




## AO Recon NA Course - Principles of Total Hip and Knee Arthroplasty

 October 4, 2024 - October 5, 2024  
Philadelphia, Pennsylvania, USA

This course is modular in structure and highly interactive. Short, evidenced-based lectures cover the key information required. Moderated case discussions in small groups will expand on each topic and help participants to develop decision-making and surgical management skills. Participants will perform hands-on practical exercises including templating and planning exercises. Participants will share their experience with faculty and peers.

All factors related to achieving the best possible outcomes in primary arthroplasty will be covered.

### Target Participants

This course is targeted at second, third and fourth year orthopedic surgery residents.



## Event Summary

### **Tuition:**

Level Name: Participant-Recon  
Pricing Tier: Resident  
Tuition: \$300.00

Level Name: Participant-Recon  
Pricing Tier: Attending  
Tuition: \$300.00

### **Course Prerequisite(s):**

No Prerequisites

### **Venue:**

Hyatt Centric Center City Philadelphia

Phone Number: 215.985.1234  
<https://www.hyatt.com/en-US/hotel/pennsylvania/hyatt-centric-center-city-philadelphia/>

### **Language(s):**

English

### **Directly Provided by:**



### **Professional Level Prerequisite(s):**

- Residency Year 1
- Residency Year 2
- Residency Year 3
- Residency Year 4
- Residency Year 5
- Residency Year 6
- Residency Year 7
- Residency Year 8
- Fellow
- Practicing

## CME

### Continuing Education Credit: 15.00



- AO North America is accredited by the Accreditation Council for Continuing Medical Education to provide continuing medical education for physicians.

**Designation Statement** - AO North America designates this live educational activity for a maximum of 15.00 **AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

The Continuing Medical Education (CME) mission of AO North America (AONA®) is to provide comprehensive multidisciplinary needs based education to surgeons, fellows, and residents in the specialties of orthopedic, hand, craniomaxillofacial, spine, neurosurgery, and veterinary surgery in the areas of trauma (i.e., operative reduction and fixation), degenerative disorders, deformities, tumors, and reconstruction.

Expected results of AONA's CME activities for surgeons, fellows, and residents are to:

- Increase their knowledge base and surgical skill level
- Improve competence by applying advances of knowledge in patient care in the areas of trauma, degenerative disorders, deformities, tumors, and reconstructive surgical techniques
- Address practice performance gaps by improving management of aspects of traumatic injuries and musculoskeletal disorders (i.e., pre-operative planning to post-operative care)

## Learning Objectives

Upon completion, participants should be able to:

- Identify patient's reconstructive surgery needs
- Adopt a patient-centered approach
- Anticipate, recognize, and stratify potential complications
- Describe and discuss safe and effective procedures for primary arthroplasty
- Discuss the management of early and late problems or complications
- Communicate and facilitate a multidisciplinary team-based approach
- Apply best practice to optimize and document patient outcomes

## Faculty



### Howard, James - Co-Chairperson

MD, MSc, FRCS(C)  
Professor of Surgery  
Site Chief of Orthopaedic Surgery, University Hospital  
Division of Orthopaedic Surgery  
Schulich School Of Medicine, Western University  
London Health Sciences Centre  
London, Ontario

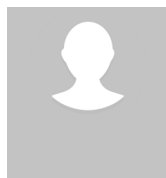
Dr. James L Howard was born and raised in Calgary, Alberta. His undergraduate training was completed at the University of Calgary in Biological Sciences. He then received his MD degree at the University of Calgary in 2000. After graduating from medical school, he proceeded to the University of Western Ontario for residency training in Orthopaedic Surgery. He completed a concurrent Master's degree in Medical Biophysics during residency focusing on the use of computed tomography to evaluate bone support around cementless total hip replacements. He qualified as an orthopaedic surgeon in 2005, and travelled to the United States for fellowship training. First, he completed the Advanced Clinical Experience in Orthopaedic Traumatology at Harborview Medical Centre in Seattle, Washington. He then travelled to the Mayo Clinic in Rochester, Minnesota for subspecialty training in adult hip and knee reconstruction. Dr. Howard returned to London in 2007 as a member of the Division of Orthopaedic Surgery. He is a Full Professor in the Division of Orthopaedic Surgery at Western University. He is an active member of the Hip Society and Knee Society. His clinical practice focuses on primary and revision total hip arthroplasty.



### Huo, Michael - Co-Chairperson

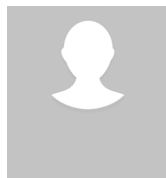
MD  
UT Southwestern Medical Center  
Department of Orthopedic Surgery  
Dallas, Texas

Orthopedic surgeon specializing in total joint replacement surgery.



### Grammatopoulos, George - Lecturer

MBBS, PhD, FRCS (Tr ' & ' Orth), BSC (Hons)  
The Ottawa Hospital  
Ottawa, Ontario



### Long, William - Lecturer

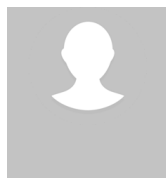
BSc, MD, FRCSC  
Clinical Associate Professor Weill Cornell Medical College  
Attending Orthopaedic Surgeon Hospital for Special Surgery  
New York, NY  
New York, New York



### Mann, Steve - Lecturer

MD, MMED, FRCSC  
Dr  
Kingston, Ontario

Steve Mann completed his orthopaedic residency in 2013. After fellowships in adult trauma (Kingston, ON) and lower-extremity arthroplasty (Auckland, NZ), he returned to Kingston, where he is now Assistant Professor in orthopaedic surgery and director of the musculoskeletal course in first-year medical school. His clinical practice includes primary and revision hip and knee arthroplasty and peri-prosthetic fracture care.



### Morcos, Mina - Lecturer

MD, MSc, FRCS(C) Ortho  
Assistant Professor  
Department of Orthopaedics  
Montreal University  
Hopital Maisonneuve-Rosemont  
Montreal, Quebec

**Richardson, Christopher - Lecturer**

MD, MSc, FRCSC

Dr.

Division of Orthopaedics

Dalhousie University

Halifax, Nova Scotia

Dr. Glen Richardson is an orthopaedic surgeon specializing in adult primary and revision hip and knee arthroplasty at the Queen Elizabeth II Health Science Centre, Halifax, NS. In addition to his medical training, Dr. Richardson received a Master of Science degree in Health Informatics from the University of Victoria, BC. He is an associate professor of orthopaedic surgery at Dalhousie University. Dr. Richardson has held leadership positions both locally and nationally including President of the Canadian RSA Network, President of the Nova Scotia Orthopaedic Society, Medical Co-Chair for Perioperative Quality Committee at the Nova Scotia Health Authority, Chair of the Canadian Orthopaedic Association Accreditation Committee and Chair of the Canadian Arthroplasty Society Membership Committee. Presently, Dr. Richardson's research interests include using RSA to evaluate knee and hip implant fixation. In addition, he is studying the application of innovative technology, such as robotic surgery, to improve surgical outcomes of total hip and knee arthroplasty. Dr. Richardson values collaboration and has contributed to national multicenter studies. As past program director for the Division of Orthopaedic Surgery, Dr. Richardson continues to participate in the surgical education of learners at all levels. Dr. Richardson maintains professional affiliation with the Canadian Orthopaedic Society, Canadian Arthroplasty Society, American Association of Hip and Knee Surgeons, Personalized Arthroplasty Society, and the International RSA Society.

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## Agenda

### Day 1

**Friday, October 04, 2024 - 06:30 - 17:15 - (includes breaks, travel-time and meals)**

Schedule	Title	Moderator	Faculty	Room
06:30 - 07:30	Registration and breakfast			
07:30 - 07:40	Welcome and introduction		Howard, J Huo, M	
07:40 - 09:15	Module 1: Perioperative Management of Total Hip and Knee Arthroplasty	Howard, J		
07:40 - 07:50	Summary: Optimizing the patient journey		Howard, J	
07:50 - 08:00	Preventing infection in joint replacement		Mann, S	
08:00 - 08:10	Questions and answers		Howard, J	
08:10 - 09:10	Small group discussion 1: Assessment and decision making			
09:10 - 09:15	Closing of module: take-home messages		Howard, J	
09:15 - 11:50	Module 2: Performing Total Hip Arthroplasty	Huo, M		
09:15 - 09:25	Key steps in planning THA		Long, W	
09:25 - 09:35	Overview of surgical approaches for THA		Huo, M	
09:35 - 09:40	Questions and answers		Huo, M	
09:40 - 10:00	Coffee break			
10:00 - 10:10	Cemented fixation		Grammatopoulos, G	
10:10 - 10:20	Cementless fixation of the cup and the stem		Morcos, M	
10:20 - 10:25	Questions and answers		Huo, M	
10:25 - 10:35	Bearing choice in THA		Howard, J	
10:35 - 10:45	Intraoperative challenges and complications		Mann, S	
10:45 - 10:55	Preventing dislocation in THA		Richardson, C	
10:55 - 11:05	Questions and answers			
11:05 - 11:50	Small group discussion 2: Total hip arthroplasty - surgical approaches, preventing dislocation, and fixation			
11:50 - 12:50	Lunch break			
12:50 - 14:50	Skills Lab HIP: session 1			
12:50 - 14:50	Group A: Templating and Small Group Discussion: Templating a THA - 60 min; Small group discussion 3; Total hip arthroplasty-intraoperative challenges and complications - 60 min	Howard, J Mann, S		
12:50 - 14:50	Group B: AO Recon Skills Stations: Reaming the acetabulum and inserting a cup - 30 min; Preparing the femur and inserting a stem - 30 min; Safe zones for screw insertion - 30 min; Meet the Experts - 30 min		Grammatopoulos, G Huo, M Long, W Morcos, M Richardson, C	
14:50 - 15:10	Coffee break			
15:10 - 17:10	Skills Lab HIP: session 2			
15:10 - 17:10	Group B: Templating and Small Group Discussion: Templating a THA - 60 min; Small group discussion 3; Total hip arthroplasty-intraoperative challenges and complications - 60 min	Howard, J Mann, S		
15:10 - 17:10	Group A: AO Recon Skills Stations: Reaming the acetabulum and inserting a cup - 30 min; Preparing the femur and inserting a stem - 30 min; Safe zones for screw insertion - 30 min; Meet the Experts - 30 min		Grammatopoulos, G Huo, M Long, W Morcos, M Richardson, C	

17:10 - 17:15 Closing of module: Take-home messages

Howard, J  
Huo, M

## Day 2

Saturday, October 05, 2024 - 06:30 - 14:05 - (includes breaks, travel-time and meals)

Schedule	Title	Moderator	Faculty	Room
06:30 - 09:15	Module 3: Performing Total Knee Arthroplasty	Howard, J		
06:30 - 06:45	Key steps in TKA and overview of surgical approaches for TKA			
06:45 - 06:55	Limb alignment and kinematics		Richardson, C	
06:55 - 07:05	The role of the PCL in TKA		Mann, S	
07:05 - 07:15	Bone cuts in TKA		Huo, M	
07:15 - 07:25	Questions and answers		Howard, J	
07:25 - 07:35	Balancing the varus knee and fixed flexion contracture		Morcos, M	
07:35 - 07:45	Balancing the valgus knee		Grammatopoulos, G	
07:45 - 07:55	Patellofemoral resurfacing and tracking		Huo, M	
07:55 - 08:05	Fixation options in knee replacement		Long, W	
08:05 - 08:15	Questions and answers		Howard, J	
08:15 - 08:30	Coffee break			
08:30 - 09:15	Small Group Discussion 4: How to do a TKR - valgus, varus, kinematic alignment			
09:15 - 11:15	Skills Lab KNEE: Session 1			
09:15 - 11:15	Group A: Meet the Experts and Small Group Discussions: Meet the Experts – 60 min; Small group discussion 5; Total knee arthroplasty-intraoperative challenges and complications - 60 min	Howard, J Long, W Mann, S		
09:15 - 11:15	Group B: AO Recon Skills Stations: Planning a TKA – 30 min; Alignment for a tibial cut – 30 min; Performing a tibial cut – 30 min; Cementing – 30 min	Grammatopoulos, G Huo, M Morcos, M Richardson, C		
11:15 - 11:45	Lunch break			
11:45 - 13:45	Skills Lab KNEE: Session 2			
11:45 - 13:45	Group B: Meet the Experts and Small Group Discussions: Meet the Experts – 60 min; Small group discussion 5; Total knee arthroplasty-intraoperative challenges and complications - 60 min	Howard, J Long, W Mann, S		
11:45 - 13:45	Group A: AO Recon Skills Stations: Planning a TKA – 30 min; Alignment for a tibial cut – 30 min; Performing a tibial cut – 30 min; Cementing – 30 min	Grammatopoulos, G Huo, M Morcos, M Richardson, C		
13:45 - 13:55	Q&A - questions not covered by the course		Howard, J Huo, M	
13:55 - 14:05	Closing of module and course: Take-home messages		Howard, J Huo, M	

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## Acknowledgment

### In-Kind Support

AO North America gratefully acknowledges in-kind support for equipment and technical staff from J&JMedTech.

### Educational Grant

AO North America gratefully acknowledges funding for its education activities from the AO Foundation. The AO Foundation receives funding for education from Synthes GmbH.