

Science Day 2013

— Thursday, March 14 —

Periodontal Disease: Evidence for Its Role in the Diabetes Epidemic

by George W. Taylor, DMD, DrPH

Dr. Taylor is Chair, Department of Preventive and Restorative Dental Sciences, and Leland A. and Gladys K. Barber Distinguished Professor in Dentistry at the University of California San Francisco School of Dentistry. **1 to 2 p.m., 670 Albany Street, Medical Campus**

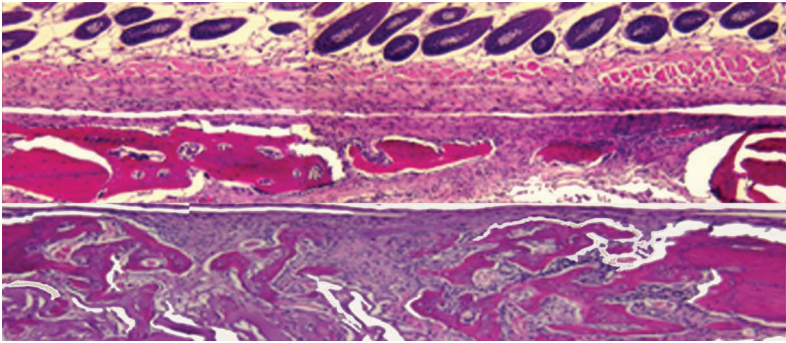


Image courtesy of Dr. Philip Trackman. Histologic evaluation of the effects of rhBMP-2 application in diabetic animals. Samples from standardized bone defects from mouse calvaria were harvested after two weeks of healing. Slides from decalcified specimens were stained with hematoxylin and eosin or Masson trichrome.

Science Day is supported by the American Student Dental Association, the Student Research Group and the Office of the Associate Dean for Research at Boston University Henry M. Goldman School of Dental Medicine.

8:30 a.m.
to
1:30 p.m.

vendor exhibition

100 East Newton Street, first floor hallway and cafeteria

3M/ESPE	Henry Schein Dental
A-Dec	Hu-Friedy
Arcari Dental Laboratories	Johnson and Johnson
Brasseler USA	Orapharma
Colgate Oral Pharmaceuticals	Patterson Dental
Designs for Vision	Phillips Sonicare
Door to Door Dental	Procter & Gamble Professional Oral
GlaxoSmithKline	Health (Crest OralB)
Great Lakes Orthodontics, Ltd.	Surgitel

1 to
2 p.m.

keynote research presentation

670 Albany Street, auditorium

Dr. George W. Taylor

Chair, Department of Preventive and Restorative Dental Sciences, and Leland A. and Gladys K. Barber Distinguished Professor in Dentistry at the University of California San Francisco School of Dentistry

Periodontal Disease: Evidence for Its Role in the Diabetes Epidemic

Diabetes mellitus and periodontal disease are two common chronic, lifestyle-related diseases that have long been considered to be biologically linked. Diabetes is an important chronic disease globally and is considered an epidemic by the World Health Organization (WHO). This presentation will review evidence regarding the role of periodontal infection in adversely affecting glycemic control, the relationship of periodontal infection to the risk for developing diabetes complications and possibly diabetes itself, and finally, the relationship between periodontal therapy and costs of medical care for people with diabetes.

9 a.m. to
1 p.m.

poster presentations

670 Albany Street, first floor hallways

Pre-doctoral Student Posters

Berokh Bavar, Raffi Miller, Sharon Rich, Wanda Wright, Jason Mahaffey, Leslie Will and Judith Jones. Department of General Dentistry: "Oral Health-related Quality of Life in Teens Requiring Orthodontic Treatment."

Ella Botchevar, Raffi Miller, Sharon Rich, Wanda Wright, Leslie Will, Jason Mahaffey, and Judith Jones. Department of General Dentistry: "Self-reported Oral Health of Smokers and Their Children."

Sonal Chhanabhai, G. Hannawi, Bruce Herrara, Hatice Hasturk, Thomas Van Dyke, and Alpdogan Kantarci. Department of Periodontology at Forsyth Institute: "Impact of Platelets on Neutrophil Function."

Hamidreza Fakhri, Jukka Meurman, Marku Surraka, Jeffrey Hutter, Prashanti Bollu, Elizabeth Jackson, Angus Walls and Sok-Ja Janke. Department of General Dentistry: "Pan-tomographic Evidence of Endodontic Treatment and 15-year Cardiovascular Mortality."

- Joshua Gilbert Raffi Miller, Sharon Rich, Wanda Wright, Jason Mahaffey, Leslie Will and Judith Jones. Department of General Dentistry: "Parents and Teens Agree on Malocclusion's Quality of Life Impact."
- Matthew Green and Bo Hou. Department of Orthodontics: "Effects of Orthodontic Mimicking Mechanical Stress on Stem."
- Erik Harriman, Yoshio Ohyama and Yoshiyuki Mochida. Department of Periodontology and Oral Biology: "Characterization of Wdr72 Knockout Rats, Causative Gene for Amelogenesis Imperfecta."
- Marc Horton, Ayesha Ghulam, Sharron Rich, Kathy Lituri, Patricia Whitworth, Heavenly Mitchell, Sheree Norquist and Michelle Henshaw. Department of Health Policy and Health Services Research: "Effect of Oral Health Promotion Provided by Public Health Nurses on the Behaviors of Mothers with Infants."
- Daniel Moynihan and Leslie Will. Department of Orthodontics: "Using a Cone Beam CT Scan to Evaluate Periodontal Bone Height."
- Wyatt Traina and Paula Friedman. Department of General Dentistry: "A Longitudinal Assessment of Dental Students' Knowledge about the Elderly."
- Giuseppina Verde, Raffi Miller, Wanda Wright, Sharon Rich, Jason Mahaffey, Leslie Will and Judith Jones. Department of General Dentistry: "Parents Report Lower Quality of Life in Children with Malocclusion."

Post-doctoral Student Posters

- Abeer Saeed Alasmari and Erdjan Salih. Department of Periodontology and Oral Biology: "Impact of Clinically Used Alendronate (Fossomax) on Novel Three-Dimensional Cancer-Bone Metastasis Model Systems Using Co-cultures of Live Mouse Calvarial Bone Organs and Tumor Cells."
- Mohamed Bamashmous and Leslie Will. Department of Orthodontics: "Basal and Dental Arch Changes of Class I, II Malocclusions."
- Gyusik Cho, Mohammad Assaggaf and Philip Trackman. Department of Periodontology and Oral Biology: "Immunohistochemical Investigation of TGF-beta Expression in Gingival Tissue of Phenytoin Treated Mice."
- Suha Al Judabi and Erdjan Salih. Department of Periodontology and Oral Biology: "Effects of Phosvitin on Cancer-Bone Interactions Evaluated Using Co-cultures of Live Mouse Calvarial Bone Organs and Tumor Cells."
- Patrapan Juntavee and Dan Nathanson. Department of Restorative Sciences/Biomaterials: "Adhesive and Surface Conditioning Effect on Bracket Bonding to Ceramics."
- Kelly Labs and Leslie Will. Department of Orthodontics: "Three-Dimensional Analysis of Pharyngeal Airway Development."
- Adriana Valery-Lara, Guoxian Wei, Na Tian, Frank Oppenheim and Eva Helmerhorst. Department of Periodontology and Oral Biology: "Gluten-degrading bacteria From Human Fecal Samples."
- Yang Li and Leslie Will. Department of Orthodontics: "Effect of Posterior Crossbite on Lower Face Height, a CBCT Study."
- Shih-Chun Lin and Erdjan Salih. Department of Periodontology and Oral Biology: "Mechanism of Phosvitin-induced Connective Tissue and Bone Organogenesis."
- Yuhe Lu and Leslie Will. Department of Orthodontics: "Three-dimensional CBCT Analysis of Morphology in Patients with Mandibular Asymmetry."
- Olena Norris and Pushkar Mehra. Department of Oral and Maxillofacial Surgery: "Osteochondroma of Mandibular Condyle: Conservative vs Aggressive Treatment."
- Ahmadreza Rajaei and Leslie Will. Department of Orthodontics: "Mandibular Stability After Total Joint Replacement."
- Hsiao-Ying Yang, Pritam Sengupta, Meghan Bouchie and Maria Kukuruzinska. Department of Molecular and Cell Biology: "N-glycosylation Gene, DPAGT1, Functions as an Oncogene."

Pre-doctoral Student Oral Presentations

Erin Breen, Meghan Bouchie and Maria Kukuruzinska. Department of Molecular and Cell Biology: "Identification of Vimentin-enriched Cells in Embryonic Sub-mandibular Glands After Wounding."

Martha Neely, Lilelany Santana, Susan Rich, Pushkar Mehra and Judith Jones. Department of General Dentistry: "A Retrospective Review of Emergency Room Visits for Dental Reasons in Adults."

Isha Suri, Richard Pober and Russell Giordano. Department of Restorative Sciences/Biomaterials: "Effect of Different Cements and Geometry on Bonding Strength of Titanium to Zirconia."

Post-doctoral Student Oral Presentations

Najla AlRejaye, Richard Pober and Russell Giordano. Department of Restorative Sciences/Biomaterials: "Strength of Esthetic Brackets During Archwire Tipping."

Ahmad Alshadwi, Abhishek Mogre, Pushkar Mehra and Richard D'Innocenzo. Department of Oral and Maxillofacial Surgery: "Anatomy of Dentate Segment of Mandible: Study of Cone Beam CT Scans."

Mohammed Badri and Yoshiyuki Mochida. Department of Periodontology and Oral Biology: "Role of Ellis-van Creveld Syndrome2 (Evc2) in Postnatal Cranio-facial Growth."

Ritu Gupta and Leslie Will. Department of Orthodontics: "Stability of Mandibular Anterior Alignment Following Piezo-facilitated Orthodontics."

Debora Heller, Radesh Gupta, Yizhi Xiao, Eva Helmerhorst, Bruce Paster, Walter Siqueira, and Frank Oppenheim. Department of Periodontology and Oral Biology: "Synchrony of Protein and Microbial Attachment in Early Dental Integuments."

Hattanas Kumchai, Patrapan Juntavee and Dan Nathanson. Department of Restorative Sciences/Biomaterials: "The Effect of Veneering Ceramic and Method on the Failure Load of Veneered Zirconia."

Hasnain Shinwari and Pushkar Mehra. Department of Oral and Maxillofacial Surgery: "Idiopathic Condylar Resorption: Analysis of Outcomes Following TMJ Total Joint Replacement."

Matt Steuer and Pushkar Mehra. Department of Oral and Maxillofacial Surgery: "Endosseous Implants in Non-vascularized Bone Grafts: Outcome Analysis."

Mariana Velazquez, Andrew Salama and Pushkar Mehra. Department of Oral and Maxillofacial Surgery: "Incidence, Survival and Mortality of Oral and Oropharyngeal Cancer: A Surveillance, Epidemiology and End Results Program-based Analysis."