




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

 April 23, 2025 - April 24, 2025  
Henderson, Nevada, 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:**

Hilton Durham near Duke University  
3800 Hillsborough Road  
Durham, North Carolina, USA  
Phone Number: (919) 383-8033  
<https://www.hilton.com/en/hotels/rdudhhf-hilton-durham-near-duke-university/>

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

English

### **Directly Provided by:**



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

- 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

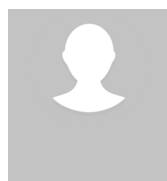
## Faculty



### Howard, James - Co-Chairperson

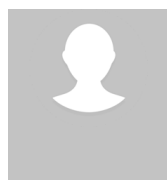
MD, MSc, FRCS(C)  
Professor of Surgery  
Site Chief of Orthopaedic Surgery, University Hospital  
Division of Orthopaedic Surgery  
Schulich School Of Medicine, Western University  
London Health Sciences Centre  
London, Ontario

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.



### Perry, Kevin - Co-Chairperson

MD  
Mayo Clinic  
Rochester, Minnesota



### Bolz, Nicholas - Lecturer

MD  
Henry Ford Providence Hospital  
Department of Orthopaedic Surgery  
Novi, Michigan



### Herndon, Carl - Lecturer

MD  
Assistant Professor of Orthopedic Surgery  
Division of Hip and Knee Reconstruction  
Columbia University Irving Medical Center  
New York, New York

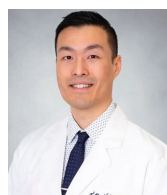
Carl L. Herndon, MD, serves as an Assistant Professor of Orthopedic Surgery at Columbia University Irving Medical Center in New York, New York. He specializes in hip and knee reconstruction and is skilled in the operative and nonoperative treatment of hip and knee injuries, including minimally invasive total joint arthroplasty (including anterior approach hip replacement), advanced techniques like robotically assisted total knee replacement, and unicompartmental (partial) knee replacement, as well as the latest approaches to managing revision hip and knee replacement, including periprosthetic joint infection and treatment of periprosthetic fracture. He also provides advanced care for hip, knee, and femur fractures and nonsurgical management for pain and arthritis. He is a published author and has won numerous awards and honors for his research. He is a current Health Policy Fellow for the American Association of Hip and Knee Surgeons (AAHKS), on the Editorial Board of the Journal of Arthroplasty, and a board member of the Foundation for Physician Advancement.



### Huo, Michael - Lecturer

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

Orthopedic surgeon specializing in total joint replacement surgery.



### Luo, Tianyi - Lecturer

MD, PhD  
Dr.  
Fort Wayne, Indiana



**Morrison, Craig - Lecturer**

MD

President

Southern Joint Replacement Institute

Nashville, Tennessee

Dr. Morrison completed his orthopedic surgery residency at Vanderbilt Medical Center and his Aufranc adult reconstructive fellowship at New England Baptist Hospital. He currently practices at Southern Joint Replacement Institute in Nashville, Tennessee. He serves as the group president and is the director of quality of the Advanced Joint Replacement Institute at Tristar Centennial Hospital in Nashville, Tennessee

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## Agenda

### Day 1

**Wednesday, April 23, 2025 - 06:30 - 17:15 - (includes breaks, travel-time and meals)**

<b>Activity</b>	<b>Area</b>
Lecture	Pavillion
Module A	Bridal BO
Module B	Vesari BO
Module C	Chapel

Schedule	Title	Moderator	Faculty	Room
06:30 - 07:30	Registration and breakfast			
07:30 - 07:40	Welcome and introduction		Howard, J Perry, K	Pavillion
07:40 - 09:15	Module 1: Perioperative Management of Total Hip and Knee Arthroplasty			Pavillion
07:40 - 07:50	Summary: Optimizing the patient journey		Howard, J	Pavillion
07:50 - 08:00	Preventing infection in joint replacement		Bolz, N	Pavillion
08:00 - 08:10	Questions and answers			Pavillion
08:10 - 09:10	Small group discussion 1: Assessment and decision making			
09:10 - 09:15	Closing of module: take-home messages		Howard, J Perry, K	Pavillion
09:15 - 11:50	Module 2: Performing Total Hip Arthroplasty			Pavillion
09:15 - 09:25	Key steps in planning THA		Herndon, C	Pavillion
09:25 - 09:35	Overview of surgical approaches for THA		Huo, M	Pavillion
09:35 - 09:40	Questions and answers			Pavillion
09:40 - 10:00	Coffee break			
10:00 - 10:10	Cemented fixation		Luo, T	Pavillion
10:10 - 10:20	Cementless fixation of the cup and the stem		Perry, K	Pavillion
10:20 - 10:25	Questions and answers			Pavillion
10:25 - 10:35	Bearing choice in THA		Huo, M	Pavillion
10:35 - 10:45	Intraoperative challenges and complications		Morrison, C	Pavillion
10:45 - 10:55	Preventing dislocation in THA		Bolz, N	Pavillion
10:55 - 11:05	Questions and answers			Pavillion
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	Bolz, N Howard, J Morrison, C		
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	Herndon, C Huo, M Luo, T Perry, K		
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 Huo, M Luo, T		

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	Bolz, N Herndon, C Morrison, C Perry, K		
17:10 - 17:15	Closing of module: Take-home messages		Perry, K	Pavillion

## Day 2

Thursday, April 24, 2025 - 07:00 - 14:20 - (includes breaks, travel-time and meals)

Activity	Area
Lecture	Pavillion
Module A	Bridal BO
Module B	Vesari BO
Module C	Chapel

Schedule	Title	Moderator	Faculty	Room
07:00 - 09:30	Module 3: Performing Total Knee Arthroplasty			Pavillion
07:00 - 07:15	Key steps in TKA and overview of surgical approaches for TKA		Luo, T	Pavillion
07:15 - 07:25	Alignment principles in TKA, including robotics		Perry, K	Pavillion
07:25 - 07:35	Fixation options in knee replacement		Howard, J	Pavillion
07:35 - 07:45	Questions and answers			Pavillion
07:45 - 08:00	Balancing the varus knee using TKA		Herndon, C	Pavillion
08:00 - 08:10	Balancing the valgus knee using TKA		Morrison, C	Pavillion
08:10 - 08:20	Patellofemoral resurfacing and tracking		Huo, M	Pavillion
08:20 - 08:30	Questions and answers			Pavillion
08:30 - 08:45	Coffee break			
08:45 - 09:30	Small Group Discussion 4: How to do a TKR - valgus, varus, kinematic alignment			
09:30 - 11:30	Skills Lab KNEE: Session 1			
09:30 - 11:30	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	Luo, T Morrison, C Perry, K		
09:30 - 11:30	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	Bolz, N Herndon, C Howard, J Huo, M		
11:30 - 12:00	Lunch break			
12:00 - 14:00	Skills Lab KNEE: Session 2			
12:00 - 14:00	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	Bolz, N Howard, J Huo, M		
12:00 - 14:00	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	Herndon, C Luo, T Morrison, C Perry, K		
14:00 - 14:10	Q&A - questions not covered by the course			Pavillion
14:10 - 14:20	Closing of module and course: Take-home messages		Howard, J Perry, K	Pavillion

## AO NA Disclaimer Information

### Faculty Disclosure:

It is the policy of AO North America to abide by the Accreditation Council for Continuing Medical Education Standards for Commercial Support. Standard 2: "Disclosures Relevant to Potential Commercial Bias and Relevant Financial Relationships of Those with Control over CME Content," requires all planners, including course directors, chairs, and faculty, involved in the development of CME content to disclose their relevant financial relationships prior to participating in the activity. Relevant financial relationships will be disclosed to the activity audience. The intent of the disclosure is not to prevent a faculty with a relevant financial or other relationship from teaching, but to provide participants with information that might be of importance to their evaluation of content. All potential conflicts of interest have been resolved prior to the commencement of this activity.

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All scientific research referred to, reported or used in this CME activity in support or justification of a patient care recommendation conforms to the generally accepted standards of experimental design, data collection and analysis.

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## Acknowledgment

### In-Kind Support

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

### Educational Grant

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