A Mayo Clinic Update

Trauma of the Upper Extremity:
Repair, Reconstruction, and Salvage

April 22-24, 2004

The Fairmont Scottsdale Princess
Scottsdale, Arizona

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A Mayo Clinic Update

Trauma of the Upper Extremity:
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Course Directors
Robert H. Cofield, M.D.
William P. Cooney III, M.D.
Bernard F. Morrey, M.D.
Course Description
This three-day course will devote one day to the shoulder, a second day to the elbow and a third to the wrist. The shoulder day will focus on the use of state-of-the-art diagnostic techniques, nuances in patient selection as they affect results, treatment algorithms for difficult traumatic and degenerative lesions and discussion of contemporary issues. The elbow day will concentrate on discussion of current concepts referable to both osseous and soft tissue trauma about the elbow. Presentations will be brief and discussions expanded to encourage attendee participation featuring video demonstration of surgical technique. The wrist day will present modern treatment concepts for a wide variety of fractures, ligament injuries, and dislocations that involve the wrist and forearm. Case presentations and open panel discussions will address areas of controversy and debate.

Course Learning Objectives
Upon completion of this conference, participants should be able to:
- Diagnose accurately injuries to the shoulder.
- Identify critical elements in decision-making for treatment of the shoulder.
- Manage post-treatment patient care of the shoulder, including rehabilitation.
- Describe new concepts in the management of acute traumatic conditions of the elbow, particularly fractures and dislocations.
- Discuss the expected outcome and prognosis for various conditions in the context of newer treatment options for the elbow.
- Apply emerging techniques for recognizing and managing complications of the elbow.
- Diagnose common and complex fractures and dislocations of the wrist and forearm by combining clinical assessment and imaging.
- Apply minimally invasive surgery techniques as appropriate in the treatment of fractures and dislocations of the wrist and distal forearm.
- Recognize common complications of the treatment of fractures of the wrist and forearm.

Attendance at this Mayo course does not indicate nor guarantee competence or proficiency in the performance of any procedures that may be discussed or taught in this course.

Intended Audience
This is an advanced course for orthopedic surgeons managing trauma of the upper extremity.

Date and Location
Trauma of the Upper Extremity: Repair, Reconstruction and Salvage will be held April 22 through April 24, 2004 at The Fairmont Scottsdale Princess, Scottsdale, Arizona.

Situated on 450 acres north of Scottsdale, a stylish city of adobe and panache, The Fairmont Scottsdale Princess offers a resort experience unequalled, anywhere. The resort is located 25 minutes from Phoenix Sky Harbor International Airport and is also conveniently located to many of the area’s attractions. Complete information on The Fairmont Scottsdale Princess is at the Fairmont web site: www.fairmont.com.

In the Native American culture, south stands as a time of innocence, learning, and growth. In contrast, the west with the approach of the sunset recalls wisdom of maturity. Where these two directions meet is Scottsdale, a new city with an old soul. This contemporary center is built on three, rich cultures: Native American, Spanish, and western pioneer. Each society left its imprint. Each presence can be tasted in the foods served, experienced in the architecture built, and appreciated in the art displayed in galleries and public spaces. Explore the spirit of Scottsdale at www.scottsdalecvb.com.
Registration Form

**Trauma of the Upper Extremity:**
Repair, Reconstruction, and Salvage

**April 22-24, 2004**
The Fairmont Scottsdale Princess • Scottsdale, Arizona

Mail or FAX this completed registration form to:
Mayo School of Continuing Medical Education
200 First Street SW
Rochester, MN  55905

Telephone: 800-323-2688 or 507-284-2509
FAX: 507-284-0532
E-Mail: cme@mayo.edu
Website: www.mayo.edu

(Please print or type all information. You may duplicate this form for multiple registrations.)

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**Reception Pre-Registration and Fees:**

[ ] Yes, I will attend (Complimentary)

[ ] Yes, I will attend with one guest (Complimentary)

_____ # of additional tickets @ $60 per adult $____________

[ ] No, I will not attend

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**3-Day Registration Fee:**

Physicians: $675 $ _____________

Residents, Physician Assistants and Nurse Practitioners: $350 $ _____________

**2-Day Registration Fee:**

Physicians: $450 $ _____________

Residents, Physician Assistants and Nurse Practitioners: $225 $ _____________

□ I am attending Thursday/Friday.
□ I am attending Friday/Saturday.

**Total Payment Enclosed:** (Registration plus additional Reception) $ _____________

[ ] Check (payable to Mayo Foundation)

[ ] Credit Card: □ Visa □ MasterCard □ Discover

Card Number

Expiry date MO/YR

Signature

Date
10:15 a.m.  Case Presentation: Acute Scaphoid Fracture—Role of Mini-Incision, Volar Approach  
David G. Dennison, M.D.

10:25 a.m.  Case Presentation: Acute Scaphoid Fracture, Proximal Pole, Mini-Incision, Dorsal Approach  
Scott F.M. Duncan, M.D.

10:35 a.m.  Case Presentation: Scaphoid Nonunion—Conventional versus Vascular Grafting  
Is There a Difference in Indication, Fixation, and Outcome?  
Alexander Y. Shin, M.D.

10:45 a.m.  Case Presentation: Scapholunate Instability—Role of Arthroscopy, Capsular Shrinkage, and/or Mini-Incision Treatment  
Steven L. Moran, M.D.

10:55 a.m.  Case Presentation: Scapholunate Instability—Subacute Presentation  
Repair Versus Reconstruction Versus Stabilizing Screw Fixation: Controversies in Treatment  
Scott P. Steinmann, M.D.

11:00 a.m.  Case Presentation: Scapholunate Instability—Chronic Capsulodesis Versus Tenodesis: A Battle of Strength, Stability, and Long-Term Success  
Steven L. Moran, M.D.

11:15 a.m.  Case Presentation: SLAC Wrist Fusion Versus Proximal Row Carpectomy AND, The Winner Is?  
Peter M. Murray, M.D.

11:25 a.m.  Discussion and Questions

11:40 a.m.  Case Presentation: Ulnar Wrist Pain  
Differential Diagnosis, Imaging  
Kimberly K. Amrami, M.D.

11:50 a.m.  Case Presentation: Acute and Subacute Lunotriquetral Ligament Tears  
Role of Arthroscopy and the Case for Surgical Repair  
William P. Cooney III, M.D.

12:00 a.m.  Case Presentation: Chronic Lunotriquetral Ligament Tears  
Fusion Versus Ligament Reconstruction  
Alexander Y. Shin, M.D.

12:10 p.m.  Case Presentation: Perilunate Instability of the Wrist Reduction with Pin Fixation Versus Open Ligament Repair  
Scott F.M. Duncan, M.D.

12:20 p.m.  Case Presentation: Post-Traumatic Arthritis of the Wrist Midcarpal Fusion, Treatment Options  
Stephen D. Trigg, M.D.

12:30 p.m.  Discussion and Questions

12:45 p.m.  Closure and Adjournment
Continuing Education Credit

Mayo Foundation is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians.

Mayo Foundation designates this educational activity for a maximum of 16.25 hours category 1 credit towards the AMA Physician’s Recognition Award. Each physician should claim only those hours of credit that he/she actually spent in the educational activity.

The American Medical Association has determined that non-US licensed physicians who participate in this CME activity are eligible for AMA PRA category 1 credit.

Overview of the Schedule

Registration ..................... Thursday, April 22, 2004, 6:30 a.m.
Course Opening ..................... Thursday, April 22, 2004, 7:00 a.m.
Welcome Reception ..................... Thursday, April 22, 2004, 6:30 p.m.

(Schedule subject to change)

General teaching sessions will be conducted daily from approximately 7:00 a.m. to 12:30 p.m. The course will end at approximately Noon on Saturday, April 24, 2004. Continental breakfast will be served each morning one hour before the beginning of the program.

Note: The course is designed to ensure that attendees have an opportunity to explore the Valley of the Sun during the afternoons—or just relax.

Registration

To register, complete the attached registration form and return by mail or fax. The $675 registration fee includes tuition, comprehensive course syllabus, continental breakfasts, break refreshments, and reception tickets for each attendee and one guest. Additional reception tickets can be purchased for $60.

Early registration is strongly advised. A letter of confirmation will be sent upon receipt of payment and completed registration form. Please present the confirmation letter when checking in at the meeting registration desk. Until written confirmation is received, please do not consider yourself registered for this course.

Cancellation Policy

Your registration fee, less a $75 administrative fee, will be refunded when written notification is received by the Mayo School of Continuing Medical Education before April 8, 2004. No refunds will be made after April 8, 2004.

Travel

Airfare is the sole responsibility of the individual registrant. AAA Travel has negotiated multiple airline contracts to provide attendees and their guests with the lowest available airfares. Reduced airfares into Sky Harbor International Airport are available by calling AAA Travel at 800-648-6718 or 507-289-2917, by faxing 507-289-4005, or by e-mailing jaime.lund@mn-ia.aaa.com. Please reference the Mayo Clinic Orthopedic Surgery course when making travel arrangements. Reduced airfares are subject to availability. To take maximum advantage of discounted rates, it is strongly recommended that flights be booked 60 or more days prior to actual travel.

Special car rental rates are available through Budget Car Rental at Sky Harbor International Airport and The Fairmont Scottsdale Princess Concierge Desk. For
reservations, call Budget at 800-772-3773 and reference the Mayo Clinic Orthopedic Surgery course, Budget Convention Discount #U068418. Rates include unlimited mileage, except in the car classes of Luxury, Minivan, or SUV. At the time of rental, Budget will provide each attendee with a local area map and specific directions to The Fairmont Scottsdale Princess. Reservations can also be made on line at www.Budget.com.

Ground transportation from Phoenix Sky Harbor International Airport is available via taxis, limousines, and vans. Transportation information will be included with the confirmation letter. **There is no courtesy shuttle service to The Fairmont Scottsdale Princess.**

Transtyle, a town car company, charges approximately $45 flat for transportation to the resort, based upon one to four passengers. Phone 800-410-5479 or 480-948-6131 for reservations.

SuperShuttle, a time-scheduled van company, operates 24 hours a day and offers door to door service. Vans depart from the airport every 15 minutes from 9 a.m. to 9 p.m., with lesser frequencies from 9 p.m. to 9 a.m. Call 602-244-9000 for reservations.

**Lodging Accommodations**

**Hotel reservations are the sole responsibility of the individual registrant.** The Fairmont Scottsdale Princess is extending a special group rate of $250, plus taxes, per night, single or double occupancy, for a standard room. There is an additional $10.00 per person charge to cover round trip porterage and a $2.00 per person daily charge for housekeeping services. Group rates are in effect three days prior and three days after the program dates, based on availability.

A two nights’ deposit in the form of a cash prepayment or credit card number is required at the time reservation is made, or no later than 30 days prior to arrival, to guarantee each guest room. This deposit will be applied to the first and last night of each individual reserved length of stay. All deposits are nonrefundable within 30 days of arrival.

Rooms are available on a first-come basis, based upon the group block. Other room types may be available. Please contact The Fairmont Scottsdale Princess Reservations Department for rates and availability. The Fairmont Scottsdale Princess is unable to guarantee requests for bed types and area locations. Every effort will be made, however, to honor a request.

All guest rooms have well-defined living and work areas, terraces, wet bars, refrigerators, and enormous luxury bathrooms. Blending high style and comfort, guest rooms feature the subtle undertone, earthy accents and patterns of the Southwest. **Reservations must be made directly with The Fairmont Scottsdale Princess before March 21, 2004.** A reservation form will be sent with the course confirmation letter. Telephone reservations may also be made by calling The Fairmont Scottsdale Princess reservations department directly at 800-344-4758 or by calling the Fairmont Global Reservations Center at 800-441-1414. Callers must identify themselves as being with the Mayo Clinic Orthopedic Surgery course to qualify for the special group rate.

**Child Care Arrangements**

**Child care arrangements are the sole responsibility of the parent(s) or guardian(s) and must be made directly with The Fairmont Scottsdale Princess.** Half and full day programs may be purchased. Please contact the resort concierge desk directly at 480-585-4848, extension 7244, for additional information and a schedule of weekly resort activities, including the Fairmont lagoon catch and release fishing.
Program Schedule

7:00 a.m. Welcome and Introduction
William P. Cooney III, M.D.

DISTAL RADIUS FRACTURES

7:10 a.m. Case Presentation: Closed Treatment and Role of Limited Pin Fixation
Anthony A. Smith, M.D.

7:20 a.m. Case Presentation: Closed Treatment of External Fixation
Role of Mini Incision Bone Grafting
David G. Dennison, M.D.

7:30 a.m. Case Presentation: Closed Treatment and Arthroscopic Reduction
William P. Cooney III, M.D.

7:40 a.m. Case Presentation: Open Treatment with Use of Volar Plate Fixation
Scott P. Steinmann, M.D.

7:50 a.m. Case Presentation: Open Treatment and Use of Dorsal Plate Fixation
Treatment Alternatives
Peter M. Murray, M.D.

8:00 a.m. Analysis of the Best Forms of Plate Fixation—Anatomy and Biomechanics
William P. Cooney III, M.D.

8:10 a.m. Role of Adjuvant Treatment of Distal Radius Fractures—Allograft, Bone Apatites, and Bone Replacement Substitutes
Peter C. Amadio, M.D.

8:20 a.m. Discussion and Questions

8:40 a.m. Fractures of the Distal Ulna and DRUJ Injuries—An Overview
Alexander Y. Shin, M.D.

8:50 a.m. Case Presentation: Unstable Distal Ulna with Ulna Styloid Fractures
Scott F.M. Duncan, M.D.

9:00 a.m. Case Presentation: Acute Tears of the Triangular Fibrocartilage
Kevin J. Renfree, M.D.

9:10 a.m. Case Presentation: Chronic Instability of DRUJ Due to TFC Tears
Reconstructive Surgery Options
Stephen D. Trigg, M.D.

9:20 a.m. Case Presentation: Arthritis of the DRUJ—Current Preferred Treatment Options
Peter M. Murray, M.D.

9:30 a.m. Case Presentation: Complications of Treatment of the DRUJ by Resection of the Distal Ulna
Analysis of Instability, Prevention, and Treatment
Peter C. Amadio, M.D.

9:40 a.m. Case Presentation: Late Forearm Instability and Role of Prosthetic Replacement
William P. Cooney III, M.D.

10:00 a.m. Discussion and Questions
Program Schedule

9:25 a.m.  HOW TO Video: Repair of the Lateral Collateral Ligament
9:30 a.m.  Discussion
9:50 a.m.  Refreshment Break
10:10 a.m. Avoiding this Complication and Managing It When it Occurs by Open Techniques
Bernard F. Morrey, M.D.
10:25 a.m.  HOW TO Video
10:30 a.m.  The Role of Arthroscopy for Post-Traumatic Complications
Managing the Stiff Elbow
Post-Traumatic Arthrosis and Impingement
Shawn W. O’Driscoll, M.D., Ph.D.
10:50 a.m.  HOW TO Video
10:55 a.m.  Discussion
11:25 a.m.  Managing Nerve Problems About the Elbow at the Time of Trauma and for Post-Traumatic Sequelae
William P. Cooney III, M.D. and Scott P. Steinmann, M.D.
11:40 a.m.  Established Arthrosis: What Do We Do Now?
Is Fusion Still an Option?  Interposition Arthroplasty
Joaquin Sanchez-Sotelo, M.D., Ph.D.
11:55 a.m.  Discussion
12:15 p.m.  The Role of Total Elbow Arthroplasty in the Spectrum of Elbow Trauma
Bernard F. Morrey, M.D.
12:35 p.m.  HOW TO Video
12:45 p.m.  Discussion
1:00 p.m.  Adjournment

Saturday, April 24, 2004

THE WRIST

Mayo Clinic at Rochester Course Director
William P. Cooney, III, M.D.

Mayo Clinic at Rochester Faculty
Peter C. Amadio, M.D.  David G. Dennison, M.D.
Kimberly K. Amrami, M.D.  Steven L. Moran, M.D.
Allen T. Bishop, M.D.  Alexander Y. Shin, M.D.
William P. Cooney III, M.D.  Scott P. Steinmann, M.D.

Mayo Clinic at Scottsdale Faculty
Scott F.M. Duncan, M.D.  Anthony A. Smith, M.D.
Kevin J. Renfree, M.D.

Mayo Clinic at Jacksonville Faculty
Peter M. Murray, M.D.  Stephen D. Trigg, M.D.
Social Program

Welcome Reception – Thursday evening, April 22, 2004 – 6:30 to 7:30 p.m.
Attendees and their guest(s) are cordially invited to join the course faculty for the Welcome Reception on Thursday evening, April 22, 2004. This casual reception welcomes you to Scottsdale, officially opens the course, and offers you the perfect opportunity to make connections with existing and new colleagues. Pre-registration is requested.

Recreation/Leisure Activities

The Fairmont Scottsdale Princess offers many activities for the enjoyment of its sunny days, including horse-back riding like you’ve never imagined at several ranches located just 15 minutes from the resort. At the resort, you will discover five outdoor swimming pools and the newest feature—the exciting Sonoran Splash, a water recreation area with two water slides that are the longest resort water slides in Arizona. A full and complete range of activities is located at the resort, including seven tennis courts. Good workouts at the world-class Willow Stream Spa and Health Club provide the perfect excuse to indulge at some of the best restaurants in Arizona. The resort has a breathtaking list of extraordinary restaurants offering a myriad of award-winning dining experiences to suit any taste.

Avid golfers will enjoy a PGA Tour golf experience at The Tournament Players Club (TPC) of Scottsdale, Stadium Course. These courses are located adjacent to The Fairmont Scottsdale Princess. Designed by the team of Tom Weiskopf and Jay Morrish, each course has its own unique qualities and offers guests a choice of challenge. The Stadium Course is the home of the annual Professional Golf Association Tours Phoenix Open. Next to the TPC Stadium Course is the TPC Desert Course. Although regarded as a more forgiving layout, this course features dazzling scenery as well as some difficult holes. More information, tee times, and green fees will be mailed with the confirmation letter.

A number of noteworthy attractions are in the Scottsdale/Phoenix area. Taliesin West, the Heard Museum, Old Town Scottsdale (world renowned center for the arts), Phoenix Zoo, as well as major sporting events, shopping opportunities, and desert tours top the “must see/must do” list. Please phone the resort concierge directly at 480-585-4848, extension 7244, for assistance with information and reservations.

The popular visitor enclave of Scottsdale, Arizona is home to some of the most stunning scenery in the American Southwest. The rugged terrain of the McDowell Mountains envelops the region on one side, while the stark magnificence of the Sonoran Desert stretches out on the other. With sparse, yet distinct, wildlife and vegetation, this taste of the Old West is truly a unique landscape. Sedona and the Red Rock Country are 2 hours by car. The Grand Canyon is 4.5 hours by car, 2 hours by plane from Scottsdale.

Faculty Disclosure

As a provider accredited by ACCME, Mayo Foundation must ensure balance, independence, objectivity and scientific rigor in its educational activities. All faculty participating in a Mayo Foundation activity are required to disclose commitments to and/or relationships with pharmaceutical companies, biomedical device manufacturers or distributors, or others whose products or services may be considered to be related to the subject matter of the educational activity. Faculty will also disclose any off-label and/or investigational use of pharmaceuticals or instruments discussed in their presentation. Disclosure of these commitments and/or relationships will be published in course materials so those participants in the activity may formulate their own judgments regarding the presentation.
Thursday, April 22, 2004

THE SHOULDER

Mayo Clinic at Rochester Course Director
Robert H. Cofield, M.D.

Mayo Clinic at Rochester Faculty
Robert H. Cofield, M.D.                      John W. Sperling, M.D.
Diane L. Dahm, M.D.                          Scott P. Steinmann, M.D.
Shawn W. O’Driscoll, M.D., Ph.D.             Michael E. Torchia, M.D.
Jay Smith, M.D.

Mayo Clinic at Scottsdale Faculty
Scott F. M. Duncan, M.D.                     Patrick T. Liu, M.D.
Steven J. Hattrup, M.D.

7:30 a.m. Welcome and Opening Remarks
Robert H. Cofield, M.D.

7:40 a.m. Update on Imaging for the Shoulder
Patrick T. Liu, M.D.

8:00 a.m. Clavicle Fractures: Trends in Internal Fixation
Scott F. M. Duncan, M.D.

8:15 a.m. Proximal Humeral Fractures: Modern Internal Fixation Methods
Michael E. Torchia, M.D.

9:05 a.m. Nerve Injuries
Scott P. Steinmann, M.D.

9:20 a.m. Acromioclavicular Dislocations: Trends in Internal Fixation
Scott F. M. Duncan, M.D.

9:30 a.m. Rehabilitating Acute Injuries
Jay Smith, M.D.

9:45 a.m. Panel Discussion and Questions and Answers

10:00 a.m. Refreshment Break

10:30 a.m. Vascular Injuries in the Athlete
Diane L. Dahm, M.D.

10:45 a.m. Outcomes of Instability Repair: Can We do Better?
Steven J. Hattrup, M.D.

11:00 a.m. Arthroscopic Instability Repair: Limitations and Techniques
Diane L. Dahm, M.D.

11:15 a.m. Arthroscopic Repair of Rotator Cuff Tears: Limitations and Techniques
Scott P. Steinmann, M.D.

11:30 a.m. Arthroplasty for the Sequelae of Trauma
John W. Sperling, M.D.

11:45 a.m. Arthroplasty for Dislocation Arthropathy
Robert H. Cofield, M.D.
12:00 a.m. Osteonecrosis: Prognosis and Management Options  
*Steven J. Hattrup, M.D.*

12:15 p.m. Complications of Arthroscopic Surgery and Their Management  
*Shawn W. O’Driscoll, M.D., Ph.D.*

12:30 p.m. Releases for Stiffness  
*Robert H. Cofield, M.D.*

12:45 p.m. Panel Discussion and Questions and Answers

1:15 p.m. Adjournment

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**Friday, April 23, 2004**

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**THE ELBOW**

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**Mayo Clinic at Rochester Course Director**  
*Bernard F. Morrey, M.D.*

**Mayo Clinic at Rochester Course Faculty**  
*William P. Cooney III, M.D.*  *Joaquin Sanchez-Sotelo, M.D., Ph.D.*  
*Bernard F. Morrey, M.D.*  *Scott P. Steinmann, M.D.*  
*Shawn W. O’Driscoll, M.D., Ph.D.*

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6:55 a.m. Welcome, Overview and Goals  
*Bernard F. Morrey, M.D.*

7:00 a.m. Expanded Options for Exposure of the Elbow  
How to Manage the Triceps  
*Joaquin Sanchez-Sotelo, M.D., Ph.D.*

7:15 a.m. HOW TO Video

7:25 a.m. Discussion

7:35 a.m. New Concepts, Techniques, and Implants to Manage Condylar Fractures  
*Shawn W. O’Driscoll, M.D., Ph.D.*

7:50 a.m. HOW TO Video

8:00 a.m. Discussion

8:10 a.m. Fractures of the Olecranon: How They Should Be Treated Today  
*Scott P. Steinmann, M.D.*

8:25 a.m. HOW TO Video

8:30 a.m. Fractures of the Radial Head: Current Concepts for Fixation  
*William P. Cooney III, M.D.*

8:45 a.m. HOW TO Video

8:50 a.m. Fractures of the Coronoid: Their Relevance and Exposure Fixation  
*Shawn W. O’Driscoll, M.D., Ph.D.*

9:05 a.m. HOW TO Video

9:10 a.m. Simple and Complex Instability of the Elbow  
*Bernard F. Morrey, M.D.*