

# Selected Topics in Orthognathic Surgery

9th Annual Symposium



March 28, 2009

*Willard InterContinental  
1401 Pennsylvania Avenue, NW  
Washington, DC*

CME Provider:

**IMPROMED**<sup>™</sup>  
MEDICAL EDUCATION DIVISION

## Summary of Need

Orthognathic surgery seeks to correct maxillofacial deformities that are often associated with significant functional impairment. Procedures to alter the relationship of the jaws and teeth include osteotomies of the maxilla, mandible, and chin. A thorough understanding of the evolution of orthognathic principles and practices, combined with knowledge of recent advances in surgical technique and technology, helps the clinician more effectively treat challenging clinical problems. Interdisciplinary treatment planning, backed by strategies to manage complications, are necessary components of effective orthognathic surgery. Continuing education benefits clinicians by exposing them to changing methods in the field, which in turn, leads to improved patient outcomes.

## Overall Purpose

This educational activity will focus on interdisciplinary problem solving in orthognathic surgery. Advanced technologies used to solve problems will be highlighted, as well as indications, planning, complications, and peri-operative considerations. Teaching methods include focused presentations and interdisciplinary discussions of controversial clinical issues. Time for audience questions and interaction will be included.

## Target Audience

Surgeons and Dentists (including residents) practicing in the fields of Oral and Maxillofacial Surgery, Plastic and Reconstructive Surgery, Orthodontics, and Otolaryngology—Head and Neck Surgery.

## Educational Objectives

Upon completion of this CME activity, participants should have increased skills and knowledge, and enhanced attitudes and performance, with a specific ability to:

### *Skill(s)*

Identify advances in practice and technique that contribute to functional and aesthetic improvement in orthognathic patients.

### *Knowledge*

Describe prevailing approaches to both routine and complex orthognathic clinical care problems.

### *Attitude(s)*

Consider the factors involved in a calculated treatment plan for orthognathic patients, including a thorough evaluation, proper diagnosis, realistic predictions, and resulting outcome.

### *Performance*

Identify the importance of utilizing an interdisciplinary approach in the evaluation and treatment of patients with orthognathic deformities.

## Accreditation Statement

ImproMED is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

## Designation of Credit Statement

ImproMED designates this educational activity for a maximum of 8 *AMA PRA Category 1 Credit(s)*<sup>™</sup>. Physicians should only claim credit commensurate with the extent of their participation in the activity.

## Continuing Dental Education Credit

As an Accreditation Council for Continuing Medical Education-accredited provider, ImproMED meets the definition of a constituent or component organization of the AMA and thereby meets most state dental board requirements of an approved sponsor of continuing education. This course is focused on clinical issues in orthognathic surgery that are relevant to the treatment and care of dental patients. Most states accept AMA constituents as approved sponsors for continuing dental education credit. If you have questions, your state dental board can confirm eligibility of this course.

## Disclosure Statement

It is the policy of ImproMED to ensure balance, independence, objectivity, and scientific rigor in its educational activities. Individuals who are in a position to control the content of an educational activity are required to disclose all relevant financial relationships they have with any commercial interest. The Accreditation Council for Continuing Medical Education's (ACCME) Standards for Commercial Support (SCS) require that ACCME-accredited providers disclose to learners the following information: 1) the name of the individual, 2) the name of the commercial interest, and 3) the nature of the relationship the person has with each commercial interest.

## SELECTED TOPICS IN ORTHOGNATHIC SURGERY

Washington, DC • March 28, 2009

**Course Chairman:** Jeffrey C. Posnick, DMD, MD, FRCS(C), FACS

|                     |   |
|---------------------|---|
| 7:15 am-7:45 am     | <b>Registration &amp; Continental Breakfast—Ballroom Foyer</b>  |
| 7:45 am-8:00 am     | <b>Introduction</b><br>Jeffrey C. Posnick, DMD, MD, FRCS(C), FACS   |
| 8:00 am-8:15 am     | <b>Orthognathic Surgery: Pioneer Contributions by Dr. Hugo L. Obwegeser</b><br>Jeffrey C. Posnick, DMD, MD, FRCS(C), FACS   |
| 8:15 am-9:00 am     | <b>Session I: Orthognathic Surgery—<br/>The Tale of How Three Procedures Came to Be</b><br>Hugo L. Obwegeser, MD, DMD   |
| 9:00 am-10:00 am    | <b>Session II: 3D Planning in Orthognathic Surgery—<br/>Clinical Applications of New Technology</b><br><b>Session Chair:</b> Linda A. Hallman, DDS, PhD<br><b>Clinical Perspectives:</b> David C. Hatcher, DDS, MSc, MRCD(C)  |
| 10:00 am-10:45 am   | <b>Session III: The Role of Distraction Osteogenesis (DO) in Orthognathic<br/>Surgery—Current Clinical Perspectives</b><br><b>Session Chair:</b> Jeffrey C. Posnick, DMD, MD, FRCS(C), FACS<br><b>Clinical Perspectives:</b> Joachim A. Obwegeser, MD, DMD, FEBOMFS |
| 10:45 am-11:00 am   | Coffee Break  |
| 11:00 am-12:00 noon | <b>Session IV: Orthognathic Surgery—A Personal Perspective</b><br><b>Session Chair:</b> Jeremy D. Orchin, DDS<br><b>Clinical Perspectives:</b> Harvey M. Rosen, DMD, MD, FACS   |
| 12:00 noon-1:00 pm  | Lunch—Crystal and Pierce Rooms  |
| 1:00 pm-2:00 pm     | <b>Session V: Skeletal Implant Augmentation—An Occasional Alternative or<br/>Adjunct to Orthognathic Surgery</b><br><b>Session Chair:</b> Jeffrey C. Posnick, DMD, MD, FRCS(C), FACS<br><b>Clinical Perspectives:</b> Michael J. Yaremchuk, MD, FACS                |
| 2:00 pm-2:45 pm     | <b>Session VI: Enhanced Smile Aesthetics—<br/>A Primary Objective in Orthognathic Surgery</b><br><b>Session Chair:</b> George Obeid, DDS<br><b>Clinical Perspectives:</b> Felice S. O’Ryan, DDS   |
| 2:45 pm-3:15 pm     | Coffee Break  |
| 3:15 pm-4:15 pm     | <b>Session VII: Complications in Orthognathic Surgery—<br/>If It Can Happen, It Will</b><br><b>Session Chair:</b> Steven M. Siegel, DMD<br><b>Clinical Perspectives:</b> Felice S. O’Ryan, DDS  |
| 4:15 pm-5:00 pm     | <b>Session VIII: “Midface Lifting” for Facial Aging—Lessons Learned</b><br><b>Session Chair:</b> Steven M. Siegel, DMD<br><b>Clinical Perspectives:</b> Harvey M. Rosen, DMD, MD, FACS  |
| 5:00 pm-6:00 pm     | Reception and Meet with the Faculty—in the Nest (Mezzanine Level)   |
| 7:00 am-5:00 pm     | Exhibits—Buchanan   |



## **Jeffrey C. Posnick, DMD, MD, FRCS(C), FACS**

### *Course Chairman*

Educated in both dentistry (Harvard University) and medicine (Vanderbilt University), Dr. Posnick is board certified in Oral and Maxillofacial Surgery and Plastic Surgery. His professional appointments include Clinical Professor of Surgery and Pediatrics at Georgetown University in Washington, DC, and Adjunct Professor of Orthodontics at University of Maryland, Baltimore College of Dental Surgery. He has lectured around the world and published more than 200 journal articles and book chapters. His textbook, *Craniofacial and Maxillofacial Surgery in Children and Young Adults*, is considered a standard reference in the field. He conducts an active clinical practice and serves as director of the *Posnick Center for Facial Plastic Surgery* in Chevy Chase, Maryland.

## INTERNATIONAL GUEST SPEAKERS



## **Hugo L. Obwegeser, MD, DMD**

Hugo Obwegeser was born in Hohenems, Austria in 1920. He received his medical degree from the University of Innsbruck in 1945 and his dental degree from the University of Graz (Austria) four years later. In 1987, Professor Obwegeser was honored as Honorary Professor of Medical Faculty from the University of Zürich, Switzerland.

After his training in general surgery and internal medicine, Professor Obwegeser studied pathology in Vienna with Professor Hermann von Chiari before entering specialist training in Graz with Professor Richard Trauner. He also took the opportunity of gaining experience with Sir Harold Gillies in the United Kingdom during the time of enormous developments in plastic surgery. Additionally, Professor Obwegeser studied with Professor Eduard Schmidt in Stuttgart, where he gained an appetite for the development of innovative hard and soft tissue reconstructive techniques.\*

Professor Obwegeser's influence on the field of orthognathic surgery is immeasurable. He has contributed numerous surgical principles that surgeons around the world follow to this day. From his first transoral sagittal splitting of the mandibular ramus, his osseous genioplasty, and the LeFort I osteotomy, Professor Obwegeser has insisted on a transoral approach for surgery on the facial skeleton, and this is perhaps his most important principle.

Professor Obwegeser is certainly not new to Washington, DC. In 1966, after meeting a leading surgeon in the US army, he presented a three-day invitational lecture series at the Walter Reed Army Medical Center (then Walter Reed Hospital) and opened the European philosophy of advanced maxillofacial surgical techniques, led by the Zürich School, to American colleagues. This series of lectures forever changed the oral-maxillofacial surgery specialty. He has remained very active on the academic scene and in a recent textbook (*Mandibular Growth Anomalies: Terminology, Aetiology, Diagnosis, Treatment*, 2001; Springer-Verlag New York, LLC) reminds us of over 60 fundamental principles. Professor Obwegeser has delivered numerous invited lectures worldwide and gained a galaxy of personal awards. Now, nearly 43 years after his initial visit, Professor Obwegeser joins us again in Washington, DC, to share his tale of how three now-commonplace orthognathic procedures came to be.

*\*Thanks to Professor John Lowry (UK) for his contribution to Prof. Obwegeser's biographical background.*



## **Joachim A. Obwegeser, MD, DMD, FEBOMFS**

Joachim A. Obwegeser, MD, DMD, is Leitender Arzt and Co-Director at the Department of Cranio-Maxillofacial Surgery of the University Hospital Zurich, Switzerland. He is Chief of Craniofacial and Pediatric Maxillofacial Surgery.

Dr. Obwegeser obtained his medical degree from the University of Innsbruck, Austria and his dental degree from the University of Graz, Austria. He was trained in full scope craniomaxillofacial surgery in Graz, Austria. To expand his expertise in diagnosing and treating dentofacial anomalies, Dr. Obwegeser underwent additional education in orthodontics and dentofacial orthopedics. Since 1982 he has been a member of the craniofacial and microsurgery teams in Graz, Linz, and Zurich.

Dr. Obwegeser completed his postdoctoral qualification for a teaching career in higher education at the University of Vienna, Austria. Between 1989 and 2002 he served as Associate Professor at the Department of Cranio-Maxillofacial Surgery, General Hospital Linz, Austria. In 2002, he was invited to take over the position as "Leitender Arzt" and Senior lecturer at the Department of Cranio-Maxillofacial Surgery, University Zurich, Switzerland, where he remains. His main interests are in craniofacial anomalies, craniofacial tumors, cleft lip and palate, orthognathic surgery, and reconstructive surgery, including microsurgical techniques.

Dr. Obwegeser has authored 87 scientific publications and 7 book chapters. He was awarded the Scientific Prize of the European Association of Cranio-Maxillofacial Surgery in 1992 in recognition for his contributions to the field of re-absorbable osteosynthesis materials. Dr. Obwegeser has given more than 250 professional presentations throughout Europe, United States, Latin America, Middle East and Far East. He serves as an Examiner to the European Board of Oral and Maxillofacial Surgery. He is a member of the Executive Council of the Swiss Society of Maxillo-Facial Surgery and the Swiss Association for Cleft Lip and Palate and Craniofacial Anomalies. Dr. Obwegeser is active in numerous professional societies, nationally and internationally.

# ABOUT THE FACULTY

## PRESENTING FACULTY



### **David C. Hatcher, DDS, MSc, MRCD(C)**

Dr. Hatcher received his DDS degree from the University of Washington in 1973. Subsequently he completed two years of active duty in the US Public Health Service and a one-year General Practice residency at the University of Vermont Medical Center. Following three years as an instructor and one year as active Director of the General Practice residency program and the Hospital Dental Clinic at the University of Washington, Dr. Hatcher entered the graduate program in radiology at the University of Toronto. He was granted a specialty in Oral and Maxillofacial Radiology in 1982 and an MSc in 1983. His thesis topic dealt with radiology of mandibular dysfunction.

Dr. Hatcher was an Associate Professor and Chairman of the Division of Radiology for five years at the University of Alberta, Canada. He was also Director of the Temporomandibular Joint Investigation Unit and Clinic while at the University of Alberta. He holds faculty appointments at both the University of California, San Francisco and the University of Pacific Dental Schools. He has published many articles and lectured extensively to medical and dental organizations in the United States and Canada. Presently Dr. Hatcher is in private practice at Diagnostic Digital Imaging (ddi) in Sacramento, California.



### **Felice S. O'Ryan, DDS**

Felice O'Ryan, DDS, is Director of the Maxillofacial Surgery Department for the Kaiser Permanente Medical Center in Oakland, California, where she has practiced since 1989. Dr. O'Ryan also serves as Assistant Clinical Professor in the Department of Oral and Maxillofacial Surgery at both the University of the Pacific School of Dentistry in San Francisco and the Alameda County Medical Center in Oakland.

Dr. O'Ryan completed her DDS at the University of the Pacific School of Dentistry in 1979. She followed this with an internship at the Center for the Correction of Dentofacial Deformities in Fort Worth, Texas, and a residency at University of Texas Health Sciences Center in Dallas.

Dr. O'Ryan is an active member of several professional associations. She has lectured throughout the US and internationally. Since 1994, Dr. O'Ryan has served on the Editorial Board of the *Journal of Oral and Maxillofacial Surgery*. She has published numerous articles and several book chapters on topics within orthognathic surgery.



### **Harvey M. Rosen, MD, DMD, FACS**

Harvey M. Rosen received his medical and dental degrees from the University of Pennsylvania and completed both General Surgery and Plastic Surgery residencies at the Massachusetts General Hospital, Boston, Massachusetts. He finished his surgical training with a fellowship in Craniofacial Surgery at the Hospital of the University of Pennsylvania and the Children's Hospital of Philadelphia. He was Chief of the Division of Plastic Surgery at Pennsylvania Hospital for 27 years before retiring from active practice. He is a Clinical Associate Professor of Surgery at the University of Pennsylvania.

His major clinical and research interests have been focused in orthognathic surgery and facial aesthetic surgery, areas in which he has widely lectured and published. His major contributions have been two-fold: 1) the emphasis of aesthetics in orthognathic surgery and the role that the soft tissues must play in treatment planning, and 2) the technical advances that have made this approach possible.



### **Michael J. Yaremchuk, MD, FACS**

Dr. Yaremchuk received his MD from the Columbia College of Physicians and Surgeons and his BA degree from Yale College. After completing his plastic surgery training at the Johns Hopkins Hospital, he was invited to join the hospital's full-time staff as Associate Director of Plastic Surgery for the Maryland Shock Trauma Institute. While there, he helped redefine the institute's methods of treatment for severe injuries to the face and facial skeleton. Dr. Yaremchuk subsequently completed a craniofacial surgery fellowship at the Hospital of the University of Pennsylvania and Children's Hospital of Philadelphia. He is currently Chief of Craniofacial Surgery at the Massachusetts General Hospital and a Clinical Professor of surgery at the Harvard Medical School.

Dr. Yaremchuk has authored three textbooks, 40 book chapters, and over 100 scientific articles. He has lectured to his surgical colleagues around the world. His research laboratory focuses on the potential of bioengineered tissues and transplantation to enhance or reconstruct the face and facial skeleton. He has been certified by both the American Board of Surgery and the American Board of Plastic Surgery.

## LOCAL FACULTY



### **Linda A. Hallman, DDS, PhD**

After receiving her DDS and PhD from the University of Maryland and a postdoctoral research fellowship at Thomas Jefferson University, Dr. Hallman completed her orthodontic training at the University of California, San Francisco. She currently serves as Director of Orthodontics at Children's National Medical Center in Washington, DC, with an academic appointment as Assistant Professor at George Washington University Medical School. She conducts an active pediatric and adult orthodontic private practice in Chevy Chase, Maryland.

## LOCAL FACULTY, CONTINUED



### **George Obeid, DDS**

Dr. Obeid is chairman of the Department of Oral and Maxillofacial Surgery at the Washington Hospital Center in Washington, DC. He also serves as the Director of the Residency Training Program and as a Senior Attending Surgeon at the Washington Hospital Center. He is an Attending Surgeon at the Children's National Medical Center and an active member of the Children's Hospital cleft and craniofacial team. He holds an Assistant Clinical Professor appointment at George Washington University in Washington, DC. Dr. Obeid is not only an experienced senior full scope Oral and Maxillofacial Clinical Surgeon in the greater Washington community, but is considered an outstanding educator in the field.



### **Jeremy D. Orchin, DDS**

After receiving his dental degree from Case Western Reserve University, Dr. Orchin completed his training at Columbia University School of Orthodontics. He is a Diplomate of the American Board of Orthodontics and a member of the Angle Society of Orthodontics. He currently serves as Senior Attending, Department of Orthodontics at Children's National Medical Center. He is Clinical Professor, Division of Dentistry, Department of Otolaryngology/Head and Neck Surgery at Georgetown University in Washington, DC. Dr. Orchin is considered one of the outstanding orthodontists in the Washington, DC area, where he has maintained an active clinical practice for the past thirty years.



### **Steven M. Siegel, DMD**

After receiving his DMD from Tufts University School of Dental Medicine (magna cum laude), Dr. Siegel went on to serve as a Commissioned Dental Officer in the United States Public Health Service. In 1988, he received his Orthodontic certificate from the University of Medicine & Dentistry of New Jersey. Dr. Siegel currently serves as Clinical Assistant Professor in the Baltimore College of Dental Surgery's post-graduate orthodontics department. He is a member of the Johns Hopkins Cleft and Craniofacial Rehabilitation Team and serves as a staff member in the Department of Oral and Maxillofacial Surgery and Dentistry at the Sinai Hospital of Baltimore. Dr. Siegel is past president of the Maryland State Society of Orthodontists and presently serves as Director for the Middle Atlantic Society of Orthodontists. He maintains private practices in Glen Burnie, Reisterstown, and Owings Mills, Maryland.

### **Course Location and Accommodations**

The Willard InterContinental Washington Hotel has extended a room rate of \$315 per night to symposium attendees. This rate will be honored until March 6, 2009. After this date, reservations will be accepted based upon availability and at prevailing rates. To make reservations, call 1-800-827-1747 (toll free within the US) or 00-1-202-628-9100 (globally) and reference the name of the event, "Orthognathic Surgery Symposium."

To make reservations online, visit [www.washington.intercontinental.com](http://www.washington.intercontinental.com), click on 'reservations,' enter your arrival/departure dates and room preferences, and under 'Corporate, Group & IATA Identification (optional),' enter the Group Booking Code: IPØ. [Note: the last character in the Group Booking Code is a zero].

#### **Willard InterContinental**

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December 6, 2008

Interdisciplinary Problem-Solving in Maxillo-Mandibular Reconstruction  
*Paradise Point Resort & Spa, San Diego, California*  
Course Chairman: Richard E. Hayden, MD, FACS



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**Registration Form Enclosed**

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