Basic Maxillofacial Principles and Techniques

August 9-11, 2013
University of Pennsylvania
Philadelphia, PA

www.maxface.org
A WORD FROM THE CHAIRMEN
Thank you for your interest in the ASMS Basic Maxillofacial Principles and Techniques Course. We are proud to be part of this dynamic educational program jointly sponsored by the American Society of Maxillofacial Surgeons, and the Maxillofacial Surgeons Foundation.

We hope you enjoy the course.
Joseph Losee, MD; Donald Mackay, MD, DDS; Warren Schubert, MD; Jesse Taylor MD
Local Host: Joseph Serletti, MD

PROGRAM
The Basic Course will be held at the University of Pennsylvania, School of Medicine in Philadelphia, Pennsylvania. Lectures will be held at the Biomedical Research Building 2/3 (BRBII/III), Auditorium- Ground floor level - 421 Curie Boulevard. Lab sessions will take place in Edward J. Stemmler Hall, First Floor, Labs - 106A, 106B and 106C - 3450 Hamilton Walk.

Please dress casually and comfortably as your clothing will be exposed to the powders and chemicals used during the laboratory sessions each day.

PROGRAM FACULTY

Stephen Baker, MD, DDS, FACS
Georgetown University

Chris Brooks, MD
Brooks Plastic Surgery

Amir H. Dorafshar, MBChB, FAAP
Johns Hopkins University

Gaby Doumit, MD, M.Sc, FRCSC
Cleveland Clinic

Kant Lin, MD
University of Virginia

Joseph Losee, MD, FAAP, FACS
Childrens Hospital of Pittsburgh

Donald Mackay, MD, DDS
Penn State Hershey

Pravin Patel, MD
University of Illinois & Shriners Hospital

Warren Schubert, MD
University of Minnesota

Joseph Serletti, MD
University of Pennsylvania

Derek Steinbacher, MD
Yale University

Jesse Taylor, MD
University of Pennsylvania

Andrew Wexler, MD, MA, FACS
Southern California Kaiser Permanente

INTENDED AUDIENCE
This course is appropriate for all practicing plastic surgeons, residents and other physicians interested in a greater understanding of basic maxillofacial principles and techniques.

OVERVIEW
This course is a three-day program consisting of lectures and hands-on laboratory sessions. The goal of this course is to introduce the principles of maxillofacial surgery, with a unique emphasis on the topics of dental anatomy, occlusion, dental impressions, orthodontics and prosthodontics, orthognathic surgery and maxillofacial trauma. Over half of the course is devoted to unique “hands-on laboratories” to teach plastic surgeons the basics of taking impressions and working with dental models, cephalometric analysis, osteotomies and plating techniques. All plastic surgeons should consider taking this course as part of their core curriculum in maxillofacial surgery.

LEARNING OBJECTIVES
Upon completion of this activity, participants will be able to:

- Discuss the anatomy of the head and neck area, especially as related to dental aspects of the oral cavity.
- Take impressions, construct and mount dental models and make acrylic splints.
- Implement current concepts in diagnosis and treatment of facial fractures.
- Incorporate cephalometric prediction tracings and application of orthognathic principles and techniques to diagnose and treat congenital and post-traumatic deformities in their practices
- Incorporate use of bone cutting equipment and rigid fixation in maxillofacial surgery in their practices.

For updated ASMS courses and symposia, please visit the ASMS Website:
www.maxface.org

Future ASMS Courses and Programs

2013
September 14, 2013
Global Cleft Surgery Meeting
University of California, Davis Medical Center and Shriners Hospitals for Children of Northern California
Sacramento, CA

2013
October 10-15, 2013
ASMS Pre-Conference Symposium
San Diego, CA

2014
January 24-26, 2014
ASMS Basic Course
University of California at Los Angeles
Los Angeles, CA

This course is supported by:

DePuySynthes
CMF
**Housing**

The Basic Course will be held at the University of Pennsylvania School of Medicine in Philadelphia, Pennsylvania. ASMS has secured a special group rate at the Inn at Penn of $189 per night. When booking your room, please refer to the ASMS Basic Course to secure this special rate. The cut-off date for this room rate is July 7, 2013.

**The Inn at Penn** – A Hilton Hotel
3600 Sansom Street
Philadelphia, PA, 19104
Phone: (215) 222-0200

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**Course Evaluation Forms.**

Who in their training program do the registrants?

**How did registrants find out about the course?**

- Use of dentures of splints in edentulous patients to maintain mandibular height
- Possible use of splints for pediatric mandibular fractures

**10:00 a.m. Mandible Trauma & Reconstruction**

- Surgical approaches
- Mandibular biomechanics
- Controversy of the use of mini-plates versus large plates, compression plates, lag screws (with discussion of various techniques)

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**Course Schedule**

**FRIDAY, AUGUST 9**

Biomedical Research Building 2/3 (BRBII/III), Auditorium - Ground floor level, 421 Curie Boulevard

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Location</th>
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<tbody>
<tr>
<td>8:30 a.m.</td>
<td>Registration</td>
<td>Lobby BRBII/III</td>
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<tr>
<td>9:00 a.m.</td>
<td>Welcome</td>
<td>Lobby BRBII/III</td>
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<td>Introduction of course faculty</td>
<td>Lobby BRBII/III</td>
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<td></td>
<td>Introduction to ASMS (History, membership, educational activities)</td>
<td>Lobby BRBII/III</td>
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<tr>
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<td>Course Overview</td>
<td>Lobby BRBII/III</td>
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<td>Acknowledgment of corporate sponsors</td>
<td>Lobby BRBII/III</td>
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<tr>
<td>9:15 a.m.</td>
<td>Oral &amp; Dental Anatomy</td>
<td>Lobby BRBII/III</td>
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<td>9:45 a.m.</td>
<td>Use of Dental Splints</td>
<td>Lobby BRBII/III</td>
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<td>Indications for Palatal Fractures</td>
<td>Lobby BRBII/III</td>
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<td></td>
<td>Use of Lingual Splints</td>
<td>Lobby BRBII/III</td>
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<td></td>
<td>Use of dentures of splints in edentulous patients to maintain mandibular height</td>
<td>Lobby BRBII/III</td>
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<tr>
<td>10:00 a.m.</td>
<td>Mandible Trauma &amp; Reconstruction</td>
<td>Lobby BRBII/III</td>
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<td>Surgical approaches</td>
<td>Lobby BRBII/III</td>
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<td>Mandibular biomechanics</td>
<td>Lobby BRBII/III</td>
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<td>Controversy of the use of mini-plates versus large plates, compression plates, lag screws (with discussion of various techniques)</td>
<td>Lobby BRBII/III</td>
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<td>11:30-12:30</td>
<td>Lunch</td>
<td>Lobby BRBII/III</td>
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<td>12:30 p.m.</td>
<td>Orthognathic Surgery/Orthodontics</td>
<td>Lobby BRBII/III</td>
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<td>2:30 p.m.</td>
<td>Coffee Break</td>
<td>Lobby BRBII/III</td>
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<td>2:45 p.m.</td>
<td>Cephalometric Analysis</td>
<td>Lobby BRBII/III</td>
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**LECTURE SESSIONS**

1:30 p.m. Midface Fractures Part I
- Surgical approaches

2:00 p.m. Midface Fractures Part II
- Orbital Fx’s and reconstruction (blow-out, blow-in, entrapment)
- Zygomatic Fx’s

2:30 p.m. ASMS Membership & Benefits
- Why join?
- Membership Application.
- Upcoming courses and meetings.

2:35 p.m. Midface Fractures Part III
- Nasal Fractures
- Naso-Orbital-Ethmoid (N.O.E.)
- Maxillary (Le Fort I, II, III)
- Palatal fractures

3:05 p.m. Midface Fractures Part IV
- Frontal sinus fractures
- Panfacial Sequencing

3:35 p.m. Discussion of fracture plating exercises

3:45 p.m. Coffee Break

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**REFUNDS**

All requests for cancellations must be received in writing. If a written request of cancellation is received at the Society’s Administrative Office prior to July 26, 2013, the registration fee, less than a $50.00 administrative fee, will be refunded after the meeting. Refund requests received after July 26, 2013 will not be honored. Fees cannot be reduced for partial attendance. Please address all written requests to:

**Maxillofacial Surgeons Foundation**
Registration Department
500 Cummings Center, Suite 4550
Beverly, MA 01915
Phone: 978-927-8330 | Fax: 978-524-0461

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**REGISTRATION**

The meeting registration fees include course materials, admission to the session and laboratory fees. All registrants must pay the full registration fee.

Attendees may register online at www.maxface.org or by submitting the registration form with payment in U.S. funds to the ASMS/MSF Administrative Office. Registration can be submitted by facsimile, phone or mail. Please allow 10 days for the confirmation.

In compliance with the Americans with Disabilities Act, ASPS and ASMS/MSF will make every reasonable effort to accommodate your needs. For any special request, please call the ASMS/MSF Office at (978) 927-8330 before July 29, 2013.

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**Controversy of the use of mini-plates in mandibular reconstruction?**

**Mandibular (simple symphysal, para-symphysal, body, angle, ramus and condylar)**

- Defect mandibular injuries (comminuted, edentulous, segmental defect)
- Teeth in the line of fracture
- Treatment of avulsed teeth
- Options for mandibular reconstruction

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**Saturday, August 10**

Biomedical Research Building 2/3 (BRBII/III), Auditorium - Ground floor level, 421 Curie Boulevard

**7:00 a.m. Continental Breakfast**

**8:00 a.m. Laboratory I Video**

**Edward J. Stemmler Hall, First Floor, Labs - 106A, 106B and 106C, 3450 Hamilton Walk**

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**Third Exercise:**

6. A fracture model of a malunion of a mandible and the corresponding maxilla will be provided. Cut the mandible model to replicate the fracture.

7. Use the maxillary model, mandibular pieces and modeling compound to re-establish the proper pre-morbid occlusion. You may need to cut or burr the edges of the model in order to remove corners that interfere with re-establishing the proper occlusion.

8. Once the proper occlusion is established, stabilize the reduction mandible fracture with a glue gun, and then with plaster.

9. Mount the maxilla and mandible in the articulator and recheck that you have properly established the pre-morbid occlusion. It should replicate the occlusion of your typodont, from which the models were originally casted.

10. Make an acrylic splint.

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**Fourth Exercise:**

11. Clean up your mess. Remove your models from the articulator. Clean off the plaster from the articulator. Clean off your plastic mold.

12:45 - 1:30 p.m. Lunch

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**Surgical approaches**

**Orbital Fx’s and reconstruction (blow-out, blow-in, entrapment)**

**Zygomatic Fx’s**

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**Second Exercise:**

4. Using your own dental models, make an occlusal splint.

5. Using your own dental models, make a lingual and possible palatal splint, so that you are prepared for your next mandible and palatal fracture.
4:00 p.m. Laboratory Session 2
Edward J. Stemmler Hall, First Floor, Labs - 106A, 106B and 106C, 3450 Hamilton Walk

Lab Session 2, Part A:
Application of Plates & Screws to Mandible & Midface Fractures using Saw Bone Models:

Mandible fracture exercises:
1. Chapmy plate for angle fracture
2. Lag screw fixation for symphysial fracture
3. ‘Box plate’ for symphysial fractures
4. Mini-plate for subcondylar fracture
5. ‘Locking screw’ of a large reconstruction plate for mandibular defect using a template
6. Introduction to trochars for screw placement

Midface fracture exercises:
7. Mini-plates for zygoma fracture
8. Mini-plates for hemi-LeFort I fracture
9. Mesh plate for orbital floor fracture

Lab Session 2, Part B:
Use of Typodont for MMF Exercises and Splint Construction:
1. Interdental & intermaxillary wiring techniques (arch bars, Ivy loops, Ernst ligature, interdental wiring, and spanning wire technique for midline fractures)
3. Le Fort I Osteotomy & plating.

Resorbable plates demonstration (‘one on one’ in the lab)

Biomedical Research Building 213 (BRBII/III), Auditorium- Ground floor level, 421 Curie Boulevard

8:00 a.m. Laboratory Session 3:
Osteotomies for Genioplasty and Orthognathic Surgery:
1. Advancement Genioplasty with plating.
3. Le Fort I Osteotomy & plating.

SUNDAY, AUGUST 11
7:00 a.m. Continental Breakfast

Edward J. Stemmler Hall, First Floor, Labs - 106A, 106B and 106C, 3450 Hamilton Walk

12:15 p.m. American Society of Maxillofacial Surgeons Registration Form
Basic Summer Course | August 9-11, 2013
University of Pennsylvania School of Medicine | Philadelphia, Pennsylvania
Early Bird Deadline: Friday, July 26, 2013

For security reasons, badges will be required for all ASMS events. Pre-registered attendees may pick up their badges at the ASMS Registration Desk in the lobby of the Biomedical Research Building beginning Friday, August 9, 2013.

Registration Form

Registration Department
500 Cummings Center, Suite 4500
Beverly, MA 01915
PHONE: 978-877-4329
FAX: 978-524-6461

For updated information on this course and to register online, please visit the ASMS Website: www.maxface.org