

CURRICULUM VITAE

1. Personal Information:

Mark L. Cannon D.D.S., M.S.
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
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Birth: January 24, 1953
Fairbury, Nebraska
U. S. Citizen

2. Education:

University of Nebraska (Pre-Dental)
Lincoln, Nebraska, 1978

Northwestern University School of Dentistry
Masters of Science (Pedodontics)
Chicago, Illinois, 1981

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

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 60611

Guest Lecturer (1982 to 1984)
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, (2007-2010)
Nova Southeastern University
Fort Lauderdale, FL

6. Hospital Appointments:

Courtesy staff - Northwest Community Hospital
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:

Chairperson- International Association Pediatric
Dentistry Meeting, Posters Awards, Athens, Greece,
June, 2011

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

American Academy of Oral Systemic Health- Board
member 2017

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

President- Chicago Academy of Dental Research 2018-2019

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 -
-Past 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

10. Teaching:

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.

Guest lecturer- Loyola University Medical Center- 2018 to present.

Guest lectures at L.S.U., U.A.B., Detroit Mercy, University of Michigan Ann Arbor, U.C.L.A.

Pediatric Dental Seminar and Research Coordinator

The Pediatric Dentistry seminar series covers in depth almost all of the clinical techniques necessary for providing advanced Pediatric Care. Basic operative and surgical skills that were developed in

Undergraduate training are not mentioned in the seminars, as they should already be well developed. The series is presented over two years and every attempt is made not to duplicate any presentations. However, due to the necessity of introducing the first year residents to the course some repetition may occur.

The Research Development is necessary for continuing the integrity of the advanced education curriculum. In addition, residents will learn to be objectively critical of published research they read in the Literature. The value of the Research Development is most apparent in the second year of residency. The Research Projects may involve working with the Oral Biology Department of Northwestern University, especially with Drs. Art Veis and Stuart Stock, both having contributed to previous pulpal research studies. Research is also performed at Argonne National Laboratories. This Pediatric Dental residency is the only one in the nation to perform Synchrotron radiation studies on remineralization and demineralization. It is also the first to perform Probiotic research (IRB approved).

11. Research

Principal Investigator- IRB approved probiotic research and IACUC approved Swine study at Center for Comparative Medicine.

Principal Investigator- Retrospective Review of Probiotic Therapy- an IRB approved study.

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. Refeered 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, JE. 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 Pulp Of Monkeys Mechanically Exposed And Contaminated. J of Clinical Pediatric Dentistry, Vol 33 p21-28, August, 2008.
- Stock SR 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 AC Sasaki 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.
- Garcia Silvo K. Pedrino D., Delbem A., Ferreira 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 JE. 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 Pulp of Swine to Anti-bacterial-Hemostatic Agents or Diode Laser Irradiation, *J Clin Pediatric Dent* 35(3):269-274, 2011.
- Cannon M. 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. 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. 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 AE. 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.

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.
- Cannon M. L., Amorphous Calcium Phosphate Sealants. Inside Dentistry, p86-89, February 2010.
- Cannon, M. L., Clinical Application of Probiotic Therapy, Inside Dentistry, 2011; June, 112-113.
- Cannon M. L., Application of a light-cured Pulp-Capping Material: An Adjunct to the Practice of Minimally Invasive Dentistry. Journal of Dent Research and Applications, Vol 1, Number 1,p58-63. Nov-Dec, 2007.
- Cannon M. L., Comisi JC. Bioactive and therapeutic preventive approach to dental pit and fissure sealants. Compend Contin Educ Dent. 2013 Sep;34(8):642-5.
- Cannon M. L., Childs P., Pulp capping: Improving the Prognosis, DentalTown 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.
- Cannon M. L., First, Do No Harm. Inside Dentistry, November 2017.
- 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.

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 Plaque, 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 , 77th 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, 78th 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, 79th 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, 79th General Session, J. Dental Res Special Issue, Vol 80, March 2001.
- Cannon M. Clinical Evaluation of “Open Sandwich” Restoration in Pediatric Dental Practice, IADR 80th General Session, J. Dental Res, March 2002.
- Stark, H. Cannon, M. L., Jurado, R., Comparison of Three Different Staining methods for Microleakage Evaluation, IADR 80th

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 80th 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 81st 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 81st General Session, J. Dental Res Special Issue, Vol 82, March 2003.
- Cernigliaro, J. Cannon, M. L. Effects of Antibacterial Agents on Contaminated Primate Pulp, 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 82nd 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 82nd 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, Pulp, AADR 84th 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 Pulp 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., Sasaki 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, SR., Xiao, X., De Carlo F., Synchrotron XMT analysis of the anti-caries potential of sealants with amorphous calcium 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 2008.
- 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 87th 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 87th 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 88th 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 88th 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 Pulp to Antibacterial/Hemostatic Agents or Laser. IADR 89th 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 89th 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 80th 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.

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 37th Meeting of the Group of Brazilian 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 Pulp 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, IL. 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 Il., 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).

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