The Midwestern Association of Plastic Surgeons

Presents

51\textsuperscript{th} Annual Educational Meeting

Saturday – April 21, 2012
Sunday – April 22, 2012

Northwestern Memorial Hospital
Feinberg Pavilion – 3\textsuperscript{rd} Floor Conference Center
251 East Huron Street
Chicago, Illinois
Educational Purpose and Intended Audience

- Incorporate a new approach to migraine headache treatment using injection and surgical techniques
- Understand and utilize the critical points in executing a rhinoplasty
- Discuss current challenges in patient safety and implement changes in practice to minimize complications
- Establishment of best practice model to ensure patient safety in plastic surgery
- Acquire the latest research in both academic and clinical setting to apply to improve patient outcomes
- Presentations from invited experts in the field on expertise for specific difficult patient conditions including lectures and panel discussions.

Experience with different approaches to clinical problems in plastic surgery will be shared between practicing plastic surgeons in both private practice and university-based practice. The meeting will present different approaches to these problems to address gaps in knowledge among meeting attendees and recognize best practice models for patient safety and favorable outcomes. Presentations in basic science and clinical research will demonstrate how these projects translate to plastic surgeons’ individual practices and how they impact patient care.
Registration Fees:

The registration fee is $125.00 for members; $75.00 for fellows, residents & medical students. A late fee will be added after March 15, 2011 making the registration fee as follows: $175.00 for members; $100.00 for fellows, residents & medical students. These fees cover registration, instruction, educational material, Saturday lunch, Welcome reception and Awarding of CME credits.

Due to the small staff and very reasonable fees, Refunds are not available for the MAPS Conference except under special or unusual circumstances or hardship.

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2009 Michael W. Neumeister
2010 Rajendra R. Shah
2011 Steven D. Williams
We gratefully acknowledge our exhibitors:
SATURDAY April 21, 2012

06:30  REGISTRATION OPEN

07:45 – 08:00  WELCOME REMARKS
Karol Gutowski, MD - President

SESSION I  WOUND HEALING, BURNS, BASIC SCIENCE, PATIENT CARE

Time Keepers:  Raphael Lee, MD, ScD and John Hijjawi, MD

Block A:  Wounds and Burns

08:00 – 08:05  Cocaine Induced Full Thickness Tissue Necrosis
Ashley Amalfi, MD Michael W. Neumeister, MD,
Reuben A. Bueno, MD, Nicole Z. Sommer, MD, Nada N. Berry, MD
Southern Illinois University School of Medicine

08:06 – 08:11  Efficacy of Serum Nutritional Measurements as a Predictor of Wound Healing Complications in Bariatric Patients Undergoing Panniculectomy: A Multi-Institutional Study
John R. Barbour, MD 1 Patrick J. O’Neill, MD2 Thomas H. Tung, MD1
Washington University School of Medicine1
Medical University of South Carolina2

08:12 – 08:17  Multidrug-Resistant Acinetobacter in a Burn Intensive Care Unit: Epidemiology, Progression, and Containment Protocol
Megan Henderson, MD, Theresa Hegge, MD, Alyssa Moore PA,
Reuben A. Bueno, MD, Michael W. Neumeister, MD
Southern Illinois University School of Medicine

08:17 – 08:22  Questions and Discussions

Block B:  Wounds and Burns

08:23 – 08:28  Human Bites Resulting in Hand Infections: Is Eikenella a Bug of the Past?
Victor J. Hassid, MD1,3, Simple Banipal, MD2, Benjamin Liliav, MD1,3,
Mansour V. Makhlof, MD3, Orhan Kaymakcalan, MD3
1 University of Illinois at Chicago, Chicago, IL; Department of Surgery
2 Mount Sinai Hospital, Chicago, IL
3 Mount Sinai Hospital, Chicago, IL

08:29 – 08:34  Indirect Diagnosis of Osteomyelitis: A Dilemma
Ashesha Mechineni, Victor L. Lewis Jr., M.D.
Kamineni Institute of Medical Science
08:35 – 08:40  **Retrospective Review of Octogenarian Burn Patient Mortality**  
Cedar Helen Malone, MD, Michael W. Neumeister MD,  
Reuben A. Bueno MD, Nichole Z. Sommer MD, S.J. Markwell,  
Jennifer L. Koechle  
Southern Illinois University School of Medicine – Springfield, IL  

08:40 – 08:45  **Questions & Discussion**  

**Block C:**  

Basic Science  

08:46 – 08:51  **How Many Bacteria Does it Take? The Host Immune Response Fails to Prevent Even Low Numbers of Bacteria from Rapidly Establishing Biofilm Infection in Wounds**  
Anandev Gurjala MD, Matt Geringer, Robert Galiano, MD, Thomas Mustoe, MD,  
Kai Leung  
Northwestern University Feinberg School of Medicine – Chicago, IL  

08:52 – 08:57  **Immunoregulatory and Regenerative Properties of Adipose Stem Cell – Hydrogel Constructs**  
Summer E. Hanson, MD, PhD; Suzanne King, MA; Susan L. Thibeault, PhD;  
Michael L. Bentz, MD; Peiman Hematti, MD  
University of Wisconsin School of Medicine and Public Health  

08:58 – 09:03  **Adipose-derived Stem Cell to Skin Stem Cell Transdifferentiation: A Mechanism to Improve Understanding of Fat Grafts’ Skin Regenerative Potential**  
Brian M. Derby MD, Hui Dai MD, PhD, Joel Reichensperger,  
Carrie Harrison, Lisa Cox, Reuben A. Bueno MD,  
Michael W. Neumeister MD  
Southern Illinois University School of Medicine  

09:04 – 09:09  **Evaluating the Effects of Subclinical, Cyclic Ischemia-Reperfusion Injury on Wound Healing Using a Novel Device in the Rabbit Ear**  
Jordan P. Steinberg, MD., PhD., Anandev N. Gurjala, MD, MS,  
Shengxian Jia, MD, PhD., Seok Jong Hong, PhD, Robert D. Galiano, MD and Thomas A. Mustoe, M.D.  
Northwestern University Feinberg School of Medicine  

09:09 – 09:14  **Questions and Discussions**  

**Block D**  

Patient Care  

09:15 – 09:20  **Bactericidal Surgical Drain Development**  
Andrew D. Navarrete, MD  
Samuel O. Poore, MD  
University of Wisconsin Hospital and Clinics
09:21 – 09:26  Postoperative Nausea and Vomiting: Guidelines for the Plastic Surgeon  
Sara Yegiyants MD, Ilana Sweis MD, Mimis N. Cohen MD  
University of Illinois Chicago

09:27 – 09:2  On the Shoulders of Giants: Plastic Surgery History and Our Connection to It  
Donald W. Buck II M.D.  
Northwestern University, Feinberg School of Medicine

09:33 – 09:38  Questions & Discussions

09:38 – 10:00  Break

10:00  Keynote Address  
Rhinoplasty: Cardinal Points  
Bahman Guyuron, MD

11:00  Keynote Address  
Botox Injection & Surgical Treatment of Migraine Headaches  
Bahman Guyuron, MD

12:00 – 12:45  Lunch  
Residents & Medical Students:  
Q & A Luncheon with Leroy Young, MD  
Location: Room:

SESSION II  
Selected Topics in Plastic Surgery

Time Keeper:  Reuben A. Bueno, MD

Block A

12:45 – 12:50  Single Stage Nipple-Areolar Complex Reconstruction:  
Outcomes and Patient Satisfaction  
Benjamin Liliav MD, Jennifer Loeb MS, Anuja K. Antony MD, MPH  
University of Illinois Chicago

12:51 – 12:56  Herpes Simplex Virus Type 1 Infection in Burn Patients  
Kelli N. Webb MD, Alyssa N. Moore PA-C, Nicole Z. Sommer MD,  
Reuben A Bueno MD, Michael W Neumeister MD, FRSCS, FACS.  
Southern Illinois University School of Medicine

12:57 – 01:02  A Comparison of Outcomes between Alloplastic and Autologous Breast Reconstruction: 2005-2010 Data from the National Surgical Quality Improvement Program (NSQIP)  
Sahil Kapur, MD, Victor Rajamanickam, MD, Samuel Poore, MD  
University of Wisconsin
01:03 – 01:08  Patient Safety in the Operating Room: A Review of Perioperative Risks and Methods to Minimize Risks
Nyama M. Sillah¹ MD; Samuel O. Poore¹ MD, PhD; Ashish Y. Mahajan¹ MD; Karol A. Gutowski² MD
¹University of Wisconsin Hospital and Clinics
²Northshore University Health System

01:09 – 01:14  Questions & Discussions

01:15 – 01:30  Surgeons in Practice Panel I
Breast Augmentation Panel: Selecting the Right Implant
Moderator: Karol Gutowski, MD
Panelists: Peter Geldner, MD, Otto Placik, MD, Clark Shierele, MD, PhD

01:30 – 02:30  Keynote Address
Update on Patient Safety in Plastic Surgery
Leroy Young, MD - ASAPS Traveling Professor

02:30 – 03:00  Break

03:00 – 03:40  Surgeons in Practice Panel II
Breast Reconstruction Panel: Perforator Flap Breast Reconstruction
Moderator: Mark Sisco, MD
Panelists: Anuja K. Antony, MD, John Hijjawi, MD, David Song, MD

SESSION III  BREAST AND COSMETIC

Time Keepers: Anuja K. Antony, MD, Iliana Sweis, MD

Block A  Breast

03:41 – 03:46  Technique of Inframammary Fold Reconstruction (IMFR) in Two-Stage Tissue Expander/Implant (TE/I) Breast Reconstruction (BR)
Karina Laura Paulius Quinn MD, Anuja K. Antony MD, MPH
University of Illinois

03:47 – 03:52  Deep Inferior Epigastric Perforator Flap for Breast Reconstruction after Abdominoplasty
Jonathan Bank, MD*, Lucio A. Pavone, MD+, Michelle C. Roughton, MD+, Loren S. Schechter, MD+
*University of Chicago Medical Center,
+University Plastic Surgery

03:53 – 03:58  Patient Satisfaction with 3D Imaging Technology in Cosmetic Breast Augmentation: A Pilot Study
Cedar Helen Malone, MD Ashley Amalfi, MD, Nichole Z. Sommer MD, Michael W. Neumeister, MD
Southern Illinois University School of Medicine

03:59 – 04:04  Discussion & Questions

04:05 – 04:10  Comparison of Delayed and Immediate Tissue Expander Breast Reconstruction in the Setting of Post-mastectomy Radiation Therapy

Hayley R. Silver, BS; Akhil K. Seth, MD; Elliot M. Hirsch, MD; Neil A. Fine, MD
Northwestern University

04:11 – 04:16  Breast Aesthetics: The Golden Ratio

Ramasamy Kalimuthu, MD, Sara Yegiyants, MD, Barbara Krueger, MD
University of Illinois Chicago


Laura Bonneau, MD
University of Wisconsin - Madison

04:23 – 04:28  Discussions and Questions

Block B  Cosmetic

04:29 – 04:34  Revisiting Browpexy as an Adjunct to Blepharoplasty: Introduction of the Lateral Brow Retaining Apparatus

Trang Q. Nguyen, MD Julius W. Few, MD
University of Chicago Medical Center

04:35 – 04:40  Near-fatal Complication Following Injection of Poly-L-lactic acid (Sculptra)

Sonya P. Agnew, MD and Victor L. Lewis, Jr, MD
Northwestern University, Division of Plastic and Reconstructive Surgery

04:40 – 04:45  The Lateral Brow Lift under Local Anesthesia: A Simplified Technique

Jennifer Cheesborough, MD, Thomas A. Mustoe, MD
Northwestern Memorial Hospital

04:45 – 04:50  Discussions & Questions

04:50 – 05:20  Surgeons in Practice Panel III

Family Feud: Management of the Mangled Hand

Moderator: Reuben A. Bueno, MD
Panelists: Jeffrey Weinzweig, MD, Norman Weinzweig, MD
05:21 – 05:51  
**Surgeons in Practice Panel IV**  
**Hand Surgery Update**  
**Different Approaches to Thumb CMC Arthritis**  
Reuben A. Bueno, MD  
**Current Therapy and Concepts for the Dysvascular Hand**  
Ginard Henry, MD  

To Follow Program  
Welcome Reception / Social  
Location: Krumlovsky Atrium
SUNDAY April 22, 2012

06:30 am  Registration Opens

07:30 – 08:00  MAPS Business Meeting (members only)

Session IV  CRANIOFACIAL, NERVE, GENERAL RECONSTRUCTION

Time Keeper:  Michael Bentz, MD, Reuben Bueno, MD, Anuja Antony, MD

Block A  Craniofacial

08:00 – 08:05  CAD/CAM Designed Surgical Positioning Guides: The Link Between Virtual and Actual Surgery
Troy Pittman MD, Christina Tragos MD, John W. Polley MD, Alvaro Figueroa DDS
Rush University Medicine Center

08:06 – 08:11  Critical Age: Objective, patient-specific timing of helmet therapy in treatment of positional plagiocephaly and brachiocephaly
Roshni Rawlani, Vinay Rawlani MD, Caitlin Connor BS, Frank Vicari MD
Northwestern University

08:12 – 08:17  Endoscopically assisted release of sagittal craniosynostosis: a meta-analysis
Pravin Patel, MD, Mazen S. Harake, MD, MS
University of Illinois

08:18 – 08:23  Predicting airway compromise in the infant with Pierre Robin Sequence
Carolyn R. Rogers, MD, Delora L. Mount, MD,
University of Wisconsin

08:24 – 08:29  Questions & Discussion

Block B  Nerve

08:30 – 08:35  Cortical remodeling observed on BOLD fMRI over a 10 month period in a rat survival model of brachial plexus avulsion and cross C7 nerve transfer
Nicholas Flugstad, MD, J.B. Stephenson, R. Li, J.G. Yan, J.S. Hyde, H.S.
Matloub, MD
Medical College of Wisconsin

08:36 – 08:41  Management of Peripheral Nerve Pathology in the Lower Extremity: A Review of the Literature and Case Series
Michael S. Gart, MD, Donald W. Buck II, MD, Gregory A. Dumanian, MD
Northwestern Memorial Hospital
08:42 – 08:47 The Effects of Folic Acid on Peripheral Nerve Recovery in a Rat Sciatic Nerve Model
Emily C. Hartmann MD, MS, Samuel O. Poore MD, PhD, Bermans J. Iskandar MD
University of Wisconsin

08:48 – 08:53 A Side-to-Side Nerve Bridge Preserves Muscle Viability Following Peripheral Nerve Injury
Shaun D. Mendenhall², MD; Jared W. Garlick³, BS; Jill Shea, PhD⁴; Linh A. Moran, BS⁵, Mohamed E. Salama, MD⁶, Jayant P. Agarwal, MD⁶
a) Southern Illinois University School of Medicine.
b) University of Utah School of Medicine

08:54 – 08:59 Discussion & Questions

Block C General Reconstruction

09:00 – 09:05 Technical Considerations for the Free Fibula in Mandible Reconstruction: Virtual Surgical Planning Systems and Osteointegrated Implants
Suhair Maqusi, MD, Antonio Kolokythas, Mimis N. Cohen, MD, Anuja K. Antony, MD
University of Illinois Chicago

09:06 – 09:11 Synthetic vs Bioprosthetic Utilization in Chest Wall Reconstruction 35 year Meta-Analysis
Christopher Surek DO, Richard Korentager MD
University of Kansas Medical Center

09:12 – 09:17 Assessing Surgical Skill in Plastic Surgery Residency Training: Developing and Implementing a Low-Cost Online Video Assessment System to Document Proficiency
Nathan Wetter, BS, Kelli Webb, MD, Reuben Bueno, MD, Michael Neumeister, MD
Southern Illinois University School of Medicine

09:17 – 09:22 Discussions & Questions

09:23 – 09:28 Modification of Pectoralis Myocutaneous Advancement Flap for Sternal Wound Reconstruction
Sara Yegiyants MD, Ramasamy Kalimuthu, MD
University of Illinois Chicago

09:29 – 09:34 Outcomes of Secondary Sternal fixation using Rigid Plates for Infected and Dehisced Sternotomy Wounds
Eugene Park
Northwestern University Feinberg School of Medicine
09:35 – 09:40 Twenty-year Experience with Microsurgical Reconstruction of Hemifacial Atrophy and Linear Sclerodema
Daniel Schmid, MD
University of Wisconsin Madison

09:40 – 09:45 Discussions & Questions

09:45 – 10:15 Break

10:15 – 10:55 Surgeons in Practice Panel V
Management of Cleft Lip & Palate Patient
Moderator: Michael Bentz, MD,
Panelists: Timothy King, MD, PhD, Russell Reid, MD, PhD, Pravin Patel, MD

10:55 – 11:55 Surgeons in Practice Panel VI
New Concepts in Plastic Surgery
Update on Cutaneous Melanoma
William Dzwierznski, MD
The Versatile Thoracodorsal Flap: A Valuable Tool in Breast Reconstruction
Thomas Lawrence, MD
Aesthetic Surgery of the Chin
Joseph Daw, MD, DDS
Brachioplasty
Victor Makhlouf, MD
Anterolateral Thigh Flap Reconstruction after Laryngopharyngectomy
Wei Chen, MD

12:00 – 12:30 Awards and Adjournment
ABSTRACTS
Insert Abstracts in order as they are presented