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| **International Society for Technology in Arthroplasty** | | |
| **Emerging Technologies in Arthroplasty: *Advancing Outcomes*** | | |
| **Saturday, 30 October, 2021** | | |
| **Session / Presentation Title** | **Speaker/Moderator** | **Speaker/Moderator Affiliation** |
| **Preoperative Planning Technologies** | **Melinda Harman, PhD** | **Clemson University, Clemson, South Carolina, USA** |
| | **Scott Banks, PhD** | **University of Florida, Gainesville, Florida, USA** |
| Pre-operative Planning Technology: The Past, the Now and the Future | Stefan Kreuzer, MD, MS | INOV8 Orthopedics, Houston, Texas, USA |
| Discussion | | |
| Total Knee Arthroplasty Pre-Planning Tool to Restore Native Kinematics With Standard Cruciate-Retaining Implants | David Leandro Dejtiar, PhD | Materialise, Leuven, Belgium |
| Can the Use of Preoperative Planning Decrease Costs and Increase Efficiency in the OR? | Alessia Lavin, MD | University of Miami, Weston, Florida, USA |
| Discussion | | |
| Pelvic Tilt Alters Radiographic Measurement of Pre- to Post-Operative Limb Length Change in Total Hip Arthroplasty | Jeff Muir, MSc | Intellijoint Surgical, Waterloo, Ontario, Canada |
| An Autonomous Method for Extracting 3D Knee Replacement Kinematics From Dynamic Single Plane Fluoroscopic Images | Andrew Jensen, PhD Student | University of Florida, Gainesville, Florida, USA |
| Discussion | | |
| GPS Navigation System Allows the Surgeon to Prepare the Implant Site as Planned on Preoperative Software in Reverse Shoulder Arthroplasty. | Andrea Giorgini, MD | Policlinico di Modena, Modena, Italy |
| Emergence of Robotic Testing as a Next Generation Approach for Glenohumeral Joint Characterization | Kyle Snethen, PhD | Zimmer Biomet, Warsaw, Indiana, USA |
| Using Imageless Navigation to Quantify Cutting Error in Total Knee Arthroplasty | Ran Schwarzkopf, MD, MSc | New York University Langone, New York, New York, USA |
| Discussion | | |
| **Clinical Technology Watch List** | **Peter Walker, PhD** | **New York University, New York, New York, USA** |
| | **Arun Mullaji, FRCSEd, MCh Orth, MS Orth** | **Mullaji Knee Clinic, Mumbai, Maharashtra, India** |
| Can Cobalt be Eliminated from Articulating Surfaces? | Leo Whiteside, MD | Missouri Bone & Joint Center, St Louis, Missouri, USA |
| Discussion | | |
| What Can Registries Tell Us in 2021? | David Lewallen, MD | Mayo Clinic, Rochester, Minnesota, USA |
| Discussion | | |
| The Key to Clinical Adoption of New Technologies: The Hub Concept | Solomon Dadia, MD | Tel Aviv Medical Center, Tel Aviv, Israel |
| Discussion | | |
| Digital Medicine and Wearable Sensors: Is there Real Value? | Matthias Verstraete, PhD | Stryker, Amsterdam, Netherlands |
| Discussion | | |
| Hip Resurfacing Rides Again! Why & How? | Catherine Van Der Straeten, MD, PhD | Ghent University, Ghent, Belgium |
| Discussion | | |
| Computerized Pre-Operative Planning for THA | Nobuhiko Sugano, MD, PhD | Osaka University, Osaka, Japan |
| Discussion | | |
| **Achieving Optimal Outcomes in Joint Arthroplasty** | **Sophia Sangiorgio, PhD** | **University of California, Los Angeles, Los Angeles, California, USA** |
| | **Morteza Meftah, MD** | **New York University Langone, New York, New York, USA** |
| Using an Arthroplasty Registry to Drive Quality Changes | David Markel, MD | CORE Institute, Novi, Michigan, USA |
| Discussion | | |
| Joint Balance Throughout Flexion Has Greater Impact on One Year Pain Outcome Than Component Alignment in TKA | Edgar Wakelin, PhD | Corin, Raynham, Massachusetts, USA |
| Does Internal Rotation of the Femoral TKA Component Influence Patient Outcomes? | Robert Marchand, MD | South County Orthopedic, South County, Rhode Island, USA |
| Discussion | | |
| Residual Varus Alignment Can Reduce Joint Awareness, Restore Joint Parallelism, and Preserve the Soft Tissue Envelope During Total Knee Arthroplasty for Varus Osteoarthritis | Dae Keun Suh, MD | Korea University School of Medicine, Seoul, South Korea |
| Assessing Correlations Between Patient-Reported Outcomes and Knee Kinematics Following TKA Procedure | Michael LaCour, PhD | University of Tennessee, Knoxville, Knoxville, Tennessee, USA |
| Discussion | | |
| Revision Total Knee Arthroplasty With the Use of Restricted Kinematic Alignment Protocol: Surgical Technique and Initial Results | Lazaros Kostretzis, MD | University of Montreal, Montreal, Quebec, Canada |
| Monoblock Press-Fit Cups With Large-Diameter Bearings Are Safe for THA in Patients With Atypical Acetabula. a Case Series of 125 Hips With Nine Years Average Follow-Up | Presenter: Paul-Andre Synnott, MD<br>Discusser: Maged Shaheen, MD | University of Montreal, Montreal, Quebec, Canada |
| Obese Patients With BMI 35 and Above Undergoing Cementless Total Knee Arthroplasty Have Similar Clinical Outcomes and Survivorship | Graham Goh, MRCS | Rothman Institute, Philadelphia, Pennsylvania, USA |
| Discussion | | |
| **Emerging Technologies** | **Philip Noble, PhD** | **University of Texas at Houston, Houston, Texas, USA** |
| | **Matthew Hepinstall, MD** | **New York University Langone, New York, New York, USA** |

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| AI & Machine Learning | Valentina Pedoia, PhD | University of California San Francisco, San Francisco, California, USA |
| Discussion | | |
| Enhanced Reality for Orthopaedic Training | Kartik Logishetty, PhD | Imperial College London, London, United Kingdom |
| Discussion | | |
| Translational Research is Great, but how do we Fund it? | Douglas Van Citters, PhD | Dartmouth, Hanover, New Hampshire, USA |
| Discussion | | |
| Applications of 3D Printing in Arthroplasty | Solomon Dadia, MD | Tel Aviv Medical Center, Tel Aviv, Israel |
| Discussion | | |
| Clinical Realization of Augmented Reality Guidance in THA | Stephen Murphy, MD | New England Baptist Hospital, Boston, Massachusetts, USA |
| Discussion | | |
| Computerized TKA Balancing | John Keggi, MD | Orthopaedics New England, Waterbury, Connecticut, USA |
| Discussion | | |
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| **TKA: Biomechanics**<br>***Are "Normal Knee Kinematics" of Critical Importance after TKA?*** | **Bill Taylor, PhD** | **ETH Zurich, Zurich, Switzerland** |
| | **Jim Pritchett, MD** | **University of Washington, Seattle, Washington, USA** |
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| **TKA: Clinical Results**<br>***Has New Technology Improved the Outcome of TKA?*** | **Scott Banks, PhD** | **University of Florida, Gainesville, Florida, USA** |
| | **Morteza Meftah, MD** | **New York University Langone, New York, New York, USA** |
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| **THA: Biomechanics**<br>***When are Dual Mobility Cups Really Necessary?*** | **Ken Mathis, MD** | **University of Texas at Houston, Houston, Texas, USA** |
| | **Jonathan Jeffers, PhD** | **Imperial College London, London, United Kingdom** |
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| **Robotic Assistance in TJA**<br>***When do Robotics Add Value to TJA? Are Changes Needed?*** | **Bernard Stulberg, MD** | **St Vincent Charity Medical Center, Cleveland, Ohio, USA** |
| | **Mark Pagnano, MD** | **Mayo Clinic, Rochester, Minnesota, USA** |
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| **Computational Modeling**<br>***Is Experimental Validation Keeping up with the Sophistication of Computational Modeling?*** | **Carl Imhauser, PhD** | **Hospital for Special Surgery, New York, New York, USA** |
| | **Jeff Bischoff, PhD** | **Zimmer Biomet, Warsaw, Indiana, USA** |
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| **Shoulder Arthroplasty**<br>***Technological Advances in Total Shoulder Arthroplasty: Fixation and Component Positioning*** | **Joseph Iannotti, MD, PhD** | **Cleveland Clinic, Weston, Florida, USA** |
| | **Vani Sabesan, MD** | **Atlantis Orthopedics, Boca Raton, Florida, USA** |