

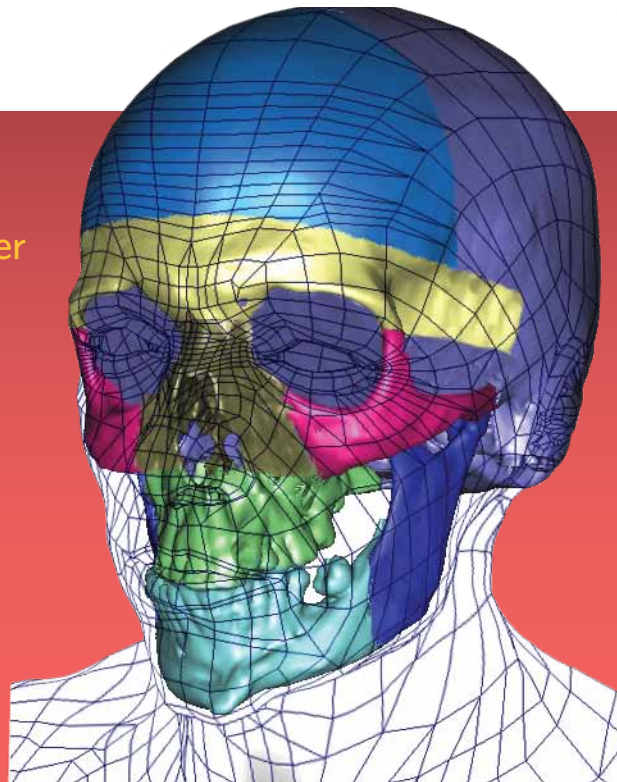


Sponsored by the NYU Post-Graduate Medical School

PREOPERATIVE PLANNING IN RECONSTRUCTIVE FACIAL SURGERY: MASTERING THE NEW TECHNOLOGY

March 15-17, 2012

NYU Langone Medical Center
Farkas Auditorium
New York, NY



COURSE DESCRIPTION

The digital revolution has provided new technologies in computer imaging that can be applied to reconstructive surgery of the face. Today's surgeon must be skilled with both traditional imaging techniques, as well as newly emerging technology. Furthermore, 3D imaging and computer software allow for optimal surgical planning in a way that was not previously possible.

Surgical planning has always been a critical component in the field of reconstructive surgery. Recent advances in computer technology have led to major breakthroughs in 3D software technology, imaging technology, and material printing. These discoveries have the potential to significantly impact the practice of reconstructive surgery, particularly in relation to reconstruction of the face.

The following course will give an overview of how advances in technology are currently being integrated into surgical practice. The course will focus on "Pre-operative Planning" using current state of the art technology. Areas to be covered include various aspects of facial reconstruction—i.e. cranium, orbitozygomatic region, maxilla, mandible, and the overlying soft tissue of the face.

The course is divided into 2 1/2 days of education. During the 1st half day session, we will begin by presenting the current state of imaging technology and biomaterials. The remainder of the course will focus on clinical applications and is divided into 1/2 day sessions according to the anatomic location: cranium, orbitozygomatic complex, maxilla/mandible, and soft tissue. At the conclusion of each day, there are interactive computer workshops with attendees to review clinical cases that relate to each section.

ACCREDITATION STATEMENT

The NYU Post-Graduate Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

CREDIT DESIGNATION STATEMENT

The NYU Post-Graduate Medical School designates this live activity for a maximum of 22.5 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

- 3/15: 8.00 AMA PRA Category 1 Credits™
- 3/16: 9.25 AMA PRA Category 1 Credits™
- 3/17: 5.25 AMA PRA Category 1 Credits™

TARGET AUDIENCE

Plastic surgeons, maxillofacial surgeons, orthodontists, otolaryngologists and military surgeons

STATEMENT OF NEED

Two and three-dimensional CT scans have replaced plain x-rays for the diagnosis and evaluation of facial deformities. Three-dimensional reconstructions have enhanced preoperative bone analysis and planning for reconstructive surgery by providing virtual simulation of deformities, fractures, or missing parts. This technology enables one to plan a reconstruction that best matches the natural facial structure. Few surgeons are familiar with this computer-based 3D imaging technology. Surgical reconstruction of congenital deformities of the cranium and/or face is complex and requires careful surgical planning. 3D imaging and computer software allow for optimal surgical planning in a way that was not previously possible. Significant facial deformities can result from trauma or cancer resection. Tissue engineering methods and minimally invasive procedures are invaluable to the recreation of the complex facial structure interspersed with blood vessels and nerves.

EDUCATIONAL OBJECTIVES

- Integrate traditional and new imaging technologies and utilize those methods to plan a reconstruction that optimizes facial balance
- Formulate an algorithm of critical steps in planning reconstructive procedures to correct congenital deformities of the cranium and face
- Evaluate various approaches to adult facial reconstruction, and apply state of the art technology to optimize operative planning and techniques

DISCLOSURE STATEMENT

The NYU Post-Graduate Medical School adheres to the ACCME Essential Areas and Policies, including the Standards for Commercial Support, regarding industry support of continuing medical education. In order to resolve any identified Conflicts of Interest, disclosure information is provided during the planning process to ensure resolution of any identified conflicts. Disclosure of faculty and commercial relationships as well as the discussion of unlabeled or unapproved use of any drug, device or procedure by the faculty will be fully noted at the meeting.

LOCATION

NYU School of Medicine
Alumni Hall, Farkas Auditorium
550 First Avenue (31st St.)
New York, NY 10016

Photo identification is required to enter the medical center.

ONLINE REGISTRATION PREFERRED

Applications will be accepted in order of their receipt. In order to reserve your seat, please register in advance as on-site registration is not guaranteed.

Visit our secure website
<http://cme.med.nyu.edu/recon>
to submit online registration.

MAILING ADDRESS & CONTACT INFORMATION

Registration Office
NYU Post-Graduate
Medical School
P.O. Box 1855
Murray Hill Station
New York, NY 10016
Phone: (212) 263-5295
Fax: (212) 263-5293

Please Note: We cannot accept telephone registration.

COURSE CONFIRMATION

Please supply your e-mail address to receive a confirmation letter. Written confirmation will not be mailed.

HOTEL ACCOMMODATIONS

Rooms are in very heavy demand in New York City; we urge you to make your reservations early. You may obtain a list of hotels located near NYU School of Medicine by visiting our website:

<http://cme.med.nyu.edu/travel>

PARKING

Parking is available on 29th and 30th Streets between First and Second Avenues, as well as at the Schwartz Health Care Center garage on First Avenue and 30th Street. For more information, please visit our website: <http://med.nyu.edu/directions-parking>

Please Note: We cannot validate parking for registrants.

NYU FACULTY

Mark P. Bernstein, MD
Assistant Professor of Radiology
NYU Langone Medical Center

Lawrence E. Brecht, DDS
Clinical Assistant Professor
Plastic Surgery (Maxillofacial Prosthetics)
NYU School of Medicine
Clinical Associate Professor (Prosthodontics)
NYU College of Dentistry

Daniel J. Ceradini, MD
Assistant Professor of Plastic Surgery
Director of Composite Tissue
Allotransplantation Program
NYU School of Medicine

Sydney Coleman, MD
Clinical Assistant Professor of Plastic Surgery
NYU School of Medicine

Court B. Cutting, MD
Professor of Plastic Surgery
NYU School of Medicine

Barry H. Grayson, DDS
Associate Professor of Plastic Surgery
(Orthodontics)
NYU School of Medicine

David Harter, MD
Assistant Professor of Neurosurgery
NYU School of Medicine

David L. Hirsch, DDS, MD
Clinical Assistant Professor of Plastic Surgery
NYU School of Medicine

Jordan M.S. Jacobs, MD
Clinical Instructor of Plastic Surgery
NYU School of Medicine

Glenn Jelks, MD
Associate Professor of Plastic Surgery
NYU School of Medicine

Jamie P. Levine, MD
Associate Professor of Plastic Surgery
NYU School of Medicine

Richard D. Lisman, MD
Clinical Professor of Ophthalmology
Director of Ophthalmic Plastic
Surgery Services
NYU School of Medicine

Joseph G. McCarthy, MD
Lawrence D. Bell Professor of Plastic Surgery
Chair, Department of Plastic Surgery
NYU School of Medicine

Aaron Oliker, PhD
Research Assistant Professor
of Educational Informatics
NYU School of Medicine

John L. Ricci, PhD
Associate Professor, Department of
Biomaterials and Biomimetics
NYU College of Dentistry

Scott M. Rickert, MD
Assistant Professor of Otolaryngology
NYU School of Medicine

Pierre B. Saadeh, MD
Assistant Professor of Plastic Surgery
NYU School of Medicine

Pradip R. Shetye, DDS, MDS
Assistant Professor of Plastic Surgery
(Craniofacial Orthodontics)
NYU School of Medicine

David A. Staffenberg, MD, DSci (Hon)
Clinical Professor of Plastic Surgery
NYU School of Medicine

Charles H. Thorne, MD
Associate Professor of Plastic Surgery
NYU School of Medicine

GUEST FACULTY

James P. Bradley, MD
Sarnat Professor of Plastic Surgery
University of California, Los Angeles

Jaime Gateno, DDS, MD
Professor of Clinical Surgery
Chairman Oral and
Maxillofacial Surgery Department
The Methodist Hospital
Houston, TX

Niels-Claudius Gellrich, MD, DDS, PhD
Professor, Medical School Hannover
Hannover, Lower Saxony, Germany

Col. Robert G. Hale, DDS
Lecturer, UCLA School of Dentistry
Commander, US Army Institute of
Surgical Research, San Antonio, TX

Beat Hammer, DDS, MD
Professor
Cranio Faciales Centrum Hirslanden AG
Aarau, Aargau

Pravin K. Patel, MD
Professor of Surgery
Children's Memorial Hospital, Chicago, IL

Bohdan Pomahac, MD
Director of Plastic Surgery Transplantation
Harvard Medical School
Boston, MA

Eduardo D. Rodriguez, MD, DDS
Associate Professor of Surgery
University of Maryland/Johns Hopkins
Baltimore, MD

Alexander Schramm, MD, DDS
Professor & Chair
University of Ulm, Military Hospital Ulm
Ulm, Germany

Oren M. Tepper, MD
Assistant Professor of Surgery (Plastic)
Montefiore Medical Center
New York, NY



PROGRAM SCHEDULE

THURSDAY, MARCH 15, 2012

7:15am Registration and Continental Breakfast

SESSION I: CONCEPTS, STATE-OF-THE-ART TOOLS

8:00 Introduction
Joseph G. McCarthy, MD

8:15 Virtual Surgical Atlas
Aaron Olikier, PhD

State-of-the-Art: Clinical Armamentarium

8:30 Clinical Technology & Constructing the Virtual Patient
Barry H. Grayson, DDS & Pradip R. Shetye, DDS, MDS

9:10 CAD-CAM Modeling
Niels-Claudius Gellrich, MD, DDS, PhD

9:30 Navigational Systems
Alexander Schramm, MD, DDS

10:00 Maxillofacial Prosthetics
Lawrence E. Brecht, DDS

10:15 Biomaterials & 3D Printing
John L. Ricci, PhD

10:30 Coffee Break

11:00 Planning Sequence (Overview Orthognathic)
Jaime Gateno, DDS, MD

11:20 Planning Sequence (Overview Craniofacial)
Pravin K. Patel, MD

11:40 Planning Sequence (Overview Head & Neck Reconstructive)
David L. Hirsch, DDS, MD

12:00pm Panel Discussion/Q & A

12:30 Lunch

SESSION II: CRANIUM (Imaging/Planning/Execution)

1:30 Cranial Vault Remodeling/Monobloc/Bipartition
James P. Bradley, MD

2:00 Lefort III: Traditional vs. Distraction
Joseph G. McCarthy, MD

2:30 Use of Neurosurgical Navigational Systems
David Harter, MD

3:00 Craniopagus Separation
David A. Staffenberg, MD, DSci (Hon)

3:30 Panel Discussion / Q & A

4:00 WORKSHOPS
I. Orbit/Navigation
II. Two Jaw Orthognathic
III. Head and Neck Reconstruction

6:00 Adjourn

FRIDAY, MARCH 16, 2012

7:30am Continental Breakfast

SESSION III: MAXILLA & MANDIBLE (Imaging/Planning/Execution)

8:00 Mandible/Maxilla (Post-Traumatic)
David L. Hirsch, DDS, MD

8:20 Mandible/Maxilla (Post-Ablative)
David L. Hirsch, DDS, MD and Jamie P. Levine, MD

8:50 Microvascular Composite Free Flaps
Eduardo D. Rodriguez, MD, DDS

9:20 CTA of Face: Planning Sequence
Daniel J. Ceradini, MD

9:30 CTA of Face: Planning Sequence & Clinical Experience
Bohdan Pomahac, MD

10:00 Panel Discussion/Q & A

10:30 Coffee Break

11:00 Maxillofacial Reconstruction: Planning Sequence
Niels-Claudius Gellrich, MD, DDS, PhD

11:30 Lefort I: Traditional and Distraction
James P. Bradley, MD

11:50 Two Jaw Surgery: Planning Sequence
Jaime Gateno, DDS, MD

12:20pm Facial Asymmetry: Planning Sequence
Barry H. Grayson, DDS, Joseph G. McCarthy, MD
and Pradip R. Shetye, DDS, MDS

12:40 Mandible Distraction
Joseph G. McCarthy, MD

1:00 Evaluation of the Airway
Scott M. Rickert, MD

1:15 Panel Discussion/Q & A

1:30 Lunch

SESSION IV: ORBITO-ZYGOMATIC COMPLEX (Imaging/Planning/Execution)

2:30 Epidemiology of Wartime Injuries
Robert G. Hale, DDS

2:50 MDCT of Maxillofacial Trauma
Mark P. Bernstein, MD

3:15 Orbital Shape Analysis
Beat Hammer, DDS, MD

3:35 Orbital Volumetric Analysis
Niels-Claudius Gellrich, MD, DDS, PhD

3:55 Computer Assisted Orbital Reconstruction
Alexander Schramm, MD, DDS

4:20 Panel Discussion/Q & A

5:00 WORKSHOPS:
I. Orbit/Navigation
II. Two Jaw Orthognathic
III. Head and Neck Reconstruction

7:00 Adjourn

SATURDAY, MARCH 17, 2012

7:30 Continental Breakfast

SESSION V: SOFT TISSUE ENVELOPE (Imaging/Planning/Execution)

8:00 Analysis and Planning: Lip & Nose
Court B. Cutting, MD

8:20 Fat Grafting
Sydney Coleman, MD

8:45 Craniofacial Microvascular Free Flaps
Pierre B. Saadeh, MD

9:15 Ear Reconstruction
Charles H. Thorne, MD

9:35 Osseointegrated Implants: Oral and Extraoral
Lawrence E. Brecht, DDS

9:50 Canthopexy
Glenn Jelks, MD

10:05 Lacrimal System
Richard D. Lisman, MD

10:15 Panel Discussion / Q & A

10:40 Coffee Break

11:10 PANEL: Composite Tissue Allotransplantation and the
Future of Craniofacial Reconstruction
Registrants Submitted Cases - Discussion

12:00 Workshops
I. Orbit/Navigation
II. Two Jaw Orthognathic
III. Head and Neck Reconstruction

2:00 Adjourn

REGISTRATION FORM

Preoperative Planning in Reconstructive Facial Surgery: Mastering the New Technology #042

March 15-17, 2012 • Register online at <http://cme.med.nyu.edu/recon>

After 12pm on March 13, 2012 only on-site registration is available provided the course has not reached capacity.
On-Site Registrants will incur an additional \$20 charge and will receive an email receipt in 1-2 weeks.

PLEASE PRINT INFORMATION CLEARLY IN BLOCK LETTERS AND NUMBERS

Name _____
FIRST MIDDLE LAST

Address _____

City _____ State _____ Zip _____

Degree _____ Day Phone () _____ Fax () _____

E-mail _____ Specialty _____
(REQUIRED FOR CME CREDIT)

Course Confirmation: Please supply your e-mail address to receive a confirmation letter. Written confirmation will not be mailed. Make sure your e-mail address is clearly written.

COURSE FEES: Physicians: \$850 Physicians in Training: \$350

WORKSHOPS (Please pick one workshop per session)

Thursday, 3/15 • 4:00pm

- Orbit/Navigation
 Two Jaw Orthognathic
 Head & Neck Reconstruction

Friday, 3/16 • 5:00pm

- Orbit/Navigation
 Two Jaw Orthognathic
 Head & Neck Reconstruction

Saturday, 3/17 • 12:00pm

- Orbit/Navigation
 Two Jaw Orthognathic
 Head & Neck Reconstruction

Refund Policy: An administrative charge of **30% of your tuition payment** will be assessed for cancellations prior to **March 1, 2012**. Cancellations must be in writing and postmarked no later than the above date. Faxes and emails are not accepted. Cancellations will not be accepted after the above date.

Course Cancellation Policy: In the unusual circumstance that this course is cancelled, two weeks notice will be given and tuition will be refunded in full. The NYU Post-Graduate Medical School is not responsible for any airfare, hotel or other costs incurred.

METHODS OF PAYMENT

Cash and phone registration are not accepted. If faxing, do not mail or refax, this will only result in a duplicate charge to your account.

Check in U.S. Dollars only \$ _____

Credit Card Payment (see to the right)

International Postal Money Order

Foreign registrants, including those from Canada, must pay by International Postal Money Order or credit card.
\$ _____

Make check payable to:

NYU Post-Graduate Medical School

Send payment to:

Registration Department
NYU Post-Graduate Medical School
P.O. Box 1855, Murray Hill Station
New York, NY 10016

Special Needs or Requests:

Credit Card Payments may be faxed to (212) 263-5293

Bill to: Visa MasterCard American Express

CREDIT CARD #:

CARD MEMBER'S NAME (PLEASE PRINT):

AMOUNT TO BE CHARGED: \$ _____

EXPIRATION DATE

CVV CODE (last 3 digits on back)

SIGNATURE



Post Graduate Medical School
545 First Avenue, New York, NY 10016

Non-Profit Org.
US Postage
PAID
New York, NY
Permit # 8048

**PREOPERATIVE PLANNING IN
RECONSTRUCTIVE FACIAL SURGERY:**
MASTERING THE NEW TECHNOLOGY

March 15-17, 2012
NYU Langone Medical Center
New York, NY

REGISTER ONLINE AT: [HTTP://CME.MED.NYU.EDU/RECON](http://CME.MED.NYU.EDU/RECON)