AT | Katz, B | Keels, MA | Levy, BT | Levy, SM | Caries Risk Study Group

152 Comparison of oral status and oral health behavior using CRASP in Japanese dental clinics

Yoichi, Ishizuka* | Seiichi, Sugiyama

153 Longitudinal status of dental caries and risk factors for cavity in the occlusal surface of first permanent molars in a school oral health program

Guerra, Bianca Mattos dos Santos* | Reis, Patrícia Papoula Gorni | Jorge, Roberta Costa | Hesse, Daniela | Bonifácio, Clarissa Calil | Soviero, Vera Mendes

154 Primary Incisor Crowding: Association with Children's Caries Risk

Keels, Martha Ann* | Fontana, Margherita | Eckert, George | Benavides, Erika | Clements, Dennis | Hara, Anderson | Katz, Barry | Levy, Steven | Levy, Bracey | Caries Risk Study Group

155 Variations in tooth contact and proximal caries in children: a 3-year prospective cohort study

Murugan, Muthu* | Kirthiga Muthusamy | Kayalvizhi, Gurusamy | Mathur, Vijay Prakash | Jayakumar, Naveenkumar

156 Clinical detection and monitoring of occlusal caries in young adults. Thirty-month follow-up.

Tsakanikou Angeliki* | Rachiotis Christos | Michou Stavroula

157 Brushing and chewing movement – are synergisms conceivable?

Ressel, Elisa-Maria* | Giese-Kraft, Katja | Jung, Katja | Ganss, Carolina

158 The effect of an enzyme-containing lozenge on dental biofilm accumulation: A clinical pilot study

Schlafer, Sebastian* | Johnsen, Karina Kambourakis | Jørgensen, Mette Rose | Kjærbølling, Inge | Schramm, Andreas | Meyer, Rikke Louise

159 Aesthetic caries infiltration – Long-term masking efficacy after 6 years

Wierichs, Richard Johannes* | Langer, Franziska | Kobbe, Céline | Abou-Ayash, Bedram | Esteves-Oliveira, Marcella | Wolf, Michael | Knaup, Isabel | Meyer-Lueckel, Hendrik

160 Clinical Performance of Resin-Modified Glass Ionomer Cement Applied to Partially Erupted Permanent Molars: Preliminary Report

Ballikaya, Elif | Unverdi Erbas, Gizem | Gungor, Cem Hamdi

161 Protocol for Reducing the Need of Dental General Anesthesia in Young Children: The Greifswald Concept

Santamaría, Ruth M.* | Abdulrahim, Ruba | Mourad M. Said | Vielhauer, Annina | Schmoedel, Julian | Masri, Ahmad Al | Splieth, Christian H.

162 Comparative Evaluation of Plaque Removal Efficacy of Electric Toothbrushes Between Children with Attention Deficit and Hyperactivity Disorder And Healthy Children

Ucar, Zeynep | AKYILDIZ, Melis* | Aylin Kaya

163 Cost-benefit analysis of non-invasive early childhood caries management interventions among Latvian preschool children

Maldupa, Ilze | Uribe, Sergio E | Viduskalne, Ilona | Senakola, Egita | Brinkmane, Anda | Mariño, Rodrigo*

164 Covid-19 and caries treatment modalities in children, a retrospective clinical study

Salerno, Claudia | Almonte, Elena | Aiello, Patrizia | Bellini, Dorothea | Campus, Guglielmo | Cagetti, Maria Grazia*

165 Investigation of Antifungal Effects of Different Remineralization Agents on Candida Amount in Children

F. Eren Giray | C. Güven | N. Topçuoğlu | B. Kargül*

166 Development and test of bee's propolis toothpaste (patented) to control dentinal hypersensitivity

*Veronneau, Jacques**

167 A prospective cohort study of post-radiotherapy dental caries in head and neck cancer patients

Moore, Ciaran | Markey, Neill | Donnelly, Micheal | O'Neill, Ciaran | McKenna, Gerry*