

THE 1ST INTERNATIONAL
QUINTESSENCE SYMPOSIUM
ON ORAL HEALTH

The Oral-Systemic Connection

FEBRUARY 7–8, 2014 | SHERATON SAN DIEGO HOTEL & MARINA

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FINAL PROGRAM

Speakers

Wenche S. Borgnakke
Donald M. Brunette
Robert J. Genco
Barbara L. Greenberg
Ira B. Lamster

Robert E. Marx
Panos N. Papapanou
Douglas E. Peterson
Frank A. Scannapieco
Maurizio S. Tonetti

Thomas E. Van Dyke
David T. Wong
Sook-Bin Woo

Michael Glick
Program Chair



Dear Colleagues,

It is with great pleasure that I invite you to attend the 1st International Quintessence Symposium on Oral Health: The Oral-Systemic Connection in San Diego, February 7–8, 2014, at the Sheraton San Diego Hotel & Marina. This unique gathering will bring together the most prominent clinicians and researchers on the subject of the oral-systemic connection.

Over the past several decades, an impressive body of knowledge has accumulated about the impact of oral infections on overall health and well-being. Studies have found important associations that are now being evaluated for causative relationships. New information is being published at a rapid pace, and clinicians must sort through sometimes conflicting published findings.

This symposium provides an opportunity for participants to hear the latest scientific information on the associations between oral diseases and health and learn how to interpret claims made by scientists working on this subject.

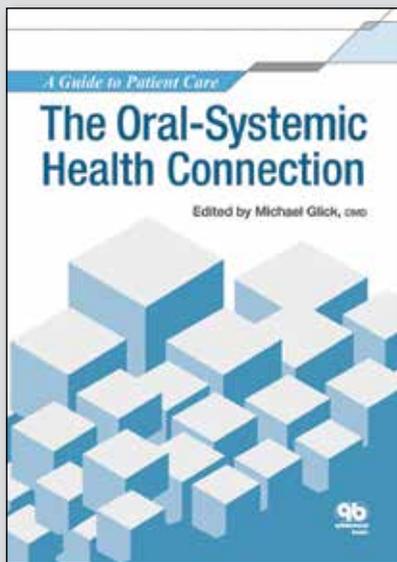
I am confident that this symposium will bring clarity and understanding to a subject of utmost importance to all health care professionals. Not only will you benefit from the knowledge gained from the gathered experts, but you will also be able to apply this knowledge for the benefit of your patients.

I look forward to welcoming you to San Diego and the 1st International Quintessence Symposium on Oral Health: The Oral-Systemic Connection.

A handwritten signature in black ink, appearing to read "Michael Glick".

Michael Glick
Program Chair

NEW BOOK FROM QUINTESSENCE PUBLISHING!



The Oral-Systemic Health Connection: A Guide to Patient Care

Edited by Michael Glick

Written by distinguished experts in the fields of oral medicine, periodontology, epidemiology, and microbiology, this book gathers the latest scientific information on the associations between the oral environment and overall health. With careful analysis, the authors weigh the latest evidence about the relationships between oral infections and systemic diseases and conditions such as diabetes, cancer, osteoporosis, heart disease, pulmonary disease, inflammation, obesity, and complications of pregnancy. Other chapters focus on cutting-edge research into areas such as infectious disease screening, bioinformatics, targeted cancer therapies, and salivary diagnostics. This book will help readers to better understand current and future evidence on the associations between oral health and general health and enable readers to examine with a critical eye the claims made by scientists working on this subject. More importantly, readers will be able to apply this information clinically to guide treatment decisions and recommend preventive strategies, for the benefit of their patients.

Contributors

Yiorgos A. Bobetsis • Wenche S. Borgnakke • Donald M. Brunette • Ilene Fennoy • Marcelo O. Freire • Robert J. Genco • Filippo Graziani • Barbara L. Greenberg • Ira B. Lamster • Robert E. Marx • Panos N. Papapanou • Douglas E. Peterson • Frank A. Scannapieco • Mary Tavares • Maurizio S. Tonetti • Thomas E. Van Dyke • Alessandro Villa • David T. Wong • Sook-Bin Woo

312 pp; 117 illus; ©2014; ISBN 978-0-86715-650-8 (B6508); **US \$118**

REGISTRATION

All participants of the 1st International Quintessence Symposium on Oral Health must register and obtain a badge before attending symposium events. You will not be allowed into the lecture rooms unless you display your badge.

Thursday, February 6	12:00 PM–5:00 PM
Friday, February 7	7:00 AM–5:00 PM
Saturday, February 8	7:00 AM–5:00 PM

Please wear your badge at all times. Admission to the sessions and receptions is by badge only.

LECTURE ROOMS

All sessions will be held in the Harbor Island Ballroom of the Sheraton San Diego Hotel & Marina. Cellular telephones and other electronic devices must be turned off or switched to silent mode during the sessions, and photography, audiotaping, and videotaping are prohibited. Please be courteous to other attendees.

TECHNICAL EXHIBITS

Technical exhibits will be held on Friday and Saturday during the symposium in the Nautilus Rooms. All participants are invited to visit the exhibits to observe the latest developments in dental products offered by the leading manufacturers. See the list of exhibitors on page 10.

EXHIBIT HOURS

Friday, February 7	7:00 AM–5:30 PM
Saturday, February 8	7:00 AM–5:00 PM

BREAKFAST, LUNCH, AND COFFEE BREAKS

Breakfast will be served on Friday and Saturday morning from 7:00 AM to 8:00 AM in the Nautilus Rooms. Lunch will also be served each day. Please take time to visit with the exhibitors during these meal times. Coffee breaks will also be held each morning and afternoon. Complimentary coffee, tea, and soft drinks will be available.

WELCOME RECEPTION

A Welcome Reception will be held on Friday, February 7, from 5:30 PM to 7:00 PM in the Lanai Area, located in the beautiful gardens of the hotel. Food and an open bar will be provided. Take this opportunity to renew friendships and meet colleagues from around the world.

CONTINUING EDUCATION CREDITS

One hour of continuing education (CE) credit is offered for each hour of program attendance. CE credit can be recorded on the CE Form included in your symposium registration packet. One copy of the completed CE Form should be returned to the continuing education counter located in the registration area. Be sure to retain a copy of this completed form for your records; you will receive no further documentation.

CE credit awarded for participation in a course or activity may not apply toward licensing renewal in all states. It is the responsibility of each participant to verify the requirements of his or her state licensing board. Meeting attendees are responsible for ensuring that their education credits are current and on file with their respective state board or other licensing/regulatory agency.

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FRIDAY, FEBRUARY 7, 2014

Program Chair: Michael Glick

TIME	SPEAKER	TITLE
7:00 AM–8:00 AM		Breakfast with Exhibitors
8:00 AM–8:45 AM	Michael Glick	Oral Infections and Overall Health: An Emerging Scientific Journey
8:45 AM–9:30 AM	Barbara L. Greenberg	The Role of the Oral Health Care Professional in Overall Health and Well-Being
9:30 AM–10:15 AM	Donald M. Brunette	Causation, Correlation, Complexity, Confusion, and Oral Health
10:15 AM–10:45 AM		Break and Refreshments with Exhibitors
10:45 AM–11:30 AM	David T. Wong	Salivary Biomarkers for Oral and Systemic Diseases
11:30 AM–12:15 PM	Wenche S. Borgnakke	The Oral Microbiome and Systemic Health
12:15 PM–1:15 PM		Lunch with Exhibitors
1:15 PM–2:00 PM	Thomas E. Van Dyke	The Role of Inflammation in Oral-Systemic Interactions
2:00 PM–2:45 PM	Robert J. Genco	The Association of Periodontal Disease and Diabetes
2:45 PM–3:15 PM		Break and Refreshments with Exhibitors
3:15 PM–4:00 PM	Maurizio S. Tonetti	The Cardiovascular System and Oral Infections
4:00 PM–5:00 PM		Panel Discussion and Questions and Answers

JOIN US FOR THE WELCOME RECEPTION



Friday, February 7

5:30–7:00 PM

Lanai Area (in hotel gardens)

SATURDAY, FEBRUARY 8, 2014

TIME	SPEAKER	TITLE
7:00 AM–8:00 AM		Breakfast with Exhibitors
8:00 AM–8:15 AM	Michael Glick	Welcome
8:15 AM–9:00 AM	Ira B. Lamster	Obesity and Oral Health
9:00 AM–9:45 AM	Frank A. Scannapieco	Links between the Oral Microbiota and Pulmonary Disease
9:45 AM–10:15 AM		Break and Refreshments with Exhibitors
10:15 AM–11:00 AM	Panos N. Papapanou	Pregnancy Outcomes and Oral Infections
11:00 AM–11:45 AM	Douglas E. Peterson	Oral Complications in the Immunocompromised Patient: The Oncology Prototype
11:45 AM–12:45 PM		Lunch with Exhibitors
12:45 PM–1:30 PM	Sook-Bin Woo	Oral Manifestations of Systemic Diseases
1:30 PM–2:00 PM		Break and Refreshments with Exhibitors
2:00 PM–2:45 PM	Robert E. Marx	Osteoporosis: The Oral-Systemic Connection
2:45 PM–4:00 PM		Panel Discussion and Questions and Answers

PROGRAM OBJECTIVES

Participants will:

- Learn how to appraise the literature on the oral-systemic connection
- Understand the etiology of the oral-systemic connection
- Learn how to assess associations linking oral health with general health
- Understand the role of oral health care professionals in improving overall patient health

AUTHOR BIOGRAPHIES



MICHAEL GLICK, DMD

Dr Glick is William M. Feagans Professor of Oral Diagnostic Sciences and dean of the School of Dental Medicine at the University at Buffalo in Buffalo, New York. He is also the editor-in-chief of *The Journal of the American Dental Association* as well as past president of the American Board of Oral Medicine. He has authored several books, including *Dental Management of Patients with HIV* (Quintessence, 1994) and *Burket's Oral Medicine, 10th and 11th Editions* (BC Decker, 2003 and 2008), and more than 200 scientific articles and other publications. Dr Glick approaches dental care from a medical viewpoint, advocating for dentists to consider themselves health care professionals as well as dentists and encouraging them to screen for systemic diseases and conditions.



WENCHE S. BORGNACKE, DDS, MPH, PhD

Dr Borgnakke is a Senior Research Associate in Health Sciences and Assistant Clinical Adjunct Professor at the University of Michigan School of Dentistry, where she has conducted research for over 20 years. Her current research project in Lahore, Pakistan, explores the systemic effects of full-mouth extraction of periodontally diseased teeth and restoration with overdentures in patients with type 2 diabetes. Dr Borgnakke received her dental degree and her PhD in oral epidemiology from the Royal Dental College in Copenhagen, Denmark, and her MPH from the University of Michigan. She is a recipient of the AAP Merit Award (2012) and a member of the International Workgroup on Population-Based Surveillance of Periodontal Infections.



DONALD M. BRUNETTE, PhD

Dr Brunette is a Professor in the Department of Oral Biological & Medical Sciences in the Faculty of Dentistry at UBC. Prior to joining UBC, he was an Assistant Professor in the Medical Research Council Group in Periodontal Physiology at the University of Toronto. His principal research interests include biomaterials, specifically the effects of surface topography on cell behavior and implant performance. Dr Brunette authored *Critical Thinking: Understanding and Evaluating Dental Research* (Quintessence, 1996), which was named the best book in the allied health sciences by the American Medical Writers Association. He has been awarded honorary degrees by universities in Japan and China, and for over 35 years his research has been supported by MRC (Canada)/Canadian Institutes for Health Research.



ROBERT J. GENCO, DDS, PhD

Dr Genco is SUNY Distinguished Professor of Oral Biology and Microbiology and Immunology at the University at Buffalo. He received his dental degree at the State University of New York at Buffalo and then completed a residency in periodontics as well as a PhD in microbiology at the University of Pennsylvania. He has published more than 350 papers in microbiology and immunology related to periodontal infections. Since 1990, Dr Genco's research has focused on the linkages between periodontal disease and systemic conditions such as cardiovascular disease, diabetes, and diabetic complications.



BARBARA L. GREENBERG, MSc, PhD

Dr Greenberg is Professor and Chair of the Department of Epidemiology and Community Health at the New York Medical College, School of Health Sciences and Practice, in Valhalla, New York. She earned an MSc in international health/public health nutrition and a PhD in immunology and infectious disease/epidemiology from the Johns Hopkins Bloomberg School of Public Health, and her career has included several international positions working on diarrheal diseases and malnutrition as well as HIV/AIDS research. More recently, she was an Associate Professor, Director of Institutional Research, and the Associate Dean of Research at the New Jersey Dental School. During the last 8 years, she and colleagues from the oral health research community have been working on an expanded role for oral health care professionals in early disease risk screening for heart disease and diabetes mellitus.



IRA B. LAMSTER, DDS, MMSc

Dr Lamster is Dean Emeritus and Professor of Dental Medicine at Columbia University College of Dental Medicine, where he served as dean from 2001 to 2012 and as vice president from 2006 to 2012. His research efforts have focused on diagnostic testing and risk assessment for periodontal disease, the interrelationship of periodontal disease and systemic disease, the oral health care needs of older adults, and the future of dental education and practice. Dr Lamster has published more than 150 manuscripts and book chapters, and he is the editor of *Improving Oral Health for the Elderly* (Springer USA, 2008) as well as a volume of the *Dental Clinics of North America* entitled *Contemporary Concepts in the Diagnosis of Oral Dental Disease*.

BOOKS ALSO OF INTEREST (VISIT BOOTHS #302–306)



Critical Thinking: Understanding and Evaluating Dental Research, Second Edition

Donald Maxwell Brunette

The second edition of this classic textbook prepares readers to identify the information they need, read it from a critical vantage point, and assess the soundness of the conclusions. It introduces issues of logic, statistics, measurement, research design, and argument. Invaluable for anyone who wishes to become a discerning reader of dental literature.

324 pp (softcover); 90 illus; ©2007; ISBN 978-0-86715-426-9 (B4269); US \$48



Oral and Intravenous Bisphosphonate-Induced Osteonecrosis of the Jaws: History, Etiology, Prevention, and Treatment, Second Edition

Robert E. Marx

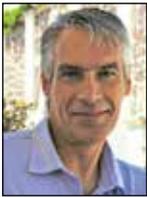
This book establishes the causal relationship between bisphosphonate usage and ONJ. It presents definitive treatment protocols for patients who present at each stage in the progression of ONJ and offers a simple method for predicting risk as well as crucial recommendations for preventing the disease from developing when bisphosphonate therapy is indicated.

160 pp (softcover); 211 illus; ©2011; ISBN 978-0-86715-510-5 (B5105); US \$75



ROBERT E. MARX, DDS

Dr Marx is a professor of surgery and chief of the Division of Oral and Maxillofacial Surgery at the University of Miami Miller School of Medicine. His areas of research include the use of hyperbaric oxygen following radiation therapy, the development of platelet-rich plasma, and the relationship between smoking and carcinogenesis. Dr Marx has received numerous awards, and his first textbook, *Oral and Maxillofacial Pathology: A Rationale for Diagnosis and Treatment* (Quintessence, 2002), won the American Medical Writers Association's Medical Book of the Year Award for 2003 and has since been updated into a second edition. He is also the author of *Oral and Intravenous Bisphosphonate-Induced Osteonecrosis of the Jaws, Second Edition* (Quintessence, 2011) and *Atlas of Oral and Extraoral Bone Harvesting* (Quintessence, 2010).



PANOS N. PAPANANOU, DDS, PhD

Dr Papapanou is Professor of Dental Medicine, Director of the Division of Periodontics, and Chairman of the Section of Oral and Diagnostic Sciences at Columbia University College of Dental Medicine. He received his DDS from the University of Athens, his PhD from Göteborg University, and his postdoctoral training at the Forsyth Institute. His research includes studies of the epidemiology of periodontal disease, the assessment of microbial and host-derived risk factors, and the pathobiology of periodontitis and its role in systemic health outcomes. Dr Papapanou is the recipient of several awards, associate editor of the *Journal of Clinical Periodontology*, a Fellow of the American College of Dentists, and past president and current councilor of the Periodontal Research Group of the IADR.



DOUGLAS E. PETERSON, DMD, PhD

Dr Peterson is Professor of Oral Medicine in the School of Dental Medicine and Chair of the Program in Head & Neck Cancer and Oral Oncology, Neag Comprehensive Cancer Center, University of Connecticut Health Center. He is a Diplomate and current Examiner for the American Board of Oral Medicine and a Fellow of the Royal College of Surgeons (Edin). His career is centered in oral management of cancer and other medically complex patients as well as research directed to oral complications caused by cancer therapy. Dr Peterson has been a reviewer and study section chair for the NIH for more than two decades and was Chair of the 2012 American Society of Clinical Oncology Education. He served as lead editor on the JNCI monograph *Oral Complications of Emerging Cancer Therapies* and as chair of the 2013 Gordon Research Conference.



FRANK A. SCANNAPIECO, DMD, PhD

Dr Scannapieco is Professor and Chair of the Department of Oral Biology, School of Dental Medicine, State University of New York at Buffalo. He is an associate editor of the *Journal of Periodontology* and an editor of two issues of *Dental Clinics of North America*. He serves on the editorial boards of *Infection and Immunity* and the *Journal of Clinical Microbiology* and has refereed for more than 60 other peer-reviewed scientific journals. Dr Scannapieco is treasurer of the American Association for Dental Research and an active member of the American Society for Microbiology as well as the ADA and the AAP. His research focuses on oral microbiology, molecular mechanisms of oral bacterial colonization, and the interface between oral and systemic health, especially the role of oral conditions in the process of respiratory infection.



MAURIZIO TONETTI, DMD, PhD MMSc

Dr Tonetti is the executive director of the European Research Group on Periodontology (ERGOPerio) and editor-in-chief of the *Journal of Clinical Periodontology*. He has held the positions of professor and head of the Department of Periodontology at the University of Connecticut's School of Dental Medicine and at the University College London. He has also been an adjunct professor at the University of Bern in Switzerland and at the University of North Carolina at Chapel Hill. Dr Tonetti maintains a part-time private practice limited to periodontology and implant surgery with an emphasis on regeneration, minimally invasive surgery, and microsurgery. His research interests include regeneration and bio-engineering of lost periodontal structures and the incorporation of dental implants in the management of periodontal patients.



THOMAS E. VAN DYKE, DDS, PhD

Dr Van Dyke is Vice President for Clinical and Translational Research and Chair of the Department of Periodontology at the Forsyth Institute in Cambridge, Massachusetts. His research interest is understanding the structural and functional relationship of the inflammatory process, particularly the effects of microorganisms in periodontal and other infectious diseases. Dr Van Dyke is the recipient of several awards and serves on the editorial boards of *Infection and Immunity*, *Journal of Periodontology*, and *Journal of Periodontal Research*, among others, and has edited two volumes of *Periodontology 2000*. He has published more than 250 original articles and numerous abstracts and book chapters, and he is the past president of the International Association of Periodontology (1997–1999).



DAVID T. WONG, DMD, DMSc

Dr Wong is Felix and Mildred Yip Endowed Professor and Associate Dean of Research and Director of the Dental Research Institute at UCLA. He is an active scientist in oral cancer and saliva diagnostics research. His research has been continuously funded by NIH since 1986. Dr Wong has authored more than 240 peer-reviewed scientific publications and is a Fellow of the American Association for the Advancement of Sciences, a past member of the ADA Council of Scientific Affairs, and the past president of the American Association of Dental Research.



SOOK-BIN WOO, DMD, MMSc

Dr Woo is Associate Professor at the Harvard School of Dental Medicine and graduate program director for oral pathology and Chief of Clinical Affairs at the Division of Oral Medicine and Dentistry at Brigham and Women's Hospital, Boston. She is also codirector of the Center for Oral Pathology at Strata Diagnostics, the biopsy service for the Harvard School of Dental Medicine. She completed her BDS at Singapore University, her DMD at Harvard University, and her oral pathology training at Indiana University School of Dentistry and at Harvard School of Dental Medicine. She is board certified in both oral and maxillofacial pathology and in oral medicine. She is a Fellow of Dental Surgery, Royal College of Surgeons (Edin).

Friday, February 7, 2014

8:00 AM–8:45 AM

Oral Infections and Overall Health: An Emerging Scientific Journey
Michael Glick, DMD

The association between oral infections and overall health has been discussed and debated for more than 2,000 years, yet there are no clear answers or explanations that satisfy both researchers and clinicians. From simple observational studies to complicated genomic tests and other technologic advances, both answers and questions are emerging that will help us understand this association and eventually benefit our patients. This presentation will challenge participants to look at the oral-systemic health connection with both skepticism and confidence.

8:45 AM–9:30 AM

The Role of the Oral Health Care Professional in Overall Health and Well-Being
Barbara L. Greenberg, MSc, PhD

Involving oral health care professionals in strategies to identify individuals at increased risk for coronary heart disease and diabetes can be an effective means of expanding preventive efforts aimed at slowing the development of these diseases. It can also provide a portal into the general health care system for individuals who are not routinely engaged with a primary care provider. This session will provide updated information on the epidemiology of the diseases, recommended and validated available diagnostic screening tests, use of the screening tests, interpretation of the test results, and approaches to discussing test results with patients and making referrals to a physician.

9:30 AM–10:15 AM

Causation, Correlation, Complexity, Confusion, and Oral Health
Donald M. Brunette, PhD

To establish causation, the cause and the effect should be connected through a biologically plausible mechanism. The definitive means of establishing causation is through experimentation, but because trials are often not possible, criteria for judging the strength of the evidence for causation from less rigorous study designs demonstrating associations have evolved, including strength of the association, dose-response relationship, time sequence, consistency, specificity, biologic plausibility, and independence from confounders. This presentation will discuss these concepts, focusing on questions dentists can use in assessing causal relationships as well as methods of presenting their analysis in understandable terms to their patients.

10:45 AM–11:30 AM

Salivary Biomarkers for Oral and Systemic Diseases
David T. Wong, DMD, DMSc

Advances in the science of salivary diagnostics have led to identification of disease signatures of candidate biomarkers and/or confirmation of genetic susceptibility for systemic conditions, particularly in molecular oncology. Salivary biomarker panels have been developed for oral cancer, lung cancer, pancreatic cancer, breast cancer, and ovarian cancer. Coupled with the development of point-of-care technologies and the emerging trend of chairside screening for medical conditions, the clinical impact of scientifically credentialed salivary biomarkers for molecular oncology application will improve access to care, reducing health disparities and impacting global health.

11:30 AM–12:15 PM

The Oral Microbiome and Systemic Health
Wenche S. Borgnakke, DDS, MPH, PhD

Collectively, the microorganisms in the oral cavity have been referred to as the *oral microflora*, *oral microbiota*, or, more recently, the *oral microbiome*. High-throughput genetic-based assays and powerful, novel bioinformatics tools recently made it possible to comprehensively survey the human oral microbiome to identify and determine the prevalence of previously unknown or not culturable organisms. With these new methods, the role of the oral microbiome in periodontal disease and in diseases and conditions associated with periodontal disease is currently being studied. Evidence will be presented for systemic diseases and conditions that implicate oral organisms.

1:15 PM–2:00 PM

The Role of Inflammation in Oral-Systemic Interactions
Thomas E. Van Dyke, DDS, PhD

Recent studies have suggested a relationship between oral infection and systemic diseases that goes beyond simple associations. Epidemiologic studies have implicated periodontal disease as imparting excess risk for the development of cardiovascular disease and stroke. The available evidence associating periodontal disease with risk for systemic disease centers on the role of bacteria from the oral cavity and bacteremia but always in the context of inflammation. The role of periodontal inflammation as a local, extravascular source of inflammation that has significant impact on systemic inflammation is beginning to be understood. This presentation will provide an overview of current concepts in local infection and inflammation as modifiers of systemic disease.

2:00 PM–2:45 PM

The Association of Periodontal Disease and Diabetes
Robert J. Genco, DDS, PhD

Periodontal disease is an infectious complication of diabetes. People with diabetes, especially those with poor glycemic control, are two to three times more likely than those without diabetes to have periodontal disease. Diabetes likely increases susceptibility to periodontal disease by impairing wound healing. Diabetes also leads to a hyperinflammatory state, which exaggerates periodontal tissue destruction. Patients with diabetes and periodontal disease also suffer from higher mortality and morbidity from heart and kidney disease. Periodontal treatment in patients with diabetes contributes to better glycemic control and helps to preserve a functioning dentition, which allows individuals to maintain a healthy diet.

3:15 PM–4:00 PM

The Cardiovascular System and Oral Infections
Maurizio S. Tonetti, DMD, PhD, MMSc

Periodontitis and atherosclerotic cardiovascular disease are highly prevalent, socially relevant chronic diseases. Epidemiologic evidence has linked these two diseases, although the nature of the association remains a matter of debate. Is it due to shared risk factors, or is there a true causal link? Intervention trials provide an initial reading light. Under both scenarios, there are important clinical consequences and reasonable action that needs to be implemented by oral health care professionals. These concepts and their practical implications will be explored.

Saturday, February 8, 2014

8:15 AM–9:00 AM

Obesity and Oral Health

Ira B. Lamster, DDS, MMSc

There is an epidemic of obesity in the United States and across the globe. It has been estimated that 1 in 4 adults is overweight and 1 in 10 is obese. Obesity is associated with a variety of significant health problems, including an increased risk of type 2 diabetes, hypertension and cardiovascular diseases, and certain malignancies, and has also been linked to a number of changes in the oral cavity. Obesity has been investigated as a risk factor for periodontitis and as a cause of obstructive sleep apnea. Dental professionals can have a role in the general management of obesity by identifying patients who are overweight or obese and referring them to a health care provider for comprehensive care.

9:00 AM–9:45 AM

Links between the Oral Microbiota and Pulmonary Disease

Frank A. Scannapieco, DMD, PhD

Associations between poor oral health and pulmonary diseases are possible through a variety of mechanisms. This presentation will provide an overview of the latest information on the problems of aspiration pneumonia and nosocomial-acquired pneumonia, especially ventilator-associated pneumonia (VAP). Both infections lead to serious consequences for morbidity and mortality in institutional settings. Results from a recent randomized trial that tested the effects of topical chlorhexidine on the oral flora of ventilated patients will be presented, and biologic mechanisms involving the oral microflora and host response that influence pneumonia will also be discussed. Practical advice on how to translate this information into everyday practice will also be presented.

10:15 AM–11:00 AM

Pregnancy Outcomes and Oral Infections

Panos N. Papapanou, DDS, PhD

For the past two decades, the link between periodontal diseases and adverse pregnancy outcomes has been extensively studied in both animal models and observational and experimental intervention trials. Although uncertainties still remain, patients need to be informed and provided with care according to the best available evidence. This presentation will explore the scientific rationale, discuss current epidemiologic data, and address results from intervention studies in order to provide oral health care professionals with an understanding of the association between oral infections and pregnancy outcomes.

11:00 AM–11:45 AM

Oral Complications in the Immunocompromised Patient: The Oncology Prototype

Douglas E. Peterson, DMD, PhD

Oral complications in immunocompromised patients can result in clinically impactful sequelae, including compromised quality of life and decreased patient survival. This presentation will address the state-of-the-science of this field, focusing on the myelosuppressed oncology patient as the prototype. Evidence-based strategies for prevention and management of oral disease caused by high-dose as well as emerging molecularly targeted cancer therapies will be discussed. Acute toxicities will be emphasized in relation to the complex interface of the oral cavity with overall systemic status. The presentation will also highlight novel basic, translational, and clinical research that could lead to transformational strategies for oncology patient management in the future.

12:45 PM–1:30 PM

Oral Manifestations of Systemic Diseases

Sook-Bin Woo, DMD, MMSc

Banal-appearing lesions may be a manifestation of systemic disease or a side effect of treatment for systemic disease. Furthermore, the oral signs may be the first presentation, and the dentist is in a unique position to help render an early diagnosis. This presentation will consider six common oral conditions that are encountered in routine general dental practice: aphthous-like oral ulcers, lichen planus and lichenoid lesions, gingivitis, gingival hyperplasia, pigmented macules, and nonhealing extraction sockets. For each, there will be a common “default” diagnosis and differential diagnosis. The differences in history and clinical findings, as well as diagnostic tests that may help distinguish between each of them, will also be presented.

2:00 PM–2:45 PM

Osteoporosis: The Oral-Systemic Connection

Robert E. Marx, DDS

Osteoporosis is an age- and hormone-related thinning of the cancellous trabeculae and cortex, which structurally weakens bone and thus makes it more prone to fracture. Osteoporosis involving the jaws makes gaining primary stability during implant placement more difficult and reduces the potential for osseointegration. However, the greatest impact of osteoporosis on the jaws is a condition now known as *drug-induced osteonecrosis of the jaws* (DIONJ). All oral and intravenous bisphosphonates marketed for osteoporosis, as well as oral denosumab, have caused DIONJ. Yet alendronate (Fosamax), because of its potency and a recommended dose that is twice that of other oral bisphosphonates, has been responsible for more than 90% of all reported cases and has even caused femur fractures. It is the osteoporosis drug of greatest oral impact.

EXHIBITORS LIST

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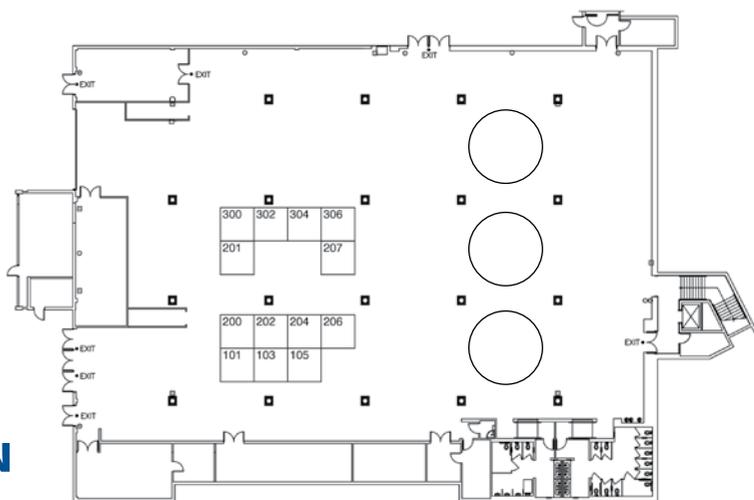
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FLOOR PLAN



SPEAKER DISCLOSURE

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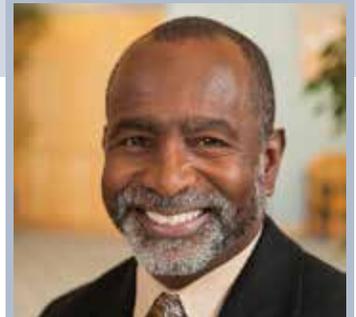
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