

ieq#: 43 Thursday, March 8, 11:00 am - 12:15 pm
Poster Session, Exhibition Hall

Behavioral Sciences/Health Services Research - Oral Health and Quality of Life

0296 Patient Perceptions of Quality of Life Following Complete Denture Therapy. C.M. ASMUSSEN*, C.A. WATKINS, J.P. CHOWDHURY, and C.M. STANFORD (*Dows Institute, University of Iowa, Iowa City, USA*).

0297 Development of the Child Oral Health Quality-of-Life Questionnaire. H. BRODER, A. JOKOVIC, S. KARMINI, S. GERSCH*, P. MATHESON, E.D. REKOW, P. CHIBBARO, G. CISNEROS, and D. LOCKER (*UMDNJ, NYU, Montefiore, NY, USA; and University of Toronto, Canada*).

0298 Parental Perceptions of Pediatric Oral-health-related Quality of Life. A. JOKOVIC*, D. LOCKER, and M. STEPHENS (*Faculty of Dentistry, University of Toronto, Canada*).

0299 Xerostomia-related Quality of Life—Development of an Assessment Instrument. M.R. INGLEHART*, J.A. SHIP, and A. EISBRUCH (*University of Michigan, Ann Arbor, USA*).

0300 Periodontal Grafts vs. Injectable Collagen: Quality-of-Life Outcomes. M. KUKUK*, M.R. INGLEHART, and D. SARMENT (*University of Michigan, Ann Arbor, USA*).

Seq#: 44 Thursday, March 8, 11:00 am - 12:15 pm
Poster Session, Exhibition Hall

Nutrition - Nutrition, Development, and Oral Health

0301 Growth Failure, Caries Experience, and Juice Intake in Young Children. T.A. MARSHALL*, S.M. LEVY, J.J. WARREN, J. GILMORE, J. TISCH, and M. ISLAM (*University of Iowa, Iowa City, USA*).

0302 Dietary Quality, Nutrient Supplementation, and Root Caries in OH:SALSA Subjects. C.C. MOBLEY*, J. GOETZ, M.J. SAUNDERS, and H. HAZUDA (*UTHSCSA & GRECC, STVHCS, San Antonio, TX, USA*).

0303 Effect of Diet upon Feline Gingivitis and Accumulation of Plaque, Stain, and Calculus. E.I. LOGAN*, L. COFFMAN, M.L. BERG, N.A. LI, J. BRESNAHAN, and J.J. HEFFERREN (*University of Kansas, Lawrence, USA*).

0304 Black Tea Extract and Tea Polyphenols Inhibit Growth and Virulence Factors of Periodontal Pathogens. G.-X. WEI* and C.D. WU (*College of Dentistry, University of Illinois at Chicago, USA*).

0305 Cell Proliferation and Bone Nodule Formation by Caffeine and Fluoride. K. IDE*, N. NGUYEN, M. YAZDANI, F. JOSEPH, Jr., and T. NAKAMOTO (*LSU Health Sciences Center School of Dentistry, New Orleans, USA*).

0306 Fluoride Content in Infant Milk Formulas and Dental Fluorosis. L.M.M. TREVIZANI*, C.A. DAMANTE, F. ORNELAS, J.M. GRANJEIRO, and M.A.R. BUZALAF (*University Paulista and University of São Paulo, Bauru, Brazil*).

0307 Fluoride Content of Selected Powdered Drinks and Their Pre-mixed Liquid Counterparts. P.M. FORTUNATO* and K.E. DIFENDERFER (*Naval Postgraduate Dental School, Bethesda, MD, and Naval Dental Research Institute, Great Lakes, IL, USA*).

0308 Breast-feeding and the Development of Artificial Sucking Habits. E. LARSSON* (*University of Oslo, Norway; and Orthod. Clinic, Falköping, Sweden*).

0309 Association of Masticatory Variables and Diet in a Population-based Sample. R.S.A. SHINKAI*, J.P. HATCH, J.D. RUGH, S. SAKAI, C.C. MOBLEY, and M.J. SAUNDERS (*UTHSCSA & GRECC, STVHCS, San Antonio, TX, USA*).

Seq#: 45 Thursday, March 8, 11:00 am - 12:15 pm
Poster Session, Exhibition Hall

Cariology Research - Prevention and Treatment of Primary and Secondary Coronal and Root Caries

0310 Topical Antimicrobial Therapy in Prevention of Early Childhood Caries. L. LOPEZ, R. BERKOWITZ*, M.E. MOSS, and P. WEINSTEIN (*University of Puerto Rico; University of Rochester; and University of Washington, USA*).

0311 Chlorhexidine Effects to Reduce *Streptococcus mutans* in Saliva. M.F.S. PINHEIRO, A.F. CELESTINO, Jr., C.M. SILVA*, J.A.A. MENDES, R.P. BARROS, and P.B. NÓBREGA (*Centro de Ensino Superior do Pará, Brazil*).

0312 Effect of Polyphenon 60 on Dental Plaque Formation in Rats. A. CZAJKA-JAKUBOWSKA and J. STOPA* (*Karol Marcinkowski University of Medical Sciences, Poznań, Poland*).

0313 Oxidation of Human Plaque Biomolecules by an Antibacterial Ozone-generating Device. B. MILLS*, E. LYNCH, A. BAYSAN, C.J. SILWOOD, and M. GROOTVELD (*Restorative Dentistry, Queen's University, Belfast, UK*).

0314 Inhibition of Secondary Caries Root Lesion Progression with Different Varnishes. M. JARET*, A. HAIDER, C. GONZÁLEZ-CABEZAS, and M. FONTANA (*School of Dentistry, Indiana University, Indianapolis, USA*).

0315 Influence of Chlorhexidine on Growth of *Streptococcus sobrinus* *in vitro*. S. DOGAN, H. GÜNAY*, and W. GEURTSSEN (*Dental School, Medical University, Hannover, Germany*).

X0316 Effects of Sodium Fluoride (NaF) on Growth of *Str. sobrinus* *in vitro*. S. DOGAN, G. LEYHAUSEN*, H. GÜNAY, J. MUNACK, and W. GEURTSSEN (*Dental School, Medical University, Hannover, Germany*).

0317 Caries Removal: SEM Analysis. P.E.C. CARDOSO, S.K. MOURA, W.G. MIRANDA, Jr., and J.F.F. SANTOS* (*Department of Dental Materials, University of São Paulo, Brazil*).

0318 Inhibition of Secondary Caries around Aged, Fluoride-releasing Dental Materials. M. FONTANA*, C. GONZÁLEZ-CABEZAS, A. HAIDER, J.M. HERVAS, and G.K. STOOKEY (*School of Dentistry, Indiana University, Indianapolis, USA*).

0319 *In vitro* Cariostatic Effects of Restorative Materials Associated with a Fluoride Dentifrice. J.A. RODRIGUES*, G.M. MARCHI, M.C. SERRA, and A.T. HARA (*Dentistry School of Piracicaba, UNICAMP, São Paulo, Brazil*).

0320 Influence of the Smear Layer and Collagen Fibers on Artificial Caries around RMGI. A. AL-HELAL*, J.S. WEFEL, and D. BOYER (*College of Dentistry, University of Iowa, Iowa City, USA*).

0321 High-output Halogen Light Effects on *in vitro* Enamel Demineralization. R.W. ELLIS*, M.E. HARRIS, M.A. LATTA, and P.D. HAMMESFAHR (*School of Dentistry, Creighton University, Omaha, NE, and Dentsply/Caulk, Milford, DE, USA*).

0322 *In vitro* Evaluation of Fluoride Release from Two Orthodontic Bonding Adhesives. Y. HADDAD*, M. MESSER-SMITH, and J.T. CHAN (*Houston Dental Branch, University of Texas, USA*).

0323 Chlorhexidine and Cetrime in Carious Dentin. C. BARONI*, M. GATTI, E. BONDI, and M.R. GATTO (*Department of Dental Sciences, University of Bologna, Italy*).

Seq#: 187 Saturday, March 10, 9:00 am - 11:00 am
Poster Discussion Session
Grand Ballroom C

Craniofacial Biology - Dental Morphology and Development

Chairpersons: T. Popowics and H. Loevy

1557 9:20 Reliability of Estimating the Proximity of Posterior Occlusal Surfaces. S. OWENS*, P.H. BUSCHANG, G.S. THROCKMORTON, and J. ENGLISH (*Baylor College of Dentistry, Texas A&M University System Health Science Center, Dallas, USA*).

1558 9:30 Are Intercuspal Distances, Cusp Heights, and Tooth Sizes Related? D. CIESLA*, P.H. BUSCHANG, G.S. THROCKMORTON, and J. ENGLISH (*Baylor College of Dentistry, Texas A&M University Health Science Center, Dallas, USA*).

1559 9:40 Thickness of Enamel at Proximal Contact Areas of Premolar Teeth. T. JOLLEY*, J. BURCH, and F. ERASO (*Nova Southeastern University, Ft. Lauderdale, FL, USA*).

1560 9:50 Attrition Patterns in the Primary Dentition. T. YONEZU*, J.J. WARREN, S.E. BISHARA, and K.L. STEINBOCK (*Tokyo Dental College, Chiba City, Japan; and University of Iowa, Iowa City, USA*).

1561 10:00 Effects of Chorionicity on Tooth Size of Monozygotic Twins. B.G. BURRIS*, E.F. HARRIS, and R.H. POTTER (*University of Tennessee, Memphis, USA*).

1562 10:10 Cementum Hypoplasia in Patients with Cleidocranial Dysplasia. C. NURKO*, X.H. SUN, and J.C.-C. HU (*University of Texas Health Science Center at San Antonio, USA*).

1563 10:20 The Effect of Ultrasound on Transected Incisors in Osteodistracted Rabbit Mandibles. T. EL-BIALY*, C.A. EVANS, and A.E. ZAKI (*College of Dentistry, University of Illinois at Chicago, USA*).

1564 10:30 Enamel Structure and Cusp Strain in Human and Pig Molars. T.E. POPOWICS*, J.M. RENSBERGER, and S.W. HERRING (*University of Washington, Seattle, USA*).

10:40 Discussion

Seq#: 188 Saturday, March 10, 9:00 am - 11:00 am
Oral Session, Regency A

Dental Materials - Resin Composite Bonding to Enamel, Dentin, and Metal Substrates

Chairpersons: M. Latta and J. Walden

1565 9:00 Glow Discharge Treatment Improves Shear Bond Strength of "Linked" Composite to Metal. A. SAMPATH*, P. McCABE, R.E. BAIER, and A.E. MEYER (*State University of New York at Buffalo, USA*).

1566 9:15 Fracture Strength of Conventionally and Adhesively Cemented FRC-FPDs. M. BEHR*, M. ROSENTRITT, E. LEDWINSKY, R. LANG, and G. HANDEL (*University of Regensburg, Germany*).

1567 9:30 Bond Strength of Single-bottle Adhesives to Dual-cured Cements on Dentin. M.Y. SCHILTZ, P.L. BROWN*, L. SHARP, and B.I. SUH (*Bisco, Inc., Schaumburg, IL, USA*).

1568 9:45 Microtensile Bond Strength of Composite to Different Enamel Rod Angulations. M.A. VARGAS, M.A. LATTA*, G. IBARRA, and S.R. ARMSTRONG (*Creighton University, Omaha, NE, and University of Iowa, Iowa City, USA*).

1569 10:00 Shear Bond Strengths of Precision-aligned Orthodontic Brackets to Enamel. K. NORTON* and E.P. LAUTENSCHLAGER (*Northwestern University Dental School, Chicago, IL, USA*).

1570 10:15 Acidic Primers Utilized to Bond Orthodontic Resins to Enamel. R.G. STRATMANN* and J.M. POWERS (*Houston Biomaterials Research Center, Houston Dental Branch, University of Texas, USA*).

1571 10:30 Degradation Analysis of Resin-Dentin Bonds Using NaOCl Storage Testing. M. YAMAUTI*, M. HASHIMOTO, H. SANO, M. KAGA, R.M. CARVALHO, H. OHNO, and H. OGUCHI (*USP Bauru, Brazil; Hokkaido University, and Health Sciences University of Hokkaido, Japan*).

1572 10:45 Marginal Adaptation of Compomer and Composite Restorations Using Dentin Adhesives. R. IHM, J. MUNACK*, W. GEURTSSEN, and G. HILLMANN (*Dental School, Medical University, Hannover, Germany*).

Seq#: 189 Saturday, March 10, 9:00 am - 11:00 am
Poster Discussion Session, Grand Ballroom D

Dental Materials - Adhesives: Bond Strength and Microleakage Studies

Chairpersons: L. Gittleman and J. Powers

1573 9:20 Shear Bond Study of Dental Adhesives. R.L. LITTLEJOHN*, A.D. PUCKETT, J.E. LONGINO, and C.C. INMAN (*University of Mississippi Medical Center, Jackson, USA*).

1574 9:30 Comparison of 5th- and 6th-generation Dentin Bonding Agents. J. GOLE*, A.L. NEME, P. YAMAN, W.C. WAGNER, and F.E. PINK (*University of Detroit Mercy and University of Michigan, Ann Arbor, USA*).

1575 9:40 Relationship between Nanoleakage and Long-term Durability of Dentin Bond. M. OKUDA*, P.N.R. PEREIRA, S. YAMAGUCHI, M. NAKAJIMA, and J. TAGAMI (*Tokyo Medical and Dental University, Japan; and University of North Carolina, USA*).

1576 9:50 Effects of Saliva Contamination on Resin-Resin Bond Strength. S.O. EIRIKSSON*, P.N.R. PEREIRA, E.J. SWIFT, Jr., and H.O. HEYMANN (*University of North Carolina at Chapel Hill, USA*).

1577 10:00 FEA Stresses in Restored Cervical Lesions under Combined Loading Conditions. R. HECOX-HOHL* and M.W. BEATTY (*College of Dentistry, University of Nebraska, Lincoln, USA*).

1578 10:10 Bond Strength of Estenia-Panavia System to Dentin and Enamel. M.J. PELUSO*, J. VAIDYANATHAN, T.K. VAIDYANATHAN, and V.P. THOMPSON (*NJ Dental School, UMDNJ, Newark, USA*).

1579 10:20 Bond Strength to Air-abraded Dentin of Dry/Hydrated One-step Bonding Agents. J.E. WALDEN, L. GETTLEMAN*, and F.M. PARKINS (*School of Dentistry, University of Louisville, KY, USA*).

1580 10:30 Bond Strength of Eight Dentin Bonding Systems to Self-curing Composite. M.S. HAGGE* and J.S. LINDEMUTH (*University of the Pacific, San Francisco, and Travis Air Force Base, CA, USA*).

10:40 Discussion

Seq#: 190 Saturday, March 10, 9:00 am - 11:00 am
Oral Session, Regency C

Dental Materials - Fluoride Release, Biocompatibility, Resin Curing

Chairpersons: G. Schmalz and M. Staninec

1581 9:00 Fluoride Content Uniformity and Release Characteristics of Fluoridated Varnishes. C. SHEN*, J. AUTIO, and C. NOWACKI (*University of Florida, Gainesville, USA*).

1582 9:15 Attachment of Osteoblast-like Cells to Bioactive Glasses. S. FOPPIANO*, D.J. ROWE, P.W. JOHNSON, A.P. TOMSIA, G.W. MARSHALL, and S.J. MARSHALL (*University of California, San Francisco, and Lawrence Berkeley National Laboratory, CA, USA*).