



CCJR® 2021 DAILY SCHEDULE

WEDNESDAY, DECEMBER 8, 2021

12:00-3:00PM	Pre-Registered Participant Self Check-In and Badge Pick-Up	
3:00-7:00PM	General Registration	
5:00-7:00PM	 WELCOME RECEPTION/EXHIBITS OPEN All attendees with badges are welcome to attend. Please no children under age of 10.	Exhibit Hall (Grand Cypress Ballroom)

THURSDAY, DECEMBER 9, 2021

6:00-7:15AM	 BREAKFAST	Exhibit Hall (Grand Cypress Ballroom)
6:00-7:15AM	Non-CME Industry Supported Education Session ATTUNE® Knee System Tibia First Patient Specific Alignment Technique with VELYS™ Robotic Assisted Solution presented by DePuy Synthes, the Orthopaedics Company of Johnson & Johnson	Innovation Theater
7:30-7:35AM	Welcome and Opening Remarks Daniel J. Berry, MD	All CME Sessions presented in Windsong

SESSION I OUTPATIENT SURGERY






Session Moderators:
1. William J. Maloney, III, MD
2. Matthew P. Abdel, MD, MS

7:35-7:45AM	Keynote: Making a Safe Transition to Outpatient Total Joint Arthroplasty Kevin J. Bozic, MD, MBA	
7:45-8:00AM	 DEBATE: Outpatient Surgery Strict Patient Selection Criteria R. Michael Meneghini, MD	General Criteria, but No Strict Checklist Adolph V. Lombardi, Jr., MD
8:00-8:06AM	Outpatient Surgery: Pregame - Choosing the Patient, Getting the Patient Ready William G. Hamilton, MD	
8:07-8:13AM	Outpatient Surgery: In the OR - Tips on Anesthesia, Instrumentation Choice, Problem Solving Keith R. Berend, MD	
8:14-8:20AM	Outpatient Surgery: Postgame - Protocols for Patient Contact, Pain Management, Backup for Problems Scott M. Sporer, MD	
8:20-8:35AM	 Panel Discussion / Audience Questions Panel: Keith R. Berend, MD, Kevin J. Bozic, MD, MBA, William G. Hamilton, MD, Adolph V. Lombardi, Jr., MD, R. Michael Meneghini, MD, Scott M. Sporer, MD	
8:35-9:05AM	 S-1 Pre-Recorded Live Surgery: A Patient's Journey Through an ASC for Revision TKA Surgeon: Adolph V. Lombardi, Jr., MD Moderator: Scott M. Sporer, MD	
9:05-9:10AM	 Panel Discussion / Audience Questions Panel: Keith R. Berend, MD, Kevin J. Bozic, MD, MBA, William G. Hamilton, MD, Adolph V. Lombardi, Jr., MD, R. Michael Meneghini, MD, Scott M. Sporer, MD	
9:10-9:14AM	Outpatient Surgery Missteps: I Am Never Doing That Again! Speaker 1: Fares S. Haddad, MD (Res), FRCS (Orth)	
9:14-9:18AM	Speaker 2: Matthew S. Austin, MD	
9:18-9:22AM	Speaker 3: Carlos J. Lavernia, MD	
9:22-9:26AM	Speaker 4: Fred D. Cushner, MD	
9:27-9:28AM	The Gerard A. Engh, Md Keynote Lecture Introduction: Adolph V. Lombardi, Jr., MD,	
9:28-9:38AM	New Technologies to Follow Your Arthroplasty Patient Remotely: What's Out There? Will You Really Use It? Fares S. Haddad, MD (Res), FRCS (Orth)	
9:38-9:45AM	 Panel Discussion / Audience Questions Panel: Matthew S. Austin, MD, Keith R. Berend, MD, Kevin J. Bozic, MD, MBA, Fred D. Cushner, MD, Fares S. Haddad, MD (Res), FRCS (Orth), Carlos J. Lavernia, MD, Christopher L. Peters, MD	
9:45-10:20AM	 BREAK • Visit the Exhibit Hall • Meet Faculty in the Hub	

SESSION II PRIMARY TKA: ALIGNMENT AND BALANCING

Session Moderators:
1. Henry D. Clarke, MD
2. Matthew S. Austin, MD


10:20-10:30AM	Understanding the Terms and the Implications: Kinematic vs Mechanical vs Functional vs Anatomical Alignment; Gap Balancing vs Measured Resection Simon Young, MBChB, FRACS, MD
10:30-10:35AM	My Top 5 Technical Tips for a Better Primary TKA Christopher Dodd, MD

10:35-10:47AM	 DEBATE: Knee Alignment Targets Kinematic/Anatomic Alignment Has Real Advantages Mark W. Pagnano, MD	Show Me the Money: Where Is the Proof? Stick with Mechanical Alignment Steven B. Haas, MD
10:47-11:07AM	 S-2 Pre-Recorded Live Surgery: Improve Your Outcomes with Sensor Balancing of TKA Surgeon: Martin W. Roche, MD Moderator: Henry D. Clarke, MD or TBD	
11:07-11:19AM	 DEBATE: Uncemented TKA The Time Has Come for Uncemented TKA Robert L. Barrack, MD	Cemented TKA Is More Reliable: Why Switch? Robert T. Trousdale, MD
11:19-11:39AM	 S-3 Pre-Recorded Live Surgery: Technical Tips and Tricks for Uncemented TKA Surgeon: Ran Schwarzkopf, MD Moderator: R. Michael Meneghini, MD	
11:39-11:48AM	 PANEL DISCUSSION / AUDIENCE QUESTIONS Panel: Matthew S. Austin, MD, Steven B. Haas, MD, Mark W. Pagnano, MD, Martin W. Roche, MD	

SESSION III
KNEE KINEMATICS AND IMPLANT CHOICE: WHAT IS BEST IN 2021?

Session Moderators:
1. Bryan D. Springer, MD
2. Michael P. Bolognesi, MD




11:48-11:50AM	CASE PRESENTATION: Routine Varus Knee with Tricompartmental Arthritis Bryan D. Springer, MD	
	 FOUR-WAY DEBATE: Best Implant Choice for Routine TKA in a Patient Like This...	
11:50-11:55AM	I Would Do a Posterior Cruciate Retaining TKA: Why It Is Better and Other Choices Worse William A. Jiranek, MD	
11:55-12:00PM	I Would Do a Posterior Stabilized TKA with CAM/Post: Why It Is Better and Other Choices Worse Giles R. Scuderi, MD	
12:00-12:05PM	I Would Do a Medial Stabilized TKA: Why It Is Better and Other Choices Worse Andrew J. Shimmin, MD	
12:05-12:10PM	I Would Do an Ultra-Congruent TKA: Why It Is Better and Other Choices Worse Aaron A. Hofmann, MD	

12:10-12:20PM	 SOUNDING PANEL DISCUSSION / AUDIENCE QUESTIONS • Is One Choice Really Better Than Another? • Does Lateral Rollback Matter? • What Direction Is the Future? Panel: Keith R. Berend, MD, Henry D. Clarke, MD, Steven B. Haas, MD, Douglas E. Padgett, MD	
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12:20-1:20PM	 LUNCH	Exhibit Hall
12:25-1:10PM	Non-CME Industry Supported Concurrent Session Enter a New World of Postoperative Pain Management presented by Heron Therapeutics	Palm Room
12:25-1:10PM	Non-CME Industry Supported Concurrent Session Biofilms and Surgical Site Infections presented by Next Science	Innovation Theater




SESSION IV
UNICOMPARTMENTAL ARTHRITIS

Session Moderators:
1. Mark W. Pagnano, MD
2. William G. Hamilton, MD


1:20-1:22PM	CASE PRESENTATION: Medial Compartment Disease Presented by: Mark W. Pagnano, MD	
1:22-1:35PM	 DEBATE: Uni vs Total for Predominantly Medial Compartment Disease Unicompartmental Arthroplasty for This Patient Keith R. Berend, MD	Total Knee Arthroplasty for This Patient Henry D. Clarke, MD
1:35-1:55PM	 S-4 Pre-Recorded Live Surgery: Implanting a Device That Will Tell You Exactly What Your Knee Arthroplasty Patient is Accomplishing Surgeon: Peter K. Sculco, MD Moderator: Fred D. Cushner, MD	
1:55-2:02PM	 PANEL DISCUSSION / AUDIENCE QUESTIONS State of Unis: Fixed vs Mobile Bearing, Cemented vs Uncemented, Robotic vs Hand Instruments Panel: Fred D. Cushner, MD, Christopher Dodd, MD, C. Anderson Engh, Jr., MD, William A. Jiranek, MD, Martin W. Roche, MD	

SESSION V
PRIMARY TKA: THE ROBOTS ARE COMING

Session Moderators:
1. Steven J. MacDonald, MD, FRCSC
2. Martin W. Roche, MD

2:02-2:12PM	KEYNOTE: Shopping for Robotic TKA Systems: What is Being Offered Out There? What Are the Pluses and Minuses of the Main Features? Jan Victor, MD	
2:12-2:32PM	 S-5 Pre-Recorded Live Surgery: Precision TKA with Robotic Assistance Surgeon: Robert T. Trousdale, MD Moderator: Mark W. Pagnano, MD	
2:32-2:45PM	 DEBATE: Robotics in Hip and Knee Arthroplasty A Wine Before Its Time R. Michael Meneghini, MD	It Is Time Already Robert L. Barrack, MD
2:45-3:05PM	 S-6 Pre-Recorded Live Surgery: TKA with Real-Time Soft Tissue Balancing and Robotic Assistance Surgeon: Matthew S. Austin, MD Moderator: Martin W. Roche, MD	

3:05-3:20PM  **PANEL DISCUSSION / AUDIENCE QUESTIONS**
Panel: James A. Browne, MD, Thomas K. Fehring, MD, William J. Maloney, III, MD, Michael A. Mont, MD, Thomas P. Sculco, MD

3:20-3:45PM  **BREAK** • Visit the Exhibit Hall • Meet Faculty in the Hub

SESSION VI
COMPLEX PRIMARY TKA: TECHNIQUES, TIPS AND VIDEO TECHNIQUES

Session Moderators:
1. Christopher L. Peters, MD
2. William A. Jiranek, MD

3:45-3:51PM **Previous Incisions: When Should You Be Worried? Methods to Avoid Trouble? What if There Are Problems?**
Douglas A. Dennis, MD

3:51- 3:55PM **CASE PRESENTATION: Patient with Problem Incisions**
Presented by: Christopher L. Peters, MD
Panel: Douglas A. Dennis, MD, George J. Haidukewych, MD, Adolph V. Lombardi, Jr., MD, Giles R. Scuderi, MD

3:55-4:01PM **Retained Hardware: Tips and Tricks**
George J. Haidukewych, MD

4:01-4:05PM **CASE PRESENTATION: Patient with Problem Hardware**
Presented by: Christopher L. Peters, MD
Panel: Douglas A. Dennis, MD, George J. Haidukewych, MD, Adolph V. Lombardi, Jr., MD, Giles R. Scuderi, MD

4:05-4:11PM **Extra-Articular Deformity: Technical Elements**
Arun B. Mullaji, MD

4:11-4:15PM **CASE PRESENTATION: Patient with Extra-Articular Deformity**
Presented by: Christopher L. Peters, MD
Panel: Douglas A. Dennis, MD, George J. Haidukewych, MD, Adolph V. Lombardi, Jr., MD, Giles R. Scuderi, MD

4:15-4:21PM **Pre-op Flexion Contracture: Technical Tips**
Adolph V. Lombardi, Jr., MD, FACS

4:21-4:25PM **CASE PRESENTATION: Patient with Flexion Contracture**
Presented by: Christopher L. Peters, MD
Panel: Douglas A. Dennis, MD, George J. Haidukewych, MD, Adolph V. Lombardi, Jr., MD, Giles R. Scuderi, MD

4:25-4:31PM **Previous ACL Surgery with Chronic Flexion Laxity**
Giles R. Scuderi, MD

4:31-4:35PM **CASE PRESENTATION: Patient with Previous ACL Reconstruction**
Presented by: Christopher L. Peters, MD
Panel: Douglas A. Dennis, MD, George J. Haidukewych, MD, Adolph V. Lombardi, Jr., MD, Giles R. Scuderi, MD

4:35-4:45PM  **PANEL DISCUSSION / AUDIENCE QUESTIONS**
Panel: Douglas A. Dennis, MD, George J. Haidukewych, MD, Adolph V. Lombardi, Jr., MD, Giles R. Scuderi, MD

Most Valuable Knee Arthroplasty Paper in the Last 2 Years
Moderators: Adolph V. Lombardi, Jr., MD • Douglas A. Dennis, MD

4:45-4:49PM Paper 1: Jean-Noël Argenson, MD

4:49-4:53PM Paper 2: Fred D. Cushner, MD

4:53-4:57PM Paper 3: Antonia F. Chen, MD

4:57-5:01PM Paper 4: Jan Victor, MD

5:01-5:10PM  **AUDIENCE VOTE, PANEL DISCUSSION ON MOST VALUABLE PAPER, AUDIENCE QUESTIONS**
Panel: Matthew S. Austin, MD, Kevin J. Bozic, MD, MBA, Steven B. Haas, MD, Jay R. Lieberman, MD

SESSION VI-A
CASE-BASED MINI-SESSION: COMPLICATIONS OF TKA


Session Moderators:
1. Thomas K. Fehring, MD
2. Keith R. Berend, MD

5:10-5:15PM **CASE PRESENTATION: The Red Knee: When Do You Get Worried? What Do You Do?**
Presented by: Thomas K. Fehring, MD
Panel: Steven B. Haas, MD, Aaron A. Hofmann, MD, Carlos J. Lavernia, MD, Scott M. Sporer, MD
AUDIENCE RESPONSE

5:15-5:20PM **CASE PRESENTATION: Wound Drainage: When Do You Get Worried? What Do You Do? When Do You Reoperate?**
Presented by: Thomas K. Fehring, MD
Panel: Steven B. Haas, MD, Aaron A. Hofmann, MD, Carlos J. Lavernia, MD, Scott M. Sporer, MD
AUDIENCE RESPONSE

5:20-5:25PM **CASE PRESENTATION: Early Lack of Flexion: How Soon Do You Get Worried? What Do You Do? When Do You Manipulate? When Do You Reoperate?**
Presented by: Thomas K. Fehring, MD
Panel: Panel: Steven B. Haas, MD, Aaron A. Hofmann, MD, Carlos J. Lavernia, MD, Scott M. Sporer, MD
AUDIENCE RESPONSE

5:25-5:30PM **CASE PRESENTATION: Early Lack of Extension: How Soon Do you Get Worried? What Do you Do? When Do you Reoperate?**
Presented by: Thomas K. Fehring, MD
Panel: Steven B. Haas, MD, Aaron A. Hofmann, MD, Carlos J. Lavernia, MD, Scott M. Sporer, MD
AUDIENCE RESPONSE

5:30-5:45PM  **AUDIENCE QUESTIONS FROM THE DAY; BEST QUESTION OF THE DAY AWARD**
Moderators: Adolph V. Lombardi, Jr., MD • William J. Maloney, III, MD
Panel: Steven B. Haas, MD, Aaron A. Hofmann, MD, Carlos J. Lavernia, MD, Scott M. Sporer, MD

5:45-6:30PM

 **POSTER TOUR**

6:30-8:00PM

Sesión Educativa en Español
Non-CME Case-Based Round Table Discussion Session
For Spanish-speaking attendees, presented in Spanish

Innovation Theater

Moderators: Carlos J. Lavernia, MD, Rafael J. Sierra, MD, Claudio Diaz Ledezma, MD

FRIDAY, DECEMBER 10, 2021

6:00-7:15AM

**BREAKFAST**

Exhibit Hall

6:00-7:15AM

Non-CME Industry Supported Education Session
Revision Knee Arthroplasty – As Easy as 1, 2, 3?
presented by Zimmer Biomet

Innovation Theater

7:30-7:35AM

Welcome and Announcements
Daniel J. Berry, MD

All CME Sessions presented in Windsong

SESSION VII
CONTROVERSIES IN PRIMARY TKA AND THASession Moderators:
1. Robert L. Barrack, MD
2. Mathias P.G. Bostrom, MD

7:35-7:45AM

KEYNOTE: Biologics and Other Things You Can Inject into a Joint: What Really Works and What Has No Proof?
Jay R. Lieberman, MD

7:45-8:00AM

**DEBATE: Use Dual Mobility in All High-Risk THA Patients****Absolutely Yes, Why Risk the Grief?**

Rafael J. Sierra, MD

Absolutely Not, Are You Kidding?

Stephen B. Murphy, MD

8:00-8:30AM

**S-7 Pre-Recorded Live Surgery: The Advanced Anterior Approach With Dual Mobility for Complex THA**

Surgeon: Jeffrey A. Geller, MD Moderator: William G. Hamilton, MD

8:30-8:31AM

THE CHARLES A. ENGH, MD KEYNOTE LECTURE

Introduction by William J. Maloney, III, MD

8:31-8:41AM

Understanding the Hip-Spine Relationship – And Does It Matter?

Matthew P. Abdel, MD, MS

8:41-8:55AM

**PANEL DISCUSSION / AUDIENCE QUESTIONS**

Panel: C. Anderson Engh, MD, Jay R. Lieberman, MD, Douglas E. Padgett, MD, Wayne G. Paprosky, MD, FACS

8:55-9:10AM

**DEBATE: Hard-on-Hard Surfaces are Dead in THA****Yes, Dead as a Door Nail**

William J. Maloney, III, MD

No, Still Alive with Good Indications

Douglas A. Dennis, MD

9:10-9:20AM

**PANEL DISCUSSION / AUDIENCE QUESTIONS**

Panel: Matthew P. Abdel, MD, MS, Mathias P.G. Bostrom, MD, Kevin J. Bozic, MD, MBA, John J. Callaghan, MD, Jay R. Lieberman, MD, Thomas P. Sculco, MD

9:20-9:45AM

CONFIRM OR DENY: Controversies in Total Hip and Total Knee Arthroplasty

Moderator: Daniel J. Berry, MD

Panel: Michael P. Bolognesi, MD, James A. Browne, MD, Steven J. MacDonald, MD, FRCSC, Robert T. Trousdale, MD

9:45-10:30AM

**BREAK** • Visit the Exhibit Hall • Meet Faculty in the Hub**SESSION VIII**
COMPLEX PRIMARY THA: TECHNIQUES, TIPS, AND VIDEO TECHNIQUESSession Moderators:
1. Rafael J. Sierra, MD
2. Scott M. Sporer, MD

10:30-10:36AM

DDH Crowe 1-3: Strategy, Technique, Pitfalls

Christopher L. Peters, MD

10:36-10:40AM

CASE PRESENTATION: Crowe 2 DDH

Presented by: Rafael J. Sierra, MD

Panel: Daniel J. Berry, MD, James A. Browne, MD, George J. Haidukewych, MD, Douglas E. Padgett, MD, Christopher L. Peters, MD

10:40-10:46AM

DDH Crowe 4: Strategy, Technique, Pitfalls

Daniel J. Berry, MD

10:46-10:50AM

CASE PRESENTATION: Crowe 4 DDH

Presented by: Rafael J. Sierra, MD

Panel: Daniel J. Berry, MD, James A. Browne, MD, George J. Haidukewych, MD, Douglas E. Padgett, MD, Christopher L. Peters, MD

10:50-10:56AM

Acetabular Protrusion: Strategy, Technique, Pitfalls

Douglas E. Padgett, MD

10:56-11:00AM

CASE PRESENTATION: Acetabular Protrusion

Presented by: Rafael J. Sierra, MD

Panel: Daniel J. Berry, MD, James A. Browne, MD, George J. Haidukewych, MD, Douglas E. Padgett, MD, Christopher L. Peters, MD

11:00-11:06AM

Conversion Failed Intertrochanteric Fracture to THA: Strategy, Technique, Pitfalls

George J. Haidukewych, MD

11:06-11:10AM

CASE PRESENTATION: Failed Intertrochanteric Fracture

Presented by: Rafael J. Sierra, MD

Panel: Daniel J. Berry, MD, James A. Browne, MD, George J. Haidukewych, MD, Douglas E. Padgett, MD, Christopher L. Peters, MD

11:10-11:16AM


THA in Proximal Femoral Deformity: Strategy, Technique, Pitfalls


James A. Browne, MD

11:16-11:20AM	CASE PRESENTATION: Proximal Femoral Deformity Presented by: Rafael J. Sierra, MD Panel: Daniel J. Berry, MD, James A. Browne, MD, George J. Haidukewych, MD, Douglas E. Padgett, MD, Christopher L. Peters, MD	
11:20-11:30AM	 PANEL DISCUSSION / AUDIENCE QUESTIONS Panel: Daniel J. Berry, MD, James A. Browne, MD, George J. Haidukewych, MD, Douglas E. Padgett, MD, Christopher L. Peters, MD	
11:30-12:00PM	 S-8 Pre-Recorded Live Surgery: Prevention of Infection in Joint Arthroplasty: Role of Sterile Povidone Iodine Surgeon: Javad Parvizi, MD Moderator: Adolph V. Lombardi, Jr., MD	
12:00-12:04PM	Most Valuable Hip Arthroplasty Paper in the Last 2 Years Moderators: Michael P. Bolognesi, MD • Antonia F. Chen, MD	
12:04-12:08PM	Paper 1: Charles L. Nelson, MD	
12:08-12:12PM	Paper 2: Michael A. Mont, MD	
12:12-12:16PM	Paper 3: Kevin J. Bozic, MD, MBA	
	Paper 4: Scott M. Sporer, MD	
12:16-12:30PM	 AUDIENCE VOTE, PANEL DISCUSSION ON MOST VALUABLE PAPER, AUDIENCE QUESTIONS Panel: Matthew P. Abdel, MD, MS, John J. Callaghan, MD, Stephen B. Murphy, MD, Thomas P. Sculco, MD	
12:40-1:25PM	 LUNCH	Exhibit Hall
12:40-1:25PM	Non-CME Industry Supported Education Session New Technologies in the Treatment of Peri-Prosthetic Femur Fractures Presented by DePuy Synthes, the Orthopaedic Company of Johnson & Johnson	Palm Room
12:40-1:25PM	Non-CME Industry Supported Education Session Leading Technologies With Efficiencies for Your ASC presented by Zimmer Biomet	Innovation Theater
SESSION IX CONTROVERSIES IN THA: OPERATIVE APPROACHES		Session Moderators: 1. Daniel J. Berry, MD 2. C. Anderson Engh, MD
1:30-2:00PM	 THREE-WAY DEBATE Points of Contention: • The Posterior Approach has an unacceptably high dislocation rate! • The DA approach has too many loose implants and periprosthetic fractures! • The Anterolateral approach causes unacceptable frequency of abductor problems and is on life support: time to pull the plug! RED TEAM: Posterior Approach – Why this approach is best and the others are worse R. Michael Meneghini, MD (Team Captain), Mathias P.G. Bostrom, MD, Thomas K. Fehring, MD BLUE TEAM: Direct Anterior Approach – Why this approach is best and the others are worse William G. Hamilton, MD (Team Captain), Keith R. Berend, MD, Christopher L. Peters, MD GREEN TEAM: Anterolateral Approach – Why this approach is best and the others are worse David G. Lewallen, MD (Team Captain), George J. Haidukewych, MD, Steven J. MacDonald, MD, FRCS AUDIENCE VOTE TO DECLARE THE WINNING TEAM	
2:00-2:06PM	My 5 Best Technical Tips for a Better Posterior Approach C. Anderson Engh, MD	
2:07-2:13PM	My 5 Best Technical Tips for a Better Direct Anterior Approach Adolph V. Lombardi, Jr., MD	
2:13-2:20PM	 PANEL DISCUSSION / AUDIENCE QUESTIONS Panel: John J. Callaghan, MD, Antonia F. Chen, MD, Charles L. Nelson, MD, Thomas P. Sculco, MD	
SESSION X COMPLICATIONS OF THA: CASE DISCUSSIONS		Session Moderators: 1. Steven J. MacDonald, MD, FRCS 2. Craig J. Della Valle, MD
2:20-2:28PM	CASE PRESENTATION: Early Fx – Why Did It Happen? How to Avoid? How to Treat? Presented by: Steven J. MacDonald, MD, FRCS Panel: John J. Callaghan, MD, Don S. Garbuz, MD, MHSc, Carlos J. Lavernia, MD, Douglas E. Padgett, MD, Scott M. Sporer, MD AUDIENCE RESPONSE	
2:28-2:36PM	CASE PRESENTATION: Leg Length Problem – Why Did It Happen? How to Avoid? How to Treat? Presented by: Steven J. MacDonald, MD, FRCS Panel: John J. Callaghan, MD, Don S. Garbuz, MD, MHSc, Carlos J. Lavernia, MD, Douglas E. Padgett, MD, Scott M. Sporer, MD AUDIENCE RESPONSE	
2:36-2:44PM	CASE PRESENTATION: Recurrent Instability – Why Did It Happen? How to Avoid? How to Treat? Presented by: Steven J. MacDonald, MD, FRCS Panel: John J. Callaghan, MD, Don S. Garbuz, MD, MHSc, Carlos J. Lavernia, MD, Douglas E. Padgett, MD, Scott M. Sporer, MD AUDIENCE RESPONSE	
2:44-2:52PM	CASE PRESENTATION: Draining Wound – Why Did It Happen? How to Avoid? How to Treat? Presented by: Steven J. MacDonald, MD, FRCS Panel: John J. Callaghan, MD, Don S. Garbuz, MD, MHSc, Carlos J. Lavernia, MD, Douglas E. Padgett, MD, Scott M. Sporer, MD AUDIENCE RESPONSE	
2:52-3:00PM	CASE PRESENTATION: Psoas Tendinitis – Why Did It Happen? How to Avoid? How to Treat? Presented by: Steven J. MacDonald, MD, FRCS Panel: John J. Callaghan, MD, Don S. Garbuz, MD, MHSc, Carlos J. Lavernia, MD, Douglas E. Padgett, MD, Scott M. Sporer, MD AUDIENCE RESPONSE	
3:00-3:10PM	PANEL DISCUSSION / AUDIENCE QUESTIONS Panel: John J. Callaghan, MD, Don S. Garbuz, MD, MHSc, Carlos J. Lavernia, MD, Douglas E. Padgett, MD, Scott M. Sporer, MD	

3:10-3:20PM	KEYNOTE: New Technologies to Reduce Hip Dislocation. What Can Help Now? What Is Coming? Andrew J. Shimmin, MD	
3:20-3:45PM	 BREAK • Visit Exhibit Hall • Meet the Faculty in the Hub	
SESSION XI THE ENEMY: INFECTION		Session Moderators: 1. Charles L. Nelson, MD 2. James A. Browne, MD
3:45-3:52PM	Diagnosing the Infected Arthroplasty in 2021: Who Needs Advanced Molecular Testing? What Is Available? How Good Is It? What Are the Pitfalls? Javad Parvizi, MD, FRCS	
3:53-3:59PM	Preventing Pre-op Infection in 2021: What Is Worthwhile, What Is Not? Staph Screening, BMI Reduction, Urinalysis, etc. Bryan D. Springer, MD	
4:00-4:15PM	 DEBATE: Antimicrobial Irrigation (Dilute Betadine or Something Else) for Infection Prevention Always – What Do You Have to Lose? No Value, Waste of Time and Money Craig J. Della Valle, MD Rafael J. Sierra, MD	
4:15-4:24PM	 PANEL DISCUSSION / AUDIENCE QUESTIONS Panel: Thomas K. Fehring, MD, Michael A. Mont, MD, Javad Parvizi, MD, FRCS, Thomas P. Sculco, MD, Bryan D. Springer, MD	
SESSION XII TREATMENT OF INFECTION		Session Moderators: 1. C. Anderson Engh, MD 2. James A. Browne, MD
4:24-4:44PM	 S-9 Pre-Recorded Live Surgery: Articulating Spacer to Treat Periprosthetic Hip Infection Surgeon: R. Michael Meneghini, MD Moderator: James A. Browne, MD	
4:44-4:50PM	Debridement, Antibiotics and Implant Retention in 2021: Indications and Technical Points Simon Young, MD, FRACS	
4:51-4:57PM	How I Do a One-Stage: Principles and Technical Tips Thorsten Gehrke, MD	
4:58-5:04PM	How I Do a Two-Stage TKA: Spacer Choice, Technical Tips Thomas K. Fehring, MD	
5:05-5:11PM	How I Do a Two-Stage THA: Spacer Choice, Technical Tips Carsten Perka, MD	
5:11-5:20PM	 PANEL DISCUSSION / AUDIENCE QUESTIONS Panel: Craig J. Della Valle, MD, Thomas K. Fehring, MD, Charles L. Nelson, MD, Michael A. Mont, MD, Bryan D. Springer, MD	
5:20-5:30PM	 AUDIENCE QUESTIONS FROM THE DAY; BEST QUESTION OF THE DAY AWARD Moderators: Adolph V. Lombardi, Jr., MD • William J. Maloney, III, MD Panel: Craig J. Della Valle, MD, Thomas K. Fehring, MD, Charles L. Nelson, MD, Michael A. Mont, MD, Bryan D. Springer, MD	
5:30-7:00PM	 RECEPTION All attendees with badges are welcome to attend. Please no children under age of 10.	Exhibit Hall
7:00-9:00PM	Non-CME Industry Supported Education Session ROSA® Robotics Platform Showcase Presented by Zimmer Biomet	Regency Hall


SATURDAY, DECEMBER 11, 2021

6:00-7:15AM	 BREAKFAST	Portico Foyer
6:00-7:15AM	Non-CME Industry Supported Education Session Experience Functional Knee Positioning with Mako SmartRobotics™ presented by Stryker Joint Replacement	Innovation Theater
7:30-7:35AM	Welcome and Announcements Daniel J. Berry, MD	All CME Sessions presented in Windsong

SESSION XIII REVISION THA		Session Moderators: 1. Robert T. Trousdale, MD 2. Douglas E. Padgett, MD
7:35-7:41AM	Exposure: How to Do an Extended Greater Trochanteric Osteotomy Wayne G. Paprosky, MD	
7:41-7:49AM	CASE PRESENTATION • Case 1: Exposure Challenge • Case 2: Exposure Challenge Presented by Robert T. Trousdale, MD Panel: Mathias P.G. Bostrom, MD, Jay R. Lieberman, MD, Charles L. Nelson, MD, Wayne G. Paprosky, MD	
7:49-7:55AM	Implant Removal: My Tips for Well Fixed Cup and Stem Extraction Carsten Perka, MD	
7:55-8:02AM	CASE PRESENTATION • Case 1: Cup Removal (For Instability) • Case 2: Stem Removal (For Infection) Presented by Robert T. Trousdale, MD Panel: Mathias P.G. Bostrom, MD, Jay R. Lieberman, MD, Charles L. Nelson, MD, Wayne G. Paprosky, MD	
8:02-8:07AM	 PANEL DISCUSSION / AUDIENCE QUESTIONS Panel: Mathias P.G. Bostrom, MD, Jay R. Lieberman, MD, Charles L. Nelson, MD, Wayne G. Paprosky, MD	




SESSION XIV ACETABULAR REVISION

Session Moderators:
1. C. Anderson Engh, MD
2. Douglas E. Padgett, MD

8:07-8:13AM	Large Diameter Hemispherical Cup with Screws: The Workhorse; Technical Tips for Success Don S. Garbuz, MD, MHSc
8:14-8:20AM	Porous Metal Augments: Best Indications; Technical Tips David G. Lewallen, MD
8:21-8:27AM	Custom Triflange Cup: Why and How? Mathias P.G. Bostrom, MD
8:28-8:34AM	Pelvic Discontinuity: Distraction Technique Wayne G. Paprosky, MD
8:35-8:43AM	CASE PRESENTATION Case 1: Acetabular Revision With Moderate Bone Loss Case 2: Acetabular Revision With Severe Bone Loss Presented by: C. Anderson Engh, MD Panel: Mathias P.G. Bostrom, MD, Don S. Garbuz, MD, MHSc, David G. Lewallen, MD, Wayne G. Paprosky, MD
8:43-8:48AM	 PANEL DISCUSSION / AUDIENCE QUESTIONS Panel: Mathias P.G. Bostrom, MD, Don S. Garbuz, MD, MHSc, David G. Lewallen, MD, Wayne G. Paprosky, MD, FACS


SESSION XV FEMORAL REVISION

Session Moderators:
1. Don S. Garbuz, MD, MHSc
2. Douglas E. Padgett, MD

8:48-9:13AM	 S-10 Pre-Recorded Live Surgery: Concepts of Femoral Revision in 2021 Surgeon: Christopher L. Peters, MD Moderator: Don S. Garbuz, MD, MHSc
9:13-9:19AM	Fluted Tapered Stems: Modular and Non-Modular: Making Them Work Steven J. MacDonald, MD, FRCSC
9:20-9:35AM	CASE PRESENTATION Case 1: Femoral Revision with Moderate Bone Loss Case 2: Femoral Revision with Severe Bone Loss Case 3: Femoral Revision for Periprosthetic Femur Fracture Presented by: Don S. Garbuz, MD, MHSc Panel: C. Anderson Engh, MD, Steven J. MacDonald, MD, FRCSC, Stephen B. Murphy, MD, Scott M. Sporer, MD
9:35-9:45AM	 PANEL DISCUSSION / AUDIENCE QUESTIONS Panel: C. Anderson Engh, MD, Steven J. MacDonald, MD, FRCSC, Stephen B. Murphy, MD, Scott M. Sporer, MD
9:45-10:15AM	 BREAK




SESSION XVI REVISION TKA TECHNIQUES

Session Moderators:
1. Steven B. Haas, MD
2. Henry D. Clarke, MD

10:15-10:21AM	Exposure Challenges in Revision TKA: What To Do Before Reverting to Extensile Exposure; How to Do Quadriceps Snip; How to Do Tibial Tubercle Osteotomy. Giles R. Scuderi, MD
10:22-10:27AM	Implant Removal in TKA; My Favorite Technical Tips Arun B. Mullaji, MD
10:28-10:33AM	Implant Removal in TKA; My Favorite Technical Tips Jean-Noël Argenson, MD
10:34-10:45AM	 PANEL DISCUSSION / AUDIENCE QUESTIONS Panel: Henry D. Clarke, MD, Don S. Garbuz, MD, MHSc, FRCSC, Giles R. Scuderi, MD, Thomas P. Sculco, MD

SESSION XVII REVISION TKA

Session Moderators:
1. Matthew S. Austin, MD
2. Henry D. Clarke, MD

10:45-10:51AM	Biologic Metaphyseal Fixation with Cones: How To, Technique Tips David G. Lewallen, MD
10:52-10:58AM	Biologic Metaphyseal Fixation with Sleeves: How To, Technique Tips Carsten Perka, MD
10:59-11:05AM	Extensor Mechanism Reconstruction With Marlex Mesh Matthew P. Abdel, MD, MS
11:05-11:20AM	 DEBATE: Stems in Revision TKA Uncemented Diaphyseal Engaging Stems Are Easiest and Best Steven J. MacDonald, MD, FRCSC
	Cemented Stems Are More Reliable James A. Browne, MD
11:20-11:30AM	 PANEL DISCUSSION / AUDIENCE QUESTIONS Panel: Matthew P. Abdel, MD, MS, William A. Jiranek, MD, David G. Lewallen, MD, Carsten Perka, MD
11:30-12:00PM	 S-11 Pre-Recorded Live Surgery: Balancing and Fixation Principles in Revision TKA Surgeon: Thomas K. Fehring, MD Moderator: Douglas A. Dennis, MD

**SESSION XVII-A
CASE-BASED MINI-SESSION**


Session Moderators:
1. *Bryan D. Springer, MD*
2. *Matthew S. Austin, MD*

12:00-12:04PM **CASE PRESENTATION** Revision for Bone Loss/Loosening
Presented by: Bryan D. Springer, MD
Panel: Keith R. Berend, MD, Antonia F. Chen, MD, Douglas A. Dennis, MD, Christopher L. Peters, MD

12:04-12:08PM **CASE PRESENTATION** Flexion Instability, Stiffness
Presented by: Bryan D. Springer, MD
Panel: Keith R. Berend, MD, Antonia F. Chen, MD, Douglas A. Dennis, MD, Christopher L. Peters, MD

12:08-12:12PM **CASE PRESENTATION** Varus/Valgus Instability
Presented by: Bryan D. Springer, MD
Panel: Keith R. Berend, MD, Antonia F. Chen, MD, Douglas A. Dennis, MD, Christopher L. Peters, MD

12:12-12:16PM **CASE PRESENTATION** Periprosthetic Fracture
Presented by: Bryan D. Springer, MD
Panel: Keith R. Berend, MD, Antonia F. Chen, MD, Douglas A. Dennis, MD, Christopher L. Peters, MD

12:16-12:30PM  **AUDIENCE QUESTIONS FROM THE DAY; BEST QUESTION OF THE DAY AWARD**
Moderators: Adolph V. Lombardi, Jr., MD • William J. Maloney, III, MD
Panel: Keith R. Berend, MD, Antonia F. Chen, MD, Douglas A. Dennis, MD, Christopher L. Peters, MD

12:30PM **Closing Remarks and Adjourn**
Daniel J. Berry, MD