

*19th Annual*

# Current Issues of Magnetic Resonance Imaging in Orthopaedics and Sports Medicine



Current Issues of Magnetic Resonance Imaging  
in Orthopaedics and Sports Medicine  
August 29 – September 1, 2010



**Stoller Orthopaedic Workshop September 2 – 3, 2010**  
Held in Conference Theatre – limited to 65 attendees  
Registration information available at [www.stollerscourse.com](http://www.stollerscourse.com)

*19th Annual*  
**Current Issues of Magnetic Resonance Imaging  
in Orthopaedics and Sports Medicine**

*A National Symposium*

August 29 – September 1, 2010  
Grand Hyatt  
San Francisco, California



*We gratefully acknowledge  
the following exhibitors*



**PHILIPS**

GE Healthcare



**HITACHI**

HITACHI MEDICAL SYSTEMS AMERICA, INC.





*19th Annual*  
**Current Issues of  
Magnetic Resonance Imaging  
in Orthopaedics  
and Sports Medicine**

*A National Symposium*

**August 29 – September 1, 2010  
Grand Hyatt  
San Francisco, California  
30 Hours Category 1 CME Credit**

**Jointly Sponsored by Medical Education Resources, Inc.  
and Current Issues in MRI**

**Course Director**

David W. Stoller, M.D.

**Radiology Faculty**

Antonio Bouffard, M.D.  
Miriam A. Bredella, M.D.  
John A. Carrino, M.D., M.P.H.  
Jana M. Crain, M.D.  
Frank M. Crnkovich, M.D.  
John V. Crues III, M.D.  
Andrew L. Deutsch, M.D.  
Russell C. Fritz, M.D.  
Garry Gold, M.D.  
Chris G. Goumas, M.D.  
Jay A. Kaiser, M.D.  
William B. Morrison, M.D.  
Mini Pathria, M.D.  
Hollis G. Potter, M.D.  
Janaki Ramanathan, M.D.  
Donald L. Resnick, M.D.  
Timothy G. Sanders, M.D.  
Mark E. Schweitzer, M.D.  
Virginia Scroggins, M.D.  
Leanne L. Seeger, M.D.  
David W. Stoller, M.D.  
Frank G. Shellock, Ph.D.  
Michael B. Zlatkin, M.D.  
Adam C. Zoga, M.D.

**Orthopaedic Faculty**

Lesley J. Anderson, M.D.  
Gordon A. Brody, M.D.  
W. Dilworth Cannon, M.D.  
Richard D. Ferkel, M.D.  
Carol Frey, M.D.  
Freddie H. Fu, M.D.  
Louis Keppler, M.D.  
David M. Lichtman, M.D.  
Roger A. Mann, M.D.  
Wesley M. Nottage, M.D.  
Glenn B. Pfeffer, M.D.  
Marc R. Safran, M.D.  
Thomas G. Sampson, M.D.  
Eugene M. Wolf, M.D.

**Course Overview:** This intensive four day symposium is designed for radiologists, orthopaedic surgeons and sports medicine physicians interested in a comprehensive understanding of the current clinical indications and applications of magnetic resonance imaging in the musculoskeletal system, including the shoulder, ankle, hip, knee, wrist and elbow joints. The symposium will provide didactic lectures, joint dissections, breakout sessions, panel discussions and technical exhibits.

## FACULTY

**LESLEY J. ANDERSON, M.D.**  
Orthopaedic Surgeon  
California Pacific Medical Center  
San Francisco, California  
Assistant Clinical Professor UCSF

**ANTONIO BOUFFARD, M.D.**  
Senior Staff Radiologist  
Henry Ford Hospital Consultant Radiologist,  
James Andrews Orthopedic and Sports Medicine Center

**MIRIAM A. BREDELLA, M.D.**  
Massachusetts General Hospital  
Boston, MA  
Assistant Professor of Radiology - Harvard Medical School  
Boston, MA

**GORDON A. BRODY, M.D., CAQHS**  
Hand Surgeon SOAR  
Redwood City, San Jose, San Francisco  
Team Physician San Francisco Giants  
Team Physician Santa Clara University  
Consultant, LPGA Tour  
Consultant, San Jose Sharks  
Consultant, PGA Tour

**W. DILWORTH CANNON, M.D.**  
Professor of Clinical Orthopaedic Surgery  
UCSF Sports Medicine Center  
University of California, San Francisco, California

**JOHN A. CARRINO, M.D., M.P.H.**  
Associate Professor of Radiology and Orthopedic Surgery  
Johns Hopkins University School of Medicine Section Chief,  
Musculoskeletal Radiology Russell H. Morgan  
Department of Radiology and Radiological Science

**JANA M. CRAIN, M.D.**  
Medical Director  
National Orthopaedic  
Imaging Associates

**FRANK M. CRNKOVICH, M.D.**  
Private Practice  
Health Images at SouthPark  
Littleton, Colorado

**JOHN V. CRUES III, M.D.**  
Volunteer Clinical Professor of Radiology  
UCSD School of Medicine  
Fellowship Program Director Radnet Management,  
Los Angeles, CA

**ANDREW L. DEUTSCH, M.D.**  
Associate Clinical Professor of Radiology,  
University of California, San Diego  
President: Renaissance Imaging Medical Associates, Inc.

**RICHARD D. FERKEL, M.D.**  
Director of Sports Medicine Fellowship and Attending Surgeon,  
Southern California Orthopaedic Institute,  
Van Nuys, California; Assistant Clinical Professor of Orthopedic  
Surgery, University of California Los Angeles

**CAROL FREY, M.D.**  
Orthopaedic Surgeon, Assistant Clinical Professor  
David Geffen School of Medicine,  
University of California, Los Angeles;  
Assistant Clinical Professor, Orthopaedic Surgery UCLA  
Co-director, Sports Medicine Fellowship  
West Coast Sports Medicine Foundation  
Manhattan Beach, CA

**RUSSELL C. FRITZ, M.D.**  
Medical Director  
National Orthopaedic Imaging Associates

**FREDDIE H. FU, M.D., D.SCI (HON)**  
David Silver Professor and Chairman  
Department of Orthopaedic Surgery  
University of Pittsburgh  
Pittsburgh, PA

**GARRY GOLD, M.D.**  
Associate Professor of Radiology  
And (by courtesy) Bioengineering  
Stanford University

**CHRIS G. GOUMAS, M.D., M.P.H.**  
Palo Alto Medical Foundation,  
Chief – Department of Radiology  
Palo Alto Medical Clinic  
Palo Alto, CA

**JAY A. KAISER, M.D.**  
Medical Director  
National Orthopaedic Imaging Associates

**LOUIS KEPPLER, M.D.**  
Consultant Cleveland Indians,  
Director of the Spine and Orthopedic Institute at  
St. Vincent Charity Hospital  
Cleveland, Ohio

**DAVID M. LICHTMAN, M.D.**  
Past President, American Society for Surgery of the Hand;  
Chairman; Department of Orthopaedics, University of  
North Texas, College of Medicine Chairman, Department of  
Orthopaedics John Peter Smith Hospital, Ft. Worth, Texas  
Adjunct Professor of Orthopaedics,  
Baylor College of Medicine and Uniformed Services  
University of Health Sciences Houston, Texas  
Clinical Professor of Orthopedic Surgery, U.T.  
Southwestern Medical Center, Dallas, TX

**ROGER A. MANN, M.D.**  
Private Practice Orthopaedic Surgery  
Director Foot Fellowship Program  
Oakland, CA  
Associate Clinical Professor  
University of California School of Medicine,  
Department of Orthopaedic Surgery  
San Francisco, CA

**WILLIAM B. MORRISON, M.D.**  
Professor of Radiology  
Director, Division of Musculoskeletal  
and General Diagnostic Radiology  
Thomas Jefferson University Hospital  
Philadelphia, PA

**WESLEY M. NOTTAGE, M.D.**  
The Sports Clinic  
Orthopaedic Medical Associates, Inc.  
Clinical Professor  
University of California, Irvine

**MINI PATHRIA, M.D.**  
Professor of Radiology  
Department of Radiology  
University of California, San Diego  
San Diego, CA

**GLENN B. PFEFFER, M.D.**  
Director, Foot and Ankle Center,  
Cedars-Sinai Medical Center, Los Angeles, CA  
Assistant Clinical Professor,  
Department of Orthopaedic Surgery,  
University of California, San Francisco

**HOLLIS G. POTTER, M.D.**  
Chief, MRI Section  
Hospital for Special Surgery  
New York, New York  
Professor of Radiology  
Weill Medical College of Cornell University  
New York, New York

**JANAKI RAMANATHAN, M.D.**  
Medical Director  
National Orthopaedic Imaging Associates

**DONALD L. RESNICK, M.D.**  
Professor of Radiology  
Department of Radiology  
University of California San Diego, School of Medicine  
San Diego, CA

**MARC R. SAFRAN, M.D.**  
Associate Director, Sports Medicine  
Professor Department of Orthopaedic Surgery  
Stanford University

**THOMAS G. SAMPSON, M.D.**  
Director, Hip Arthroscopy  
Post Street Surgery Center  
Medical Director Total Joint Center,  
Saint Francis Memorial Hospital  
San Francisco, CA

**TIMOTHY G. SANDERS, M.D.**  
National Musculoskeletal Imaging  
Weston, FL

**MARK E. SCHWEITZER, M.D.**  
Professor & Chair of Radiology  
University of Ottawa  
Chief, Diagnostic Imaging  
The Ottawa Hospital

**VIRGINIA SCROGGINS, M.D.**  
Rocky Mountain Radiologists  
Denver, CO

**LEANNE L. SEEGER, M.D., F.A.C.R.**  
Professor and Chief, Musculoskeletal Imaging,  
Department of Radiology  
David Geffen School of Medicine  
University of California, Los Angeles

**FRANK G. SHELLCOK, PH. D., FACSM.**  
Institute for Magnetic Resonance Safety, Education  
and Research Adjunct Clinical Professor of Radiology  
and Medicine; University of Southern California;  
Keck School of Medicine  
Los Angeles, California

**DAVID W. STOLLER, M.D.**  
Director, National Orthopaedics Imaging Associates  
and MRI at California Pacific Medical Center,  
San Francisco, CA  
Adjunct Professor of Radiology,  
Johns Hopkins University School of Medicine,  
Baltimore, MD

**EUGENE M. WOLF, M.D.**  
Department of Orthopaedic Surgery  
Director, Shoulder Arthroscopy Fellowship  
St. Mary's Medical Center  
San Francisco, California

**MICHAEL B. ZLATKIN, M.D.**  
President, National Musculoskeletal Imaging Inc.,  
Weston, Florida  
Voluntary Professor of Radiology  
Miller School of Medicine  
University of Miami, Miami, FL

**ADAM C. ZOGA, M.D.**  
Assistant Professor of Radiology  
Director of Musculoskeletal MRI  
Thomas Jefferson University Hospital  
Philadelphia, PA

### Disclosure of Conflicts of Interest

It is the policy of Medical Education Resources (MER) to ensure balance, independence, objectivity, and scientific rigor in all of its educational activities. In accordance with this policy, MER identifies conflicts of interest with its instructors, planners, managers and other individuals who are in a position to control the content of an activity. Conflicts are resolved by MER to ensure that all scientific research referred to, reported or used in a CME activity conforms to the generally accepted standards of experimental design, data collection and analysis.

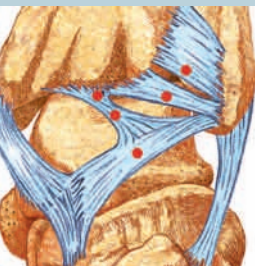


## *Sunday, August 29*

### THE SHOULDER

Moderator: David W. Stoller, M.D.

- 7:30 Welcome and Program Introduction**  
A.M. David W. Stoller, M.D.
- 7:45 Ultrasound & MR Correlation of Shoulder Pathology**  
Antonio Bouffard, M.D. and David W. Stoller, M.D.
- 8:00 MR, Surgical and Gross Anatomy of the Shoulder with Dissection and Arthroscopy**  
Eugene M. Wolf, M.D.
- 8:30 MR of the Rotator Cuff and Impingement**  
Michael B. Zlatkin, M.D.
- 9:05 MR of the Glenohumeral Joint: Glenohumeral Ligaments and Biceps Labral Complex**  
David W. Stoller, M.D.
- 9:40 MR of Shoulder Instability**  
Donald L. Resnick, M.D.
- 10:20 Break**
- 10:40 Treatment of Shoulder Impingement (What's Hot – What's Not)**  
Marc R. Safran, M.D.
- 11:15 Instability and Microinstability including SLAP, SLAC, and Posterior Peel Back**  
Wesley M. Nottage, M.D.
- 11:50 Panel Discussion: Shoulder**  
Antonio Bouffard, M.D.; Wesley M. Nottage, M.D.; Donald L. Resnick, M.D.; Marc R. Safran, M.D.; David W. Stoller, M.D.; Eugene M. Wolf, M.D.; Michael B. Zlatkin, M.D.
- 12:15 Lunch Break**  
P.M.



### 1:30 Breakout Session 1 (Choose A or B)

**A. How I Approach the Upper Extremity**  
John V. Crues, III, M.D.; William B. Morrison, M.D.; Donald L. Resnick, M.D.; Mark E. Schweitzer, M.D.

**B. Focused Lectures (space limited)**  
Moderator: Jay Kaiser, M.D.

**Post Operative Knee**  
Timothy G. Sanders, M.D.

**Musculoskeletal Joint Ultrasound Application**  
Antonio Bouffard, M.D.

**MRI of Joint Arthroplasty**  
Hollis G. Potter, M.D.

**MR of Upper Extremity Neuropathies**  
Mini Pathria, M.D.

**MR Neurography**  
John A. Carrino, M.D., M.P.H.

**Pathology of Turf Toe**  
Jana M. Crain, M.D.

**Orthopedic Traumatology**  
Frank M. Crnkovich, M.D.

### 5:30 End Breakout Session 1

## *Monday, August 30*

### THE ANKLE AND FOOT

Moderator: David W. Stoller, M.D.

- 8:00 Arthroscopy and Dissection of Ankle, Including Dissection of Great Toe with Plantar Plate Exposure**  
A.M. Richard D. Ferkel, M.D., Carol Frey, M.D.; Roger A. Mann, M.D., and Janaki Ramanathan, M.D.
- 8:40 MR of the Ankle: Ligaments and Impingement**  
Mark E. Schweitzer, M.D.
- 9:10 MR of the Ankle and Foot: Tendon, Soft Tissue and Osseous Pathology (Review of Current Literature)**  
Andrew L. Deutsch, M.D.
- 9:40 Lower Extremity Osteomyelitis including Diabetic Pedal Infection**  
William B. Morrison, M.D.

### 10:10 Break



**10:30 Sports Injuries of the Foot and Ankle**  
Glenn B. Pfeffer, M.D.

**11:00 Entrapment Neuropathies of the Lower Extremity**  
Mini Pathria, M.D.

**11:30 Panel Discussion: Ankle and Foot**  
Andrew L. Deutsch, M.D.; Richard D. Ferkel, M.D.;  
Carol Frey, M.D.; Roger A. Mann, M.D.;  
William B. Morrison, M.D.; Mini Pathria, M.D.;  
Glenn B. Pfeffer, M.D.; Janaki Ramanathan, M.D.;  
Mark E. Schweitzer, M.D.

**12:00 Lunch Break**  
P.M.

**THE HIP**  
Moderator: David W. Stoller, M.D.

**1:15 MR of the Hip: Extraarticular Pathology Including AVN, Muscle, Tendon, and Labrum**  
Adam C. Zoga, M.D.

**1:45 MRI of Femoroacetabular Impingement**  
Miriam A. Bredella, M.D.

**2:05 Surgical Evaluation and Management of Femoroacetabular Impingement**  
Thomas G. Sampson, M.D.

**2:25 Hip Dissection and Arthroscopy**  
Marc R. Safran, M.D. and  
Thomas G. Sampson, M.D.

**3:00 Break**

**3:20 MR Imaging of Sports Hernias**  
Adam C. Zoga, M.D.

**3:55 3T High Resolution Orthopedic Joint Imaging**  
Garry Gold, M.D.

**4:30 Nonarticular MRI and Relevant Bone and Soft Tissue**  
Leanne L. Seeger, M.D.

**5:05 Panel Discussion: Hip**  
Miriam A. Bredella, M.D.; Garry Gold, M.D.;  
Marc R. Safran, M.D.; Thomas G. Sampson, M.D.;  
Leanne L. Seeger, M.D.; Adam C. Zoga, M.D.

**5:30 Reception**

*Tuesday, August 31*

**THE WRIST AND ELBOW**  
Moderator: David W. Stoller, M.D.

**8:00 MR of the Wrist: Normal Anatomy, A.M. Intrinsic and Extrinsic Ligaments and TFCC**  
David W. Stoller, M.D.

**8:25 MR of the Wrist: Pathology Including Instability, Fractures and Carpal Tunnel**  
Michael B. Zlatkin, M.D.

**8:55 Wrist: Surgical Evaluation and Treatment, Including Distal Radioulnar Joint**  
David M. Lichtman, M.D.

**9:35 MR of the Elbow**  
Russell C. Fritz, M.D.

**10:05 Arthroscopic Approach to the Elbow with MR Correlation**  
Marc R. Safran, M.D.

**10:30 Break**

**10:50 MR of Finger Injuries**  
Timothy G. Sanders M.D.

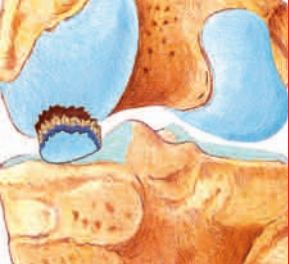
**11:15 Wrist Dissection**  
Gordon A. Brody, M.D.

**11:35 Elbow Dissection**  
Louis Keppler, M.D.

**11:55 Panel Discussion: Wrist and Elbow**  
Gordon A. Brody, M.D.; Russell C. Fritz, M.D.;  
Louis Keppler, M.D.; David M. Lichtman, M.D.;  
Marc R. Safran M.D.; Timothy G. Sanders M.D.;  
David W. Stoller, M.D.; Michael B. Zlatkin, M.D.

**12:15 Lunch Break**  
P.M.





**1:30 Breakout Session 2 (Choose C or D)**

**C. How I Approach the Lower Extremity**

John V. Crues, III, M.D.; William B. Morrison, M.D.;  
Mark E. Schweitzer, M.D.; Adam C. Zoga, M.D.

**D. "Pardon the Interruption" MR Protocol  
Panel Discussion (space limited)**

**Moderator: David W. Stoller, M.D.**

John A. Carrino, M.D., M.P.H.; Chris G. Goumas,  
M.D.; Hollis G. Potter, M.D.

**5:30 End Breakout Session 2**

*Wednesday, September 1*

**THE KNEE**

**Moderator: David W. Stoller, M.D.**

**8:00 MR of the Meniscus**

A.M. Russell C. Fritz, M.D.

**8:25 Evaluation of Meniscal Lesions**

Lesley J. Anderson, M.D.

**8:45 MR of the Cruciate and Collateral  
Ligaments, and the Postoperative Knee**

Hollis G. Potter, M.D.

**9:15 Advances in ACL Reconstruction including  
the Double Bundle Technique**

Freddie H. Fu, M.D.

**9:55 MR of Articular Cartilage**

Hollis G. Potter, M.D.

**10:20 Break**

**10:40 Knee Dissection and Arthroscopy**

W. Dilworth Cannon M.D. and Marc R. Safran, M.D.

**11:15 Running Injuries**

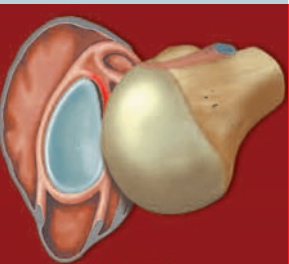
Timothy G. Sanders, M.D.

**11:50 Panel Discussion: Knee**

Lesley J. Anderson, M.D.; W. Dilworth Cannon, M.D.;  
Russell C. Fritz, M.D.; Freddie H. Fu, M.D.;  
Hollis G. Potter, M.D.; Marc R. Safran, M.D.;  
Timothy G. Sanders M.D.

**12:15 Lunch Break**

P.M.



**CURRENT TOPICS & IMAGE INTERPRETATION**

**Moderator: David W. Stoller, M.D.**

**1:30 MR Safety**

Frank G. Shellock, Ph.D.

**2:00 MRI in the Management of  
Rheumatoid Arthritis**

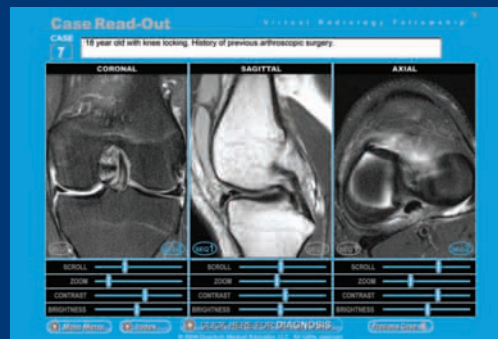
John V. Crues, III, M.D.

**2:30 Image Interpretation Critique**

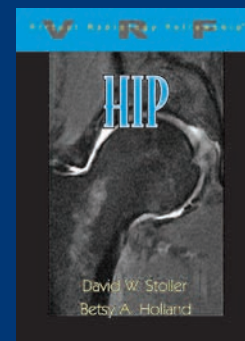
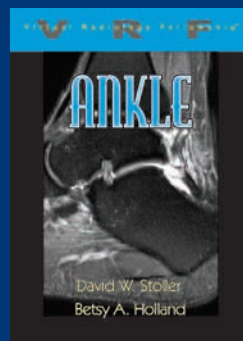
David W. Stoller, M.D.

**3:30 End**

**Stoller/Holland Online & DVD CME**



**Virtual Radiology Fellowship**



[www.virtualradiologyfellowship.com](http://www.virtualradiologyfellowship.com)  
[orders@virtualradiologyfellowship.com](mailto:orders@virtualradiologyfellowship.com)  
415-990-0150

