

# Fundamentals of Hip and Knee Arthroplasty for Orthopaedic Residents

presented by AAOS, AAHKS, The Hip Society, and The Knee Society

## PROGRAM SCHEDULE



**July 9 – 11, 2021 • Rosemont, IL**

**Brett R. Levine, MD, FAAOS and Lucian C. Warth, MD**

Course Directors



# PRE-RECORDED LECTURES

## Available June 25, 2021

CMEs: 21.5  
As of June 10, 2021  
Content and faculty subject to change

Instructions to access the pre-recorded content will be emailed to course registrants on June 25, 2021.

### ACCESS INSTRUCTIONS

1. Go to [learn.aaos.org](http://learn.aaos.org)
2. Log in with your Academy ID and password
3. Select "My Activities" from the left navigation menu
4. Locate the course title and click "Launch"

### WELCOME – TESTIMONIAL

*R. Michael Meneghini, MD, FAAOS*

#### Introduction to Pre-Recorded Session

*Brett R. Levine, MD, MS, FAAOS and Lucian C. Warth, MD*

#### Diversity and Orthopaedics

*Linda I. Suleiman, MD*

#### Basic Principles of Hip Osteoarthritis

- Diagnosis of Disease: OA, RA, AVN - *David Manning, MD, FAAOS*
- Testing indications and Findings - *David Manning, MD, FAAOS*
- Examination of the Patient - *Paul Nourbash, MD, FAAOS*
- Non-Operative Treatment - *Paul Nourbash, MD, FAAOS*

#### Basic Principles of Knee OA

- Diagnosis
- OA, RA, Gout etc.
- Non-op Treatment
- Unicompartamental

*P. Maxwell Courtney, MD, FAAOS*

#### Surgical Demonstration: Direct Lateral Approach

*Matthew Austin, MD, FAAOS*

### WRAP AND COURSE TEASER

*Brett R. Levine, MD, MS, FAAOS and Lucian C. Warth, MD*

# LIVE PROGRAM SCHEDULE

Friday, July 9, 2021

4:30 pm      **REGISTRATION/LIGHT REFRESHMENTS/EXHIBITS  
(REGISTRATION DESK A AND FOYER)**

5:00 pm      **WELCOME AND COURSE OVERVIEW (AUDITORIUM AB)**  
*Brett R. Levine, MD, MS, FAAOS*

5:05 – 7:30 pm      **TOTAL HIP REPLACEMENT**  
*Moderator: Brett R. Levine, MD, MS, FAAOS*

5:05 pm      **Indications for Surgery**  
*Leonard T. Buller, MD*

5:15 pm      **SMALL GROUP CASE DISCUSSION: THA (BASIC PRINCIPLES)**

- Basic Osteoarthritis
- Rheumatoid Arthritis
- Osteonecrosis

*Discussion Leaders: Drs. Bates, N. Brown, T. Brown, Buller, Cross, Della Valle, Duncan, Ehmke, Hardt, Hartman, Karas, Levine, Lupo, Molloy, Noiseux, Nunley, Oni, Rees, Stronach, Wallace, and Warth*

6:25 pm      **Concepts of THA Acetabular Implant: Implant Design and Use**

- Line-to-line vs. Press-fit: When to Use “Highly Porous” Shells
- Screws vs. No Screws – Danger Zones
- Materials—Ingrowth v. Ongrowth
- Bearing Choice

*Curtis W. Hartman, MD, FAAOS*

6:40 pm      **Concepts of THA Femoral Implant: Implant Design and Use**

- Design Philosophy
- Uncemented Design
- Cement vs. Uncemented
- Revision Stems

*Kevin D. Hardt, MD, FAAOS*

6:55 pm      **Introduction to Hip Templating**  
*Sara S. Wallace, MD, MPH*

# LIVE PROGRAM SCHEDULE

Friday, July 9, 2021

7:00 pm

## HIP TEMPLATE SESSION

*Session Leaders: Brett R. Levine, MD, MS, FAAOS and Lucian C. Warth, MD*

*Session Instructors: Drs. Bates, N. Brown, T. Brown, Buller, Cross, Della Valle, Duncan, Ehmke, Hardt, Hartman, Karas, Lupo, Molloy, Noiseux, Nunley, Oni, Rees, Stronach and Wallace*

7:30 pm

## ADJOURN FOR THE DAY

# LIVE PROGRAM SCHEDULE

Saturday, July 10, 2021

Full breakfast is available at the Hampton Inn and Suites beginning at 6:00am daily for hotel guests. Coffee and light pick up items are available at the course.

6:30 am **COFFEE/LIGHT SNACKS/EXHIBITS (AUDITORIUM AB FOYER)**

7:00 – 11:40 am **SURGICAL APPROACHES IN THA (AUDITORIUM AB)**

*Moderator: Lucian C. Warth, MD*

7:00 am **Surgical Anatomy of the Hip**

*Robert M. Molloy, MD*

7:10 am **Posterior Approach THA**

- Didactic Presentation on THA Basics and Interactive Pre-Recorded Demonstration

*Alejandro Gonzalez Della Valle, MD, FAAOS*

7:25 am **Direct Anterior THA**

- Didactic Presentation on Approach and Surgical Process, and Interactive Pre-Recorded Demonstration

*Harold W. Rees, MD, FAAOS*

7:40 am **Lab Orientation**

*OLC Staff*

7:45 am **MOVE TO LAB**

7:50 – 9:50 am **HANDS-ON SURGICAL SKILLS LAB (LAB AB)**

**Basic or Skills**

- Philosophy of Surgery
- Case Set Up
- Power Tool Skills
- PVC Pipe Drilling
- Saw Bones
- Concepts of Ream and Broach in THA
- Surgical Approaches to THA: DA, PL, Anterolateral (Choose one)
- Acetabular Preparation

*Lab Leaders: Brett R. Levine, MD, MS, FAAOS and Lucian C. Warth, MD*

*Lab Instructors: Drs. Bates, N. Brown, T. Brown, Buller, Cross, Della Valle, Duncan, Ehmke, Hardt, Hartman, Karas, Lupo, Molloy, Noiseux, Nunley, Oni, Rees, Stronach and Wallace*

# LIVE PROGRAM SCHEDULE

Saturday, July 10, 2021

9:55 am	REFRESHMENT BREAK/EXHIBITS (AUDITORIUM AB FOYER)
10:05 am	<p>SMALL GROUP CASE DISCUSSIONS THA (AUDITORIUM AB)</p> <ul style="list-style-type: none"><li>• DDH</li><li>• Post Traumatic Arthritis Hardware and Deformity</li><li>• Childhood Hip Disease</li><li>• Femoral Neck Fracture</li></ul> <p>Discussion Leaders: Drs. Bates, N. Brown, T. Brown, Buller, Cross, Della Valle, Duncan, Ehmke, Hardt, Hartman, Karas, Levine, Lupo, Molloy, Noiseux, Nunley, Oni, Rees, Stronach, Wallace and Warth</p>
11:15 am	<p>HIP PANEL: DISCUSS IMPLANTS, PROTOCOLS, PATHWAYS</p> <p>Moderator: Ryan M. Nunley, MD, FAAOS</p> <p>Panel Members: Drs. Cross, Duncan, Ehmke, Lupo, Molloy, Oni and Wallace</p>
11:35 am – 12:45 pm	LUNCH
11:35 am	PICKUP LUNCH (AUDITORIUM FOYER)
11:50 am	<p>LEGENDS PANEL (AUDITORIUM AB)</p> <ul style="list-style-type: none"><li>• Panel Discussion</li><li>• Life Lessons / How to Choose a Practice</li><li>• Why Arthroplasty?</li><li>• Career Lessons</li><li>• Rapid Fire Questions!</li></ul> <p>Moderator: Brett R. Levine, MD, MS, FAAOS</p> <p>Panel: Drs Rosenberg, Paprosky, Jacobs, Callaghan, Lewallen and Berry</p>
1:05 pm	MOVE TO LAB
1:20 – 2:45 pm	<p>HANDS-ON SURGICAL SKILLS LAB (LAB AB)</p> <ul style="list-style-type: none"><li>• Femoral Components</li><li>• Anatomic Dissection of Hip Specimen</li></ul> <p>Lab Leaders: Brett R. Levine, MD, FAAOS and Lucian C. Warth, MD</p> <p>Lab Instructors: Drs. Bates, N. Brown, T. Brown, Buller, Cross, Della Valle, Duncan, Ehmke, Hardt, Hartman, Karas, Lupo, Molloy, Noiseux, Nunley, Oni, Rees, Stronach and Wallace</p>
2:50 pm	REFRESHMENT BREAK/EXHIBITS (AUDITORIUM AB FOYER)

# LIVE PROGRAM SCHEDULE

Saturday, July 10, 2021

## 2:55 – 6:35 pm TOTAL KNEE REPLACEMENT (AUDITORIUM AB)

*Moderator: Julius K. Oni, MD, FAAOS*

2:55 pm

### Indications and Basics of Surgery

- Anatomy
- Basic Steps
- Basic Instrumentation

*Nicholas M. Brown, MD*

3:15 pm

### Unicompartmental Knee Arthroplasty

- Indications and Surgical Principles

*Michael B. Cross, MD, FAAOS*

3:35 pm

### SMALL GROUP CASE DISCUSSION TKA

- TKA vs. UKA
- Approaches
- Soft-Tissue Balance and Ligament Releases
- Patella Tracking and Resurfacing

*Discussion Leaders: Drs. Bates, N. Brown, T. Brown, Buller, Cross, Della Valle, Duncan, Ehmke, Hardt, Hartman, Karas, Levine, Lupo, Molloy, Noiseux, Nunley, Oni, Rees, Stronach, Wallace, and Warth*

5:05 pm

### TKA Implant Design

- CR, PS, Ultracongruent
- Cemented vs. Cementless

*Timothy S. Brown, MD, FAAOS*

5:25 pm

### PANEL: DISCUSSION ON IMPLANT CHOICE, ETC.

*Moderator: Michael B. Cross, MD, FAAOS*

*Panel: Drs. N Brown, T Brown, Ehmke, Della Valle, Oni, Rees, Stronach, and Wallace*

6:05 pm

### TKA Templating

*Brett R. Levine, MD, MS, FAAOS*

6:15 pm

### KNEE TEMPLATE SESSION

*Session Leaders: Brett R. Levine, MD, MS, FAAOS and Lucian C. Warth, MD*

*Session Instructors: Drs. Bates, N. Brown, T. Brown, Buller, Cross, Della Valle, Duncan, Ehmke, Hardt, Hartman, Karas, Lupo, Molloy, Noiseux, Nunley, Oni, Rees, Stronach and Wallace*

6:45 pm

**ADJOURN FOR THE DAY**

# LIVE PROGRAM SCHEDULE

Sunday, July 11, 2021

Full breakfast is available at the Hampton Inn and Suites beginning at 6:00am daily for hotel guests. Coffee and light pick up items are available at the course.

6:30 am **COFFEE/LIGHT SNACKS/EXHIBITS (AUDITORIUM AB FOYER)**

## 7:00 – 11:45 am **PRINCIPLES OF TOTAL KNEE REPLACEMENT (AUDITORIUM AB)**

*Moderator: Alejandro Gonzalez Della Valle, MD, FAAOS*

7:00 am **Surgical Approaches to Primary TKA**  
*Benjamin M. Stronach, MD, FAAOS*

7:20 am **LECTURE WITH VIDEO**  
**Gap Balancing and Measured Resection**  
*Nicolas O. Noiseux, MD, FRCSC, MS, FAAOS*

7:40 am **MOVE TO LAB**

## 7:45 – 9:40 am **HANDS-ON SURGICAL SKILLS LAB (LAB AB)**

- **Surgical Exposures: Talk Before Cutting**
- **Primary Total Knee**

*Lab Leaders: Brett R. Levine, MD, MS, FAAOS and Lucian C. Warth, MD*

*Lab Instructors: Drs. Bates, N. Brown, T. Brown, Buller, Cross, Della Valle, Duncan, Ehmke, Hardt, Hartman, Karas, Lupo, Molloy, Noiseux, Nunley, Oni, Rees, Stronach and Wallace*

9:45 am **REFRESHMENT BREAK/EXHIBITS (AUDITORIUM AB FOYER)**

## 9:55 am **SMALL GROUP CASE DISCUSSIONS (AUDITORIUM AB)**

- Severe Valgus
- Extra-Articular Deformity
- Previous Hardware

*Discussion Leaders: Drs. Bates, N. Brown, T. Brown, Buller, Cross, Della Valle, Duncan, Ehmke, Hardt, Hartman, Karas, Levine, Lupo, Molloy, Noiseux, Nunley, Oni, Rees, Stroanch, Wallace, and Warth*

11:20 am **Work Up of the Painful TJA**  
*Lucian C. Warth, MD*

11:40 am – 1:10 pm **LUNCH**



# LIVE PROGRAM SCHEDULE

Sunday, July 11, 2021

- 11:45 am **PICKUP LUNCH (AUDITORIUM FOYER)**
- 11:55 am **LUNCH SYMPOSIUM: TKA COMPLICATION AVOIDANCE AND MANAGEMENT**
- Wound Closure / Drainage / Infection
  - Intra-operative MCL Disruption
  - Extensor Mechanism Disruption
- Moderator: Michael D. Bates, MD, FAAOS*  
*Panel: Drs. Buller, Cross, Ehmke, Hardt, Karas, Molloy, Nunley, and Rees*
- 12:55 pm **Quick Overview on Extensile Exposures and Structures to Dissect**  
*Charles Lupo, MD, FAAOS*
- 1:10 pm **MOVE TO LAB**
- 1:20 – 2:55 pm **HANDS-ON SURGICAL SKILLS LAB (LAB AB)**
- Advanced and Extensile Exposures
  - Complete Knee Dissection
- Lab Leaders: Brett R. Levine, MD, MS, FAAOS and Lucian C. Warth, MD*  
*Lab Instructors: Drs. Bates, N. Brown, T. Brown, Buller, Cross, Della Valle, Duncan, Ehmke, Hardt, Hartman, Karas, Lupo, Molloy, Noiseux, Nunley, Oni, Rees, Stronach and Wallace*
- 2:55 pm **COURSE ADJOURNS**