### **CURRICULUM VITAE**

Mark L. Cannon D.D.S., M.S.

1. **Personal Information:** Northwestern University

Professor-Feinberg School of Medicine

Division of Dentistry, Department of Otolaryngology Attending- Ann and Robert Lurie Children's Hospital

225 E. Chicago Avenue Chicago, Illinois 60611

Professor (adjunct)- Dentistry

University of Tennessee Health Science Center

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Partner (retired) - North American Dental Group

Birth: Fairbury, Nebraska

U. S. Citizen

**2.** Education: University of Nebraska (Pre-Dental)

Lincoln, Nebraska, 1978

3. Graduate Education: Children's Memorial Hospital

Certificate (Pediatric Dentistry)

Chicago, Illinois 1980

Children's Memorial Hospital Anesthesiology Clerkship, 1979

Chicago, Illinois 1979

Armed Forces Institute of Pathology Certificate (Forensic Odontology)

Bethesda, Maryland 1981

Northwestern University School of Dentistry

Masters of Science (Pedodontics)

Chicago, Illinois, 1981

### 4. Board Certification and Licensure:

Dental License: Central Regional Boards

Northeast Regional Boards National Boards, Parts I and II

Illinois License Nevada license

Specialty

Certification: American Board of Pedodontics,

Part I (written), May, 1980

Illinois Specialty Board - Pedodontics

Diplomate - February, 1986

American Board of Pedodontics Diplomate - February 1986

## 5. Faculty Appointments:

Professor

Department of Otolaryngology

Division of Dentistry

Feinberg School of Medicine

Chicago, Illinois

Adjunct Professor of Dentistry

University of Tennessee Health Science Center

Memphis, TN

Guest Lecturer (1982 to 2019)

Dental Hygiene

Harper College, Palatine, Illinois

Guest Lecturer (2004- present)

Pediatric Dentistry University of Illinois Chicago, Illinois

Guest Lecturer (2001 –present)

Pediatric Dentistry

Sao Paulista State University

Aracatuba, Brasil

Guest Lecturer- Pediatric Dentistry (2006-9) University of Nevada Las Vegas School of Dental Medicine, 2003 to 2006

Guest Lecturer- Pediatric Department, (2007-2022) Nova Southeastern University Fort Lauderdale, FL

### 6. Hospital Appointments:

Courtesy staff - Northwest Community Hospital (1981-2022) Attending Physician – (Children Memorial Hospital) Ann and Robert Lurie Children's Hospital of Chicago

### 7. Committee Service

Curriculum Committee, 1980 - 1986 Selective Committee, 1980 - 1982 Dental Council, 1981 - 1983 Awards Committee, 1982 - 1986 Interdisciplinary Subcommittee, 1982 - 1983

# 8. Awards, Honors, Distinctions:

Consultant, Delta Dental Plan, 1984 – 1987

Consultant, Bisco Incorporated, 1987 –present

Honorary member, Alpha Omega Fraternity June 2, 1983

Consultant, GC America, 1999 to present

Dean's List, University of Nebraska College of Dentistry, Lincoln, Nebraska September, 1974 to May, 1978

Chairperson- International Association Pediatric Dentistry Meeting, Posters Awards, Athens, Greece, June, 2011, and other meetings, then IAPD, Rome 2022.

Master Fellow- American Academy for Oral Systemic Health

American Academy for Oral Systemic Health- Board member (2017- 2023) Secretary, Treasurer and President 2023)

**Nobel Forum-** "The gut-brain axis: Early life programming of brain function and behavior" Participant in the Nobel Forum, Karolinska Institutet, Stockholm, Sweden 2016

**Nobel Conference-** "The microbiome and its Programming of Body Systems". Participant in the Nobel Assembly, Nobel Forum, Karolinska Institutet, Stockholm, Sweden 2017

Fellow- International College of Dentists, Flint Michigan

Fellow – Royal Society of Medicine, London UK

President- Chicago Academy of Dental Research 2018-2019, Chicago, IL

President of the Board American Academy for Oral & Systemic Health 2022-2023

## 9. Professional Societies:

Fellow - Academy of Dental Materials American Academy of Pediatric Dentistry International Association of Paediatric Dentistry American Dental Association Chicago Dental Society Illinois Society of Dentistry for Children --member executive council Illinois Association of Dental Research International Association of Dental Research Illinois Society of Dentistry for Children -President-elect, 1983-1984 Illinois Society of Dentistry for Children -President, 1984 – 1985 International College of Dentists Royal Society of Medicine- London, UK American Academy of Pediatrics- Oral Section American Academy of Oral & Systemic Health International Association of Dental Specialists

Northwestern University Dental School: Clinical Instruction - People's Clinic, 1978 to 1980.

Clinical Instruction - Junior and Senior Classes, 1980 to 1999.

Pedodontic Technique - Sophomore Class, Twelve Lectures and Twenty Lab Sessions per year, 1980 to 1986.

Pedodontic/Orthodontic Literature Review - Junior and Senior Classes, Ten Sessions Per Quarter, 1980 - 1986.

Pediatric Hospital Dentistry - Junior and Senior Classes, Average of Six Full Day Sessions per Quarter, 1982 to 1986.

Pediatric Dentistry Literature Review - Graduate Courses with Twelve Sessions Per Quarter, 1980 to 1989, at Children's Memorial Hospital

Therapeutics - Junior Class, Two Lectures Per Year, 1981 to 1984.

Growth and Development - Freshman Class, One Lecture Per Year, 1980 to 1985.

Composite Resins - Post-Certificate Dental Hygiene, Full Day Seminar and Technique Lab, 1981 to 1987.

Periodontal Disease in Children - Dental Hygiene, Lecture and Discussion, 1981 to 1987.

Sedation, Behavior Management, General Anesthesia, Relative Analgesia, Traumatic Injuries and Treatment, Esthetic Restorations for the Young Dental Patient- Sophomore Classes, 1980 to 1999.

Research Director for Graduate Program in Pediatric Dentistry, Children's Memorial Hospital, 1999 to present.

Guest lecturer- Illinois Masonic Medical Center- General Practice Residency 2016 to present. Loyola University Medical Center, L.S.U., U.A.B., Detroit Mercy, University of Michigan Ann Arbor, U.C.L.A., U.S.C., University of Illinois, Chicago. Nova Southeastern, Yong Sei University, Seoul, Korea, Chulalongkorn, Thailand, University of Minnesota, Minneapolis, and CES Universadid Medellin Colombia

The Pediatric Dentistry seminar series covers in depth all of the clinical techniques necessary for providing advanced Pediatric Dental Care.

The Research Development is necessary for continuing the integrity of the advanced education curriculum. In addition, residents learn to be objectively critical of published research. Research is being performed at Argonne National Laboratories, Center for Comparative Medicine, Developmental Center for Therapeutics, Ann and Robert H. Lurie Special Infectious Disease laboratory, Robert H. Lurie Comprehensive Cancer Research Center, Human Genomics Core, Bisco Inc., NUseq.and DQSC. This Pediatric Dental residency is the only one in the nation to perform Synchotronic radiation studies on remineralization and demineralization. It is also the first to perform Probiotic research (IRB approved) on dental caries in children. In addition, it was the first to complete deep sequencing, whole genomics and metatranscriptomics on the oral microbiome, in children with A.S.D., normotypical healthy children and "blue zone" children. The first whole genome deep sequencing of the nasal microbiome was also just completed. We have just completed a multi-phase cancer cell line project with humanized mice and prebiotic supplementation and determined that xylitol inhibits tumor growth and lengthens survivability. The metabolomics analysis uncovered the mechanism of action.

#### 11. Research- IRB and IACUC

Principal Investigator- IRB approved probiotic research – caries prevention- published

Principal investigator -IACUC approved Swine study at Center for Comparative Medicine- pulpal therapy- published

Principal investigator- IACUC approved primate studies- pulpal therapy- Cebus apella- two separate studies- published

Principal Investigator- Retrospective Review of Probiotic Therapyan IRB approved study- published.

Principal Investigator- The Association between Neurologic Status and Emigration to Mitochondrial Disease and Microbiome Shifts. IRB approved study- submitted

Principal Investigator- Microbiome Shifts Associated with Over the Counter Nasal Spray, IRB approved study- manuscript in preparation

Principal Investigator-Xylitol inhibition of Cancer Cell Lines in a Syngeneic Mouse Model- research in progress- phase 3 completed Principal investigator – Xylitol inhibition of 10 cancer cell lines using MTT assay- in progress

# 12. Scholarly Bibliography

Cannon, M. L.,

An In Vivo and In Vitro Study of the Surface Resistance to Abrasion of Performed Laminate Resin Veneer; Masters Thesis, Northwestern University, Chicago, Illinois, 1980

#### A. Refereed Journals:

Moyer I. N. Kobayashi R. H., Rich K., Cannon, M. L., Simon J. F., Cooley R. O., Rich K. Dental Treatment of Children with Severe Combined Immunodeficiency; Pediatric Dentistry; Vol. 5, no. 1: 79 - 82, 1983.

Cannon, M. L. Marshall G. W., Marshall S. J., Cooley R. O. Surface Resistance to Abrasion of Preformed Laminate Resin Veneers; Journal of Prosthetic Dentistry;
Vol. 52, No. 3; 323 - 330, 1984.

Cannon, M. L. Esquilin M., Cooley R. O. Microleakage of Two Flowable Composites Placed After Microabrasion Preparation; Hellenic Dental Journal 7:39-4, 1997.

Cannon, M. L. Tylka J, A., Sandrik J. Adhesive Amalgams in Pediatric Dental Practice, Compendium, April, 1999.

Cannon, M. L. A Clinical Study of the "Open Sandwich" Technique, Journal of Dentistry for Children, June, 66 -70, 2003.

Cannon M. L. Advances in Pediatric Esthetic Dentistry, Vol. 24, No. 7, 39-44, Compendium, July 2003.

Kannon C. M.

de Oliveira J. A., Cannon M. L., Carvalho A., The mandibular lingula's position in children as a reference to inferior alveolar nerve block, Journal of Dentistry for Children, May-Aug 2005.

Silva K. G.

Pedrino D., Delbem A.,., Cannon M L., Effect of pH Variations in a Cycling model on the Properties of Restorative Materials, Journal of Operative Dentistry, 32-4, 328-335, July/August 2007.

Silva K.G.

Pedrino D., Delbem A., Cannon M. L. Microhardness and Fluoride Release of Restorative Materials in Different Storage Media, Braz Dent J 2007.

Cannon M. L.

Sealant Materials and Applications- Interview, ADA Newsletter, JADA, February 2008.

Gomes-filho, J. E.

Dougals de Faria, M., Bernabe P., Nery M., Otoboni-filho J., Dezan-Junior E., Costa M., Cannon M., Mineral Trioxide Aggregate but not Light Cured Mineral Trioxide Aggregate Stimulated Mineralization . J of Endo, 2008.

Cannon M. L.

Cernigliaro J, Vieira A. E., Percinoto C., Jurado R. Effects Of Antibacterial Agents On Dental Pulps Of Monkeys Mechanically Exposed And Contaminated. J of Clinical Pediatric Dentistry, Vol 33 p21-28, August, 2008.

Stock S.R.

Vieira AE, Delbem AC, Cannon ML, Xiao X, Carlo FD. Synchrotron microComputed Tomography of the mature bovine dentinoenamel junction. J Struct Biol. 2008 Feb;161(2):162-71. Epub 2007 Oct 23.

Delbem A. C.

Sassaki KT, Vieira AE, Rodrigues E, Bergamaschi M, Stock SR, Cannon ML, Xiao X, De Carlo F. Comparison of methods for evaluating mineral loss: hardness versus synchrotron microcomputed tomography. Caries Res. 2009;43(5):359-65. doi: 10.1159/000231573. Epub 2009 Aug 1.

Silva K. G.

Pedrino D., Delbem A., Ferreia L., Cannon M. In Situ Evaluation of Pit and Fissure Sealants Containing Amorphous Calcium Phosphate And/or Fluoride Acta Odontologica Scandinavica, 2010; 68: 11–18.

Gomes-Filho J.E.

de Moraes Costa MT, Cintra LT, Lodi CS, Duarte PC, Okamoto R, Bernabé PF, Nery MJ, Cannon M. Evaluation of alveolar socket response to Angelus MTA and experimental light-cure MTA. Oral Surg Oral Med Oral Pathol Oral Radiol Endod. 2010 Nov;110(5):e93-7. doi: 10.1016/j.tripleo.2010.05.065. Epub 2010 Sep 27.

Cannon, M. L.

Wagner C. Thobaben J., Jurado R., Solt D. Early Response of Mechanically Exposed Dental Pulps of Swine to Anti-bacterial-Hemostatic Agents or Diode Laser Irradiation, J Clin Pediatric Dent 35(3):269-274, 2011.

Cannon M. L.

A Review of Probiotic Therapy in Preventive Dental Practice, Probiotics and Anti-microbial Proteins, Vol 3, Num 2, July 2011.

Ferreira L.

Pedrini D, Okamoto AC, Jardim Júnior EG, Henriques TA, Cannon M, Delbem AC. Biochemical and microbiological characteristics of in situ biofilm formed on materials containing fluoride or amorphous calcium phosphate. Am J Dent. 2013 Aug;26(4):207-13.

Cannon M. L.

Trent B, Vorachek A, Kramer S, Esterly R. Effectiveness of CRT at measuring the salivary level of bacteria in caries prone children with probiotic therapy. J Clin Pediatr Dent. 2013 Fall;38(1):55-60.

Cannon M. L.

Gerodias N., Vieira A., Percinoto C., Jurado R. Primate Pulpal Healing after Exposure and TheraCal Application. J Clin Pediatr Dent. 2014 38(4):291-295.

Delbem A.E.

Et al. In vitro effect of amorphous calcium phosphate paste applied for extended periods of time on enamel remineralization. J of Oper Dent Jan 2015

Vieira, A. E. de M.,

Danelon, M., da Camara, D. M., Rosselli, E. R., Stock, S. R., Cannon, M. L., ... Delbem, A. C. B. (2017). In vitro effect of amorphous calcium phosphate paste applied for extended periods of time on enamel remineralization. Journal of Applied Oral Science, 25(6), 596–603. http://doi.org/10.1590/1678-7757-2016-0513

Ferrer G.

Cannon ML., Nasal Irrigation, Polyols, Nitrate Reducing Bacteria and Cardiovascular Disease. Exp Rhinol Otolaryngol, Sept 2017.

Cannon M.L.

Peldyak J., The Prevention and Treatment of Neural Arterial Gingival Simplex. Volume 3 Issue 1 | PDF 123 | Page 6 Dental Research and Management <a href="https://doi.org/10.33805/2572-6978.123">https://doi.org/10.33805/2572-6978.123</a>

Cannon M. L.

Vorachek A., Le C., White K. Retrospective Review of Oral Probiotic Therapy. Journal of Clinical Pediatric Dentistry. Volume 43, Number 6/2019 43(6), 367–371. https://doi.org/10.17796/1053-4625-43.6.1 Cannon M. L.

Kabat B., Yogev R., Jantra L., Awan A., Le C., White K. and Vorachek A. Inhibition of Rothia Species by Over-the-Counter Products and Bacterial Antagonists. Edelweiss Applied Science and Technology Volume 4 Issue 1 | PDF 173 | Pages 4 https://doi.org/10.33805/2576-8484.173

Cannon M. L.

Peldyak J., Pediatric Oral Systemic Health: From Fetus to Adolescence. Interventions in Pediatric Dentistry Open Access Journal. DOI: 10.32474/IPDOAJ.2019.03.000158

Cannon M. L.

Kabat B., Yogev R., Awan A., Jantra L. and Vorachek A. Investigation into Gluten Metabolizing Bacterial Species and their Inhibition. Edelweiss Journal of Biomedical Research and Review. Volume 2 Issue 1 | PDF 107 | Pages 4 https://doi.org/10.33805/2690-2613.107

Cannon M. L.

Merchant M Kabat W Le Catherine White K Unruh B Ramones A. In Vitro Studies of Xylitol and Erythritol Inhibition of Streptococcus. The Journal of Clinical Pediatric Dentistry Volume 44, Number 5/2020 doi 10.17796/1053-4625-44.5.4

Gonçalves F.M.C.

Delbem ACB, Gomes LF, Emerenciano NG, Dos Passos Silva M, Cannon ML, Danelon M. Combined effect of casein phosphopeptide-amorphous calcium phosphate and sodium trimetaphosphate on the prevention of enamel demineralization and dental caries: an in vitro study. Clin Oral Investig. 2020 Sep 30. doi: 10.1007/s00784-020-03597-7. Online ahead of print. PMID: 32995976

Gonçalves F.M.C.

Delbem ACB, Gomes LF, Emerenciano NG, Pessan JP, Romero DGA, Cannon ML, Danelon M. Effect of fluoride, casein phosphopeptide-amorphous calcium phosphate and sodium trimetaphosphate combination treatment on the remineralization of caries lesions: An in vitro study Archives of Oral Biology 122 (2021) 105001. https://doi.org/10.1016/j.archoralbio.2020.105001)

Cannon M. L.

Peldyak J. The Essential Role of Xylitol. Inside Dentistry April 2021. CDEworld.

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Garbelini, C. C. D., Danelon, M., Pessan, J. P., Emerenciano, N. G., Ishikawa, A. D. S., Cannon M., Delbem, A. C. B. In situ evaluation of 200 ppm fluoride toothpaste content trimetaphosphate, xylitol and erythritol on enamel demineralization and dental biofilm.. J Dent, 111 2021 Aug;111:103724. doi: 10.1016/j.jdent.2021.103724. Epub 2021 Jun 9.

Cannon M. L.

Duchaj S., Patel R., Kabat B. Temporal Exposure of Dermal Fibroblasts to Silver Diamine Fluoride and Fluorine NMR Quantitation J Clin Pediatr Dent (2022) 45 (6): 395–405.DOI: <a href="https://doi.org/10.17796/1053-4625-45.6.6">https://doi.org/10.17796/1053-4625-45.6.6</a> Published: 07 January 2022

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Delbem, A. C. B., Cannon, M. L., Sakamoto, A. E., Pedrini, D. . The effect of toothpaste with reduced concentration of fluoride-containing sodium trimetaphosphate and polyols on initial enamel erosion. Clinical Oral Investigations, 26(12), 7243–7252. <a href="https://doi.org/10.1007/s00784-022-04684-7">https://doi.org/10.1007/s00784-022-04684-7</a> 2022

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Delbem, A. C. B., Gonçalves, F. M. C., Fernandes, G. L. P., Cannon, M. L., & Danelon, M. (2023). In vitro effect of low-fluoride toothpaste supplemented with sodium trimetaphosphate, xylitol, and erythritol on enamel demineralization. Journal of applied oral science: revista FOB, 31, e20220410. https://doi.org/10.1590/1678-7757-2022-0410

# B. Editorials, Chapters, Books:

Cannon M. L., Resin Based Composites, Wileys Encyclopedia of Medical Devices and Instruments, 2004.

### C. Case Reports:

Cannon, M. L.,

Cooley R. O., Gonzalez- Crussi F., Labokta R. The Oral Manifestations of Malignant Histiocytosis; Oral Surgery, Oral Medicine; Oral Pathology 54:180 - 185, 1982

Cannon, M. L.,

Spiegel R. E., Cooley R. O. Cherubism: Report of Case; Journal of Dentistry for Children; July - August, 292 - 295, 1983.

### Clinical Articles:

Cannon M L., Early Childhood Caries; Taking treatment out of the Hospital, Dentistry Today, February, 2007.

Cannon M. L., A New Therapeutic Pit and Fissure Sealant Improves Early Dental Caries Monitoring for Minimally Invasive Dentistry. Inside Dentistry, May 2008. Amorphous Calcium Phosphate Sealants. Inside Dentistry, p86-Cannon M. L., 89, February 2010. Cannon, M. L., Clinical Application of Probiotic Therapy, Inside Dentistry, 2011; June, 112-113. Application of a light-cured Pulp-Capping Material: An Adjunct Cannon M. L., to the Practice of Minimally Invasive Dentistry. Journal of Dent Research and Applications, Vol 1, Number 1,p58-63. Nov-Dec, 2007. Comisi JC. Bioactive and therapeutic preventive approach to Cannon M. L., dental pit and fissure sealants. Compend Contin Educ Dent. 2013 Sep;34(8):642-5. Childs P., Pulp capping: Improving the Prognosis, DentalTown Cannon M. L., Jan 2015. Cannon M. L., Bioactive Material Considerations for Vital Pulp-Capping Protocols, CDE January 2017 Vol. 4 N67. Cannon M. L., Treating Dental Trauma. Inside Dentistry, June 2017. First, Do No Harm. Inside Dentistry, November 2017. Cannon M. L., Cannon M. L., How to achieve esthetic restorations for the pediatric dental patient. Dental Products Review, December 2017. Cannon M. L., How to use cavity liners to provide better care. Dental Products Review. April 2018. Cannon M. L., The Routine Use of Incompatible Dental Materials in Dentistry-Why? Dental Learning. May 2021.

### D. Proceedings and Table Clinics:

Cannon, M. L.,

Rouleau, B. R., Treatment of Traumatic Injuries, Table
Clinic Presentation, Chicago Midwinter Meeting.
Chicago, Illinois, 1979.

Cannon, M. L., Rouleau, B. R., Heat Adaptation of Laminate Veneers, Table Clinic Presentation, American Academy of

Pedodontics, San Francisco, California, 1980.

Cannon, M. L., Abrasion Resistance of Laminate Veneers, Table Clinic Presentation, Chicago Midwinter Meeting, Chicago, Illinois, 1981.

Cannon, M. L., et. al., In Vivo and In Vitro Abrasion Resistance of Preformed Resin Veneers, Abstract 1093, Research Presentation to International Association of Dental Research, Chicago, Illinois, 1981.

Cannon, M. L., Johnson, R. V., Treatment of Anterior Crossbite, Table Clinic Presentation, Chicago Midwinter Meeting, Chicago, Illinois, 1983.

Cannon, M. L., Johnson, R., V., Esthetic Dentistry for the Primary Dentition, Table Clinic Presentation, Chicago Midwinter Meeting, Chicago, Illinois, 1983.

Cannon, M. L., Johnson, R. V., Esthetic Dentistry for the Primary Dentition, Table Clinic Presentation, American Academy of Pedodontics, Atlanta, Georgia, 1983.

Cannon, M. L., Johnson, R. V., Lingual Holding Arch Revisited, Table Clinic Presentation, Chicago Midwinter Meeting, Chicago, Illinois, 1984.

Cannon, M. L., Marshall, G. W., In Vivo Marginal Study of Posterior Composites, Abstract 549, Poster Presentation, American Association of Dental Research, Dallas, Texas, 1984.

Cannon, M. L., Salzmann, L. W., Three Antiplaque Mouthrinses Effect on Plague, Table Clinic Presentation, American Academy of Pedodontics, Scottsdale, Arizona, 1984.

Baker, D. G., Cooley, R. O., Fan, P. L., Cannon, M. L., Seman, D. M., Microleakage with Dentin Adhesives in CL II Composite Resins. AADR Abstract, Annual Session, J Dent Res Special Issue, Vol. 65:313. March, 1986.

Seman, D. M., Cooley, R. O., Fan, P. L., Cannon, M. L., Crystal Growth Bonding Inhibition of Microleakage in CL II Resins. AADR Abstract, Annual Session, J Dent Res Special Issue, Vol. 66:257. March, 1986.

Merlo, B. J., Cooley, R. O., Fan, P. L., Cannon, M. L., Fippinger, T., Microleakage with Glass Ionomer and Dentin Adhesives in Composite Restorations. IADRR/AADR Abstract, 65th

General Session, J Dent Res Special Issue, Vol. 66:293. March, 1987.

Hijjawi, N. E.,

Cooley, R. O., Cannon, M. L., Fan, P. L., Human Versus Bovine Teeth for Testing Dentinal Adhesives, IADR/AADR Abstract, 65th General Session, J Dent Res Special Issue, Vol. 70, March 1991.

Cannon, M. L.,

Johnson, R. V., Computer Networking Table Clinic Presentation, Pediatric Dental Offices, American Academy of Pediatric Dentistry, Orlando, Florida, 1994.

Cannon, M. L.,

Adhesive Amalgams Revisited, Breakfast Rounds presentation, American Academy of Pediatric Dentistry, Annual meeting, Chicago, Illinois, 1996

Esquilin, M.

Cannon, M. L., Cooley R. O., Microleakge of Two Flowable Composites Placed After Microabrasion Preparation, IADR/AADR Abstract, 75th General Session, J Dent Res Special Issue, Vol. 76, March 1997.

Lambert, D.

Cannon, M. L., Cooley R. O., The Effect of Masticatory Forces on Four Different Restorative Materials, AADR Abstract, 76th General Session, J Dent Res Special Issue, Vol 77, March 1998.

Cannon, M.

A Clinical Study of Adhesive Amalgams, IADR ,  $77^{\text{th}}$  General Session, J Dent Res Special Issue, Vol 78, March 1999.

Cannon, M.

Microscopic Evaluation of Adhesive Amalgam Restorations in Retrieved Primary Molars, AADR Abstract, 78<sup>th</sup> General Session, J, Dental Res, Vol 79, March 2000.

Cannon, M.

Microscopic Evaluation of Sectioned Amalgam Restorations in Retrieved primary Molars, AADR abstract, 79th General Session, J. Dental Res Special Issue, Vol. 80, March 2001.

Kobayashi, R.

Cannon, M. L., Jurado, R., Comparison of Posterior Composite Restorations Using Different Restorative Techniques, AADR, 79<sup>th</sup> General Session, J. Dental Res Special Issue, Vol 80, March 2001.

Wilson, K.

Cannon, M. L., Jurado, R., Evaluations of Buccal and Lingual Light Activation on Composite Restorations, AADR, 79<sup>th</sup> General Session, J. Dental Res Special Issue, Vol 80, March 2001.

Cannon M.

Clinical Evaluation of "Open Sandwich" Restoration in Pediatric Dental Practice, IADR 80<sup>th</sup> General Session, J. Dental Res, March 2002.

Stark, H. Cannon, M. L., Jurado, R., Comparison of Three Different Staining methods for Microleakage Evaluation, IADR 80<sup>th</sup>

General Session, J. Dental Res Special issue, Vol 81, March

2002.

Hiester, J. Cannon, M. L., Jurado, R. In Vitro Microleakge Analysis of the

Incremental Fill and Open Sandwich Techniques, IADR 80<sup>th</sup> General Session, J. Dental Res Special Issue, Vol 81, March

2002.

Cannon M. Cannon, M. L. Jurado, R., Lu, P., A Photographic Analysis of

Stress Induced by Polymerization, AADR 81rst General Session,

J. Dental Res Special Issue, Vol 82, March 2003.

Cernigliaro, J. Cannon, M. L., Lu, P., Analysis of Fluoride from Primed

Restorative Materials, AADR 81rst General Session, J. Dental

Res Special Issue, Vol 82, March 2003.

Cernigliaro, J. Cannon, M. L. Effects of Antibacterial Agents on Contaminated

Primate Pulps, American Academy of Pediatric Dentistry,

Annual Meeting, New York, New York, May 2003.

Goldsleger, S. Cannon, M. L., Doshi, S., Jurado R., Microleakage of Resin

Modified Portland Cement, IADR 82<sup>nd</sup> General Session, J. Dent

Res Special Issue, Vol 83, March 2004.

Jurado, R. Cannon, M. L., Flexural Strength and Shear Bond Strength of

Resin Modified Glass Ionomer and Resin Reinforced Glass Ionomer to Composite, IADR 82<sup>nd</sup> General Session, J. Dent Res,

Vol 83, March 2004.

Cannon, M. Shear Bond and Flexural Strength of RRGI and RMGI to

Composite, European Academy of Paediatric Dentistry,

Barcelona, Spain, June 2004.

Vieira, AE. Delbem A., Cannon M., Stock S., Remineralization and

Demineralization Protocols, use of Laboratory micro CT,

Organization for Caries Research, July 2005.

Gerodias, I. Cannon, M. L., Jurado, R., Vieira, AEM., Percinoto, C., Effects

of Pulp Capping Materials on Mechanically Exposed Primate, Pulps, AADR 84<sup>th</sup> General Session, J. Dent Res., Vol. 85, March

2006.

Oksiuta, JM. Cannon, M. L., Shah, R., Gerodias, I., Comparative Study of

Microleakage in Various Base Materials Under Composite-resin,

AADR 84th General Session, J. Dent Res., Vol. 85, March 2006.

Cannon, M. Vieira, AE., Percinoto C., Cernigliaro, J., Jurado, R., Effects of

Antibacterial Treatment on Dental Pulps of Primates, AADR 84th

General Session, J. Dent Res., Vol. 85, March 2006.

Vieira, AE Delbem A., Stock S., Cannon M., Synchotronic Radiation

microCT and Microhardness Analysis of Mineral Content in Bovine Enamel Samples, Organization of Caries Research,

Glasgow, Scotland, July 2006.

Delbem, A. Vieira, AE., Sassaki K., Stock S., Cannon M., DeCarlo F.,

Quantitative Analysis of mineral content in enamel using synchrotron microtomography and microhardness analysis, International Society for Optical Engineering, San Diego, August

2006.

Cannon, M. Nunez, R., Vieira, AE., Abrasion Wear Results of Sealant

Materials After Storage in Water, IADR 85th General Session, J.

Dent. Res., Vol. 86, March 2007.

Cannon, M. Vieira, AEM., Danelon, M., Delbem, ACB., Stock, SR., Xiao,

X., Carlo, F DE., Effect of Ions Released From Sealants on Demineralization of Enamel, Academy of Dental Materials,

October, 2007.

Vieira, AE. Delbem, ACB., Danelon, M., Santo, MRE., Cannon, ML., Stock,

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phosphate. Organization of Caries Research, Netherlands, March

2008.

McCullogh- Elliot K., Yeserski JE., Cannon M., Jurado R., Microhardness of a Light

Cured Resin Based Mineral Liner. American Academy of Pediatric Dentistry- Annual Meeting, Washington DC May

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Cannon, M. Jurado, R., Thoboban, Z., Wagner, CJ., Alternative Pulpotomy

Agents in Swine. Chicago Dental Society, Chicago, IL,

February, 2009.

Cannon, M. Kelio GS., Pedrini, D., Delbem, A., Lilian, F., Sealants

Containing ACP and/or Fluoride: In Situ Remineralization. IADR 87<sup>th</sup> General Session, J. Dent. Res., Vol 89, April 2009.

Stanislawski, R., Cannon, M., et al, Preliminary Evidence of Mechanical

Recovery of ART Treated Carious Dentin. IADR 87th General

Session, J. Dent. Res., Vol 89, April 2009.

Johnson, RV., Cannon, M., Wagner, Z., Thobaben, J., Zheng, X., Pilot Study to

Measure the Inhibition Zones of Pulpotomy Medicaments. IADR

87<sup>th</sup> General Session, J. Dent. Res., Vol 89, April 2009.

Zak, T., Wagner, Z., Cannon, M., Jurado. Alternative Pulpotomy
Techniques with Swine Molars. Annual Academy of Pediatric
Dentistry, May 2009.

Cannon, M. Powell, A., Kuttab, J., Jurado, R. Pilot Study to Measure Fluoride Ion Penetration of Hydrophilic Sealant. AADR 88<sup>th</sup> General Session, J. Dent. Res., Vol 90, March 2010.

Cannon, M. Brown, D. Nagel, R., Jurado, R. Novel Method to Sequentially Measure Polymerization Shrinkage. AADR 88<sup>th</sup> General Session, J. Dent. Res., Vol 90, March 2010.

Kuttab, J. Yogev R, Powell A, Cannon M, A Pilot Study to Measure the Inhibition of Oral Pathogenic Bacteria by Sharklet topography. AAPD Annual Session, Chicago, IL, May 2010.

Cannon, M. Solt D., Thobaben J., Wagner C. Response of Swine Pulps to Antibacterial/Hemostatic Agents or Laser. IADR 89<sup>th</sup> General Session, J. Dent. Res., Vol 91, March, 2011.

Walsh, B. Cannon M., Kuttab J., Powell A., Yogev R., Kabat W., Vorachek A. Pilot Study to Measure Inhibition of Oral Bacteria by Sharklet. IADR 89<sup>th</sup> General Session, J. Dent. Res., Vol 91, March, 2011.

Cannon, M. Walsh B., Vorachek A., Kramer,S, Esterly R. DNA-PCR and CRT Results in Children After Probiotic Use. AADR 80<sup>th</sup> General Session, J. Dent. Res., Vol 92. March 2012.

Cannon, M. K. Garcia, D. Barstad, L. CHEN, S. Maushimi, and B. Suh. In Vitro Evaluation of a Highly-Cross-Linking Pit and Fissure Sealant. IADR, General Session, J. Dent. Res Vol 93., March 2013.

Garcia K,

Barstad D, Cannon M, Kabat B, Yogev R, Jantra L, Muhammad A, Vorachek A. Inhibition of Rothia Species by OTC Products and Bacterial Antagonists. AAPD Annual Session, Orlando, Florida, May 2013.

Muhammad A. Jantra L., Cannon M., Kabat B., Yogev R. Investigation into Gluten Metabolizing Bacterial Species and their Inhibition. AAPD Annual Session, Boston, May 2014.

Cannon, M. Vorachek. A, Le C., White K., Retrospective Review of Probiotic Therapy. IADR, General Session, J. Dent. Res. Vol 94., March 2015.

White, K. Le C., Cannon M., Kabat B., Vorachek A., Merchant M., Amin R., Inhibition of Streptococcus mutans and sobrinus by xylitol

and erythritol. IADR, General Session, J. Dent. Res., Vol 94, March 2015.

Unruh, B. Ramones, A., Cannon M., Kabat W. Inhibition of Autism Spectrum Disorder Associated Bacteria by Polyols. AADR, General Session, J. Dent. Res., Vol 95, March 2016.

Cannon, M. Confocal Analysis of Streptococcus Mutans ATCC 35668
Biofilm on Sealants. AADR, General Session, J. Dent. Res., Vol 95, March 2016.

Ramones, A. Unruh B., Cannon M., Kabat W.Inhibition of Autism Spectrum Disorder Associated Bacteria by Polyols. American Academy of Pediatric Dentistry, May 2016.

White, K. Le C., Cannon M., Kabat B., Vorachek A., Merchant M., Amin R., Inhibition of Streptococcus mutans and sobrinus by xylitol and erythritol. International Association of Paediatric Dentistry, Glasgow, Scotland, July 2016.

Cannon, M. Muhammad A. Jantra L., Kabat B., Yogev R. Investigation into Gluten Metabolizing Bacterial Species and their Inhibition.

American College of Nutrition, San Diego, CA, November 2016.

Cannon, M. Unruh, B., Ramones, A., Kabat W. Inhibition of Autism Spectrum Disorder Associated Bacteria by Polyols. American College of Nutrition Annual Session, San Diego, November 2016.

Sheehan, C. Shah, N. Kabat, W., Cannon, M. Jurado, R., Bacterial inhibition and cytotoxicity of silver compound dental materials. American Academy of Pediatric Dentistry, May 2017.

Patel R. Duchaj S., Kabat B., Cannon ML. Temporal Exposure of Dermal Fibroblasts to Silver Diamine Fluoride. AADR, General Session, J. Dental Research Vol 97, March 2018.

Cannon, M. Chen L., Cho A., Suh BI. Effects of RMGI liners overlaid on resin modified calcium silicate materials. AADR, General Session, J. Dental Research Vol 97, March 2018.

Duchaj, S. Patel R., Kabat B., Cannon ML. Silver Diamine Fluoride Temporal Effects on Dermal Fibroblasts Cells. American Academy of Pediatric Dentistry, May 2018.

Cannon, M. Pre-treatment and retention of fiber posts. Academy of Dental Materials, Porto De Gahlinas, Brasil October 2018.

Zurek, R.

Gashkoff M., Goudazri, S. H., Kabat, B., Cannon M., Pilot Study of the scfa headspace analysis of bacterial metabolites in media with and without polyols. AAPD Annual Meeting, May 2019.

Cannon, M.

Chen L., Suh. Effect of Silver-diamine-fluoride Pretreatment on Dentin Bond Strength. IADR, General Session, J. Dent. Research Vol 98, June 2019.

Cannon, M.

Chen L., Angelo A., Wexler A., Ma Q. In Vitro Calcium Release of Dicalcium\tricalcium Silicate Resin-modified Materials. AADR, General Session, J. Dent. Research Vol 99, March 2020. (Virtual)

Cannon M.

Banavar G., Vuyisich M., Ganeshan S., Buford A., Angelo A., Vorachek A.1, Alvarez Varela E. Mitochondrial and Transcriptome Study of Autistic and Non-Western Diet Children International Association of Paediatric Dentistry Meeting Sept. 2020. (Virtual)

Sue S.

Cannon M., White MA, Vorachek A, Ganeshan S, Alvarez Varela E., Vuyisich M, Banavar G. Transcriptome and Mitochondrial Analysis of ASD Children Compared to Healthy Controls. Illinois Association of Pediatric Dentists- March 2021 (Virtual)

Cannon, M. L.

Banavar G., Ganeshan, S., Varela E., Alvarez., Vuyisich M. Transcriptome and Mitochondrial Analysis of ASD Children Compared to Controls 2021 IADR/AADR/CADR General Session (Virtual Experience) Boston

White M.

Cannon M., Sue S., Vorachek A, ,Ganeshan S., Alvarez Varela E., Vuyisich M, Banavar G. Transcriptome and Mitochondrial Analysis of ASD Children Compared to Healthy Controls. AAPD Annual Meeting- May 2021(Virtual)

Cannon, M. L.

Banavar G., Ganeshan, S., Varela E., Alvarez., Vuyisich M. Transcriptome and Mitochondrial Analysis of ASD Children Compared to Controls. Nov. 2021 Society for neuroscience (Virtual)

Willet C.

Calcium Release of New Experimental Varnishes for Home Use. Templeman E., Duray S., Sedlacek T., Cosantino A., Cannon M.L. AAPD annual meeting San Diego USA May 2022

Cannon M. L.

Calcium Release of New Experimental Varnishes for Home Use Willett C, Templeman E., Duray S., Sedlacek T., Cosantino A. International Association for Paediatric Dentistry. Global summit, Caries Initiative, Rome, Italy 2022.

Nash A,

Ming L., Cosantino A., Cannon M. L., Effects of xylitol on tumor progression in syngeneic cancer models. AAPD Annual Meeting Orlando, May 2023.

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### 17. Presentations: (since 2005)

Advances in Esthetic Pediatric Dentistry- (To the Chicago Dental Society, Mid-Winter Meeting, February 24-27, 2005).

Update in Esthetic Pediatric Dentistry- (To the Brazilian Pediatric Dental Society, Recife Meeting, May, 2005).

Modern management of Dental Caries; Restoring the Pediatric Dentition- (To Southern Illinois University Alumni Meeting, Edwardsville, Illinois, July 2005.)

Advances in Esthetic Pediatric Dentistry- (To the faculty and graduate students of the School of Dental Medicine, University of Nevada, Las Vegas, Jan 2006).

Development of New Light Cured Pulp Capping Agents- Update in new Clinical and Laboratory Research-(To the International Training Symposium, Schaumburg, Illinois, February, 2006).

Update in Infant Oral Health, Continuing Education Module- (To the Academy of Pediatric Dentistry, Annual Meeting, Cincinnati, OH, May 2006).

Update in the "Open Sandwich Technique" and Retrieval Analysis, Continuing Education Module, - (To the Academy of Pediatric Dentistry, Annual Meeting, Cincinnati, OH, May 2006).

Effects of Different Pulp Capping Agents on Hard Tissue Bridge Formation- (To the European Academy of Pediatric Dentistry, Amsterdam, Netherlands, June 2006).

Minimally Invasive Dentistry- (To the 37<sup>th</sup> Meeting of the Group of Brasilian Orthodontic and Pediatric Dental Professors, Porto De Galinhas, Brasil, November 2006.)

Development of TheraCal- (To the Adhesion Symposium and International Distributors Meeting, Schaumburg, USA, February, 2007.)

Update in Minimally Invasive Dentistry- (To the Annual Meeting of the International Association of Pediatric Dentistry, Hong Kong, June 2007.)

Update in Conservative Esthetic Pediatric Dentistry- (To the Chulalongkorn University Conference, Bangkok, Thailand, June 2007.)

Update in Minimally Invasive Dentistry- (To the Columbus Dental Society, Columbus, Ohio, September 2007.)

Clinical Application of TheraCal in Minimally Invasive Dentistry- (To the International Training Seminar, Westin Hotel, Schaumburg, IL, February, 2008.)

Minimally Invasive Dentistry in Modern Pediatric Dental Practice- (To the Racine Dental Society, Racine Wisconsin, March 2008.)

Minimally Invasive Dentistry- (To the Pediatric Department, Nova Southeastern University, March 2008.)

Modern Management of Dental Caries- (To the Australasian Pediatric Dental Association, Brisbane, Australia, April 2008.)

New Developments in Restorative Care- An Update in Minimally Invasive Dentistry- (To the Pediatric Dentistry Association of Asia, Kuala Lumpur, Malaysia, July 2008.)

Minimally Invasive Dentistry in Modern Pediatric Dental Practice- (To the Pediatric Department, Nova Southeastern University, September 2008.)

Modern Management of Dental Caries- (To the Moscow State University Dental Conference, September, 2008.)

Minimally Invasive Dentistry in Modern Pediatric Dental Practice- (To the St. Petersburg State University Dental Congress, Russia, October, 2008.)

Minimally Invasive Dentistry in Modern Pediatric Dental Practice- (To the Wisconsin Pediatric Dental Society, November, 2008.)

Update in Minimally Invasive Dentistry- (To the Chicago Dental Society, Mid Winter Meeting, February, 2009).

Probiotics and Pediatric Dental Practice- (To the Academy of Pediatric Dentistry, Annual Meeting, May 2009).

Minimally Invasive Dentistry in Modern Pediatric Dental Practice- (To the Nova Southeastern Dept of Pediatric Dentistry, November, 2009.)

Probiotics and Preventive Dentistry- (To the Dental Hygiene of Harper College, December, 2009.)

Probiotics and Pediatric Dental Practice- (To the Iowa Academy of Pediatric Dentistry, Annual Meeting, March, 2010).

Effects of an Antibacterial and Hemostatic Agent on the Mechanically Exposed Dental Pulps of Swine – (To the Korean Academy of Pediatric Dentistry, Seoul, Korea, April, 2010).

Probiotics and Pediatric Dentistry- (To the Seoul National University Dental Hospital, Seoul Korea, April, 2010).

Update in Pediatric Dentistry and Minimally Invasive Dentistry- (To the Pediatric Dental Graduate program, UNESP, Aracatuba, Brazil, September 2010).

Minimally Invasive Dentistry- (To the Annual Congress of the Mexican Academy of Pediatric Dentistry, Torreon, Mexico, October, 2010).

An Evolutionary Approach to Revolutionary Changes in Pediatric Dentistry-(To the Chicago Dental Society, February, 2011).

Dental Diode Lasers in Pediatric Dentistry-(To the American Academy of Pediatric Dentistry, Annual Meeting, New York, New York, May 2011).

Preservation of the Dentin Hybrid Layer- (To the faculty and graduate students, Universite Paris Descarte, June 2011).

Bonding You Can Depend On-(To General Dental Study Club, Athens, Greece, June 2011).

Preservation of the Dentin Hybrid Layer- (To the International Association of Pediatric Dentistry, Athens Greece, June, 2011).

Gingivitis, Oral and Systemic Health, and Probiotics-(To the Annual Probiotics Symposium, Alexandria, VA, September 2011).

The Use of Probiotics for the Prevention of Dental Disease- (To the Elite Dental Study Club of Chicago, February, 2012).

Update in Pediatric Dentistry -(To the Utah State Dental Society Annual Meeting, Salt Lake City, Utah, February, 2012).

Update in Minimally Invasive Pediatric Dentistry-(To the McHenry Dental Society, Crystal Lake, IL, March 2012).

Update in Pediatric Dentistry-(To the Midwestern Dental Meeting, Wisconsin, October, 2012).

Update in Pediatric Dentistry-(To the Academy of General Dentistry, Annual Meeting, November, 2012).

Probiotics and Preventive Dentistry- (To the Conley Study Group, November 2012).

The New Mission of Contemporary Pediatric Dentistry: Preserving Pulp Vitality and the Hybrid Layer- (To the Academy of Pediatric Dentistry, Orlando, Florida May 2013).

The Development of Smart Dental Materials: A Clinician's Experience- (To the American Academy of Pediatric Dentistry, Orlando, Florida May 2013).

Bioactive Dental Materials- Development of Smart Materials-(To the Annual Meeting of the International Association of Paediatric Dentistry, Seoul, Korea, June 2013).

Dental Care for EB Patients- (To the Annual Picnic of EB parents, Palatine, II. September 2013).

Changing Concepts in Clinical Practice of Pediatric Dentistry- (To the Annual Meeting of the Mexico Association of Pediatric Dentistry, Mexico City, October 2013).

BioActivity and Dental Materials- (To the Chicago Dental Society Mid-Winter Meeting, February, 2014).

Special Needs Children: Oral Care and Probiotics- (To the Special Care in Dentistry Association Annual Meeting, Chicago II., April 2014).

Effectiveness of Probiotics in the Oral Health of Children- (To the Michigan Avenue Dental Study Club, Chicago, Il., May 2014).

Effectiveness of Probiotics in the Oral Health of Children- (To the Chicago Academy of Dental Research, Glenview, Il., May 2014).

TheraCal Research and Applications- (To the Adhesion Symposium, Itasca, Il., August 2014).

Oral Care for Patients with Epidermolysis Bullosa- (To the DEBRA Conference, Nashville TN, August, 2014).

The Evolution of Pediatric Dentistry; Changing Concepts in Clinical Practice- (To the Ohio Dental Association Annual Meeting, September 2014).

Recognizing the Oral Systemic Link in our Children- (To the American Academy of Oral Systemic Health annual meeting, St. Louis, September 2014).

Dental Practice with a Whole Body Approach- (To the American Academy of Oral Systemic Health, St. Louis, September 2014).

Changing Concepts in Clinical Practice- (To the Annual Meeting of the Michigan Academy of Pediatric Dentistry, Ann Arbor, October 2014).

TheraCal: Preserving Pulpal Vitality- (To the University of Texas- Houston Dental School Faculty, November, 2014).

Preserving Pulpal Vitality- (To the Conley Study Club, Glenview, March 2015).

TheraCal and Clinical Applications- (To the University of Alabama College of Dentistry Faculty, May, 2015).

In the beginning... the microbiome and Oral Systemic Health- (to the Birmingham Dental Society meeting, May 2015).

Standing at the crossroads... - (To the American Academy of Pediatric Dentistry, Seattle, WA. May 2015).

Retrospective Review of Probiotic Therapy- (To the International Association of Paediatric Dentistry, Glasgow, Scotland, July 2015).

In the beginning.... The microbiome and Oral Systemic Health- To the American Academy of Oral Systemic Health, keynote speaker, Annual Meeting, Dallas, Texas, September, 2015).

In the beginning... the microbiome and Oral Systemic Health- (To the North Suburban Chicago Dental Society Meeting, November 2015).

Polyols and the Microbiome- (To The Kilee Patchell-Evans Autism Research Group Department of Psychology and Psychiatry (Division of Developmental Disabilities) University of Western Ontario, London, Ontario, Canada, January 2016).

Oral Systemic Health- (To the hygiene class of Harper College, March 2016).

Polyols and the Microbiome- (To the Special Care in Dentistry annual meeting, Chicago, IL April 2016).

Biologic Materials for Pulpal Therapy- (to the American Academy of Pediatric Dentistry. San Antonio TX, May 2016.

Autism Spectrum Disorder and the Microbiome- the surprising connection- (To the American Academy of Pediatric Dentistry, San Antonio, TX, May 2016).

Changing Concepts in Clinical Practice: Update in Pediatric Dentistry- (To the Exel Continuing Education Seminar Phoenix, AZ June 2016).

Hypophosphatasia: Oral manifestations and oral preventive care- (To the Magic Foundation patient care conference, Oak Brook, IL July 2016).

Oral Health Care for Patients with Epidermolysis Bullosa- (To the Dystrophic Epidermolysis Bullosa Research Association care conference, Dallas, Texas, July 2016).

Oral Systemic Health: From pre-natal to pre-adolescent- (To the World Congress of Baby Oral Care, Aracatuba, Brasil. October 2016).

Biologic Material for Pulpal Health- (To the Las Vegas Institute, Las Vegas, NV October, 2016).

New Concepts for the Prevention of Disease- (To the Northwest Community Hospital Medical Staff, Annual Continuing Education seminar, October, 2016).

Changing Concepts in Clinical Practice: Update in Pediatric Dentistry- (To the Exel Continuing Education Seminar San Jose, CA. October 2016).

Changing Concepts in Clinical Practice: Update in Pediatric Dentistry- (To the Exel Continuing Education Seminar Seattle, WA. November 2016).

Diagnosing Hypophosphatasia: The significance of low serum alkaline phosphatase and its consequences- (To the Dental Division, Department of Otolaryngology, Feinberg School of Medicine, Northwestern University, Chicago IL. November 2016).

Diagnosing Hypophosphatasia: The significance of low serum alkaline phosphatase and its consequences- (To Detroit Medical Center, Detroit MI. November 2016).

Biologic Materials for Pulpal Health- (To the University of Michigan, Ann Arbor, Department of Pediatric Dentistry, Ann Arbor MI. November, 2016).

Changing Concepts in Clinical Practice: Update in Pediatric Dentistry- (To the Exel Continuing Education Seminar Anaheim CA, December 2016).

Diagnosing Hypophosphatasia: The significance of low serum alkaline phosphatase and its consequences- (To Illinois Masonic Medical Center, Chicago, IL. January 2017).

Nature: Love It Or Leave It!- (To the AAOSH MidWinter Seminar, Chicago, IL February, 2017).

Changing Concepts in Clinical Practice: Update in Pediatric Dentistry- (To the Exel Continuing Education Seminar Houston, TX, February 2017).

Changing Concepts in Clinical Practice: Update in Pediatric Dentistry- (To the Exel Continuing Education Seminar Chicago, IL, April 2017).

Diagnosing Hypophosphatasia: The significance of low serum alkaline phosphatase and its consequences- (To Detroit Medical Center, Detroit MI. April 2017).

Practicing Ideal Pediatric Dentistry-(To the California Dental Association, May 2017).

Esthetic Pediatric Dentistry- (To the Exel Continuing Education Seminar Anaheim, Ca May, 2017).

Esthetic Pediatric Dentistry- (To the Exel Continuing Education Seminar Seattle, WA June, 2017).

Lecture Cruise- Norwegian Cruises Mediterranean (July 2017).

Hypophosphatasia: Oral manifestations and oral preventive care- (To the Magic Foundation patient care conference, Oak Brook, IL July 2017).

Evolutionary Oral Medicine- (Webinar- American Association of Oral Systemic Health, July 2017).

Esthetic Pediatric Dentistry- (To the Exel Continuing Education Seminar San Jose, CA August, 2017).

Gasping for life- (To the Annual Meeting of American Academy of Oral Systemic Health, Salt Lake City, September, 2017).

Evolutionary Oral Medicine- (To the American Association of Oral Systemic Health, September, 2017).

BioActive Oral Medicine- (Webinar, Vista Learning, September 2017)

Bacterial Inhibition and Cytotoxicity of Silver Compound Dental Materials- (To the International Association of Paediatric Dentistry, Santiago, Chile, October, 2017).

Biologic Materials for Pulpal Vitality- (To the International Association of Paediatric Dentistry, Santiago, Chile, October, 2017).

Biologic Materials for Pulpal Vitality- (To the USC International Symposium, Los Angeles, CA, October, 2017).

Dental Manifestations of Hypophosphatasia and Evolutionary Oral Medicine- (To the Pediatric Dental Division, Detroit Medical Center, November 2017).

Dental Manifestations of Hypophosphatasia- (To the Snodgrass Dental study club, Nashville, TN, November 2017).

Dental Manifestations of Hypophosphatasia and Biologic Materials for Pulpal Vitality-(To the Dental Residents- Lutheran- NYU Pediatric Program, Nashville, TN, November 2017).

Dental Manifestations of Hypophosphatasia and Evolutionary Oral Medicine- (To the student body and the Pediatric Dental Division, LSU Medical Center, December 2017).

Dental Manifestations of Hypophosphatasia and Biologic Materials for Pulpal Vitality-(To the Dental Residents, Advocate Illinois Masonic Medical Center, February, 2018).

Dental Manifestations of Hypophosphatasia (To the attendees, Chicago Dental Society MidWinter Meeting, Gioco Restaurant, February 2018).

Practicing Ideal Pediatric Dentistry- (To the Chicago Dental Society, Chicago MidWinter Meeting, Chicago, February, 2018).

Evolutionary Oral Medicine- (To the American Academy of Oral Systemic Health MidWinter Meeting, Chicago, February 2018).

The Gateway Microbiomes- (To the general dental residency program, Loyola University Medical Center, February 2018).

Dental Manifestations of Hypophosphatasia. And The Gateway Microbiomes.- (To the Iowa Society of Pediatric Dentistry, April 2018)

Dental Manifestations of Hypophosphatasia. And The Gateway Microbiomes.- (To the Dental Society of Western Michigan, Muskegon, April 2018)

Special Needs Children: Oral Care & Probiotics- (To the Texas Dental Association, May 2018).

The Evolution of Pediatric Dentistry: Changing Concepts in Clinical Practice- (To the Texas Dental Association, May 2018).

Special Needs Children: Oral Care & Probiotics- (To the Pediatric Dental Department, UCLA, July 2018).

The Evolution of Pediatric Dentistry: Changing Concepts in Clinical Practice- (To the Pediatric Dental Alumni meeting, UCLA, July 2018).

Oral Care for Dystrophic Epidermolysis- (To the DEBRA meeting, Phoenix AZ, July 2018).

Dental Manifestations of Hypophosphatasia- To the Pediatric Dental Program NYU, Mt. Pleasant TN, October 2018)

Probiora Workshop- Probiotics for Health- (To AAOSH Annual Meeting, Las Vegas, Nov 2018).

Pediatric Airway and Airway Development- (To the AAOSH Annual Meeting, Las Vegas, Nov 2018)

Evolutionary Oral Medicine- (To the North Suburban- Chicago Dental Society- Glencoe, IL December 2018).

Dental Manifestations of Hypophosphatasia- (To the Pediatric Dental Department-University of Illinois January 2019).

Dental Manifestations of Hypophosphatasia- (To the Dental Residency Program. Illinois Masonic Medical Center, January 2019).

Biologic Materials for Pulp Vitality- (To the Chicago meeting of Mommies in Dentistry, April 2019).

Update in Pediatric Dentistry - (To the Seattle Study Club of Sacramento, CA, April 2019).

TheraCal PT- (To the Bisco training meeting, Schaumburg, IL April 2019).

Changing Concepts in Pediatric Dentistry - (To the TC Study Club, Chicago, IL May 2019).

The Oral Microbiome, Diagnostic Testing and Autism Spectrum Disorder. – (To the American Academy of Pediatric Dentistry Annual Meeting, Chicago, IL 2019).

Changing Concepts in Pediatric Dentistry- (To the International Association of Pediatric Dentistry, Cancun Mexico, July 2019).

Dental Management of Hypophosphatasia- (To the Magic Foundation, Lombard, IL July 2019).

Biologic Materials for Pulpal Vitality- (To the University of Illinois Pediatric Dentistry Department, July 2019).

Epidermolysis bullosa- Dental Concerns-(To the EB summer meeting, August 2019).

Pediatric Oral Medicine- (To the Mommies in Dentistry Annual Meeting, New Orleans, LA, September, 2019).

Biologic Materials for Pulpal Vitality- (TO the International Dental Conference, London UK. September 2019).

Pediatric Oral Medicine- (To the Kids Care Dental Continuing Education Meeting, Geyserville, CA Sept 2019).

Probiotics and Oral Systemic Health- (To the American Academy of Oral Systemic Health, Nashville, TN Oct 2019).

Polyols in Preventive Dentistry- (To the American Academy of Oral Systemic Health, Nashville, TN, Oct 2019)

Pediatric Oral Health, Biologic Materials for Pulpal Vitality- (To the Universidad, CES, Medellin, Colombia, November 2019).

Biologic Materials for Pulpal Vitality, Evolutionary Pediatric Oral Medicine- (To the University of Minnesota Pediatric Dentistry January 2020).

Dental Manifestations of Hypophosphatasia- (To the Yankee Dental Congress Boston MA. Fe 2020).

Dental Manifestations of Hypophosphatasia- (To the Dental Division of Illinois Masonic Medical Center, Fe 2020).

Probiora Probiotics- (To the Probiora Conference, St. Petersburg, FL Fe 2020).

From Friend to Foe (To the Get Well Show, London UK. February 2020).

From Friend to Foe – (To the Birmingham Dental Society, Birmingham AL. March 2020).

Biologic Pulpal Materials- (To the Pediatric Dental Division, UAB, Birmingham AL, March 2020).

Research of Pulp Therapy- (To the Illinois Society of Pediatric Dentistry, Chicago, March 2020).

Changing Concepts in Pediatric Dentistry- (To the Utah Dental Society, Salt Lake City, Utah, March 2020). Canceled due to COVID-19.

Re-Opening Your Dental Office Post-COVID-19 Quarantine- (To Viva Learning Dental CE, April 2020).

Special Care for Special Patients- (To DEMIO CE webinar, April 2020 and again April 2021).

How to Re-Open Your Dental Practice- (To the Chicago Academy of Dental Research-May 2020).

Gasping for life- (To the Academy of Applied Myofunctional Sciences July 2020). Virtual

Testing for Systemic Health - A Panel Discussion- (To the AAOSH Annual Meeting Sept. 2020 (Virtual))

From Friend to Foe- (To the APAC Dental October 2020).

Lessons Learned from COVID-19; Nasal Hygiene and Future Pandemics- (-To AAOSH Hot Topics Jan 2021(Virtual))

How to Boost the "Bottom Line" by being Patient Centric- (For the AAOSH webinar series February 2021).

Update in Dental Research- (To Illinois Masonic General Dentistry- Advocate Health Care System, May 2021).

One Shade Flowable Composite- (To the Viva Learning Seminars- June 2021).

The Evolution of Oral Pathogens and the Link to Systemic Disease- (To the Oceania Meeting, virtual, June 2021).

Hypophosphatasia- (To Illinois Masonic General Dentistry- Advocate Health Care System, Sept 2021).

The Gospel of Diet- Prebiotics and Probiotics- (To the AAOSH Annual session, Sept. 2021).

The Gospel of Diet-Postbiotics and Synbiotics- (To the AAOSH Annual session, Sept. 2021).

Metatranscriptome and Mitochondrial Analysis of ASD Children Compared to Healthy Controls- (To the Probiotics, Prebiotics and New Food, Nutraceuticals and Botanicals Conference, Rome Sept. 2021).

Biologic Materials for Dentistry- (To Illinois Masonic General Dentistry- Advocate Health Care System, Oct. 2021).

Metatranscriptome and Mitochondrial Analysis of ASD Children Compared to Healthy Controls- (To the Society For Neuroscience, Chicago, Nov. 2021)

From Friend to Foe – (To the faculty and students of the Medical University of South Carolina, virtual, Nov. 2021)

Hypophosphatasia- (To the Pediatric Dentistry Department, University of Illinois, Chicago, virtual, Dec. 2021)

Biologic Materials for Dentistry- Distinguished Lecture Series- (To the Faculty and Students, UCLA School of Dentistry, Los Angeles, CA virtual, Jan. 2022)

How Humans and Microbiomes Evolves- (To the Faculty and Students- Medical University of South Carolina, Charleston, Jan. 2022).

Vitamin X and Life- (To the Hot Topics, AAOSH, Chicago Fe. 2022)

Probiotics and Children- (To the Probiora Probiotics Group, St. Petersburg, FL March 2022).

Biologic Materials in Pediatric Dentistry- (To the Mexican Academy of Pediatric Dentistry Mexico City March 2022).

Changing Concepts in Pediatric Dentistry- (To the Utah Dental Society, Annual Meeting, Salt Lake City, UT April 2022).

Biological Materials for Pediatric Dentistry- (To Dental learning webinars- April 2022).

How to Save Lives Everyday- (To the Hygiene Hub, NADG, May 2022).

Dental Manifestations of Hypophosphatasia- (To the Pediatric Dental residents, Nashville, June 2022).

Dental management of Epidermolysis Bullosa- (To the DEBRA meeting, Denver, July 2022).

Oral Dysbiosis Creates Systemic Disease- (To the A Tale of Two Hygienists- webinar-2022).

Exploding the paradigm! (To the AAOSH and registrants- virtual webinar, July 2022).

From Friend to Foe: How Oral Dysbiosis Creates Systemic Disease and What You Can Do To Save Lives- (To the Southwest Dental Conference, Dallas, August 2022).

Update in Clinical Pediatric Dentistry- (To the Southwest Dental Conference- Dallas, August 2022).

Saving lives everyday- (To Collaboration Cures, AAOSH, Phoenix, Sept 2022).

The New Axis of Disease- (To Collaboration Cures, AAOSH, Phoenix, Sept 2022).

Is tropism dead? - (To the Integrative Dermatology Symposium- Sept. Tucson, 2022).

Evolutionary Oral Medicine- (To the California Dental Hygiene Association, virtual, Oct. 2022).

Integrative Oral Medicine- New Axis of Disease- (To the Concierge Medicine Forum, Atlanta Oct. 2022).

Changing Concepts in Clinical Practice- (To the American Orthodontic Society, Annual Meeting, Atlanta, Nov. 2022).

Calcium releasing experimental varnishes for caries prevention- (oral poster at IAPD, Rome, Nov.2022)

Biological Materials in Clinical Pediatric Dentistry- (To the Pediatric Dentistry program and alumni- UNESPE, Aracatuba Brazil Nov. 2022).

Pediatric Oral and Systemic Health- (To the Pediatric Dentistry program and alumni-UNESPE, Aracatuba Brazil Nov. 2022).

Dental Manifestations of Hypophosphatasia- (To the Pediatric Dentistry residency program- Nova Southeastern University, Dec 2022).

Changing Concepts in Clinical Pediatric Dentistry- (To the Dental Learning webinar, Fe 2023).

Why Fillings Fail- (To the CDE World – Inside Dentistry webinar March 2023).

Dental Manifestations of Hypophosphatasia – To the Pediatric Dental residency, Baton Rouge, LA – online Fe 2023).

Saving Lives Everyday- (To the Chicago Dental Society, Mid-winter Meeting, Fe 2023).

Why AAOSH?- (To the Golden Spike Meeting, Salt Lake City, March 2023).

A Practical Guide to Implementing Oral Systemic Health in your DSO- (To the Association of Dental Service Organizations, Orlando, March 2023).

Saving Lives Everyday- (To the International Dental Specialists Society, podcast, April 2023).

Vitamin X- (To the Integrative Dental Medicine Scholar Society, St. Petersburg, April 2023).

Saving Lives Everyday- (To the South Carolina Dental Association, Charleston, April 2023).

Biologic Materials for 21<sup>st</sup> Century Dentistry- (To the South Carolina Dental Association, April 2023).

Saving Lives Everyday- (To the Michigan Dental Association, Grand Rapids, May 2023).

Oral and Systemic Health- (To the Integrative Dental Medicine Scholar Society, online, June 2023).

The Future of Dentistry panel – (To the Becker's Healthcare Conference Chicago, IL July 2023).

Total Pediatric Dentistry- (TO Viva Learning webinar, August 2023).

Why AAOSH- (To the Southwest Dental Conference AAOSH Roundup, August 2023).

Saving Lives- Part 2- (To AAOSH/CC2023 Orlando, Fl. Sept 2023).

Saving Lives, Airway- (To the American general practitioner Orthodontic Society, Clearwater Florida, Sept 2023).

Death and Dentistry- (To the Concierge Medicine Forum, Atlanta GA. Oct 2023).

Saving Lives- Airway- (To the American Orthodontic Society, Greenville, SC, Oct 2023).

Dental Manifestations of Hypophosphatasia- (To the Metro Atlanta Dental Study club, Atlanta GA., Oct 2023).

Future of Dentistry- (To the Beckers Healthcare Conference, Chicago, Il. Oct 2023).

Traumatic Injuries and Pulpal Vitality- (To the Pediatric Dentistry, TAMU, Dallas, TX, Nov. 2023).

Manifestations of Hypophosphatasia- (To the Illinois Masonic Hospital GPR, Chicago, IL November, 2023).

Podcast Host: FireSide Chats 2023

"Integrating Oral Health and Overall Health"

"Cardiac Diagnostics"

"Connection between Oral Health and Pediatric Sleep Medicine"

"An inflammatory conversation"

"Nitric Oxide as an anti-infective"

"Proper nasal hygiene"

"Cardiology and Preventive Cardiology"

"Integrative Medicine and Nutrition"

"Periodontal disease and adverse pregnancy outcomes"

"Slowing the Aging Process Without Becoming a Zombie"

"All natural regeneration using platelet rich fibrin in regenerative medicine, dentistry and facial esthetics"

"Oral Health Pro- the new standard in Health Diagnosis"

"Movement of DSO's into the Oral Systemic Realm"

"Myths Regarding Cardiovascular Disease"

"Mastermind courses"

"Periodontal Inflammation: The LOCAL/SYSTEMIC Link Demystified"

Patents: U.S. Patent 5,806,739

Automatic Mixing Syringe for Dental Materials

U.S. Patent 5,690,490

Method and Apparatus for Fabrication of Dental restoration by

Pinhead Molding

U.S. Patent 2008/0318190 A1

Polymerizable Dental Pulp Healing, Capping, and Lining

Material and Method for Use