



COA/CORS Posters
All Posters will be on display in the
Exhibit Hall Foyer and Registration Foyer

FEATURED POSTERS

ORS NIRA Reward Recipient

FP 1 - Highly Efficient Stepwise Differentiation of Human iPSCs into Chondrocytes

Chia-Lung Wu, MO; Amanda Dicks, MO; Nancy Steward, MO; Shaunak Adkar, MO; Vincent Willard, MO; Farshid Guilak, MO

Canadian Spine Society Top Scoring Poster

FP 2 - Fellow's Best Paper Award: Safety and Efficacy of Silver Alloy Coated Urinary Catheters in Patients with Acute Traumatic Cervical Spinal Cord Injury

Hanbing Zhou, BC; Leanna Ritchie, BC; Lisa Belanger, BC; Brian Kwon, BC; Tamir Ailon, BC; Nicolas Dea, BC; Marcel Dvorak, BC; Charles Fisher, BC; Scott Paquette, BC; John Street, BC

COA High Scoring Posters: Spine

FP 3 - Adult Spinal Surgery in Patients with Previous Total Hip Arthroplasty: Should We Fuse the Spine First?

Emmanuel Illical, NY; Bassel Diebo, NY; George Beyer, NY; Qais Naziri, NY; Preston Grieco, NY; Roby Abraham, NY; Aditya Maheshwari, NY; Virginie Lafage, NY; Frank Schwab, NY; Carl Paulino, NY

FP 4 - Dynamic, Three-dimensional Analysis of Gait Patterns Before and After Adolescent Idiopathic Scoliosis Surgery

Emmanuel Illical, NY; Bassel Diebo, NY; Jeffrey Varghese, NY; Renaud Lafage, NY; Ziad Bakouny, Lebanon; Ellen Godwin, NY; Virginie Lafage, NY; Frank Schwab, NY; Carl Paulino, NY

FP 5 - Vertebral Osteomyelitis: A Comparison of Outcomes in Patients with Early versus Delayed Surgical Treatment

Emmanuel Illical, NY; Frank Segreto, NY; George Beyer, NY; Joshua Lavian, NY; Patrick Mixa, MD; Qais Naziri, NY; William Urban, NY; Peter Passias, NY; Carl Paulino, NY; Bassel Diebo, NY

COA Posters: Spine

FP 6 - Clinical Practice Variation (CPV) in Informed Consent for Lumbar Spine Surgery

Kunal Bhanot, ON; Eric Crawford, ON; Gary Rosenberg, ON; Zachary Tan, ON; Albert J.M. Yee, ON



FP 7 - Comparing the Effect of Arthroplasty versus Fusion Surgery on Overall Health Status in Patients with Degenerative Disc Disease
Kim Vu, ON; Stephen Kingwell, ON; Philippe Tran Nhut Phan, ON; Alexandra Stratton, ON; Darren Roffey, ON; Mohamad Hoda, ON; Eugene Wai, ON; Peter F. Jarzem, QC

FP 8 - Fibular Allograft as a Salvage Option in Revision Pedicle Screw Fixation
Hossein Kamal Elgafy, OH; Nathaniel Lempert, OH; Rowida Kheireldin, OH

FP 9 - Is Posterior Minimally Invasive Discectomy for Giant Central Calcified Thoracic Disc Herniation Feasible and Safe?
Zhi Wang, QC; Amer Sebaaly, QC; Ghassan Boubez, QC; Daniel Shedid, QC; Francis Abed Rabbo, QC

FP 10 - Pain Catastrophizing Behaviour can be Associated with Poorer Clinical Outcomes
Edward P. Abraham, NB; Erin Bigney, NB; Kate Ellis, NB; Eden Daly, NB; Neil Manson, NB

FP 11 - Patient-Specific Rod Contouring Templates: Technique Description and Feasibility Study
Markian Pahuta, MI; Stephen J. Lewis, ON

FP 12 - Relationship Between Spinal Curvature, Physical State, and Mental Status in an Underserved Population with Adolescent Idiopathic Scoliosis
Emmanuel Illical, NY; Bassel Diebo, NY; Baron Lonner, NY; Frank Segreto, NY; James Messina, NY; Harleen Kaur, NY; Karen Paltoo, NY; Qais Naziri, NY; Carl Paulino, NY

FP 13 - The Impact of Mental Health Disorders on Complications Following Adult Spinal Deformity Surgery with Minimum Two-year Surveillance
Emmanuel Illical, NY; Bassel Diebo, NY; Joshua Lavian, NY; Shian Liu, CA; George Beyer, NY; Frank Segreto, NY; Dennis Vasquez-Montes, NY; Peter Passias, NY; Carl Paulino, NY

FP 14 - The Impact of Mental Health Disorders on Complications Following Cervical Spine Surgery with Minimum Two-year Surveillance
Emmanuel Illical, NY; Bassel Diebo, NY; Shian Liu, CA; Joshua Lavian, NY; Neil V. Shah, NY; Qais Naziri, NY; Virginie Lafage, NY; Frank Schwab, NY; Peter Passias, NY; Carl Paulino, NY

FP 15 - Treatment of Early Onset Scoliosis Using Protocol of Frequent, Small Increment Lengthenings of Magnetic Spinal Growing Rods
J. Ivan Krajbich, OR

COA HIGH SCORING POSTERS

Adult Reconstruction Hip

HS 1 - Categorizing the Hip-Spine Syndrome: A Step Toward a Collaborative Multi-disciplinary Classification

Emmanuel Illical, NY; Bassel Diebo, NY; Louis Day, NY; Renaud Lafage, NY; Peter Passias, NY; Carl Paulino, NY; Thomas Errico, NY; Frank Schwab, NY; Virginie Lafage, NY

HS 2 - Impact of Bearing Couple on Long-term Component Survivorship for Primary Cementless Total Hip Replacements in a Large Arthroplasty Registry

Amit Atrey, ON; Barbara Bordini, Italy; Cristina Ancarani, Italy; David Fitch, TN

Adult Reconstruction Knee

HS 3 - Ten-year Mortality and Revision after Total Knee Arthroplasty in Morbidly Obese Patients

Mina Tohidi, ON; Susan Brogly, ON; Katherine Lajkosz, ON; Heather Grant, ON; Elizabeth VanDenKerkhof, ON; Aaron Campbell, ON

HS 4 - The Effect of Age on Adverse Outcomes in Total Knee and Total Hip Arthroplasty: A Multi-centre Retrospective Comparative Study

Daniel You, AB; Denis Joly, AB; Irfan Abdulla, BC; Saboura Mahdavi, AB; Hoa Khong, AB; Rajrishi Sharma, AB

Critical Issues

HS 5 - Opioid Use in Surgical Spine, Hip and Knee Osteoarthritis Patients: Correlates and Impact on Post-surgical Pain

Raja Y. Rampersaud, ON; J. Denise Power, ON; Anthony V. Perruccio, ON; Rajiv Gandhi, ON; Christian Veillette, ON; J. Rod Davey, ON; Stephen J. Lewis, ON; Khalid Syed, ON; Nizar N. Mahomed, ON

Hand & Wrist

HS 6 - Improvement in Sleep Quality Following Carpal Tunnel Release

Emmanuel Illical, NY; Arie Trouw, NY; Andrew Yang, NY; John Kelly, NY; Harleen Kaur, NY; Karan Dua, NY; Daniel Caligiuri, NY; Jack Choueka, NY; Danielle Casagrande, NY

HS 7 - Surgical Outcomes of Chronic Isolated Scapholunate Interosseous Ligament Injuries: A Meta-analysis of 805 Wrists

Spencer Montgomery, AB; Natalie Rollick, NY; Jeremy Kubik, AB; Alex Meldrum, AB; Neil White, AB

Paediatrics

HS 8 - A Systematic Review and Meta-analysis on the Reproducibility of Ultrasound-Based Metrics for Assessing Developmental Dysplasia of the Hip

Emily Schaeffer, BC; Niamul Quader, BC; Antony Hodgson, BC; Rafeef Abugharbieh, BC; Kishore Mulpuri, BC



HS 9 - Development of a Standardized Classification System for the Diagnosis of Developmental Dysplasia of the Hip in Infants
Emily Schaeffer, BC; Wudbhav Sankar, PA; Kishore Mulpuri, BC

HS 10 - The Effect of Antibiotic Timing on Culture Yield in Pediatric Osteoarticular Infection
Katie Rooks, SK; Michael Van Der Merwe, New Zealand; Matthew Boyle, New Zealand

HS 11 - The Effect of the Type of Screw Fixation on Proximal Femoral Growth in the Treatment of Slipped Capital Femoral Epiphysis
Katie Rooks, SK; Michael Van Der Merwe, New Zealand; Tyler Rudolph, New Zealand; Matthew Boyle, New Zealand

Sports

HS 12 - Bone Marrow Stimulation Decreases Re-tear Rates Following Primary Arthroscopic Rotator Cuff Repair: A Systemic Review and Meta-analysis

Prabjit Ajrawat, ON; Tim Dwyer, ON; Mahmoud Almasri, ON; Christian Veillette, ON; Anthony Romeo, IL; Timothy Leroux, ON; John S. Theodoropoulos, ON; Aaron Nauth, ON; Patrick Henry, ON; Jaskarndip Chahal, ON

HS 13 - No Difference Between Full-thickness and Partial-thickness Quadriceps Tendon Autograft in Anterior Cruciate Ligament Reconstruction: A Systematic Review

Darren de SA, ON; Michelle Arakgi, NS; Ajay C. Kanakamedala, PA; Obianuju U. Obioha, PA; Bryson P. Lesniak, PA; Volker Musahl, ON

Trauma

HS 14 - Outcomes of Early versus Late Postoperative Weightbearing in Patients Undergoing Surgical Fixation of Ankle Fractures: A Systematic review and Meta-analysis

Niloofar Dehghan, AZ; Emil H. Schemitsch, ON; Michael D. McKee, ON

HS 15 - The Utility of Head CT Scan in Geriatric Patients with Hip Fracture Following a Low Energy Injury Mechanism

Kajeandra Ravichandiran, ON; James Hilliard Allen, ON; Terry-Lyne McLaughlin, ON; Christine MacDonald, ON; James L. Howard, ON; Edward M Vasarhelyi, ON

Tumour

HS 16 - Component Fracture in the Kotz Modular Femoral Tibial Reconstruction System: An Under Reported Complication

Tyler Hauer, ON; Matthew Thomas Houdek, MN; Anthony M Griffin, ON; Jay S. Wunder, ON; Peter Ferguson, ON

Upper Extremity (Shoulder and Elbow)

HS 17 - High Levels of Pain Catastrophizing Correlate with Poorer Patient-reported Disease Severity in Preoperative Rotator Cuff Patients

Marlis Sabo, AB; Justin LeBlanc, AB; Eric Gibson, AB

COA POSTERS

Adult Reconstruction Hip

COA 1 - A Comprehensive Systematic Review Comparing the Diagnostic Accuracy Performance of Blood Markers, Synovial fluid and Tissue Testing in Periprosthetic Joint Infections

Olivier Gauthier-Kwan, ON; Alexandra Catherine Bunting, ON; Paul Gauthier, ON; Nadera Ahmadzai, ON; Wei Cheng, ON; Beverley Shea, ON; Paul E. Beaulé, ON; Hesham Abdelbary, ON; Alberto Carli, ON

COA 2 - A Prospective Comparative Study on Functional Outcome of Core Decompression Plus Stem Cell Therapy versus Core Decompression Alone in Treatment of a Vascular Necrosis of Hip Joint Grade II & III a Clinical Follow Up for Two Years

Ahmed Alkhuzai, Iraq

COA 3 - A Systematic Review and Meta-analysis of Revision Rates and Functional Outcome Scores for Severely, Morbidly, and Super-obese Primary Total Hip Arthroplasty Patients

Edward Vasarhelyi, ON; Karthik Ponnusamy, IL; Jacquelyn Marsh, ON; Richard W. McCalden, ON; Lyndsay Somerville, ON

COA 4 - Assessing the Weight Bearing Surface in Dysplastic Acetabulae: The Sourcil Index

John Horberg, IL; R. David Graham, IL; Timothy Mikesell, IL; D. Gordon Allan, IL

COA 5 - Comparison of Physiological Responses during Lateral and Anterior Approach Total Hip Arthroplasty

Sarantis Abatzoglou, QC; Kevin Milne, ON; Emily Dobbin, ON; Edward M Vasarhelyi, ON; James L. Howard, ON; Brent Lanting, ON

COA 6 - Dislocation Following Revision Total Hip Arthroplasty Using Direct Lateral Approach

Eric Grayson, ON; Brent Lanting, ON; Douglas Naudie, ON; Steven James Michael MacDonald, ON; Edward M Vasarhelyi, ON; Richard W. McCalden, ON; James L. Howard, ON;

COA 7 - End Stage Renal Failure (ESRF) is an Independent Predictor of One-year Mortality after Hip Fracture Surgery

Louise Woon Theng Lo, Singapore; Yanling Xu, Singapore; Joyce Suang Bee Koh, Singapore; Tet Sen Howe, Singapore; John Allen Carson, Singapore; Ngai Nung Lo, Singapore

COA 8 - Fixation Options Following Greater Trochanteric Osteotomies and Fractures in Total Hip Arthroplasty: A Systematic Review

Ying Jia Gong, ON; Xin Y. Mei, ON; Oleg A. Safir, ON; Allan E. Gross, ON; Paul Robert Kuzyk, ON



COA 9 - Impact of Preoperative Spino-pelvic Alignment on Outcomes of Total Hip Arthroplasty

Emmanuel Illical, NY; Bassel Diebo, NY; Patrick Mixa, MD; Matthew Harb, NY; Qais Naziri, NY; Frank Segreto, NY; Virginie Lafage, NY; Frank Schwab, NY; Aditya Maheshwari, NY; Carl Paulino, NY

COA 10 - Impact of Shelf Time on Hardness of Retrieved Irradiated Remelted Highly Cross-linked Polyethylene Acetabular Liners: A Validation Study

Gurpreet Singh, OR; Ariful Islam, ON; Robert Klassen, ON; James L. Howard, ON; Douglas Naudie, ON; Matthew Teeter, ON; Brent Lanting, ON

COA 11 - Pain Perception in Hip Osteoarthritis

James Powell, AB; Pamela L. Railton, AB; Andrew Delaney, Australia; Judith Anderson, Australia

COA 12 - Pelvic Positioning is More Reliable in the Supine Position, Leading to More Consistent Cup Orientation After Total Hip Replacement

Paul E. Beaulé, ON; George Grammatopoulos, ON; Wade Gofton, ON; Michael Cochran, NB; Johanna Dobransky, ON; Alberto Carli, ON; Hesham Abdelbary, ON; Harinderjit Gill, United Kingdom

COA 13 - Perioperative Systemic Glucocorticoids in Total Hip and Knee Arthroplasty: A Systematic Review of Outcomes

Anthony Habib, ON; Jeffrey Hartman, ON; Vickas Khanna, ON; Forough Farrokhyar, ON; Muzammil Memon, ON; Anthony Adili, ON

COA 14 - Results of Hip Arthroplasty in Patients with Chronic Renal Failure on Dialysis

Jung Sub Lee, South Korea; Eun Sung Lee, South Korea; Won Chul Shin, South Korea; Nam Hoon Moon, South Korea; Kuen Tak no Suh, South Korea

COA 15 - Safety and Effectiveness of the Direct Anterior Approach for Total Hip Arthroplasty: A Decade's Experience at a Tertiary Care Centre

Mazen Ibrahim, ON; Wade Gofton, ON; Robert J. Feibel, ON; Paul R. Kim, ON; Johanna S Dobransky, ON; Paul E. Beaulé, ON

COA 16 - The Borderline Dysplastic Hip: Arthroscopy or PAO?

Paul E. Beaulé, ON; George Grammatopoulos, ON; Cecilia Pascual-Garrido, MO; Jeffrey Nepple, MO; Christopher Larson, MN; Asheesh Bedi, MI; John Clohisy, MO

Adult Reconstruction Knee

COA 17 - A Systematic Review and Meta-analysis of Revision Rates and Functional Outcome Scores for Severely, Morbidly, and Super-obese Primary Total Knee Arthroplasty Patients

Edward Vasarhelyi, ON; Karthik Ponnusamy, GA; Lyndsay Somerville, ON; Richard W. McCalden, ON; Jacquelyn Marsh, ON

COA 18 - Cement Waste during Primary Total Knee Arthroplasty and Its Effect on Costs: A Single Institution Analysis

James Yan, ON; Stephan Mark Oreskovich, ON; Kayode Olajide Oduwale, ON; Nolan Horner, ON; Vickas Khanna, ON; Anthony Adili, ON

COA 19 - Defining Obesity in Total Joint Arthroplasty: A Scoping Review
Colleen Weeks, AB; Behnam Sharif, AB; Christopher Smith, AB; Deborah Marshall, AB

COA 20 - Does Recession of the Posterior Cruciate Ligament Influence Outcome in Total Knee Arthroplasty?
Charles-Antoine Dion, ON; James L. Howard, ON; Lyndsay Somerville, ON; James P. McAuley, ON

COA 21 - Fresh Tibial Osteochondral Allografts for Failed Tibial Plateau Fractures: Long-term Follow-up
Sebastian Leon, ON; Mansour Abolghasemian, Iran; Jennifer Leighton, ON; Oleg A. Safir, ON; Allan E. Gross, ON; Paul Robert Kuzyk, ON

COA 22 - Functional and Radiological Difference in Outcome between Use of Intramedullary versus Extramedullary Tibial Alignment Guide for Total Knee Replacement
Nemandra Sandiford, United Kingdom; Bansal Mohit, United Kingdom; Peter Earnshaw, United Kingdom; Diane Back, United Kingdom

COA 23 - Functional Self-reported Outcomes are Similar at one-year Between Outpatient and Inpatient Cohorts
Geoffrey Dervin, ON; Johanna Dobransky, ON; Kristina Vogel, ON; Cheryl Kreviazuk, ON; Waleed Albishi, QC

COA 24 - *In vivo* Polyethylene Wear Measurement at 11-years Following Total Knee Replacement: A Pilot Study
Douglas Naudie, ON; Jacob Wihlidal, ON; Richard W. McCalden, ON; Brent Lanting, ON; Steven James Michael MacDonald, ON; Matthew Teeter, ON

COA 25 - Increasing BMI in Primary and Revision Total Knee Arthroplasty; Influencing Length of Stay, Complications and Adverse Events: A Retrospective Review
Irfan Abdulla, BC; Hoa Khong, AB; Saboura Mahdavi, AB; Kelly Johnston, AB; James N. Powell, AB; Rajrishi Sharma, AB

COA 26 - Outcome of Debridement, Antibiotics and Implant Retention in Prosthetic Joint Infections
Bas A. Masri, BC; Yuvraj Agrawal, United Kingdom; Nelson V. Greidanus, BD; Donald Garbuz, BC; Clive P. Duncan, BC

COA 27 - Patellar Height Changes Following Primary Total Knee Arthroplasty
Veronique Drapeau-Zgoralski, QC; Maher Baroudi, QC; Michel Malo, QC; George Yves Laflamme, QC; Benoit Benoit, QC

COA 28 - Patient Satisfaction and Resource Use after Total Knee Arthroplasty
Jacquelyn Marsh, ON; Lyndsay Somerville, ON; Arusha Sood, ON; Brent Lanting, ON



COA 29 - The Influence of Posterior Condylar Offset on Mid-flexion Instability and Contact Kinematics in Total Knee Arthroplasty
Jared Webster, ON; Matthew Teeter, ON; James L. Howard, ON; Brent Lanting, ON

COA 30 - Total Knee Arthroplasty Infections: The Saskatoon Experience
Matthew Mastel, SK; Alex Lei, SK; Anthony E. King, SK

COA 31 - Utility of the Skyline Radiograph in the Assessment of Malrotation in the Painful Total Knee Arthroplasty: A Radiographic Review
Colleen Weeks, AB; Hector Aguilar, AB; Jacob Jaremko, AB; Catherine Hui, AB

Critical Issues

COA 32 - Can Pain Catastrophizing Be Changed in Surgical Patients?: A Scoping Review
Marlis Sabo, AB; Eric Gibson, AB

COA 33 - Cannabinoids in the Management of Musculoskeletal Pain: A Scoping Review of the Evidence
Kim Madden, ON; Niek Van Der Hoek, Netherlands; Simrun Chona, ON; Annie George, ON; Tristiana Dalchand, ON; Hassan Baldawi, ON; George Mammen, ON; Mohit Bhandari, ON

COA 34 - Do Post-debridement Cultures Taken in Cases of Prosthetic Joint Infection Reflect Procedural Success?
Mehul Garach, ON; Brent Lanting, ON; Edward M Vasarhelyi, ON; Steven J.M. MacDonald, ON; Douglas Naudie, ON; Richard W. McCalden, ON; James L. Howard, ON

COA 35 - The Risks of Shoe Contamination in an Orthopaedic Theatre
Kevin Clesham, Ireland; Phelim Ryan, Ireland; Colin Murphy, Ireland

Education / Quality & Safety

COA 36 - An Assessment of Randomized Controlled Trial Quality in the Journal of Bone and Joint Surgery – Update from 2001 - 2013
Daniel B. Whelan, ON

COA 37 - Developing Metrics for Simulated Surgical Training by Proficiency-Based Progression
Pierre Guy, BC; Matthew Graves, MS; Michael Baumgaertner, CT; Kevin Inkpen, BC; Anthony Gallagher, Ireland

COA 38 - Development of an Instrument to Assess Surgical Trainee Experiences of StresS in the Operating Room (STRESSOR)
Richard Ng, United Kingdom; Saad Chahine, ON; Brent Lanting, ON; James L. Howard, ON

COA 39 - Identifying Care Gaps in the Secondary Prevention of Fragility Fracture of the Hip
Maia Von Maltzahn, ON; Geoffrey H. Johnston, SK; Samuel Stewart, NS



COA 40 - Resiliency in the Operating Room: Exploring Trainee Stress During Surgery and the Role of Individual Resilience

Richard Ng, United Kingdom; Saad Chahine, ON; Brent Lanting, ON; James L. Howard, ON

COA 41 - Trends and Variations in the Quality of Hip Fracture Care in Ontario Hospitals from 2011 to 2015: Examining Results from a Provincial Hospital Scorecard

James P. Waddell, ON; Josian Petgrave, ON; Vanessa Willson, ON; Erik Hellsten, ON

Foot & Ankle

COA 42 - Accuracy of Transarticular Lateral Soft Tissue Release of the 1st Metatarsophalangeal Joint – A Cadaver Study

Lauren Roberts, BC; Cesar de Cesar Netto, NY; Scott J Ellis, NY; Ashish Shah, AL

COA 43 - Analysis of Congruency for Talar Dome Geometry among Tali of Different Sizes

Nadr M. Jomha, AB; Devon Stone, AB; Samer Adeeb, AB

COA 44 - Does Patient-specific Instrumentation Perform Better Than Non Patient-specific Instrumentation in Total Ankle Arthroplasty?

A Radiological Analysis

Mario Escudero, BC; Kevin John Wing, BC; Feras Waly, BC; Thomas Bemenderfer, NC; Hodges Davis, NC; Robert Anderson, BC; Murray J Penner, BC

COA 45 - Institutional Costs Associated with Ankle Fusion Non-union

Oliver Gagne, BC; Andrea Veljkovic, BC; Murray J Penner, BC; Kevin John Wing, BC; Alastair S.E. Younger, BC

COA 46 - Intermediate-term Outcomes of Intramedullary Total Ankle Arthroplasty

Jane Yeoh, BC; G. Andrew Murphy, TN; David Richardson, MS; Benjamin Gear, TN; Brandon Taylor, FL; Stephen Chambers, TN

COA 47 - Intra-articular Injections in the Treatment of Symptoms from Ankle Arthritis: A Systematic Review

Brad Petrisor, ON; Christopher Vannabouathong, ON; Gina Del Fabbro, ON; Brendan Sales, ON; Christopher Smith, ON; Silvia Li, ON; Darryl Yardley, ON; Mohit Bhandari, ON

COA 48 - Percutaneous Posterior to Anterior Screw Fixation of the Talar Neck: Soft Tissue Structures at Risk

Lauren Roberts, BC; Cesar de Cesar Netto, NY; Scott J Ellis, NY; Ashish Shah, AL

COA 49 - Sagittal Talar Position and Its Relation with Clinical Outcomes and Failure in Mobile Total Ankle Replacements

Mario Escudero, BC; Vu (Brian) Hoan Le, BC; Peter Salat, AB; Murray J Penner, BC; Kevin John Wing, BC; Alastair S.E. Younger, BC; Andrea Veljkovic, BC



COA 50 - The Impact Preoperative Knee Pain on Ankle Arthroplasty and Ankle Arthrodesis

Michael Symes, BC; Kevin John Wing, BC; Alastair S.E. Younger, BC; Murray J Penner, BC; Andrea Veljkovic, BC

COA 51 - The Other Adjacent Joint: The Effect of Ankle Arthroplasty and Ankle Arthrodesis on the Development of Post Operative Knee Pain

Michael Symes, BC; Kevin John Wing, BC; Alastair S.E. Younger, BC; Murray J Penner, BC; Andrea Veljkovic, BC

COA 52 - The Reliability and Validity of Percent Fusion After Ankle Fusion Based on CT Scan Assessment

Alastair S.E. Younger, BC; Kevin John Wing, BC; Andrea Veljkovic, BC; Murray J Penner, BC; Feras Waly, BC; Peter Salat, AB; Mark Glazebrook, NS; Nic Yeo, Singapore

COA 53 - Comparison of Outcomes of Cement Augmented versus Press Fit Laterally Placed Trabecular Metal Total Ankle Arthroplasty

Alastair S.E. Younger, BC; John Ellington, NC; Steven Raikin, PA; Don Bohay, MI; Eric Giza, CA; Federico Useelli, Italy; Fabian Krause, Switzerland; Hannu Tiusanen, Finland; Lars Frauchiger, Switzerland; Theodor Patsalis, Germany

Hand & Wrist

COA 54 - An *in vitro* Biomechanical Investigation of Distal Radius and Ulna Loading during Active Dart Throw Motion

Martine McGregor, ON; Ahaoiza Diana Isa, NB; G Daniel Langohr, ON; Nina Suh, ON; Graham J.W. King, ON; James A. Johnson, ON

COA 55 - Can Bone Microarchitecture Inform Optimal Immobilization Duration of Distal Radius Fractures?

Cory Kwong, AB; Danielle Whittier, AB; Robert Korley, AB; Steven Boyd, AB; Prism Schneider, AB

COA 56 - Inter-observer Variability of Four-dimensional CT (4DCT) for Assessment of Scapholunate Instability

Nicholas Chang, NL; John Hopkins, NL; Daniel Squire, NL; Andrew Furey, NL

COA 57 - Proximal Hamate Autograph for Scaphoid Proximal Pole Reconstruction: An Anthropometric Assessment

Clare Padmore, ON; Kitty Wu, ON; Nina Suh, ON

COA 58 - Soft-embalmed Models of Hand and Wrist Injuries for Musculoskeletal Teaching and Assessment of Stress-tests in Residency Education

Hailey Adler, ON; Michelle Zec, ON; Stephen Pang, ON

COA 59 - Tibial Nerve Transfer for Peroneal Nerve Injury; Case Series Describing Tibialis Anterior Reinnervation and Technical Modification for Restoration of Eversion Power

Geoffrey Jarvie, BC; Thomas J. Goetz, BC; Parham Daneshvar, BC

Paediatrics

COA 60 - Anterior Opening Wedge High Tibial Osteotomy for Recurvatum Deformity of the Proximal Tibia Secondary to Physeal Arrest

Maryse Bouchard, WA; John Bartoletta, WA; Tressa Mattioli Lewis, WA; Gregory Schmale, WA; Vincent S Mosca, WA

COA 61 - Assessing Health Related Quality of Life (HRQoL) in Cerebral Palsy (CP) Following Scoliosis Surgery: Is the CPCHILD Measuring What We Want?

Fahimeh Karimi, BC; Firoz Miyanji, BC; Luigi Nasto, BC; Tracey Bastrom, CA; Paul Sponseller, MD; Suken Shah, DE; Amer Samdani, PA; Michelle Marks, CA; Unni Narayanan, ON; Peter O. Newton, CA

COA 62 - Complication Rates of Anterior Cruciate Ligament Reconstruction in Skeletally Immature Patients with New Instrumentation

Marie-Lyne Nault, QC; Lydia Saad, QC; Guy Grimard, QC; Mathilde Hupin, QC

COA 63 - Dynamic Deformation of the Femoral Head Occurs During Weight Bearing in Early Legg–Calvé–Perthes Disease: A Pilot Study

Ryan Lohre, BC; Alexander Aarvold, BC; Angela Eugenio, BC; Harpeet Chhina, BC; Christopher W. Reilly, BC; David R. Wilson, BC; Kishore Mulpuri, BC; Anthony Cooper, BC

COA 64 - Growth and Remodelling of the Femoral Neck After *in situ* Fixation with a Growing Screw Construct

Ashlee Dobbe, BC; David J Little, Australia; Oliver H Birke, Australia; Paul J Gibbons, Australia

COA 65 - Hip Cartilage Disease in Adolescents with Healed Legg–Calvé–Perthes Disease

Kishore Mulpuri, BC; Carly Jones, BC; Tammie Teo, BC; Emily Schaeffer, BC; David R. Wilson, BC; Agnes d'Entremont, BC

COA 66 - Schedule Day Surgery for Type 2 Supracondylar Humerus Fractures at a Specialized Paediatric Centre: A Cost Minimization Analysis

Mark Camp, ON; Sultan Heebah, ON; Shawna Cronin, ON; Reham Abdelhalim, ON; Myla Moretti, ON; Daniel Pincus, ON; Rebecca Hancock-Howard, ON; Peter Coyte, ON

COA 67 - Significant Factors in the Development of Tight Cast Syndrome after Closed Reduction and Casting of Paediatric Distal Radius Fractures

Ali Turgut, Turkey; Serkan Erkuş, Turkey; Anil Koca, Turkey; Levent Payziner, Turkey; Ali Osman Çiçek, Turkey; Önder Kalenderer, Turkey

COA 68 - The Impact of Pamidronate on the Progression of Vertebral Fractures in Patients with Duchenne Muscular Dystrophy Undergoing Corticosteroid Treatment

Emily Schaeffer, BC; Miles Jaques, BC; Christopher W. Reilly, BC

COA 69 - Value is Significantly Reduced with Poor Outcomes and Increased Costs in Delayed Diagnosis and Treatment of Paediatric Septic Hip

J. Alexandra Mortimer, SK; Suzanne Yandow, WA; Viviana Bompadre, WA

Sports

COA 70 - Determining the Patient Acceptable Symptomatic State for Patients Undergoing Arthroscopic Partial Meniscectomy in the Knee.

Thomas Zochowski, ON; Tim Dwyer, ON; Darrell J. Ogilvie-Harris, ON; John S. Theodoropoulos, ON; Daniel B. Whelan, ON; David Wasserstein, ON; Jaskarndip Chahal, ON

COA 71 - Evidence for Hip Arthroscopy: Review of the Literature and Grading of Current Indications

Michelle Arakgi, NS; Danielle Nicole Lowe, AB; Ivan Wong, NS

COA 72 - Graft Fixation for All-soft Tissue Quadriceps Tendon Autograft in Anterior Cruciate Ligament Reconstruction: A Systematic Review

Darren de SA, ON; Ajay C. Kanakamedala, PA; Obianuju U. Obioha, PA; Bryson P. Lesniak, PA; Volker Musahl, ON

COA 73 - Meniscal Tears in Elite Athletes: A Systematic Review

Seper Ekhtiari, ON; Moin Khan, ON; Jacob M Kirsch, MI; Patrick Thornley, ON; Christopher Larson, MN; Asheesh Bedi, MI

COA 74 - Primary Allograft ACL Reconstruction in Skeletally Immature Patients – A Systematic Review of Surgical Techniques, Outcomes and Complications

Olufemi R. Ayeni, ON; Darren de SA, ON; Ajay Shanmugaraj, ON; Matthew Skelly, ON; Andrew Duong, ON; Volker Musahl, ON

COA 75 - Return to Sport Following Arthroscopic Bankart Repair: A Systematic Review

Olufemi R. Ayeni, ON; Muzammil Memon, ON; Jeffrey Kay, ON; Shayan Shahsavar, ON; Nicole Simunovic, ON

COA 76 - Soft-tissue and Bone-plug Quadriceps Tendon Autografts are Efficacious for Primary Anterior Cruciate Reconstruction: A Systematic Review

Darren de SA, ON; Obianuju U. Obioha, PA; Ajay C. Kanakamedala, PA; Steve H. Bayer, PA; David O. Osei-Hwedieh, PA; Bryson P. Lesniak, PA; Volker Musahl, ON

COA 77 - The Comparative Utility of MR-Arthrogram versus X-Ray and Clinical Findings for Diagnosing Labral Tears in Femoroacetabular Impingement (FAI)

Swagata Ghosh, NS; Hamid Abdihalim, NS; Ivan Wong, NS

COA 78 - Which Risk Factors Predict Outcome following Isolated MPFL-R? A Multivariate Regression Analysis

Laurie A. Hiemstra, AB; Sarah Kerlake, AB; Mark Lafave, AB

Trauma

COA 79 - Distal Radial Fractures in Women - Neurological Symptoms Matter

Jenna Mann, SK; Geoffrey H. Johnston, SK



COA 80 - Do Psychosocial Factors Affect Outcome Following Orthopaedic Trauma? A Systematic Review and Meta-analysis

Adrian Huang, ON; John Ibrahim, CA; Devin Conway, LA; Paul Toogood, CA; Jill Barr-Walker, CA; David Shearer, CA

COA 81 - Does the Risk of Soft Tissue Stripping Outweigh the Benefit? Dual versus Single Plate Fixation in Distal Femur Fractures

Natalie Rollick, NY; Jessica Bear, NY; Owen Diamond, NY; David Helfet, NY; Dean Lorich, NY; David Wellman, NY

COA 82 - Dynamic versus Static Fixation of Acute Syndesmosis Injuries: A Meta-analysis

Sahil Kooner, AB; Alick Wang, ON; Spencer Montgomery, AB; Herman Johal, ON

COA 83 - Extremity Trauma Results in Severe Coagulopathy and Impaired Fibrinolysis Based on Serial Rapid Thrombelastography

Prism Schneider, AB; Ioannis Liras, TX; Ellie Rahbar, NC; Mark Prasarn, TX; Joshua Gary, TX; Bryan Cotton, TX

COA 84 - Factors Associated with Living and Walking Independently Without the Use of Aids After Operative Management of Hip Fractures in the Elderly

Emil H. Schemitsch, ON; Sheila Sprague, ON; Martin Heetveld, Netherlands; Sofia Bzovsky, ON; Diane Heels-Ansdell, ON; Qi Zhou, ON; Marc Swiontkowski, MN; Mohit Bhandari, ON

COA 85 - Femoral Neck Fractures: How Long Should They Be Followed in Orthopaedic Clinic? An Analysis of North American Orthopaedic Surgeons

Abdullah AlThubayani, NS; Kelly-Ann Trask, NS; Shelley MacDonald, NS; Ross Kenneth Leighton, NS

COA 86 - Hip Hemiarthroplasty: Incidence and Predictors of Modes of Failure

Taranjit Tung, MB; Trevor C Gascoyne, MB; Thomas Turgeon, MB

COA 87 - Incidence of Hip Fracture in Rheumatoid Arthritis Compared to General Population Controls: a Population-based Study

Pierre Guy, BC; C. Allyson Jones, AB; Hui Xie, BC; Eric Sayre, BC; Diane Lacaille, BC

COA 88 - Medical Costs of Delayed Hip Fracture Surgery

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COA 89 - Modern Intramedullary Nails compared to Sliding Hip Screws in Patients with Intertrochanteric Hip Fractures: A Systematic Review and Meta-analysis

Harman Chaudhry, ON; Mark Phillips, ON; Christopher Vannabouathong, ON; Teegan Ignacy, ON; Justin Chiu, ON; Pei Ye Li, ON; Emil H. Schemitsch, ON; Mohit Bhandari, ON



COA 90 - Predictors of Complications Following Initial Treatment of Proximal Humerus Fractures: A Study of 32,839 Fractures

Lauren Nowak, ON; Michael D. McKee, ON; Emil H. Schemitsch, ON

COA 91 - The Effect of Endothelial Progenitor Cell (EPC) Therapy to Improve Fracture Healing in a Diabetic Rat Critical Size Defect Model

Hilary Gortler, ON; Charles Godbout, ON; Emil H. Schemitsch, ON; Aaron Nauth, ON

COA 92 - The Socio-economic Impact of a Femoral Neck Fracture on Patients Aged 18-50: A Population-based Study

Nathan O'Hara, MD; David J Stockton, BC; Christopher Stewart, CA; Lyndsay O'Hara, MD; Gerard Slobogean, MD

COA 93 - Which General Functional Outcome Measure Does a Better Job of Capturing Change in Clinical Status in Pelvic and Acetabulum Fracture Patients? An Analysis of Responsiveness Over the First Year of Recovery

Sebastian Ko, BC; Kelly Lefaivre, BC; Peter J. O'Brien, BC; Pierre Guy, BC; Abdullah A Mamun, BC; Henry M Broekhuysse, BC

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COA 94 - Favourable Oncologic and Functional Outcomes Following Treatment for Soft Tissue Sarcomas of the Hand

David Perrin, MB; Julia Visgauss, BC; David R. Wilson, BC; Matthew Thomas Houdek, MN; Anthony M Griffin, ON; Peter Ferguson, ON; Jay S. Wunder, ON

COA 95 - Midterm Follow-up of a Custom Non-fluted Diaphyseal Press-fit Tumour Prosthesis Stem

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COA 96 - Occupational Injuries Among Orthopaedic Oncology Surgeon

Krista Goulding, QC; Robert Turcotte, QC; Nathalie Ste-Marie, QC; Abdulrahman Alaseem, QC; Mohammad Mesfer Alzahrani, QC; Saad Al-Qahtani, ON

COA 97 - Practice and Perceptions of Orthopaedic Oncologists Toward Denosumab Therapy for Giant Cell Tumor of the Bone: Cross-sectional Survey

Krista Goulding, QC; Robert Turcotte, QC; Nathalie Ste-Marie, QC; Abdulrahman Alaseem, QC

COA 98 - Predictors of 30-day Reoperation Rate in Patients Treated with Surgical Resection of Soft Tissue Sarcoma: Analysis of 866 Patients from the ACS-NSQIP Database

Krista Goulding, QC; Robert Turcotte, QC; Nathalie Ste-Marie, QC; Nikolaos Stavropoulos, Greece

Upper Extremity (Shoulder and Elbow)

COA 99 - Changes in Humeral Bone Stress for Humeral Stems of Varying Length

Kenneth J. Faber, ON; G Daniel Langohr, ON; Jacob Reeves, ON; James A. Johnson, ON

COA 100 - Factors Associated with Ulnar Neuropathy After Bi-columnar Plate Fixation of Distal Humerus Fractures

Niloofer Dehghan, AZ; Milena Vicente, ON; Michael D. McKee, ON; Emil H. Schemitsch, ON

COA 101 - Factors Contributing to Glenoid Baseplate Micromotion in Reverse Shoulder Arthroplasty

Tiffany Lung, ON; David Cruickshank, BC; Heather Grant, ON; J. Timothy Bryant, ON; Michael Rainbow, ON; Ryan T Bicknell, ON

COA 102 - Hemiarthroplasty versus Total Shoulder Arthroplasty: A Retrospective Cohort Study

Meaghan Rollins, ON; Caleb Netting, ON; Carl Van Walraven, ON; Meltem Tuna, ON; Anan Bader Eddeen, ON; Peter Lapner, ON

COA 103 - Learning Strategies in Simulation-based Shoulder Arthroscopic Surgical Training

Giuseppe Valente, ON; Marie-Eve LeBel, ON; Gavin Buckingham, ON

COA 104 - Mid-to-long Term Outcomes of Convertible Total Elbow Arthroplasty for Patients with Rheumatoid Arthritis

Jason Strelzow, IL; Tym Frank, ON; Kevin Chan, MI; George Athwal, ON; Kenneth J. Faber, ON; Graham J.W. King, ON

COA 105 - Nonoperative Management of Type II Supracondylar Humerus Fractures in Children: A Prospective Comparative Study

Eva Habib, BC; Christopher W. Reilly, BC; Tammie Teo, BC; Emily Schaeffer, BC; Sasha Carsen, ON; Kishore Mulpuri, BC

COA 106 - Outcomes and Complications of Total Elbow Arthroplasty for the Treatment of Post-traumatic Conditions: Systematic Review and Meta-analysis

Khaled Alabbasi, SB; Nicholas Pasic, ON; Joy MacDermid, ON; George Athwal, ON; Graham J.W. King, ON; Kenneth J. Faber, ON

COA 107 - Outcomes Following Distal Triceps Tendon Repair

Andrea H.W. Chan, ON; Laura Kember, ON; Ruby Grewal, ON; Kenneth J. Faber, ON; George Athwal, ON; Graham J.W. King, ON

COA 108 - Outcomes of Convertible Total Elbow Arthroplasty for the Management of Post-traumatic Conditions

Tym Frank, ON; Jason Strelzow, IL; Graham J.W. King, ON; Kenneth J. Faber, ON; George Athwal, ON

COA 109 - Outcomes of Expedited Rotator Cuff Repair and Decompression in Injured Workers: Impact of Pathology on Physical and Mental Wellbeing

Gargi Singh, ON; Helen Mann, ON; Marni Wilson, ON; Deborah Shore, ON; Helen Razmjou, ON

COA 110 - Prevalence of Musculoskeletal Disorders Among Upper Extremity Surgeons

Saad Al-Qahtani, ON; Mohammad Mesfer Alzahrani, QC; David R. Pichora, ON; Ryan T Bicknell, ON



COA 111 - Progression of Bony Lesions of the Shoulder Following Recurrent Dislocations: A CT-case Series

Jason Strelzow, IL; Paul Stirling, United Kingdom; Mike Robinson, BC

COA 112 - Serum and Synovial-based tests have Substantially Inferior Performance for Diagnosing Periprosthetic Joint Infection in the Shoulder versus the Hip and Knee: Results from a Comparative Systematic Review

Hesham Abdelbary, ON; Alberto Carli, ON; Olivier Gauthier-Kwan, ON; Paul Gauthier, ON; Alexandra Catherine Bunting, ON; Wei Cheng, ON; Beverley Shea, ON; Nadera Ahmadzai, ON; Paul E. Beaulé, ON

COA 113 - The Effect of Glenoid Baseplate Screw Placement on Acromial Stress After Reverse Shoulder Arthroplasty

Jason Lockhart, ON; Murray Wong, ON; G Daniel Langohr, ON; George Athwal, ON; James A. Johnson, ON

COA 114 - The HGLS System is a Reliable Method for Classifying Proximal Humeral Fractures

Louis Bezuidenhout, AB; James McInnes, AB; Jacob Jaremko, AB; Lauren Beaupre, AB; Martin Bouliane, AB

CORS POSTERS

Arthroplasty

CORS 1 - An Evaluation of Utility and Safety of Total Hip Arthroplasty as An Outpatient Procedure

Megan Richards, ON; Paul E. Beaulé, ON; Jung-Kyong Kim, ON

CORS 2 - Comparison of *In vivo* Performance of Re-melted versus Annealed Highly-crossed Polyethylene in Total Hip Acetabular Liners Kathryn Culliton, ON; Alison Suraci, ON; Hakim Louati, ON; Wade Gofton, ON; Paul E. Beaulé, ON

CORS 3 - Computational Modeling Can Predict Muscle Wrapping Paths and Moment Arms Before and After Reverse Total Shoulder Arthroplasty Josie Elwell, NY; George Athwal, ON; Ryan Willing, ON

CORS 4 - Computed Tomography Analysis of Acetabular Component Anteversion after Total Hip Arthroplasty: Conventional Axial versus Functional Coronal Plane

Nam Hoon Moon, South Korea; Kuen Tak no Suh, South Korea; Won Chul Shin, South Korea; Jung Sub Lee, South Korea; Taesik TS Goh, South Korea

CORS 5 - Immunological Changes in Patients with a Well-functioning Metal-on-Metal Hip Implant

Isabelle Catelas, ON; Eric Lehoux, ON; Paul E. Beaulé, ON

CORS 6 - The Best Method for Evaluating Anteversion of the Acetabular Component after Total Hip Arthroplasty on Plain Radiographs

Kuen Tak Suh, South Korea; Won Chul Shin, South Korea; Jung Sub Lee, South Korea; Taesik TS Goh, South Korea

CORS 7 - The Effect of Glenoid Baseplate Screw Placement on Acromial Stress After Reverse Shoulder Arthroplasty

Jason Lockhart, ON; Murray Wong, ON; G Daniel Langohr, ON; George Athwal, ON; James A. Johnson, ON

CORS 8 - The Effect of Trabecular Material Model Selection on Finite Element Model Outcome Measures

G Daniel Langohr, ON; Jacob Reeves, ON; George Athwal, ON; James A. Johnson, ON

CORS 9 - Using Virtual Ligaments to Measure TKR Implant Sensitivity to Soft Tissue Imbalance *in vitro*

Ryan Willing, ON; Peter S. Walker, NY

CORS 10 - Validation of a Novel Patient Specific Guide-based Technique for Minimally Invasive Total Shoulder Arthroplasty

Joshua Giles, BC; Cyrus Broden, United Kingdom; Christine Tempelaere, United Kingdom; Ferdinando Rodriguez y Baena, United Kingdom



CORS 11 - Validation of Computational Predictions of Impingement-free Range of Motion and Stability of Reverse Total Shoulder Arthroplasty
Josie Elwell, NY; Melissa Simonik, NY; Ryan Willing, ON

CORS 12 - Wearable Sensors for Evaluating Total Knee Arthroplasty Patient Performance During the Timed up and go Functional Test
Matthew Teeter, ON; Riley Bloomfield, ON; Megan Fennema, ON; Jared Webster, ON; Harley Williams, ON; Douglas Naudie, ON; James L. Howard, ON; Brent Lanting, ON

Bone Ligament and Tendon

CORS 13 - A Spaceflight Bone Deconditioning Model for Predicting Mission-specific Fracture Risk
Steven Boyd, AB; Andrew Michalski, AB; Alan Feiveson, TX; Beth Lewandowski, OH; Shreyasee Amin, NY; Joyce Keyak, CA; Jean Sibonga, TX

CORS 14 - Magnetic Resonance Imaging Assessment of Acute Achilles Tendon Rupture Healing in Nonoperative Patients
Alicia Kerrigan, ON; Kevin Willits, ON; J. Robert Giffin, ON

Joints and Arthritis

CORS 15 - Contact Mechanics of the Scapholunate Joint During Simulated Clench Fist Following Sequential Sectioning of the Scapholunate Ligament and Secondary Stabilizers
Clare Padmore, ON; Helen L Stoesser, ON; G Daniel Langohr, ON; James A. Johnson, ON; Graham J.W. King, ON; Nina Suh, ON

CORS 16 - Development and Preliminary Results of a Haptic Wrist Control & Functional Assessment System
Joshua Giles, ON; Xianghua Liu, United Kingdom; Stuart Bowyer, United Kingdom

CORS 17 - Evaluation of Finger Kinematics to Measure Hand Function During Grip
Ahmed Tanashi, ON; Louis Ferreira, ON; Emily Lalone, ON

CORS 18 - Occult Intertrochanteric Fractures of the Femur Associated with Osteoporosis: Diagnostic Strategy and Clinical Results
Won Chul Shin, South Korea; Nam Hoon Moon, South Korea; Eun Sung Lee, South Korea; Jong Ki Shin, South Korea; Kuen Tak no Suh, South Korea

CORS 19 - Wearable Technology to Measure Forces in the Hand During Activities of Daily Living
Michael Riddle, ON; Joy MacDermid, ON; Sara Holland, ON; Emily Lalone, ON; Louis Ferreira, ON

DISCLOSURES

Disclosures for all presenters and co-authors (podium, poster, all other sessions)

***Authors who did not provide disclosure were removed from the program.**

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Dodd, Andrew b)
Dolan, Sean b)
Donnan, Alice b)
Donnan, Leo b)
Doucette, Steve b)
Dow, Todd b)
Drapeau-Zgoralski,
Véronique b)
Drosdowech, Darren S.
a) 1 – Depuy Synthes,
Smith and Nephew,
Arthrex; 2 – ConMed; 5
– ConMed
Dua, Karan b)
Dubberley, James b)
Duffy, Paul a) 4 -
Vivametrica Ltd.
Duffy, Ryan b)
Dunbar, Michael J. a) 1
- Stryker, Emovi,
Kinduct Technologies,
Smith & Nephew
Stryker, Zimmer
Biomet, DePuy
Synthes; 2 – Stryker; 5
- Stryker
Duncan, Clive P. b)
Duong, Andrew b)
Dusik, Chris b)
Dvorak, Marcel b)
Dwyer, Tim b)
Dzus, Anne K. b)

Earnshaw, Peter b)
Egloff, Christian b)
Ekhtiari, Seper b)
El Koussy, Mohamed
b)
El Warrak, Alexander
b)
Elgafy, Hossein Kamal
b)
Ellis, Kate b)
Ellis, Scott a) 5 - Wright
Medical
Elnagar, Islam b)
Eltit, Felipe b)
Elwell, Josie b)
Epure, Laura Mery b)
Erkuş, Serkan b)
Errico, Thomas a) 1 -
Medtronic, Paradigm,
Pfizer; 3 – Fastenetic;
5 - K2M
Escudero, Mario b)
Eugenio, Angela b)
Evaniew, Nathan b)
Evans, Owain b)
Faber, Kenneth J. b)
Faber, Kenneth J. a) 3
– Exactech Inc.; 5 -
Exactech Inc.
Faiegghi,
Mohammadreza b)
Fallah, Nader b)
Falsetto, Amedeo b)
Faris, Peter b)
Farmer, Jean-Pierre b)
Farrokhvar, Forough b)
Faulkner, Guy b)
Fehlings, Michael b)
Feibel, Robert J. b)
Feiveson, Alan b)
Fennema, Megan b)
Ferguson, Peter b)
Fergusson, Dean b)
Fernie, Geoff b)
Ferreira, Louis b)
Ferri-de-Barros, Fabio
b)
Finegan, Barry a) 1 –
Pfizer; 2 - Pfizer
Finkelstein, Joel A. b)
Firoozabadi, Reza b)
Fisher, Charles G. b)
Fisher, William b)
Fitch, David a) 5 -
Smith & Nephew

- Fletcher, Stefan a) 4 -
Rebalance MD; 5 -
Rebalance MD
Forsythe, Michael G. b)
Frank, Cyril B. b)
Frank, Tym b)
Fratzl, Peter b)
Freeman, Barbara b)
French, Stephen b)
Fu, Freddie b)
Fuentes, Alexandre a)
4 – Emovi, 5 - Emovi
Furey, Andrew b)
Gage, William H b)
Gagne, Oliver b)
Gallagher, Anthony b)
Gammon, Braden b)
Gandhi, Rajiv a) 1 –
Zimmer Biomet, Smith
& Nephew
Ganeshalingam, Rekha
b)
Gao, Yang b)
Garach, Mehul b)
Garbuz, Donald a) 1 –
Depuy Synthes,
Zimmer Biomet; 5 –
Depuy Synthes,
Zimmer Biomet
Garceau, Simon b)
Garven, Alexandra b)
Gary, Joshua b)
Gascoyne, Trevor a) 1
- Smith & Nephew,
DePuy Synthes,
Zimmer Biomet, Hip
Innovation Technology,
Manitoba Medical
Service Foundation; 5 -
Orthopaedic Innovation
Centre
Gauthier, Paul b)
Gauthier-Kwan, Olivier
b)
Gavin, Sherri b)
Gazendam, Aaron b)
George, Annie a) 5 -
OrthoEvidence Inc.
Ghazavi, Mohammad
Taghi b)
Ghert, Michelle a) 5 -
Wright Medical Group
Inc.
Ghosh, Swagata b)
Gibbons, Paul b)
Gibson, Eric b)
Giffin, J. Robert b)
Giles, Joshua b)
Gill, Harinderjit b)
Glaris, Zafeiria b)
Glazebrook, Mark a) 5
- Wright Medical Group
Inc.
Glennie, R. Andrew a)
1 - Medtronic
Godbout, Charles b)
Godoy-Santos,
Alexandre b)
Godwin, Ellen b)
Goel, Danny a) 2 -
Conmed Linvatec,
Wright Medical Group
Inc., Ossur, Arthrex
Goetz, Thomas J. b)
Gofton, Wade b)
Gofton, Wade a) 1 -
Microport
Goh, Taesik b)
Goldstein, Simon b)
Gong, Ying Jia b)
Gordey, Erin b)
Gortler, Hilary b)
Goulding, Krista b)
Goytan, Michael J. b)
Graham, R. David b)
Grammatopoulos,
George b)
Grant, Heather b)
Grant, Michael b)
Grant, John a) 1 - Joint
Restoration
Foundation; 5 - Ossur
Graves, Matthew a) 1 -
AO North America; 2 –
AO North America
Grayson, Eric b)
Grear, Benjamin b)
Greidanus, Nelson V.
a) 1 – Zimmer Biomet,
Depuy Synthes,
Johnson & Johnson,
Stryker
Grewal, Ruby b)
Grieco, Preston b)
Griffin, Anthony b)
Grimard, Guy b)
Gross, Allan E. a) 5 –
Zimmer Biomet,
Warsaw
Gross, Peter, a) 2 –
Bayer, Bistol-Meyers
Squibb, Pfizer; 5 –
Bayer, Bistol-Meyers
Squibb, Pfizer
Guernard, Karl-Philippe
b)
Guilak, Farshid b)
Gusnowski, Eva b)
Guy, Pierre b)
Habib, Eva b)
Habib, Anthony b)
Haddara, Mohammad
b)
Haglund, Lisbet b)
Hall, Jeremy b)
Halsey, David b)
Hammal, Fadi b)
Hancock-Howard,
Rebecca b)
Harb, Matthew b)
Hart, David b)
Hartman, Jeffrey b)
Harvey, Ed b)
Hauer, Tyler b)
Haverlag, Robert b)
Hazenbiller, Olesja b)
Heard, Bryan b)
Heard, S. Mark a) 1 -
ConMed Linvatec,
LifeMark Health, Sanofi
Hedden, Lindsay b)
Heebah, Sultan b)
Heels-Ansdell, Diane
b)
Heetveld, Martin b)
Held, Michael b)
Helfet, David b)
Hellsten, Erik b)
Henry, Bonnie b)
Henry, Patrick b)
Henry, Michael b)
Herman, Bob b)
Herman, Amir b)
Herrera-Soto, Jose A.
a) 5 – Zimmer Biomet,
OrthoPediatics,
SpineForm,
Spineguard
Hesham, Khalid b)
Hibbert, Kathryn b)
Hiemstra, Laurie A. a)
1 - ConMed Linvatec,
LifeMark Health,

- Sanofi; 2 - ConMed
Linvatec
Hildebrand, Kevin b)
Hoda, Mohamad b)
Hodgson, Antony b)
Holdsworth, David b)
Holland, Sara b)
Holliday, Charles b)
Holtby, Richard a) 3 –
Zimmer Biomet; 5 –
Zimmer Biomet
Hopkins, John b)
Hoq, Monsurul b)
Horberg, John b)
Horner, Nolan b)
Houdek, Matthew b)
Howard, Lisa b)
Howard, James a) 1 -
Smith & Nephew,
Depuy Synthes,
Stryker, Zimmer
Biomet, Microport; 4 -
PersaFix Revision
Solutions Inc; 5 –
Depuy Synthes,
Stryker, Intellijoint
Howe, Lindsay b)
Howe, Tet Sen b)
Hsu, Jason b)
Huang, Adrian b)
Huang, Anjie b)
Hughes, Andrew b)
Hui, Catherine b)
Hunter, David b)
Hupin, Mathilde b)
Ibrahim, John b)
Ibrahim, Mazen b)
Ignacy, Teegan b)
Illical, Emmanuel a) 5 -
Biocomposites,
Skeletal Dynamics
Inkpen, Kevin b)
Investigators Faith, b)
Isa, Ahaozia Diana b)
Ishikawa, Susan b)
Islam, Ariful b)
Jackson, Sarah b)
Jamieson, Paul b)
Jaques, Miles b)
Jaremko, Jacob b)
Jarvie, Geoffrey b)
Jarvis, James G. b)
Jarzem, Peter F. b)
Jenkinson, Richard b)
Jeray, Kyle b)
- Jeray, Kyle a) 1 –
Depuy Synthes; 5 –
Zimmer Biomet,
Radius, Bioventus, LLC
Jeyasurya, Jeswin a) 5
- Western Clinical
Engineering Ltd.
Jo, Chan-Hee b)
Johal, Herman b)
Johnson, James A. b)
Johnson, Jim b)
Johnson, Michael
Garth b)
Johnson, Ana b)
Johnson, Luke b)
Johnston, Geoffrey H.
b)
Johnston, Kelly b)
Joly, Denis b)
Jomha, Nadr M. b)
Jones, C. Allyson b)
Jones, Mackenzie b)
Jones, Carly b)
Jong, Benjamin b)
Joseph, Amethia b)
Joughin, V. Elaine b)
Kahn, Susan b)
Kalenderer, Önder b)
Kalra, Mayank b)
Kanakamedala, Ajay b)
Kandel, Rita b)
Karimi, Fahimeh b)
Karir, Aneesh b)
Kashigar, Aidin b)
Katchky, Adam b)
Kaur, Harleen b)
Kay, Jeffrey b)
Kelly, John b)
Kember, Laura b)
Kent, Heather b)
Kerrigan, Alicia b)
Kerslake, Sarah a) 1 -
ConMed Linvatec,
LifeMark Health,
Sanofi; 2 - ConMed
Linvatec
Keshen, Sam b)
Keyak, Joyce b)
Khan, Moin b)
Khan, Raymond b)
Khanna, Vickas a) 5 –
Family member
employed at Stryker
Corporation
Kheireldin, Rowida b)
- Khong, Hoa b)
Khoshbin, Amir b)
Khoury, Jason b)
Kiefer, Gerhard N b)
Kim, Jung-Kyong b)
Kim, Paul R. b)
Kim, Jeung Il b)
King, Anthony E. b)
King, JP b)
King, Graham J.W. a) 3
- Wright Medical Group
Inc.; 5 - Wright Medical
Group Inc.
Kingwell, Stephen b)
Kirsch, Jacob b)
Kiss, Marc-Olivier b)
Kivell, Matthew b)
Klassen, Robert b)
Knowles, Nikolas b)
Ko, Sebastian b)
Koca, Anil b)
Koch, Chelsea b)
Koh, Joyce Suang Bee
b)
Konan, Sujith b)
Kontio, Ken K., b)
Koo, Warren b)
Kooner, Sahil b)
Kopka, Michaela b)
Korley, Robert b)
Kovacs, Michael a) 1 -
Pfizer, Bayer, Daiichi
Sankyo, Bristol-Myers
Squibb; 2 - Pfizer,
Bayer
Kowalski, Erik b)
Krag, Martin b)
Krajbich, J. Ivan b)
Kreder, Hans J. b)
Kreviazuk, Cheryl b)
Kubik, Jeremy b)
Kudesia, Prtha b)
Kuehn, Erika b)
Kuzyk, Paul Robert b)
Kwon, Brian, b)
Kwong, Cory b)
Lacaille, Diane b)
Laende, Elise a) 1 –
Stryker, Zimmer,
DePuy Synthes
Lafage, Renaud b)
Lafage, Virginie a) 1 –
DePuy Synthes,
Johnson & Johnson; 4
- Nemaris; 5 – DePuy

Synthes, Johnson & Johnson, Medtronic Lafave, Mark b)
Laflamme, George Yves b)
Lajkosz, Katherine b)
Lalonde, Karl-André b)
Lalone, Emily b)
Lam, Peter a) 3 - Nova Step; 5 - Nova Step, CAB Medical
Lamontagne, Mario b)
Laneville, Odette b)
Langohr, G Daniel b)
Lanting, Brent a) 1 - Smith & Nephew, Depuy Synthes, Stryker, Zimmer Biomet; 4 - IdealFit Spacer Solutions Inc, PersaFix Revision Solutions Inc; 5 – Depuy Synthes, Smith & Nephew, Stryker, Intellijoint, Integra
Lapner, Peter b)
Lapointe, Jacques b)
Larose, Gabriel b)
Larson, Christopher b)
Lauder, Gillian b)
Lavian, Joshua b)
Lavigne, Martin a) 1 - Stryker, Zimmer Biomet; 3 - Microport
Lawendy, Abdel-Rahman b)
Le, Andy b)
Le, Vu (Brian) b)
LeBel, Marie-Eve b)
LeBlanc, Justin b)
LeClaire, Mark a) 5 – employee SunLife
Lee, Jung Sub b)
Lee, Eun Sung b)
Lee, Lily b)
Lee, Steve b)
Lefavre, Kelly b)
Lehoux, Eric b)
Lei, Alex b)
Leighton, Jennifer b)
Leighton, Ross a) 1 – Depuy Synthes, Johnson & Johnson, Smith & Nephew; 2 – Depuy Synthes,

Johnson & Johnson, Smith & Nephew, Stryker; Zimmer Biomet, Bioventus 3 – Zimmer Biomet; 5 - Bioventus; Smith & Nephew
Leiter, Jeff b)
Leith, Jordan b)
Lempert, Nathaniel b)
Leon, Sebastian b)
Leroux, Timothy b)
Lesniak, Bryson b)
Leveille, Lise b)
Lewandowski, Beth b)
Lewis, Stephen J. a) 1 – Medtronic, Depuy Synthes; 2 – Stryker, Depuy Synthes, AO Spine, L&K; 4 - COVR Medical, Thompson Medical; 5 – Medtronic, Stryker, Depuy Synthes, L&K
Lex, Johnathan b)
Li, Pei Ye b)
Li, Silvia b)
Li, Yi-Ju b)
Liew, Susan b)
Liew, Allan Syng-Luan b)
Lin, Bo Xuan b)
Lin, Albert b)
Liras, Ioannis b)
Lisle, David b)
Litchfield, Robert a) 1 - Smith & Nephew, Arthrex, Inspace; 2 - Smith & Nephew; 3 – ArthroSurface; 5 - Smith & Nephew, Linvatec
Little, David a) 2 – Orthopediatrics; 5 - Orthopediatrics
Liu, Jie b)
Liu, Xianghua b)
Liu, Ming b)
Liu, Shian, b)
Lix, Lisa b)
Lo, Ngai Nung b)
Lo, Louise Woon Theng b)
Lo, Ian King Yeung a) 1 - Smith & Nephew,

ConMed Linvatec; 2 - Smith & Nephew; 3 - Smith & Nephew, Arthrex, Lippencott; 5 - Smith * Nephew
Lockhart, Jason b)
Lohre, Ryan b)
Lonner, Baron, a) 1 - John and Marcella Fox Fund, OREF, DePuy Synthes; 2- Scientific Advisory Board, Depuy Synthes, Spine Search, K2M; 3- Depuy Synthes, Zimmer Biomet; 4- Spine Search, Paradigm Spine; 5 - Apifix, Ethicon, Unyq Align, Zimmer; Depuy Synthes
Lorich, Dean b)
Louati, Hakim b)
Louati, Hakim a) 1 - Microport
Lowe, Danielle Nicole b)
Ludwig, Taryn b)
Lunardini, David b)
Lung, Tiffany b)
MacDermid, Joy b)
MacDonald, Peter B. b)
MacDonald, Hilary b)
MacDonald, Christine b)
MacDonald, Shelley b)
MacDonald, Peter B. a) 1 – Arthrex, Conmed Linvatec, Ossur
MacDonald, Steven a) 1 - Smith & Nephew, Depuy Synthes, Stryker, Zimmer Biomet; 3 – Depuy Synthes; 4 - Hip Innovations Technology, JointVue; 5 – Depuy Synthes
Macleod, Mark b)
MacNiven, Ian b)
Madden, Kim a) 1 - Belevae Inc
Magtoto, Rosalie b)
Mahdavi, Saboura b)
Maheshwari, Aditya b)

- Mahomed, Nizar N. a)
1 - Smith & Nephew,
Zimmer Biomet, Depuy
Synthes; 4 - Arthritis
Innovation Corporation,
Arthur Health
Makan, Pradeep b)
Maki, Brian b)
Malisano, Lawrence b)
Malo, Michel b)
Maloney, William a) 1 -
NIH; 3 - Zimmer,
Stryker
Mammen, George a) 5
– employed at Beleave
Mamun, Abdullah b)
Mann, Koren b)
Mann, Helen b)
Mann, Jenna b)
Manson, Neil a) 1 -
Medtronic; 5 -
Medtronic
Marc, Rodger b)
Marien, Meaghan b)
Marion, Travis b)
Marks, Michelle b)
Marks, Paul H. b)
Marmor, Meir b)
Marsh, Jacquelyn b)
Marsh, Jonathan b)
Marshall, Deborah b)
Martin, Ryan b)
Martin, R. Kyle b)
Marwan, El-Rich b)
Mascarenhas, Randy
b)
Masri, Bassam A. b)
Masse, Vincent a) 1 –
Zimmer Biomet,
Stryker
Massicotte, Eric a) 2 -
AOSpine
Masson, Edward CO b)
Mastel, Matthew b)
Masuda, Koichi b)
Matache, Bogdan b)
Matheney, Travis b)
Matsen, Frederick A. b)
Matta, Jihad b)
Matthies, Norah-Faye
b)
Mattioli Lewis, Tressa
b)
Mattuucci, Stephen b)
- McAuley, James P. a)
1 - Smith & Nephew,
Depuy Synthes,
Stryker, Zimmer; 3 –
Depuy Synthes; 5 -
Depuy Synthes
McCalden, Richard W.
a) 1 - Smith & Nephew,
Depuy Synthes,
Stryker, Zimmer; 5 -
Smith & Nephew
McCammon, James b)
McClure, Andrew b)
McCormack, Robert G.
b)
McEwen, James a) 3 -
Zimmer Biomet; 4 -
Delfi Medical
Innovations Inc.; 5 -
Western Clinical
Engineering Ltd.
McGinn, Logan b)
McGrath, Trevor b)
McGregor, Martine b)
McGuffin, William b)
McInnes, James b)
McIntosh, Greg b)
McKee, Michael D. a) 3
- Stryker, Elsevier,
Walters-Kluwer; 5 -
Stryker, Zimmer,
Acumed, ITS,
Bioventus LLC.
McKinnon, Christy b)
McLachlin, Stewart b)
McLaughlin, Terry-
Lyne b)
McRae, Sheila b)
Mei, Xin b)
Meldrum, Alex b)
Melkus, Gerd b)
Memon, Muzammil b)
Menon, Matthew b)
Merle, Geraldine b)
Messina, James b)
Meulenkamp, Brad b)
Michalski, Andrew b)
Mikesell, Timothy b)
Miller, Anna b)
Milne, Kevin b)
Mitchell, Michael b)
Mixa, Patrick b)
Miyajiri, Firoz a) 1 –
DePuy Synthes,
Johnson & Johnson; 5
- DePuy Synthes,
Johnson & Johnson
Mohit, Bansal b)
Mohtadi, Nicholas G.H.
b)
Monsey, Robert b)
Montgomery, Spencer
b)
Montgomery, Susan b)
Monument, Michael b)
Moola, Farhad b)
Moon, Nam Hoon b)
Moran, Steven b)
Morellato, John b)
Morelli, Moreno b)
Moretti, Myla b)
Mortimer, J. Alexandra
b)
Mosca, Vincent b)
Mulpuri, Kishore a) 1 -
Pega Medical,
Allergan, and DePuy
Synthes, Johnson &
Johnson; 3 - Pega
Medical
Mundi, Raman b)
Murnaghan, John J. b)
Murnaghan, Lucas b)
Murphy, G. Andrew b)
Murphy, Colin b)
Murphy, G. Andrew a)
1 – Allotem, Arthrex,
Biomimetic, Smith &
Nephew, Wright
Medical Group Inc.; 3 -
Saunders/Mosby-
Elsevier, Wright Medical
Group Inc.; 5 - Wright
Medical Group Inc.
Musahl, Volker b)
Mwale, Fackson a) 4 -
Trepso Therapeutics
Inc
Mwaturura, Tendai b)
Nadeau, Mélissa b)
Nam, Diane b)
Nanu, Ananda b)
Narayanan, Unni a) 2 -
AO Foundation
Nasto, Luigi b)
Nathens, Avery b)
Naudie, Douglas a) 1 -
Smith & Nephew,
Depuy Synthes,
Stryker, Zimmer

- Biomet; 3 - Smith & Nephew; 5 - Smith & Nephew, Zimmer
 Biomet, Microport
 Nault, Marie-Lyne b)
 Nauth, Aaron a) 1 - Stryker, Depuy
 Synthes, Zimmer
 Biomet, Smith & Nephew, OTA, CIHR, PSIF; 5 - Stryker, Smith & Nephew
 Naziri, Qais b)
 Nelms, Nathaniel b)
 Nelson, Andrew b)
 Nelson, Susan b)
 Nepple, Jeffrey b)
 Neradilek, Moni b)
 Netting, Caleb b)
 Neufeld, Michael b)
 Nevin, Jennifer b)
 Newman, Jared b)
 Ng, Geoffrey b)
 Ng, Richard b)
 Nicholls, Micah a) 5 - Ossur
 Nichols, Claude b)
 Nikolov, Hristo b)
 Nocon, Allina b)
 Noonan, Vanessa b)
 Novaretti, Joao b)
 Nowak, Lauren b)
 O. Newton, Peter, a) 1 - Alphatec Spine, DePuy Synthes, EOS Imaging, K2M, MAZOR Surgical Technologies, Zimmer Biomet; 3 - DePuy Synthes, Johnson & Johnson, Theime Medical Publisher; 4 - ElectroCore; 5 - K2M; Theime Medical Publisher
 O' Heireamhoin, Sven b)
 O'Keefe, Regis b)
 Obeidat, Mohammad b)
 Obioha, Obianuju b)
 O'Brien, Peter J. b)
 Oduwole, Kayode b)
 Ogilvie-Harris, Darrell J. b)
 O'Hara, Lyndsay b)
 O'Hara, Nathan b)
 Oitment, Colby b)
 Old, Jason b)
 O'Neill, Adam b)
 Oreskovich, Stephan b)
 Orrell, Kevin G.S. b)
 Osei-Hwedieh, David b)
 Oxland, Thomas b)
 Oxner, William M. a) 1 - Medtronic
 Padgett, Douglas b)
 Padmore, Clare b)
 Pahuta, Markian b)
 Paish, Adam b)
 Palibrk, Tomislav b)
 Paltoo, Karen b)
 Papp, Steven b)
 Paquet, Jérôme b)
 Paquette, Scott a) 2 - Medtronic
 Parashin, Sara a) 1 - Smith & Nephew, DePuy Synthes, Zimmer Biomet, Hip Innovation Technology; 5 - Orthopaedic Innovation Centre
 Parsons, David L. b)
 Pascual-Garrido, Cecilia b)
 Pasic, Nicholas b)
 Passias, Peter a) 1 - Cervical Scoliosis Research Society; 5 - Zimmer Biomet
 Paterson, Michael b)
 Patton, Stephen b)
 Paulino, Carl a) 1 - Depuy Synthes
 Payziner, Levent b)
 Pedneault, Christopher b)
 Peeler, Jason b)
 Pelet, Stéphane b)
 Penner, Murray a) 1 - Synthes DePuy, Zimmer Biomet, Arthrex, Wright Medical Group Inc., Amniox, Bioventus, Cartiva, Ferring; 3 - Wright Medical Group Inc.; 5 - Wright Medical Group Inc., Amniox
 Penny, John Norgrove b)
 Perrin, David b)
 Perruccio, Anthony b)
 Petgrave, Josian b)
 Petretta, Robert b)
 Petrisor, Brad a) 1 - Stryker; 4 - Pfizer; 5 - Stryker
 Petrucci, Danielle b)
 Phan, Philippe Tran Nhut b)
 Phillips, Lisa b)
 Phillips, Mark b)
 Pichora, David b)
 Pike, Jeffrey b)
 Pincus, Daniel b)
 Pipe, Andrew b)
 Plashkes Tova b)
 Pleasance, Susan b)
 Poitras, Stéphane b)
 Pollock, J b)
 Ponnusamy, Karthik b)
 Potter, Daniel b)
 Powell, James a) 1 - Depuy Synthes, Zimmer Biomet, Depuy Synthes, Stryker, Smith & Nephew
 Power, J. Denise b)
 Prabhakar, Sharad b)
 Prabhoo, Ram b)
 Prasam, Mark b)
 Puloski, Shannon a) 1 - Depuy Synthes; 5 - Depuy Synthes
 Punjani, Nahid b)
 Quader, Niamul b)
 Rahbar, Ellie b)
 Rahman, Proton b)
 Railton, Pamela b)
 Rainbow, Michael b)
 Rajgopal, Raghav b)
 Rakhra, Kawan b)
 Ramasamy, Anul b)
 Ramirez-GarciaLuna, Jose b)
 Ramo, Brandon a) 3 - Saunders/Mosby-Elsevier
 Rampersaud, Raja Y. a) 3 - Medtronic; 5 - Medtronic

Rasuli, Kevin b)
Ravi, Bheeshma b)
Ravichandiran,
Kajeandra b)
Ravinsky, Robert b)
Razmjou, Helen b)
Reeves, Jacob b)
Regan, William D. b)
Reilly, Christopher W.
a) 1 – DePuy Synthes,
Johnson & Johnson
Richards, Megan b)
Richards, Robin R. b)
Richardson, David b)
Richardson, Eden b)
Richardson, Glen a) 1 -
Stryker, Zimmer
Biomet, DePuy
Synthes, Orthosensor;
2 – Stryker, DePuy
Synthes; 5 - Stryker
Riddle, Michael b)
Risteviski, Bill a) 2-
Amgen Canada
Ritchie, Leanna b)
Rivers, Carly b)
Riviere, Charles b)
Roberts, Lauren b)
Robinson, Mike a) 3 -
Acumed LLC; 5 -
Acumed LLC
Rodriguez y Baena,
Ferdinando b)
Roffey, Darren a) 5 -
Palladian
HealthLLC.,Pacira
Pharma Inc.
Rollick, Natalie b)
Rollins, Meaghan b)
Romeo, Anthony a) 1 –
Arthrex; 2 - Arthrex; 3 -
Arthrex; 5 - Arthrex
Rooks, Katie b)
Ropchan, Adam b)
Rose, Peter b)
Rosenberg, Gary b)
Rosenfeldt, Michael b)
Rosenzweig, Derek b)
Roughley, Peter J. b)
Roy, Mili b)
Rubinger, Luc b)
Rudolph, Tyler b)
Ruggiero, Sara b)
Ruta, David b)
Ryan, Phelim b)

Saad, Lydia b)
Sabiston, Catherine b)
Sabo, Marlis b)
Safir, Oleg b)
Saini, Raghav b)
Sajobi, Tolulope b)
Salat, Peter b)
Sales, Brendan b)
Saliken, David a) 5-
Smith & Nephew
Salka, Nabeel b)
Salo, Paul T. b)
Samanta, Sampa b)
Samdani, Amer a) 5 –
DePuy Synthes,
Johnson & Johnson;
Ethicon; Globus
Medical; Misonix;
Stryker; Zimmer
Biomet
San Martin - Feeney,
Daniella b)
Sanders, David William
b)
Sanders, Austin b)
Sandiford, Nemandra
b)
Sandoval, Carolyn b)
Sandoval, Enrique b)
Sankar, Wudbhav a) 3-
Wolters Kluwer Health
- Lippincott
Saran, Neil b)
Sarro, Angela b)
Sasyniuk, Treny b)
Sauder, David b)
Sawatzky, Richard b)
Sayre, Eric b)
Sayre, Eric. C. b)
Schaeffer, Emily b)
Schemitsch, Emil H. b)
Schemitsch, Christine
b)
Schemitsch, Emil H. a)
1 - Depuy-Synthes,
Stryker, Smith &
Nephew; 2 – ITS; 3 -
Stryker, Elsevier; 5 -
Stryker,
Smith&Nephew,
Amgen, Sanofi,
Pendopharm, ITS,
Acumed
Schmale, Gregory b)
Schneider, Patricia b)

Schneider, Prism b)
Schon, Lew b)
Schottel, Patrick b)
Schreiber, Sanja b)
Schuetz, Roman b)
Schwab, Frank a) 1 –
DePuy Synthes,
Johnson & Johnson; 3
- K2M, Medtronic
Sofamor Danek; 4 –
Nemaris; 5 - K2M,
Medicrea, Medtronic,
Nuvasive, Zimmer
Biomet
Scott, Stephen a) 2 -
Co-founder and CSO
of BKIN Technologies
Sebaaly, Amer b)
Seeto, Brian b)
Segreto, Frank b)
Seltser, Anna b)
Sendher, Rosie b)
Sevick, Johnathan b)
Shah, Ashish b)
Shah, Apurva b)
Shah, Neil V. b)
Shah, Suken a) 1 -
DePuy Synthes,
Ethicon, K2M; 3 -
DePuy Synthes, K2M;
4 - Globus Medical,
Innovative Surgical
Designs Inc.; 5 -
DePuy Synthes,
Nuvasive, Stryker
Shahsavari, Shayan b)
Shanmugaraj, Ajay b)
Sharif, Behnam b)
Sharifi Kia, Danial b)
Sharma, Rajrishi a) 5 -
Zimmer Biomet, Depuy
Synthes
Shea, Beverley b)
Shearer, David b)
SHEDID, Daniel a) 1 -
Medtronic
Sheehan, Brendan b)
Sheehan, katie b)
Sheps, David b)
Shin, Jason b)
Shin, Jong Ki b)
Shin, Won Chul b)
Shore, Deborah b)
Shorr, Risa b)
Shrive, Nigel b)

- Sibonga, Jean b)
Silveira, Anelise b)
Sim, Franklin H. b)
Simchovich, Gabriel b)
Simmonds, Andrea b)
Simonik, Melissa b)
Sims, Laura b)
Simunovic, Nicole b)
Singh, Gargi b)
Singh, Gurpreet b)
Singh, Supriya b)
Skelly, Matthew b)
Slauterbeck, James b)
Slobogean, Gerard b)
Smit, Kevin b)
Smit, Arno b)
Smith, Christopher b)
Smith, Richard b)
Smith, Terry a) 5 -
employed at SIGN
Sobolev, Boris b)
Solow, Max b)
Somerville, Lyndsay a)
1 - Smith & Nephew,
Depuy Synthes,
Stryker, Zimmer
Biomet
Son-Hing, Jochen a) 5
– OrthoPediatics
Sood, Arusha b)
Speidel, Jason b)
Speirs, Andrew b)
Sponseller, Paul a) 1 –
DePuy Synthes,
Johnson & Johnson;
Journal of Bone and
Joint Surgery,
Oakstone Medical; 3 –
DePuy Synthes,
Johnson & Johnson,
Globus Medical;
Journal of Bone and
Joint Surgery,
Oakstone Medical; 5 –
DePuy Synthes,
Johnson & Johnson
Sprague, Sheila b)
Squiers, Monique b)
Squire, Daniel b)
Stavrakis, Alexandra b)
Stavropoulos, Nikolaos
b)
Steffen, Thomas b)
Steinman, Suzanne b)
Ste-Marie, Nathalie b)
- Stephen, David J.G. a)
2 - Depuy Synthes
Steward, Nancy b)
Stewart, Christopher b)
Stewart, Samuel b)
Stiegelmar, Robert b)
Stirling, Paul b)
Stockton, David b)
Stoesser, Helen b)
Stone, Devon b)
Stranges, Gregory b)
Stratton, Alexandra b)
Street, John b)
Street, Richard b)
Strelzow, Jason b)
Stroud, Sarah b)
Styles-Tripp, Fiona b)
Suh, Nina b)
Suh, Kuen Tak b)
Suh, Nina b)
Sundararajan, Kala b)
Suraci, Alison a) 1 -
Microport
Swamy, Ganesh a) 1 –
Stryker; 2 - Stryker,
Medtronic, Nuvasive; 5
- Stryker
Swiontkowski, Marc b)
Syed, Khalid b)
Symes, Michael b)
Szmit, Jakub b)
Taha, Mariam b)
Tan, Zachary b)
Tanashi, Ahmed b)
Tang, Teng teng b)
Taylor, Michel b)
Taylor, Brandon b)
Teeter, Matthew a) 1 -
Smith & Nephew,
Depuy Synthes,
Stryker, Zimmer
Biomet; 4 - IdealFit
Spacer Technologies,
PersaFix Revision
Solutions Inc
Tempelaere, Christine b)
Teo, Tammie b)
Tetzlaff, Wolfram b)
Thabane, Lehana b)
Theodoropoulos, John
S. b)
Theriault, Chris b)
Thiagarajah, Shankar b)
Thomas, Kenneth C. b)
Thompson, Susan b)
- Thornley, Patrick b)
Tibbo, Meagan b)
Tice, Andrew b)
Tieszer, Christina b)
Toffolo, Nancy b)
Tohidi, Mina b)
Toliopoulos, Panagiota
b)
Tomescu, Sebastian b)
Toogood, Paul b)
Tornetta, Paul a) 3 -
Smith & Nephew,
Wolters Kluwer Health
– Lippincott; 5 - Journal
of Orthopaedic Trauma
Tran, Dong-Phuong b)
Trask, Kelly-Ann b)
Trouw, Arie b)
Trovato, Alexandra b)
Trudel, Guy b)
Tsai, Eve b)
Tsitskaris, Kostantinos b)
Tucker, Allison b)
Tufescu, Ted b)
Tuna, Meltem b)
Tung, Taranjit a) 1 -
Manitoba Medical
Service Foundation,
Smith & Nephew,
DePuy Synthes,
Zimmer Biomet, Hip
Innovation Technology
Turcotte, Robert b)
Turgeon, Thomas a) 1
– DePuy Synthes,
Smith & Nephew,
Zimmer Biomet, Hip
Innovation Technology
2 - Stryker
Turgut, Ali b)
Tushinski, Daniel b)
Uththoff, Hans K. b)
Upasani, Vidyadhar a)
5 - DePuy Synthes,
Johnson & Johnson,
OrthoPediatics
Urban, William b)
Valente, Giuseppe b)
Van der Hoek, Niek b)
Van Der Merwe,
Michael b)
Van Osnabrugge,
Varda b)
Van Walraven, Carl b)

VanDenKerkhof,
Elizabeth b)
Vannabouathong,
Christopher b)
Varghese, Jeffrey b)
Vasarhelyi, Edward a)
1 - Smith & Nephew,
Depuy Synthes, Stryker,
Zimmer; 5 - Depuy
Vasquez-Montes,
Dennis b)
Veillette, Christian b)
Veljkovic, Andrea a) 1 -
Bioventus, Zimmer
Biomet, Acumed,
Cartiva, Wright Medical
Group Inc., AmnioX,
Ferring; 2 – Arthrex,
Zimmer Biomet, Depuy
Synthes; 4 – AIC,
Therapia; 5 - Arthrex
Vendittoli, Pascal-
Andre a) 1 - Medacta,
Microport, Stryker,
Smith & Nephew,
Zimmer Biomet; 3 –
Microport; 5 - Medacta,
Microport, Stryker
Vicente, Milena b)
Visgauss, Julia b)
Viskontas, Darius a) 1 -
Stryker and Synthes; 4
- Precision OS
Vogel, Kristina b)
Volesky, Monika a) 2-
Smith and Nephew ;
Wright Medical
Von Maltzahn, Maia b)
Vu, Kim b)
Vutescu, Emil b)
Waddell, James P. b)
Wadey, Veronica b)
Wagermaier, Wolfgang
b)
Wai, Eugene b)
Walker, Andrew b)
Walker, Sarah b)
Walker, Peter S. a) 1 –
AMTI; 3 - Zimmer-
Biomet; 4 - Genovel Inc
Walmsley, Phil b)
Waly, Feras b)
Wang, Meng b)
Wang, Rizhi b)
Wang, Alick b)

Wang, Zhi a) 1 -
Medtronic
Ward, Sarah b)
Wasserstein, David b)
Waterson, H b)
Watts, Evan b)
Weatherhead, Brent b)
Weber, Michael b)
Webster, Greg b)
Webster, Jared b)
Webster, Fiona b)
Weeks, Colleen b)
Weinstein, Stuart b)
Welch, Ian b)
Welk, Blayne b)
Wellman, David b)
Wells, Philip a) 1 -
Bayer, BMS/Pfizer; 2 -
Bayer, BMS/Pfizer
Wheatley, Mitchell b)
Whelan, Daniel B. b)
White, Neil a) 1 –
Bioventus; 5 -
Bioventus (Sitting on
advisory board)
Whittier, Danielle b)
Whyne, Cari b)
Whynot, Sara b)
Wigmore, Daniel b)
Wihlidal, Jacob b)
Willard, Vincent b)
Williams, Harley b)
Williams, Nicole b)
Willing, Ryan a) 1 -
AMTI
Willits, Kevin b)
Willson, Vanessa b)
Wilson, David b)
Wilson, David R. b)
Wilson, Jefferson a) 5 -
Stryker
Wilson, Marni b)
Winemaker, Mitchell J.
b)
Wing, Kevin a) 1 -
Bioventus, Zimmer
Biomet, Acumed,
Cartiva, Wright Medical
Group Inc., AmnioX,
Ferring; 5 - Wright
Medical Group Inc.
Wodchis, Walter b)
Wolfe, Scott b)
Wolfstadt, Jesse b)
Wolinsky, Philip b)

Wong, Ivan b)
Wong, Murray b)
Wood, Thomas b)
Wright, James G. b)
Wu, Chia-Lung b)
Wu, Kitty b)
Wunder, Jay S. b)
Wysocki, David b)
Xie, Hui b)
Xu, Yanling b)
Yan, James b)
Yandow, Suzanne b)
Yang, Andrew b)
Yardley, Darryl b)
Yaszemski, Michael b)
Yee, Albert J.M. b)
Yen, David b)
Yeo, Nic b)
Yeoh, Jane b)
You, Daniel b)
Younger, Alastair S.E.
a) 1 - Wright Medical
Group Inc., Zimmer
Biomet, Ferring,
Bioventus, Acumed,
Cartiva, Canadian
Orthopaedic
Association, American
Orthopaedic Foot &
Ankle Society; 2 –
Wolters Kluwer Health
– Lipincott, Foot &
Ankle International,
COAFAS; 5 - Wright
Medical Group Inc.,
Bioventus, Cartiva,
Zimmer, Acumed
Yuan, Xunhua b)
Zakani, Sima b)
Zec, Michelle b)
Zhai, Guangju b)
Zhang, Honglin b)
Zhang, Qiong b)
Zhang, Lisa b)
Zhang, Mei b)
Zhang, Yiyang b)
Zhou, Hanbing b)
Zhou, Qi b)
Ziegler, Teresa b)
Zirkle, Lewis b)
Zochowski, Thomas b)
Zukor, David J. b)
Zywiell, Michael b)

