

42nd Annual Course

Advances in Arthroplasty
Registries in Action: Your Best World-Wide
Source of Evidence-Based Orthopaedics for
Biological and Prosthetic Solutions

October 2-5, 2012

Under the Direction of

HARRY E. RUBASH, MD, DIRECTOR

Co-Directors

HANY S. BEDAIR, MD • DENNIS W. BURKE, MD • ANDREW A. FREIBERG, MD YOUNG-MIN KWON, MD, PhD, FRCS, FRACS

HENRIK MALCHAU, MD, PhD • JOSEPH C. MCCARTHY, MD ORHUN K. MURATOGLU, PhD • STEVEN F. SCHUTZER, MD RICHARD D. SCOTT, MD • THOMAS S. THORNHILL, MD

WILLIAM H. HARRIS, MD, DSc, DIRECTOR EMERITUS



Offered by

at the Hyatt Regency Hotel 575 Memorial Drive Cambridge, MA 02139



DESCRIPTION & OBJECTIVES



"Registries in Action: Your Best World-Wide Source of Evidence-Based Orthopaedics for Biological and Prosthetic Solutions"

This year's Annual Advances in Arthroplasty Course marks the 42nd presentation of the course, making it the longest Continuing Medical Education Course at Harvard Medical School. In keeping with the outstanding success of the innovative format of last year's program highlighting the use of *evidence-based medicine* in effectively dealing with challenges in the field, the focus of this year's course will be utilizing the *Arthroplasty Registries* as the best source of evidence-based medicine in optimizing clinical outcomes and quality of life in patients with hip and knee arthroplasty, as well as *early treatment of hip disease in young adults*. Integration of clinical expertise from outstanding local, national and international faculty with the best available clinical evidence from research and national joint arthroplasty registry will be presented to address clinical challenges relevant to everyday practice. These issues include femoroacetabular impingement, sepsis, optimization of DVT prophylaxis, metal-on-metal bearings with edge wear and tribocorrosion, other alternate bearings materials in contemporary use, dislocation, and the use of navigation and emerging implant designs.

The program includes the 11th Annual Harris Oration by David Lewallen, MD; keynote addresses; symposia; and the very popular video vignettes and "live surgeries". As always, there will be

ample time during the Meet the Faculty Sessions for you to discuss your challenging cases and for the discussion of the issues with the expert faculty in the field. The venue for this year's 42nd course is the recently renovated Hyatt Regency Hotel, Cambridge, MA.

ACCREDITATION

The Harvard Medical School is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

The Harvard Medical School designates this live activity for a maximum of 39 AMA PRA Category 1 CreditsTM. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Full Course: A maximum of 39 AMA PRA Category 1 CreditsTM

Arthroplasty Only: A maximum of 29.5 AMA PRA Category 1 CreditsTM

Day 1 Only: A maximum of 9.5 AMA PRA Category 1 CreditsTM

ACGME COMPETENCIES

This course is designed to meet one or more of the following Accreditation Council of Graduate Medical Education competencies:

- · Patient care
- · Medical knowledge
- Practice-based learning and improvement

Upon completion of this course, participants will be able to:

- Utilize new avenues available for primary hip and knee arthroplasty
- Evaluate the theories of osteoarthritis of the hip and early intervention options including hip arthroscopy, surgical dislocation and osteotomy
- Integrate clinical expertise and the best research evidence including national joint registry data (evidence-based medicine) into the decision making process for patient care to optimize clinical outcomes
- Analyze the various bearing surfaces that are currently available in order to determine appropriate use
- Assess the pros, cons and effectiveness of each approach for the treatment of dislocation
- Recognize the issues surrounding primary and revision total hip and knee arthroplasty
- Evaluate when Computer Assisted
 Orthopedic Surgery (CAOS) and navigation
 devices may be used in your practice
- Apply current recommendations for prophylaxis for deep vein thrombosis (DVT) diagnosis and treatment

Course Directors

Harry E. Rubash, MD, Director

Co-Directors

Hany S. Bedair, MD Dennis W. Burke, MD Andrew A. Freiberg, MD Young-Min Kwon, MD, PhD, FRCS, FRACS Henrik Malchau, MD, PhD Joseph C. McCarthy, MD

Orhun K. Muratoglu, PhD Steven F. Schutzer, MD Richard D. Scott. MD

Thomas S.Thornhill, MD

William H. Harris, MD, DSc, Director Emeritus

Invited Distinguished Local Faculty

Hany Bedair, MD Charles Bragdon, PhD Miriam Bredella, MD Dennis Burke, MD Brian Busconi, MD Thomas Einhorn, MD Wolfgang Fitz, MD Andrew Freiberg, MD William Harris, MD Young-Jo Kim, MD Young-Min Kwon, MD, PhD Henrik Malchau, MD, PhD Kartik Varadarajan, PhD

Joseph McCarthy, MD Michael Millis, MD Tom Minas, MD Orhun Muratoglu, PhD Sandra Nelson, MD Ebru Oral, PhD William Palmer, MD Harry Rubash, MD Richard Scott, MD John Siliski, MD Thomas Thornhill, MD WilliamTomford, MD John Wright, MD

"The Annual Harris Oration" The 11th Harris Orator: David Lewallen, MD

Invited Distinguished International Faculty

Paul Beaule, MD, FRCS(C) Richard Field, PhD, FRCS Andrea Fontana, MD Stephen Graves, MD, FRCS Moussa Hamadouche, MD, PhD Aldo Toni, MD Victor Ilizaliturri, MD Rodrigo Mardones, MD Bassam Masri, MD, FRCSC

John O'Donnell, MD Martyn Porter, MD, FRCS Otto Robertsson, MD, PhD John Skinner, MD, FRCS Eleftherios Tsiridis, MD, PhD, FRCS Richard Villar, MD, FRCS

Invited Distinguished National Faculty

Sonny Bal, MD Michael Berend, MD Richard Berger, MD Jeffrey Binder Robert Booth, MD Kevin Bozic, MD Robert Buly, MD JW Thomas Byrd, MD John Callaghan, MD John Clohisy, MD John Collier, DE Clifford Colwell, MD John Currier, MS Douglas Dennis, MD C. Anderson Engh, Jr., MD Philip Glassner, MD Carlos Guanche, MD Mark Hartzband, MD Bryan Kelly, MD Louis Kwong, MD Christopher Larson, MD David Lewallen, MD

Jay Lieberman, MD Adolph Lombardi, MD Jess Lonner, MD Ormonde Mahoney, MD William Maloney, MD Hal Martin, DO Michael Mont, MD Charles Nelson, MD Wavne Paprosky, MD Javad Parvizi, MD, FRCS Marc Philippon, MD Hollis Potter, MD Aaron Rosenberg, MD Marc Safran, MD Thomas Sampson, MD Steven Schutzer, MD Giles Scuderi, MD Raj Sinha, MD, PhD James Slover, MD Allston Stubbs, MD Vernon Tolo, MD Alfred Tria, MD

REGISTRATION INFORMATION

Early Registration Fee:

Postmarked on or by July 7, 2012 - \$1,350 (USD)

Day 1: Early Intervention Only - \$450 (USD)

Late Registration Fee:

Postmarked after July 7, 2012 - \$1,500 (USD)

Day 1: Early Intervention Only - \$550 (USD)

Reduced Fee for Residents/Fellows in Training and Allied Health Professionals - \$390 (USD)

REGISTRATION INFORMATION

Registration by credit card (VISA or MasterCard) can be made at: www.cme.hms.harvard.edu/courses/arthroplasty. Registration by check (draft on a United States bank), please make payable to Harvard Medical School and mail with registration form to Harvard Medical School-Department of Continuing Education, PO Box 417476, Boston, MA 02241-7476. Telephone and fax registration is not **accepted.** Registration with cash payment is not permitted. Upon receipt of your paid registration an email confirmation from the HMS-DCE office will be sent to you. Be sure to include an email address that you check frequently. Your email address is used for critical information including: registration confirmation, evaluation and certificate.

INQUIRIES

By telephone 617-384-8600, Monday-Friday, 10 AM to 4 PM (EST) or by email at: hms-cme@hms.harvard.edu.

ONLINE INFORMATION

To register or view activity information online, visit www.cme.hms.harvard.edu/courses/arthroplasty

☐ To ensure proper registration, please add the first three characters of the source code found at the bottom of this registration form.

DISCLOSURE POLICY

Harvard Medical School (HMS) adheres to all ACCME Essential Areas, Standards, and Policies. It is HMS's policy that those who have influenced the content of a CME activity (e.g. planners, faculty, authors, reviewers and others) disclose all relevant financial relationships with commercial entities so that HMS may identify and resolve any conflicts of interest prior to the activity. These disclosures will be provided in the activity materials along with disclosure of any commercial support received for the activity. Additionally, faculty members have been instructed to disclose any limitations of data and unlabeled or investigational uses of products during their presentations.

REFUND POLICY

A handling fee of \$60 is deducted for cancellation. Refund requests must be received by postal mail, email or fax one week prior to this activity. No refunds will be made thereafter.

COURSE LOCATION

All sessions for this activity will be held at Hyatt Regency Hotel, 575 Memorial Drive, Cambridge MA 02139. (Telephone: 617-492-1234 or 800-233-1230)

ACCOMMODATIONS/TRAVEL

A limited number of rooms have been reserved at the Hyatt Regency Hotel, Cambridge, MA (Telephone: 617-492-1234) until September 9, 2012. Please specify that you are enrolled in this activity to receive a reduced room rate of \$255 per night Single/Double. Please do not purchase nonrefundable airline ticket(s) until you have received an email from our office confirming your paid registration. For airline reservations contact the HMS Travel Desk toll free 1(877) 4-HARVMD (1-877-442-7863) Monday - Friday 9 AM - 8 PM (EST). From outside the U.S., Canada and Virgin Islands, please call (617) 559-3764.

Advances in

Labral Lesions — Are There Genetic Tuesday, October 2, 2012 Predispositions? 6:00am Registration IHOT Registry — The Importance of a Validated 7:00am Welcome and Introduction Outcome Score ISHA — Evolution and Lessons Learned **I. Early Intervention** Discussion and Q&A 2:30pm Break Hip Pain in the Young Patient 7:10am 2:45pm Debates and Vignettes When It's "Not the Hip", Where? The Capsule When It Is the Hip: Cut It - DON'T Repair Pearls of History and Exam Cut It - WITH Repair Keynote: Hip Morphological Development Discussion When It's Normal, When it's Not **FAI** Treatment Discussion and Q&A Is Done Better By Mini Open 7:45am Radiological Imaging: Is Done Better By Arthroscopy Advances and Limitations Discussion What Can We Learn From Plain Films Chondral Lesions are Best Treated By: and Specialized Views? Microfracture What is the Role of Ultrasound in the Hip? Decompression and Repair CT and MR Digital Imaging: Reconstruction with Fibrin Optimizing Their Value? Reconstruction with Cartilage Impregnated Advanced Non-Contrast MR of the Stem Cells and PRP — Scaffold Joint and Soft Tissue Discussion and Q&A MR Imaging in Patients with Prior Surgery 4:00pm Advanced Arthroscopic Techniques — Discussion and Q&A Video Vignettes 8:30am Panel Discussion Arthroscopic Psoas Recession The Operative Set-Up: Arthroscopic Hamstring Release How I Do It — Tips and Pearls Arthroscopic Quadratus Femoris and 9:00am What Can Be Treated and Results Sciatic Nerve Release The Labrum and Chondral Injury 4:15pm Panel Discussion Labral Repair Controversies in Treatment Labral Reconstruction Non-operative Rx for FAI Adolescent Patient Dysplasia that is Moderate — Scope? Post Trauma Arthroscopy: Does it Help? Keynote: Extra Articular Disorders Hip and Knee Arthritis in Young Patients: Discussion and Q&A Surgical Options 10:00am Break How Much Arthritis is Too Much for 10:15am Femoroacetabular Impingement Arthroscopy? Keynote: Current Understanding of Cam and Osteochondroplasty with DJD — Pincer Abnormalities Is There a Benefit? Treatment and Results: Cam Lesions Hip Osteotomies with DJD Limited Open Rx Resurfacing in the Young — Arthroscopic Rx Indications, Limitations and Results Treatment and Results: Pincer Lesions **Keynote:** THA in Young Patients — Fixations and Limited Open Rx Bearing Choices, and Results with Different Arthroscopic Rx Etiologies Navigation for FAI ACI Treatment in the Knee - Can it be Applied Discussion and Q&A to the Hip? AVN - Are the Treatment and Outcomes Different 11:15am Live Surgery in the Hip than the Knee? The 21 Point Surgical Sequence for the HTO vs. UNI Total Knee Replacement in the Central and Peripheral Compartment Young — What is the Evidence? Decompression of a Cam and Pincer Lesion Hip Arthroscopy in 2030: 12:15pm Lunch Through the Looking Glass 1:15pm **Keynote Session** Discussion and Q&A Translational Research — From the Laboratory 5:30pm Adjourn for Day Synovial Fluid — How Does it Nourish the Joint? Wednesday, October 3, 2012

6:00am

Registration

7:00am Welcome and Introduction

Does a Capsulectomy Affect It?

Factors Affecting Outcome

Arthroscopic Outcomes at Minimum 10-15 Years —

Arthroplasty — A Comprehensive Four

		II. Total Hip Arthroplasty		Oxidation of Crossfire In Vivo Oxidation of Longevity Ex Vivo After
	7:10am 8:20am	Registries in Action: Your Best World-Wide Source of Evidence-Based Orthopaedics Arthroplasty Registries I: Vital for Today and Tomorrow What is an Arthroplasty Registry? What are its Limitations? How to Use it? What Has Arthroplasty Registry Achieved So Far? Improving Quality of Care Nationwide, by Surgeon, and by Hospital Prevention of Major Orthopaedic Disasters Special Value of National Registries What is the New Role of Registries in FDA Approval of Innovation? Post-market Surveillance and 510K Pathway What is the Progress of the US Registry (AJRR)? Discussion and Q&A Arthroplasty Registries II: Registry Update on	3:35pm 4:00pm	Oxidation of Longevity Ex Vivo After In Vivo Service Discussion and Q&A Break Alternative Bearings that Work: Metal-on-Polyethylene Current State II Evidence Showing Improved Oxidation Resistance with E-Poly Evidence Showing Wear Reduction with E-Poly Metal-on-Polyethylene is Privileged Regarding Edge Wear Discussion and Q&A Keynote: Practical Advice to the Hip Surgeon on Alternate Bearings Where are We Now? What is an Overall View of the Bearing Surface Problems? Adjourn for Day
		Today's Burning Issues Metal-on-Metal Surface Hip Replacement		Welcome Reception
		Metal-on-Metal Total Hip Replacement	Thurs	day, October 4, 2012
1	9:30am 0:00am	Tribocorrosion at the Head Neck Junction Retrieval Update Progression of Adverse Reactions Diagnostic Techniques Management of Symptomatic and Asymptomatic Patients Indications for Revisions Revision Challenges and Outcome Discussion and Q&A Break Arthroplasty Registries III: Registry Update on	6:00am 7:00am 7:40am	Registration How to Improve Your Results in Primary Total Hip Arthroplasty Templating: Why it Should be Used Primary Complex Problems DDH, Perthes, PFFD Fusion Takedown Cementing Selected Femoral Stems Discussion and Q&A Preventing Dislocation: A Problem of Component Position and Head Size
1	1:00am	Tomorrow's Uncertain Issues Dual Mobility Acetabular Components Modular Neck Stems Short Femoral Stems Modular Femoral Revision Stem Breakage Discussion and Q&A		The Role of Acetabular Malposition in Dislocation The Importance of Combined Positions of Acetabular and Femoral Component in Dislocation The Unique Role of Upright Semi-CT Radiography in Assessing Component
		Live Surgery		Positioning
•	2:15pm 1:15pm	Alternative Bearings that Work: Ceramic-on-Ceramic Current State Keynote: The Evidence-Based Advantages and Disadvantages of Ceramic-on-Ceramic Total Hip Arthroplasty Registry Update of Outcomes Edge Loading in Ceramic-on-Ceramic Squeaking in Ceramic-on-Ceramic		Optimizing Knowledge of Pelvic Position on the OR Table Optimizing Acetabular Position Within the Pelvis What is the Role of Navigation? The Role of Head Size in Reducing Dislocation Rates Utility of Joint Registry Data in Improving Cup Positioning in THA Discussion and Q&A
	2:25pm	Will Stripe Wear Progress? Discussion and Q&A Alternative Bearings that Work: Metal-on-Polyethylene Current State I Evidence-Based Reduction of Wear RSA Evaluation at 10 Years	8:30am	How to Improve Your Results in Revision Total Hip Arthroplasty Extensile Acetabular and Femoral Exposure Complex Femoral Revisions Modular vs. Non-modular Femoral Stems Management of Trochanteric Non union

Allograft Prosthetic Composite

Major to Massive Bone Stock Loss

Complex Acetabular Revisions

Evidence-Based Reduction of Wear -

Evidence-Based Reduction of Lysis

Multicenter Study

Oxidation of X3 In Vivo

Day Update

Cup-Cage vs. Allografts Alignment Does Matter Pelvic Discontinuity Conventional Instruments Revision for Recurrent Dislocation Computer Navigation for Deformity Diagnostic and Treatment Algorithm Robotics **Revision for Sepsis** Patient Specific Cutting Blocks When Should I&D be Done? Discussion and Q&A Current Evidence Supporting the 5:30pm Adjourn for Day PROSTALAC Approach When Can a Single Stage Revision for Friday, October 5, 2012 Sepsis Be Done Safely? Discussion and Q&A 7:00am Welcome and Introduction 9:40am Break 8:00am Bearing Surfaces All Poly Tibia 10:00am Live Surgery Metal Backed Tibias Reduce Strain Wear in Fixed vs. Mobile Bearing Knees The 11th Annual Harris Oration 11:00am Highly Cross-linked Poly for the Knee Vitamin E for the Knee 11:15am Prevention of Periprosthetic Infection Oxinium Counter-face New Evidence for Innovative Modes to Discussion and Q&A Diagnose Sepsis 8:20am Fixation How Can We Best Handle MRSA and MRSE? Cemented TKA: The Gold Standard What Evidence is There on Skin Preparation? Cementless TKA: The Future? Discussion and Q&A Does Hybrid Fixation Have a Role in TKA? 11:45am Deep Venous Thrombosis Prophylaxis Discussion and Q&A What is the Current Evidence? 9:00am Peri-Operative Management Is it Necessary? Pain Management Protocols Comparison of Recommended Protocols Anticoagulation Improved Pharmacological Prophylaxis **Blood Management** Improved Mechanical Prophylaxis Managing Length of Stay Discussion and Q&A Anesthetic Choice 12:15pm *Lunch* Role of Peripheral Nerve Blocks 1:15pm Social and Economic Aspects of TJA Practice Efficiency Health Care Reform for Surgeons Discussion and Q&A How Will Quality Contracts Impact Your Practice? 10:15am Break Why a Pioneer ACO? 10:30am Partial Knees III. Total Knee Arthroplasty Fixed vs. Mobile Bearing UKA Lateral UKA 1:45pm **Prosthetic Anatomic Matching** Patellofemoral Arthroplasty Gender Specific Implants Bicompartmental Arthroplasty Anterior Femoral Condylar Anatomy Discussion and Q&A Component Overhang Does Anatomic Matching Improve Kinematics? 11:15am Meet the Faculty Sessions -The Patient-specific Knee: What is the Data? with Boxed Lunch Discussion and Q&A 2:00pm Revision Total Knee Arthroplasty 2:15pm Kinematics Antibiotic Bone Cement High Flexion Designs Management of Bone Loss Non-High Flexion Designs Stems: How Long is Long Enough? Rotating Platform Kinematics Stem Fixation — Cement Rotational Kinematics in Flexion Stem Fixation — Hybrid Patellafemoral Kinematics Mid-flexion Instability- Myth? Extensor Mechanism Deficiency Revision for Stiffness After TKA Do All CR Knees Function the Same? Discussion and O&A Discussion and Q&A 3:20pm Break 3:45pm Video Vignettes 3:40pm The Cruciate Ligaments Physical Exam of Unstable TKA Cruciate Retaining How I Cement a TKA The Case for Posterior Stabilized Exposure for Primary TKA CR Improves Long-term Survivorship Technique of Lateral UKA Bi-Cruciate Substituting Getting Femoral and Tibial External Bi-Cruciate Retaining Rotation Right Discussion and Q&A Postoperative Knee Manipulation 4:30pm Alignment Discussion and Q&A Alignment Does Not Matter 5:00pm Adjourn for Day

Please note: Program changes/substitutions may be made without notice.



ADVANCES IN ARTHROPLASTY October 2-5, 2012



Print Clearly - All Fields Required

Full Name			
First	Middle Initial	Last	
Mailing Address	City	State	Zip Code
Daytime Phone () Please note: Your email address is used for critical in cate. Please be sure to include an email address you of	nformation about the course including;	fax Number (; registration confirmation, e)evaluation and certifi-
	xcluded from receiving e-mail notices of futu		Department of
Profession		Degree	
Primary Specialty (Physicians only)		Board Certified: \	Yes 🗖 No 🗖
Professional School Attended (Physicians of Harvard Medical School U.S. Medi	=	Year of Graduation _	
Form of Payment:			Class # 321125
O Arthroplasty Section Only Early Registration Fee postmar	ked on or by July 7, 2012		\$1050 (USD)
O Day 1: Early Intervention Only Early Registration Fee postman	ked on or by July 7, 2012		\$450 (USD)
O Arthroplasty Section Only Late Registration Fee postmark	red after July 7, 2012		\$1150 (USD)
O Day 1: Early Intervention Only Late Registration Fee postmark	ned after July 7, 2012		\$550 (USD)
O Early Registration Fee for FULL Co	urse postmarked on or l	by July 7, 2012	\$1350 (USD)
O Late Registration Fee for FULL Cou	ırse postmarked after Ju	ly 7, 2012	\$1500 (USD)
O Reduced Fee for Residents/Fellows	in Training and Allied Healt	h Professionals	\$390 (USD)

For more information, or to register online, visit: www.cme.hms.harvard.edu/courses/arthroplasty