

POSTERS

COA Top Scoring Posters

Adult Reconstruction Hip

- 1 - **Residual Groin Pain and Discomfort 2 Years After Metal-on-Metal 28mm THA, Large Diameter Head THA and Hip Resurfacing**
Martin Lavigne, Université de Montréal; Muthu Ganapathi, Université de Montréal; Pascal-André Vendittoli, Université de Montréal
- 2 - **Reliability and Usefulness of the Signs of Bony Integration in Assessment of Uncemented Acetabular Components in the Short Term Follow-up Period**
Pascal-André Vendittoli, Maisonneuve-Rosemont Hospital; Mathieu Carrier, Maisonneuve-Rosemont Hospital; Muthu Ganapathi, Maisonneuve-Rosemont Hospital; Martin Lavigne, Maisonneuve-Rosemont Hospital
- 3 - **Predicting Patient Dissatisfaction Following Joint Replacement Surgery**
Rajiv Gandhi, University of Toronto; J Roderick Davey, University of Toronto; Nizar N. Mahomed, University of Toronto
- 4 - **The Development and Reliability of a Quality of Life Hip Outcome Measure for Young Active Patients**
 Elizabeth Pedersen, University of Calgary; Denise Chan, University of Calgary; Jocelyn Fredine, University of Calgary; **Nicholas G.H. Montadi**, University of Calgary
- 5 - **Surgical Variables Affect Metal Ion Levels in the Blood of Patients with Hip Surface Arthroplasty**
 John Antoniou, McGill University; **Alain Petit**, Lady Davis Institute; Fackson Mwale, McGill University; David J. Zukor, McGill University; Olga L. Huk, McGill University
- 6 - **Total Hip Arthroplasty with Delta Ceramic-on-Ceramic**
James P. McAuley, University of Western Ontario; William G. Hamilton, Anderson Orthopaedic Research Institute; Joel Politi, Cardinal Orthopedic Institute; Johnathan Garino, Hospital for the University of Pennsylvania; Doug Dennis, Colorado Joint Replacement Institute
- 7 - **Modified Trochanteric Slide for Complex Hip Arthroplasty: Clinical Outcomes and Complication Rates**
Dror Lakstein, Mount Sinai Hospital, Toronto; Yona Kosashvili, Mount Sinai Hospital, Toronto; David Backstein, Mount Sinai Hospital, Toronto; Oleg Safir, Mount Sinai Hospital, Toronto; Allan E. Gross, Mount Sinai Hospital, Toronto
- 8 - **Is There a Correlation Between INR and Intraoperative Bleeding?**
Benjamin Bender, Rothman Institute; Chelsea Delsey, Rothman Institute; Javad Parvizi, Rothman Institute; Richard H. Rothman, Rothman Institute

9 - Survivorship of Uncemented Acetabular Components Following Total Hip Arthroplasty

James J. Howard, London Health Sciences Centre; David Lewallen, Mayo Clinic; Daniel Berry, Mayo Clinic; Miguel Cabanella, Mayo Clinic; Arlen Hanssen, Mayo Clinic; Mark Pagnano, Mayo Clinic; Robert Trousdale, Mayo Clinic

Adult Reconstruction Knee

10 - Gastrocnemius Flap Reconstruction in Revision Total Knee Arthroplasty

Steven J.M. MacDonald, London Health Sciences Centre-UC; Edward Graham, London Health Sciences Centre-UC; Jeff Guerin, London Health Sciences Centre-UC; Juliana T. Marr, London Health Sciences Centre-UC; Nicholas J. Yardley, London Health Sciences Centre-UC; Brian Evans, London Health Sciences Centre-UC; Robert B. Bourne, London Health Sciences Centre-UC; Richard W. McCalden, London Health Sciences Centre-UC; Cecil H. Rorabeck, London Health Sciences Centre-UC

11 - Improved Early ROM Following TKR Using a Mini Mid-vastus MIS Technique Jeffrey D. Gollish, University of Toronto

Upper Extremity

12 - Increasing Expectations After Shoulder Surgery Has a Negative Impact on Recovery

Helen Razmjou, Holland Orthopaedic and Arthritic Centre; Carolyn Schwartz, New England Baptist Hospital; Sharon Griffin, Fowler Kennedy Sport Medicine Clinic; Richard M. Hottby, Holland Orthopaedic and Arthritic Centre

13 - Reverse Shoulder Prosthesis as Salvage Treatment Option When Hemiarthroplasty or Fixation After Proximal Humeral Fractures Falls

Giuseppe Porcellini, Cervesi Hospital, Cattolica, Italy; Paolo Paladini, Cervesi Hospital, Cattolica, Italy; Fabrizio Campi, Cervesi Hospital, Cattolica, Italy; Nicola Lollino, Cervesi Hospital, Cattolica, Italy; Francesco Pegreff, Cervesi Hospital, Cattolica, Italy

14 - Shoulder Calcifying Tendinitis: Bone Osteolysis Affects Pre and Postoperative Clinical Outcomes

Giuseppe Porcellini, Cervesi Hospital, Cattolica, Italy; Paolo Paladini, Cervesi Hospital, Cattolica, Italy; Fabrizio Campi, Cervesi Hospital, Cattolica, Italy; Francesco Pegreff, Cervesi Hospital, Cattolica, Italy

Paediatrics

15 - Are Hinged Ankle Foot Orthoses in Children with Spastic Diplegia Cerebral Palsy Associated with Crouch Gait?

Nabil Al-Assaf, University of Alberta; Lauren A. Beaupré, University of Alberta; Justin Lewicke, Alberta Health Services - Capital Health; Adrian Liggins, University of Alberta; John B. McIvor, University of Alberta

Critical Issues

16 - Industry Funding and Canadian Orthopedic Residency Training: How Dependant Are We?

William N. Dust, University of Saskatchewan

Other

17 - Comparing Patient Satisfaction After THR and TKR: Is There a Difference?

Robert B. Bourne, University of Western Ontario; Bert Chesworth, University of Western Ontario; Aileen Davis, University of Toronto; Nizar N. Mahomed, University of Toronto; Kory D. Charron, University of Western Ontario

18 - The Effect of Trainee Involvement on Procedure and List Times in Orthopaedics: An In-depth Statistical Analysis from a Teaching Hospital in United Kingdom

Alay Sahu, Stepping Hill Hospital; Thomas Wilson, Stepping Hill Hospital; Sanjay J. Anand, Stepping Hill Hospital; David S. Johnson, Stepping Hill Hospital; Phillip G. Turner, Stepping Hill Hospital; **NS Harshavardena**, Stepping Hill Hospital

19 - Evaluation of Patellar Height- A Simpler Method

Oliver T. Portner, University of Ottawa; Hossein Pakzad-Sedigh, University of Ottawa

CORS Top Scoring Posters

Bone, Ligament and Tendon

21 - Duration of Gold Ischaemia Following Tissue Harvest Affects the Cellular Viability of Epiphyseal Plates
Erin J. Martens, Washington University School of Medicine; Mark Wilczynski, Washington University School of Medicine; Jack Carlisle, Washington University School of Medicine; Audrey McAlinden, Washington University School of Medicine; Martin I. Boyer, Washington University School of Medicine

22 - Tissues Engineering with Cell-based Gene Transfer in Fracture Repair
Ru Li, University of Toronto; Duncan Stewart, Ottawa Health Research Institute; Herb von Schroeder, Toronto Western Hospital; Claire Li, University of Toronto; Emil H. Schemitsch, University of Toronto

Joints and Arthritis

23 - Repair of Osteochondral Defects Using Genepin-cross-linked Elastin-like Polypeptide Hydrogels

Isaac Moss, University of Toronto; Chris Hrabochak, Elastin Specialties; Jessica Rouleau, Elastin Specialties; Margarete Akens, University of Toronto; Fred W. Keeley, Hospital for Sick Children; Kimberly A. Woodhouse, Queen's University; Albert J.M. Yee, University of Toronto

24 - What is the Influence of Density on Chondrocyte Characteristics?

Craig B. Bulawka, University of Alberta; Randy Barley, University of Alberta; Jennifer Bater, University of Alberta; Nadr M. Jomha, University of Alberta; Keith Bagnall, University of Alberta

Spine

25 - Quantitative Magnetic Resonance Imaging and Biochemical Analysis of Chondroitinase ABC Treated Intervertebral Discs Under Physiological Compressive Loading

Fackson Mwale, McGill University; Laura M. Epure, Lady Davis Institute; Tapas Goswami, Lady Davis Institute; Gilles Beaudoin, Hôpital Notre-Dame; Lorne Beckman, Royal Victoria Hospital; Alain Petit, Lady Davis Institute; John Antoniou, McGill University

26 - Thiol-modified Hyaluronan and Elastin-like Polypeptide Hydrogels for the Treatment of Early Degenerative Disc Disease

Isaac Moss, University of Toronto; Cari Whyne, University of Toronto; Albert J.M. Yee, University of Toronto; Kimberly A. Woodhouse, Queen's University

COA Posters

Adult Reconstruction Hip

27 - Comparison of Mid-term Clinical Outcomes Following Primary Total Hip Arthroplasty with Oxinium versus Cobalt Chrome Femoral Heads
Peter Lewis, St. Michael's Hospital, Toronto; Michael Olsen, St. Michael's Hospital, Toronto; Emil H. Schemitsch, St. Michael's Hospital, Toronto; James P. Waddell, St. Michael's Hospital, Toronto

28 - Clinical and Radiological Outcome of a Porous Tantalum Monoblock Acetabular Cup in Primary Total Hip Arthroplasty
Sultan N. Qasim, Bedford Hospital NHS Trust; Rajesh Rachha, Bedford Hospital NHS Trust; Warwick Chan, Bedford Hospital NHS Trust; Manoj Sood, Bedford Hospital NHS Trust

29 - Conversion of Hip Arthrodesis to Total Hip Replacement: Survivorship and Clinical Outcome
Corey Richards, Queen'sland University of Technology; Clive P. Duncan, UBC

30 - Functional Outcome of Ceramic-on-Ceramic THA Compared to Resurfacing Arthroplasty
Amre Hamdi, University of Ottawa; **Paul R. Kim**, University of Ottawa

31 - Serum Ion Levels Following Hip Resurfacing Arthroplasty
Paul R. Kim, University of Ottawa; Paul-Edgar Beaulé, University of Ottawa; Michael J. Dunbar, Dalhousie University

32 - Midterm Comparison of Steady-state Wear Rates of Two Highly Cross-linked Polyethylenes in THR

Richard W. McCalden, University Hospital, University of Western Ontario; John-Paul Whittaker, University Hospital, University of Western Ontario; Kory D. Charron, University Hospital, University of Western Ontario; Douglas Naudie, University Hospital, University of Western Ontario; Steven J.M. MacDonald, University Hospital, University of Western Ontario; Robert B. Bourne, University Hospital, University of Western Ontario

33 - Ethnicity and the Surgical Perception of Risk
Rajiv Gandhi, University of Toronto; Fahad Razak, University of Toronto; J. Roderick Davey, University of Toronto; Nizar N. Mahomed, University of Toronto

34 - Defining Obesity in an Asian Population Undergoing Knee and Hip Replacement Surgery
Rajiv Gandhi, University of Toronto; Fahad Razak, University of Toronto; Nizar N. Mahomed, University of Toronto

35 - Reconstruction of Femoral Hip Biomechanics with Surface Replacement Arthroplasty

Kristoff Gortén, University Hospital Leuven; Ward Bartels, Catholic University Leuven; Guy Molenaers, University Hospital Leuven; Jos Vander Sloten, Catholic University Leuven; Johan Bellemans, University Hospital Leuven; Paul Broos, University Hospital Leuven; Jean-Pierre Simon, University Hospital Leuven

36 - The Accuracy and Reliability of Preoperative Templating for Hip Resurfacing

Michael Olsen, St. Michael's Hospital; Patrick Gamble, St. Michael's Hospital; Mark H.N. Chiu, St. Michael's Hospital; Nezar Tuma, St. Michael's Hospital; Richard Boyle, St. Michael's Hospital; Emil H. Schemitsch, St. Michael's Hospital

37 - A Comparison of Conventional Guidewire Alignment Jigs with Computer Navigation in Hip Resurfacing Arthroplasty

Michael Olsen, St. Michael's Hospital; Mark H.N. Chiu, St. Michael's Hospital; Patrick Gamble, St. Michael's Hospital; Nezar Tuma, St. Michael's Hospital; Richard Boyle, St. Michael's Hospital; Emil H. Schemitsch, St. Michael's Hospital

38 - Metal Ions in the Blood of Patients with Articular Surface Replacement

John Antoniou, McGill University; Alain Petit, Lady Davis Institute; Fackson Mwale, McGill University; David J. Zukor, McGill University; Olga L. Huk, McGill University

39 - Outcome Following Metal-On-metal Hip Resurfacing Arthroplasty: A Single Centre Experience

Lucas S. Rylander, Southern Illinois University School of Medicine; Joseph C. Milbrandt, Southern Illinois University School of Medicine; Adam Wallace, Southern Illinois University School of Medicine; D. Gordon Allan, Orthopaedic Centre of Illinois

40 - Direct Anterior Approach for Total Hip Arthroplasty: Early Single Surgeon Experience

B. K. Parsley, Southern Illinois University School of Medicine; Kevin Dale, Southern Illinois University School of Medicine; Marty Wilson, Southern Illinois University School of Medicine; Bradley Dyrstad, Southern Illinois University School of Medicine; Joseph C. Milbrandt, Southern Illinois University School of Medicine; D. Gordon Allan, Orthopaedic Centre of Illinois

41 - Salvage of Failed Acetabular Cages by Non Augmented Trabecular Metal Hemispherical Cup- 2 to 6 Year Follow-up

Yona Kossashvili, Arthroplasty Division, Mount Sinai Hospital, University of Toronto; David Backstein, Arthroplasty Division, Mount Sinai Hospital, University of Toronto; Oleg Safir, Arthroplasty Division, Mount Sinai Hospital, University of Toronto; Mulhyeddine Al-Taki, Arthroplasty Division, Mount Sinai Hospital, University of Toronto; Dror Lakstein, Arthroplasty Division, Mount Sinai Hospital, University of Toronto; Allan E. Gross, Arthroplasty Division, Mount Sinai Hospital, University of Toronto

42 - Hip Resurfacing versus Conventional Hip Replacement. A Comparison of Functional Outcome at Two Years

James R. Mackenzie, University of Calgary; **Phil Pettit**, University of Calgary; Kathy Gooch, ABJL; Peter Farris, ABJL; Hoa Khong, ABJL; Cyril B. Frank, University of Calgary; Brian C. Burkart, University of Calgary; Gregory J. O'Connor, University of Alberta; Jason R. Werle, University of Calgary; James N. Powell, University of Calgary

43 - The Short 35.5mm Offset Exeter Cemented Femoral Component

Dan Williams, The Princess Elizabeth Orthopaedic Centre, Exeter, U.K.; Jonathan Howell, The Princess Elizabeth Orthopaedic Centre, Exeter, U.K.; Matthew Hubble, The Princess Elizabeth Orthopaedic Centre, Exeter, U.K.; John Timperley, The Princess Elizabeth Orthopaedic Centre, Exeter, U.K.; Graham A. Gie, The Princess Elizabeth Orthopaedic Centre, Exeter, U.K.

44 - Revision of Hemiarthroplasty to Total Hip Arthroplasty Using the Cement in Cement Technique

Dan Williams, The Princess Elizabeth Orthopaedic Centre, Exeter, U.K.; Emily Mounsey, The Princess Elizabeth Orthopaedic Centre, Exeter, U.K.; Jonathan Howell, The Princess Elizabeth Orthopaedic Centre, Exeter, U.K.; Matthew Hubble, The Princess Elizabeth Orthopaedic Centre, Exeter, U.K.; John Timperley, The Princess Elizabeth Orthopaedic Centre, Exeter, U.K.; Graham A. Gie, The Princess Elizabeth Orthopaedic Centre, Exeter, U.K.

45 - Accuracy of the Birmingham Hip Resurfacing Femoral Component Positioning with the Non-navigated Jig Instrumentation

Kristoff Gortén, University Hospital Leuven; Geert Meermans, University Hospital Leuven; Ward Bartels, Catholic University Leuven; Jos Vander Sloten, Catholic University Leuven; Johan Bellemans, University Hospital Leuven; Paul Broos, University Hospital Leuven; Jean-Pierre Simon, University Hospital Leuven

46 - The Effect of Surgical Interventions on the Femoral Biomechanics of the Resurfaced Hip

Kristoff Gortén, University Hospital Leuven; Ward Bartels, Catholic University Leuven; Geert Meermans, University Hospital Leuven; Guy Molenaers, University Hospital Leuven; Johan Bellemans, University Hospital Leuven; Paul Broos, University Hospital Leuven; Jean-Pierre Simon, University Hospital Leuven

47 - The Exeter Classification and Surgical Recommendations for Femoral Cement in Cement (CIC) Revision

Stephen M. Blake, Torbay Hospital, U.K.; Graham A. Gie, Princess Elizabeth Orthopaedic Centre; **Jonathan Howell**, Princess Elizabeth Orthopaedic Centre; Matthew Hubble, Princess Elizabeth Orthopaedic Centre; Andrew J. Timperley, Princess Elizabeth Orthopaedic Centre

48 - Comparison of MRI Oblique Axial and Radial Plane Alpha Angle Measurements in Femoroacetabular Impingement

Paul-Edgar Beaulé, University of Ottawa; Kawan Raktra, University of Ottawa; Adnan Sheikh, University of Ottawa; Allen David, University of Ottawa

49 - Clinical Experience with the Ganz Approach for Metal-on-Metal Hip Resurfacing
Paul-Edgar Beaulé, University of Ottawa; Paul Shim, University of Ottawa; Kamaljeet Banga, University of Ottawa

50 - Pubic Ramus Fractures with Intra-articular Acetabular Extension. Does it Matter?

G. Yves Laflamme, Hôpital du Sacré-Coeur; Josee Delisle, Hôpital du Sacré-Coeur; Dominique Rouleau, Hôpital du Sacré-Coeur; Max Uzei, Hôpital du Sacré-Coeur; Stéphane Leduc, Hôpital du Sacré-Coeur

51 - Reattachment of Trochanteric Non-unions After Failed Cable Fixation Devices

G. Yves Laflamme, Hôpital du Sacré-Coeur; Yvan Petit, École de Technologie Supérieure; Stéphane Leduc, Hôpital du Sacré-Coeur

52 - The Uncemented Bi-contact Hip Arthroplasty: Long-term Results

Girish N. Swamy, Derbyshire Royal Infirmary; Kashif Ahmed, Derbyshire Royal Infirmary

53 - Characterization of Proteoglycan Depletion in Femoroacetabular Impingement with T1 MRI

Pierre-Jean Lattanzio, University of Ottawa; Paul-Edgar Beaulé, University of Ottawa; Kavan Rakhta, University of Ottawa; Ian Cameron, University of Ottawa; Steve Doucette, University of Ottawa; Arturo Cardenas-Blanco, University of Ottawa

54 - Does a Differential Hardness Metal-on-Metal Bearing in Total Hip Arthroplasty Reduce Cobalt and Chromium Ion Levels?

Paul-Edgar Beaulé, University of Ottawa; Paul R. Kim, University of Ottawa

55 - Perioperative Stroke After Total Joint Arthroplasty: Incidence, Predictors and Outcome

S.M. Javad Mortazavi, Rothman Institute; Hassan Kakli, Rothman Institute; Orhan Bican, Rothman Institute; Chelsea Delsey, Rothman Institute; Michael Moussouttas, Thomas Jefferson University Hospital; Javad Parvizi, Rothman Institute

56 - Hip Resurfacing Arthroplasty-findings from CJRR

Shirley Chen, Canadian Institute for Health Information; Mihaela Marin, Cancer Care Ontario; Tammy Estabrooks, Canadian Institute for Health Information; Joseph Emmanuel Amuah, Canadian Institute for Health Information; Nansu Zhu, Canadian Institute for Health Information

57 - Recurrent Instability Following Total Hip Arthroplasty: A Challenging Problem

Khalid Azzam, Rothman Institute; Javad Parvizi, Rothman Institute; Lauren May, Rothman Institute; Eile Ghanem, Rothman Institute; James J. Purtill, Rothman Institute; William J. Hozack, Rothman Institute

58 - Do We Need MRI to Diagnose Femoroacetabular Impingement?

Cefin Barton, University of Ottawa; Kamaljeet Banga, University of Ottawa; Kavan Rakhta, University of Ottawa; Paul-Edgar Beaulé, University of Ottawa

59 - Revision Total Hip Arthroplasty: Is a Modular Stem Useful?

Camilo Restrepo, Rothman Institute; Timothy R. Murphy, Rothman Institute; Magdalena Mashadi, Rothman Institute; Matthew S. Austin, Rothman Institute; Zachary Post, Rothman Institute; William J. Hozack, Rothman Institute

60 - Review of Concentric All Polyethylene Exeter Cups in Primary Total Hip Replacement
 Stephen Veitch, Royal Devon and Exeter Hospital, Exeter, U.K.; Matthew Hubble, Royal Devon and Exeter Hospital, Exeter, U.K.; John Timperley, Royal Devon and Exeter Hospital, Exeter, U.K.; Graham A. Gie, Royal Devon and Exeter Hospital, Exeter, U.K.; **Jonathan R. Howell**, Royal Devon and Exeter Hospital, Exeter, U.K.

61 - Risk Factors for Postoperative Pulmonary Embolism, 16,847 Consecutive Total Joint Arthroplasties

Javad Parvizi, Rothman Institute; Luis Pulido, Rothman Institute; Ashis Joshi, Rothman Institute; Deepan N. Patel, Rothman Institute; Peter F. Sharkey, Rothman Institute; Richard H. Rothman, Rothman Institute

62 - The Effect of Total Hip Arthroplasty on Hip Joint Biomechanics During Stair Ascent and Descent

Mario Lamontagne, University of Ottawa; Melanie Beaulieu, University of Ottawa; Jing Xian Li, University of Ottawa; Paul-Edgar Beaulé, University of Ottawa

63 - A Clinical and Radiological Evaluation of Cementless Porous-coated Tantalum and Titanium Acetabular Cups in Revision Hip Arthroplasty: A Comparison Study

S. Mehdi Jafari, Rothman Institute; William J. Hozack, Rothman Institute; Benjamin Bender, Rothman Institute; Catelyn Coyle, Rothman Institute; Javad Parvizi, Rothman Institute; James J. Purtill, Rothman Institute; Pete F. Sharkey, Rothman Institute

64 - The Accuracy and Reliability of Digital Templating for Total Hip Arthroplasty
Raul Kuchinad, University of Calgary, Division of Orthopaedic Surgery; Cory S. Cundal, University of Calgary, Division of Orthopaedic Surgery; Brian C. Burkart, University of Calgary, Division of Orthopaedic Surgery

65 - Patient Activities Leading to Total Hip Arthroplasty Dislocation

James J. Howard, London Health Sciences Centre; Aaron Krych, Mayo Clinic; Nicolas Noiseux, Mayo Clinic; Daniel Berry, Mayo Clinic

66 - Total Hip Arthroplasty Following Failure of Core Decompression and Tantalum Rod Insertion for Femoral Head Avascular Necrosis

Peter Lewis, St. Michael's Hospital, Toronto; Michael Olsen, St. Michael's Hospital, Toronto; Michael D. McKee, St. Michael's Hospital, Toronto; James P. Waddell, St. Michael's Hospital, Toronto; Emil H. Schernitsch, St. Michael's Hospital, Toronto

67 - Metal-on-Metal Total Hip Arthroplasty: Five to Eleven Years Follow-up

Vassilios S. Nikolaou, SMBD-Jewish General Hospital, McGill University, Montreal; Alain Petit, Lady Davis Institute for Medical Research; Olga L. Huk, SMBD-Jewish General Hospital, McGill University, Montreal; David Zukor, SMBD-Jewish General Hospital, McGill University, Montreal; John Antoniou, SMBD-Jewish General Hospital, McGill University, Montreal

68 - Hospitalizations, Early Revisions and Infections Following Joint Replacement Surgery

Eric Bohm, University of Manitoba; Michael J. Dunbar, QEI Health Sciences Centre; Tracy Johnson, CHI; Jennifer Froot, CHI; Kathleen Morris, CHI

69 - Large Head Metal-on-Metal Total Hip Arthroplasty versus Hip Resurfacing Surgery in Patients Under 60 Years of Age. Is There a Difference to the Clinical Outcome?
Vassilios Nikolaou, SMBD-Jewish General Hospital, McGill University, Montreal; Alan Petit, Lady Davis Institute for Medical Research; Olga L. Huk, SMBD-Jewish General Hospital, McGill University, Montreal; David Zukor, SMBD-Jewish General Hospital, McGill University, Montreal; John Antoniou, SMBD-Jewish General Hospital, McGill University, Montreal

70 - Mid-term Results of Solid Tripped Reflection: Cementless Acetabular Component for Primary THR. A 5- to 11-year Follow-up Study

Kristoff Corten, University Hospital, University of Western Ontario; Richard W. McCalden, University Hospital, University of Western Ontario; Yee Sze Teo, University Hospital, University of Western Ontario; Robert B. Bourne, University Hospital, University of Western Ontario; Steven J.M. MacDonald, London Health Science Centre Joint Replacement Institute; Cecil H. Rorabeck, University Hospital, University of Western Ontario

71 - Results of Long Stemmed Cemented Femoral Revisions for Periprosthetic Femoral fractures in the Elderly

Kristoff Corten, University Hospital, University of Western Ontario; Douglas Naudie, University Hospital, University of Western Ontario; Richard W. McCalden, University Hospital, University of Western Ontario; Steven J.M. MacDonald, University Hospital, University of Western Ontario; Robert B. Bourne, University Hospital, University of Western Ontario; Cecil H. Rorabeck, University Hospital, University of Western Ontario

72 - Early Complications of Surface Replacement Arthroplasty of the Hip:

A 1-to-5-Year Follow-up Study
Kristoff Corten, University Hospital, University of Western Ontario; Douglas Naudie, University Hospital, University of Western Ontario; Richard W. McCalden, University Hospital, University of Western Ontario; Robert B. Bourne, University Hospital, University of Western Ontario; Cecil H. Rorabeck, University Hospital, University of Western Ontario

73 - Heterotopic Ossification Following Resurfacing Arthroplasty of the Hip

Nelson V. Gredanus, UBC; Wael Rahman, Egypt; Donald Garbuz, UBC; Bas A. Masri, UBC; Clive P. Duncan, UBC

Adult Reconstruction Knee

74 - When Does Postoperative Standing Function After Total Knee Arthroplasty Improve Beyond Preoperative Level of Function?

Kenjo Harato, NHO Tochigi Hospital; Hiroki Yoshida, NHO Tochigi Hospital

75 - Extensor Mechanism Rupture After TKA Treated with Extensor Mechanism Allograft: Clinical Results and Distal Fixation Using the Impacted Tubercle Technique
Martin Bédard, Laval University; Kelly G. Vince, Auckland City Hospital

76 - Is Anterior Femoral Notching in Total Knee Replacement a Risk Factor For Supracondylar Fracture of Femur?

Amit Patti, NHS Tayside; Narendra Gujarathi, University of Dundee; Rami Abboud, University of Dundee; Jamie Maclean, NHS Tayside; Arthur Espley, NHS Tayside; **Catherine Kelleff**, NHS Tayside

77 - Optimizing Functional Outcomes in Patients Discharged 4 Days After Total Knee Replacement: A Pilot Study

Veronica Wadey, University of Toronto; Hélène Moffet, University of Laval; François Marquis, Laval University; Marc Bouchard, Laval University; Norbert Dion, Laval University; Carol Richards, Laval University

78 - Decision Aids Shorten Consult Times and Increase Satisfaction for Both Patients and Surgeons in Preparation for Knee Replacement Surgery

Geoffrey Dervin, University of Ottawa; Dawn Stacey, University of Ottawa

79 - Surgeons' Assessment of Outcome Parameters, Evaluated Through Decision Analysis, Supports Unicompartamental Knee Replacement (UKR) as Treatment for Medial Compartment Gonarthrosis

Arno Smit, White Rock Orthopaedic Surgery Centre

80 - A Pooled Analysis of Four Pivotal Studies of Rivaroxaban For the Prevention of Venous Thromboembolism After Orthopaedic Surgery: Effect on Symptomatic Venous Thromboembolism and Death, and Bleeding

Alexander G.G. Turpie, McMaster University, Hamilton; Michael R. Lassen, Nordsjællands Hospital; Alay K. Kakkar, Barts and the London School of Medicine and Dentistry; Bengt I. Eriksson, Sahlgrenska University Hospital; Frank Misselwitz, Bayer HealthCare AG, Wupp; Tiemo J. Bandel, Bayer HealthCare AG, Wupp; Martin Homering, Bayer HealthCare AG, Wupp; Torsten Westermeyer, Bayer HealthCare AG, Wupp; Michael Gent, McMaster University, Hamilton

81 - Randomised Controlled Trial to Evaluate the Effect of a Patient Decision Aid for Total Knee Arthroplasty on Wait Times and Decision Quality

Dawn Stacey, University of Ottawa; Gillian Hawker, University of Toronto; Annette O'Connor, University of Ottawa; **Geoffrey Dervin**, University of Ottawa; Monica Taljaard, Ottawa Health Research Institute; Peter Tugwell, University of Ottawa; Ivan Tomek, Dartmouth College; Marie Pascale Pomey, University of Montreal; Dean Fergusson, Ottawa Health Research Institute

82 - Predicting the Longer Term Outcomes of Total Knee Arthroplasty

Rajiv Gandhi, University of Toronto; Herman Dhotar, University of Toronto; Fahad Hazak, University of Toronto; Peggy Tso, University of Toronto; J. Roderick Davey, University of Toronto; Nizar N. Mahomed, University of Toronto

83 - Using Vibration Analysis to Evaluate the Performance of Synovial Injections (Pilot Study)

Anthony Adili, McMaster University; Siamak Salari, McMaster University; Hau Wu, McMaster University; J.D. Adachi, McMaster University; John F. MacGregor, McMaster University; Alfred A. Cividino, McMaster University; Colin Weber, McMaster University; Raja Bobba, McMaster University; Rick A. Ogilvie, McMaster University; Leslie McKnight, McMaster University; Carmen Otero, McMaster University; James P. Reilly, McMaster University

84 - Factors that Affect Patient Flexion Outcome and the Influence of the High Flexion Design of the Genesis II TKR System

Steven J.M. MacDonald, University Hospital, University of Western Ontario; Kory D. Charron, University Hospital, University of Western Ontario; Richard W. McCalden, University Hospital, University of Western Ontario; Robert B. Bourne, University Hospital, University of Western Ontario; Douglas Naude, University Hospital, University of Western Ontario

85 - Chronic Narcotic Use Prior to Total Knee Arthroplasty

Frank M. Armocida, Rubin Institute for Advanced Orthopaedics; **Michael G. Zywiak**, Rubin Institute for Advanced Orthopaedics; Seung Y. Lee, Hallym University Medical Centre; Mike S. McGrath, Rubin Institute for Advanced Orthopaedics; Peter M. Bonutti, Bonutti Clinic; Michael A. Mont, Rubin Institute for Advanced Orthopaedics

86 - Seven Year Survival Analysis of Oxford Unicompartmental Knee Arthroplasty in Patients 50 Years of Age or Less

David Longino, University of Calgary; Ulf Svard, Karnsjukhuset Hospital, Skovde, Sweden; Kyung T. Kim, Seoul Sacred Heart General Hospital, Seoul, Korea; Peter Muller, Ludwig-Maximilians-Universität München; Patrick Weber, Ludwig-Maximilians-Universität München; Nick Fiddian, Nuffield Hospital, Bournemouth, U.K.; David Shakespeare, The Warwickshire Nuffield Hospital, UK; Graham Keys, Macclesfield, Spire Regency Hospital, U.K.; Gareth Stables, Macclesfield District General Hospital, U.K.; David G. Murray, Nuffield Department of Orthopaedic Surgery, Oxford, U.K.; Andrew Price, Nuffield Department of Orthopaedic Surgery, Oxford, UK.

87 - Early Re-intervention Following Oxford Unicompartmental Knee Replacement

Amit Datta, Royal Orthopaedic Hospital Birmingham; Michael David, Royal Orthopaedic Hospital Birmingham; Khalid Baloch, Royal Orthopaedic Hospital Birmingham

88 - The Use of Porous Tantalum in Revision Total Knee Arthroplasty: A Minimum Two-year Follow-up

William Long, Insaill Scott Kelly Institute for Orthopaedics and Sports Medicine; Giles R. Scuderi, Insaill Scott Kelly Institute for Orthopaedics and Sports Medicine

89 - Fifteen-year Experience with Soft Tissue Expansion in Total Knee Arthroplasty

William Long, Insaill Scott Kelly Institute for Orthopaedics and Sports Medicine; Charles H. Wilson, Insaill Scott Kelly Institute for Orthopaedics and Sports Medicine; Fred D. Cushman, Insaill Scott Kelly Institute for Orthopaedics and Sports Medicine; Susan M. Scott, Insaill Scott Kelly Institute for Orthopaedics and Sports Medicine; W. N. Scott, Insaill Scott Kelly Institute for Orthopaedics and Sports Medicine

90 - A Prospective Comparative Study of Hinged and Non-hinged Prostheses in Revision TKA

Elie Ghanem, Rothman Institute; Ian Pawasarat, Rothman Institute; Khalid Azzam, Rothman Institute; Ashish Joshi, Rothman Institute; Peter F. Sharkey, Rothman Institute; Javad Parvizi, Rothman Institute

91 - Bilateral Arthroplasty: A Risk Factor for Another Complication

S. Mehdi Jafari, Rothman Institute; Krista Goodman, Rothman Institute; Javad Parvizi, Rothman Institute; Richard H. Rothman, Rothman Institute

92 - Sequential versus Staged Bilateral TKA: Differences in Clinical Outcome

Justin de Beer, Hamilton Arthroplasty Group, Hamilton Health Sciences Henderson Hospital; Danielle Petruccelli, Hamilton Arthroplasty Group, Hamilton Health Sciences Henderson Hospital; Mitchell J. Winemaker, Hamilton Arthroplasty Group, Hamilton Health Sciences Henderson Hospital

93 - Prioritizing Patients for TKA Review: Putting Evidence into Practice

Jeffrey D. Gollish, Sunnybrook Health Sciences Centre, University of Toronto; Suzanne Denis, Sunnybrook Health Sciences Centre, University of Toronto, McMaster University; Linda J. Woodhouse, McMaster University, Sunnybrook Health Sciences Centre, Hamilton Health Sciences Corporation; Deborah Kennedy, Sunnybrook Health Sciences Centre, University of Toronto, McMaster University; Paul Stratford, McMaster University; Susa Roberts, Sunnybrook Health Sciences Centre; Jennifer Winter Di Cola, Sunnybrook Health Sciences Centre; Shahiroz Juma, Sunnybrook Health Sciences Centre; Patricia Dickson, Sunnybrook Health Sciences Centre; Susan Clarke, Sunnybrook Health Sciences Centre; Veronica Palinkas, Sunnybrook Health Sciences Centre

94 - Transfusion Rates in Total Hip and Knee Arthroplasty and the Impact of a Peri-operative Reintusion System

Carol R. Hutchison, University of Calgary; Charles MacAdams, Calgary Health Region; Rebecca Rock, Calgary Health Region; Margot Wilderdijk, University of Calgary

95 - Disability Following Primary Total Knee Replacement: Role of Satisfaction, Self Efficacy and Perceived Physical and Mental Health

Helen Razmjou, Holland Orthopaedic and Arthritic Centre; C. Stewart Wright, Holland Orthopaedic and Arthritic Centre

96 - Total Joint Arthroplasty Infections Caused by Antibiotic-resistant Strains: The Economic Perspective

Javad Parvizi, Rothman Institute; Khalid Azzam, Rothman Institute; Ian Pawasarat, Rothman Institute; Ashish Joshi, Rothman Institute; Kevin Bozaic, University of California

97 - Total Joint Arthroplasty: Perioperative Anemia, Blood Management and Postoperative Outcome

Javad Parvizi, Rothman Institute; Luis Pulido, Rothman Institute; Ian Pawasarat, Rothman Institute; Justin Wei, Rothman Institute; Ja Herman, Thomas Jefferson University Hospital; Richard H. Rothman, Rothman Institute

98 - Isolated Revision of Failed All-polyethylene Patella: Is it a Straightforward Operation?

S. Mehdi Mortazawi, Rothman Institute; Daniele Ponzio, Rothman Institute; Wadin Matar, Rothman Institute; James J. Purtill, Rothman Institute; William J. Hozack, Rothman Institute; Peter F. Sharkey, Rothman Institute; Javad Parvizi, Rothman Institute

99 - Early Results of Tantalum Femoral Cones in Revision Total Knee Arthroplasty

James J. Howard, London Health Sciences Centre; Jeremy Kudera, Mayo Clinic; David Lewallen, Mayo Clinic; Arlen Hanssen, Mayo Clinic

100 - Don't Just Point Anywhere. Precise Landmarking in Computer-assisted TKA is Critical to Final Alignment

Yaron S. Brin, Department of Orthopaedic Surgery, Jewish General Hospital, McGill University; Israel; Isaac Livshetz, Department of Orthopaedic Surgery, Meir Medical Centre, Kfar-Saba, Tel-Aviv Hospital, McGill University; Sari Greenberg-Dotan, Department of Epidemiology, Faculty of Health Sciences, Ben-Gurion University of the Negev, Beer-Sheva, Israel; John Antoniou, Department of Orthopaedic Surgery, Jewish General Hospital, McGill University; **David J. Zukor**, Department of Orthopaedic Surgery, Jewish General Hospital, McGill University

101 - Diagnosis of Periprosthetic Infection: Is Joint Fluid Cell Count in Early Postoperative Period Reliable?

Constantinos Ketonis, Thomas Jefferson University; Elie Ghanem, Rothman Institute; Khalid Azzam, Rothman Institute; Cynthia Kelly, Rothman Institute; Javad Parvizi, Rothman Institute

102 - Does Navigation Tell the Truth? Deviations Between Navigation Data and Postop X-rays in TKA

Isaac Livshetz, Department of Orthopaedic Surgery, Jewish General Hospital, McGill University; Yaron S. Brin, Department of Orthopaedic Surgery, Jewish General Hospital, McGill University; Department of Orthopaedic Surgery, Meir Medical Centre, Kfar-Saba, Tel-Aviv University, Israel; Christina Holcroft, Centre for Clinical Epidemiology and Community Studies, Jewish General Hospital, McGill University; John Antoniou, Department of Orthopaedic Surgery, Jewish General Hospital, McGill University; **David J. Zukor**, Department of Orthopaedic Surgery, Jewish General Hospital, McGill University

103 - A Comparison of Quality of Life Outcomes in Revision versus Primary Total Knee Arthroplasty

Nelson V. Greidanus, UBC; Richard Peterson, Australia; Donald Garbuz, UBC; Bas A. Masri, UBC

104 - Success of Knee Arthroplasty Revision for Stiffness

Thomas Turgeon, University of Manitoba; David Hedden, University of Manitoba; Colin Burnell, University of Manitoba; Eric Bohm, University of Manitoba

Sports Medicine

105 - Systematic Review of Patients' Administered Shoulder Functional Score on Instability

Dominique Rouleau, Hôpital Sacré-Coeur de Montréal; Kenneth J. Faber, University Western Ontario; Joy MacDermid, University Western Ontario; **Valérie Deslauriers**, Université de Montréal

106 - Postoperative Pain and Medication Behaviour Following an Anterior Cruciate Ligament (ACL) Reconstruction: Single versus Double Bundle

Mark S. Heard, Banff Sport Medicine; Laurie A. Hemstra, Banff Sport Medicine; Tenny M. Sasyniuk, LifeMark Health and Banff Sport Medicine; Bradley J. Monteleone, LifeMark Health and Banff Sport Medicine

107 - Presence of Markers of Femoroacetabular Impingement in the Asymptomatic Population

Charis Raynor, The University of Western Ontario; Trevor Birmingham, The University of Western Ontario; Dianne Bryant, The University of Western Ontario; Scott Wotherspoon, The University of Western Ontario; **Kevin Willits**, The University of Western Ontario

108 - Graft Tensioning in ACL Reconstruction: A Systematic Review of Randomised Controlled Trials

Shalinder Arneja, UBC; Mark McConkey, UBC; Kishore Mulpur, UBC; Patrick Chin, UBC; Michael Gilbert, UBC; William D. Regan, UBC; Jordan Leith, UBC

Trauma

109 - Civilian Pelvic Gunshot Wounds

Mykola Bartkiw, Detroit Receiving Hospital; Franco Coniglione, Detroit Receiving Hospital; Danny Holland, Detroit Receiving Hospital; **Anil Sethi**, Detroit Receiving Hospital; Robert Colen, Detroit Receiving Hospital; Rahul Vaidya, Detroit Receiving Hospital

110 - A 10-year Retrospective Analysis of All Terrain Vehicle Injuries Treated in St. John's Tertiary Care Setting

Tahnir H. El-Tahan, Memorial University; Frank O'Dea, Memorial University; Bryan Curtis, Memorial University

Upper Extremity

111 - Acute versus Chronic Bony Bankart: Postoperative Long-term Clinical Outcomes After Arthroscopy

Paolo Paladini, Department of Shoulder and Elbow Surgery, Cervesi Hospital, Cattolica, Italy; Francesco Pegreff, Department of Shoulder and Elbow Surgery, Cervesi Hospital, Cattolica, Italy; Fabrizio Campi, Department of Shoulder and Elbow Surgery, Cervesi Hospital, Cattolica, Italy; Giuseppe Porcellini, Department of Shoulder and Elbow Surgery, Cervesi Hospital, Cattolica, Italy

112 - The Reliability and Validity of the DASH, EQ-5D, and Health Utilities Index Questionnaires in Patients with Proximal Humerus Fractures

Gerard Siobogean, UBC; Vanessa Noonan, UBC; Peter J. O'Brien, UBC

Foot and Ankle

113 - Evidence Based Indication for Ankle Arthroscopy

Mark Glazebrook, Dalhousie University; Venkat A. Gonapathy, Dalhousie University; Michael A. Bridge, Dalhousie University; **Jean-Pascal Allard**, Dalhousie University

Hand and Wrist

114 - Management of 5th Metacarpal Fractures: A Survey of Current Practice

Among Upper Limb Surgeons in United Kingdom

Ajay Sahu, Royal Blackburn Hospital, U.K.; Sunil Batra, Royal Blackburn Hospital, U.K.; Sarabjeet Gujral, Royal Blackburn Hospital, U.K.; Mak S. Srinivasan, Royal Blackburn Hospital, U.K.; Vishal Upadhyay, Poole General Hospital

115 - Flexible K-wires for Intramedullary Fixation of Fractures of Metacarpals

and Phalanges

Jaswant Singh, Singh Orthopaedic Hospital, Ram Singh, Singh Orthopaedic Hospital

116 - Interfragmentary Compression of the Acute Scaphoid Fracture:

A Cadaveric Model Comparing 2 Screw Systems

Ruby R. Grewal, Hand & Upper Limb Centre - St. Joseph's Health Centre; David Sauder, Hand & Upper Limb Centre - St. Joseph's Health Centre; Joseph Assini, University of Western Ontario; Louis Ferreira, Hand & Upper Limb Centre - St. Joseph's Health Centre; Jim Johnson, Hand & Upper Limb Centre - St. Joseph's Health Centre; Kenneth J. Faber, Hand & Upper Limb Centre - St. Joseph's Health Centre

Paediatrics

117 - Current Trends in the Surgical Treatment of Neuromuscular Scoliosis in Canada

Ron El-Hawary, Dalhousie University; Peter F. Jarzem, McGill University; Reinhard Zeller, University of Toronto; Douglas Hedden, University of Alberta; Stephen Lewis, University of Toronto

118 - Comparative Radiological Analysis of Different Methods of Correction

of Clubfeet

Ajay Sahu, Stepping Hill Hospital; N.S. Harshavardena, Gandhi Medical College Hospital; Vishal Upadhyay, Gandhi Medical College Hospital; U. Butt, Gandhi Medical College Hospital

119 - The Utility of Computed Tomography in Assessing Reduction of

Developmentally Dislocated Hips

Lauren Allen, University of Saskatchewan; Daniel J. Sucato, Texas Scottish Rite Hospital for Children; Adriana Hernandez, Texas Scottish Rite Hospital for Children

Critical Issues

120 - Different Quality of Care to Injured Smokers?

Dominique Rouleau, Hôpital Sacré-Coeur de Montréal; Debbie Feldman, Université de Montréal; Stéfan Parent, Hôpital Sacré-Coeur de Montréal, Valérie Deslauriers, Université de Montréal

121 - Age, Sex, and Duration of Rheumatoid Arthritis: Risk Factors for Osteoporosis

Francesco Pegrefi, Department of Shoulder and Elbow Surgery, Cervesi Hospital, Catolica, Italy; Lorenza Bellelli, Department of Internal Medicine, University of Modena & Reggio Emilia, Medical School, Modena, Italy; Marco Giunti, Department of Internal Medicine, University of Modena & Reggio Emilia, Medical School, Modena, Italy; Gilda Sandri, Department of Internal Medicine, University of Modena & Reggio Emilia, Medical School, Modena, Italy; Maria Teresa Mascia, Department of Internal Medicine, University of Modena & Reggio Emilia, Medical School, Modena, Italy

122 - Health-related Quality of Life Measures are Underutilized in Hip Fracture

Patients with Severe Cognitive Impairment: A Systematic Review of Level 1 RCTs

Amy M. Hoang-Kim, University of Toronto; Dorcas Beaton, University of Toronto; Mohit Bhandari, McMaster University; Abhaya V. Kulkarni, University of Toronto; Paul Karanickolas, McMaster University; Emil H. Schemitsch, University of Toronto

123 - Monitoring Radiological Outcome in Lower Limb Arthroplasty as an Index

for Quality Control

Aswinkumar Vastreddy, Great Western Hospital; John Ivory, Great Western Hospital; Adam Brooks, Great Western Hospital; Michael Rigby, Great Western Hospital; Sandeep Deo, Great Western Hospital; Venkat Satish, Great Western Hospital; Ian Lowdon, Great Western Hospital

Other

124 - Transition of the Patient Scar Assessment Scale (PSAS) to French-Canadian,

with Cross-cultural Adaptation, Reliability Evaluation and Validation

Dominique Rouleau, Hôpital Sacré-Coeur de Montréal; Valérie Deslauriers, Université de Montréal; Ghassan Alami, Université de Montréal; Joy MacDermid, University of Western Ontario

125 - Assessing Agreement and Sensitivity of the Short-form 36 Physical Summary

Score and the Short Musculoskeletal Function Assessment Questionnaire Among

Patients with Operatively Managed Tibial Fractures

Jason W. Busse, Institute for Work & Health; Mohit Bhandari, McMaster University; Gordon H. Guyatt, McMaster University; Dian Heels-Ansdell, McMaster University; Scott J. Mandel, McMaster University; David W. Sanders, University of Western Ontario; Emil H. Schemitsch, University of Toronto; Marc F. Swiontkowski, University of Minnesota; Paul Tornetta III, Boston University School; Eugene Wai, University of Ottawa; Stephen D. Walter, McMaster University

126 - Burden of Illness of Venous Thromboembolism Following Total Hip

and Total Knee Replacement in Canada

Rita Selby, Division of Hematology, University of Toronto, Toronto; Debbie Becker, i3Innovus, Burlington, Canada; Heather McDonald, Bayer Inc., Canada; Shannon Gartler, i3Innovus, Burlington, Canada; Mark Crowther, Department of Hematology, St. Joseph's Healthcare, Hamilton, Canada; Phil Wells, Division of Hematology and Clinical Epidemiology, Ottawa Health Research Institute/University of Ottawa, Ottawa

127 - Economic Comparison of Rivaroxaban with Enoxaparin and Dabigatran in Canada: Results from Direct and Indirect Comparisons of Prophylaxis After Total Hip Replacement (THR) and Total Knee Replacement (TKR)
Pill Wells, Division of Hematology and Clinical Epidemiology, Ottawa Health Research Institute/University of Ottawa, Ottawa; Alex Diamantopoulos, IMS Health, London, U.K.; Heather McDonald, Bayer Inc., Canada; Fiona Forster, IMS Health, London, U.K.; Michael Lees, Bayer HealthCare, Uxbridge, U.K.

128 - Validation d'un simulateur de conduite sur les effets des immobilisations orthopédiques du membre inférieur droit

Jean-Christophe Murray, Centre Hospitalier Universitaire de Sherbrooke; Hélène Corribeau, Centre de Recherche sur le Veillissement; Marc-André Tremblay, Centre Hospitalier Universitaire de Sherbrooke; Mathieu Hamel, Centre de Recherche sur le Veillissement; François Cabana, Centre Hospitalier Universitaire de Sherbrooke

129 - Cadaveric Surgery: A Novel Approach to Clinical Anatomy for Medical Undergraduates

Catherine Kellett, University of Dundee; Roshana Mehdian, University of Dundee; James L. Nutt, University of Dundee; John A. Dent, University of Dundee; Ian G. Parkin, University of Dundee

130 - Low Energy Subtrochanteric Fractures in Patients Receiving Bisphosphonate Therapy

Edward Scriven, McMaster University; Rick Adachi, McMaster University; Leslie McKnight, McMaster University; Justin Debeer, McMaster University; Anthony Adili, McMaster University

CORS Posters

Bone, Ligament and Tendon

131 - Accurate Quantification of Image Blurring on Thin Bone Thickness

Asma Maoui, University of Toronto; Jeff Fialkov, Sunnybrook Health Science; Cari Whyne, University of Toronto

132 - Quantification of Connectivity in Thin Bone Articulations

Asma Maoui, University of Toronto; Jeff Fialkov, Sunnybrook Health Science; Cari Whyne, University of Toronto

133 - Comparison of Fixation of Small Fragment and Mini-fragment Lag Screws in an Osteoporotic Bone Model

Samir Mehta, Hospital of the University of Pennsylvania; Daphne M. Beingsesner, Harborview Medical Centre

134 - Tracking of Bone Fragments Using 2D-3D Registration for Reduction of Complex Bone Fractures

Ren Hui Gong, Queen's University; Purang Abolmaesumi, Queen's University; James I. Stewart, Queen's University; David R. Pichora, Queen's University

135 - The Effect of Anteversion on Hip Fracture Mechanics

Seth Gilchrist, UBC; Pierre Guy, UBC; Peter Crippon, UBC

136 - Biomechanical Analysis of a Novel Internal Fixator for Unstable Pelvic Fractures

Rahul Vaidya, Detroit Receiving Hospital; Anil Sethi, Detroit Receiving Hospital; Robert Colen, Detroit Receiving Hospital; Ed McShane, Synthes Spine; David J. Svach, Synthes Spine; Michael Bushetlow, Synthes Spine

Joints and Arthritis

137 - Functional and Anatomical Orientation of the Femoral Head

David A. Wright, Sunnybrook Hospital Orthopaedic; Omri Lubovsky, Sunnybrook Hospital Orthopaedic; Michael R. Hardisty, Sunnybrook Hospital Orthopaedic; Hans J. Kredler, Sunnybrook Hospital Orthopaedic; Cari Whyne, Sunnybrook Hospital Orthopaedic

138 - Test-retest Reliability of Principal Component Scores for the Knee Adduction Moment During Gait in Patients with Knee OA

Crystal Kean, University of Western Ontario; Trevor Birmingham, University of Western Ontario; Ian Jones, University of Western Ontario; J. Robert Griffin, University of Western Ontario

139 - Functional Imaging of Articular Cartilage Using CT Arthrography

Mark Hurrig, University of Guelph; Angela Bell, University of Guelph

140 - The Functional and Geometric Hip Centre

Andrew Speirs, University of Ottawa; Daniel Benoit, University of Ottawa; Melanie Beaulieu, University of Ottawa; Mario Lamontagne, University of Ottawa; Paul-Edgar Beaulé, University of Ottawa

141 - Normalisation of Kinematics for Clinician Technique Allows High Success Rates in the Automatic Classification of the Pivot Shift Grade

David R. Labbé, École de Technologie Supérieure; Jacques A. de Guise, École de Technologie Supérieure; Julio C. Ferrandes, Hôpital du Sacré-Coeur de Montréal; Véronique Godbout, Hôpital du Sacré-Coeur de Montréal; David Baillargeon, Hôpital de la Cité-de-la-Santé de Laval; Nicola Hagemeister, École de Technologie Supérieure

142 - Nanoparticules chitosane-PEG-FA-ADN pour la thérapie génique non-virale et application dans un modèle d'arthrite induite par un adjuvant chez le rat en présence du gène Il-1Ra

Christian Jreysaty, Hôpital Sacré-Coeur de Montréal/ Université de Montréal; Qin Shi, Hôpital Sacré-Coeur de Montréal/ Université de Montréal; Patrick Lavigne, Hôpital Sacré-Coeur de Montréal/ Université de Montréal; Mohamed Bendoroud, Hôpital Sacré-Coeur de Montréal/ Université de Montréal; Julio C. Ferrandes, Hôpital Sacré-Coeur de Montréal/ Université de Montréal

143 - Using Computer Navigation Technology to Map the Articulating Surfaces of the Knee

Michael J. Dunbar, Dalhousie University; Andreas Sukau, FH OOW, Wilhelmshaven; Konstantin Gortschenin, FH OOW, Wilhelmshaven; Allan Hennigar, Dalhousie University

144 - Anatomical and Functional Measurement of Acetabular Orientation

Michael R. Hardisty, Sunnybrook Health Science Centre; Omri Libovsky, Sunnybrook Health Science Centre; David Wright, Sunnybrook Health Science Centre; Hans J. Kreader, Sunnybrook Health Science Centre; Cari Whyne, Sunnybrook Health Science Centre

145 - Effect of (Monomer to Polymer Ratio) on Mechanical and Thermal

Characteristics of Acrylic Bone Cement

NO DISCLOSURE PROVIDED

Aryan Dawoodi, Worthing General Hospital; Sam L. Evans, School of Engineering

Spine

146 - Validation of a Computer-assisted Method of Measuring Vertebral Rotation in AIS

Marc J. Moreau, University of Alberta; Edmond Lou, Alberta Health Services; Douglas L. Hill, Alberta Health Services; James K. Mahood, University of Alberta; Douglas Hedden, Alberta Health Services; Jim V. Raso, Alberta Health Services

147 - Associations Between the Progression of Surface Topography Abnormalities and

Maximal Cobb Angle in Adolescent with Idiopathic Scoliosis Differ Between Subgroups

Eric C. Parent, University of Alberta; Douglas L. Hill, Alberta Health Service; **Marc J. Moreau**, University of Alberta; James K. Mahood, Alberta Health Services; Jonathan Chin, Alberta Health Services

Alberta Health Services

148 - Vertebral Body and Facet Joint Loading with Multilevel Maverick Total Disc

Replacement Adjacent to a Long Spinal Fusion

Claire F. Jones, UBC; **Qingan A. Zhu**, UBC; Timothy N. Schwab, UBC; Chadwick R. Larson, UBC; Eyal Itshayek, UBC; Lawrence G. Lenke, Washington University School of Medicine; Peter A. Cripton, UBC

149 - Calcification in Intervertebral Disc Degeneration and Scoliosis

Gergana I. Hristova, McGill University; Fackson Mwale, McGill University; Peter F. Jarzem, Montreal Children's Hospital; Jean Ouellet, Montreal Children's Hospital; Peter J. Roughley, Shriners Hospital for Children; John Antoniou, McGill University

150 - The Dynamic Shear Behaviour of Poly- α -acetyl Glucosamine Materials as

Compared to Intervertebral Nucleus Pulposus Tissue

Deepthi Gorapalli, Sunnybrook Health Sciences Centre, University of Toronto; Arun Seth, Sunnybrook Health Sciences Centre, University of Toronto; Aiguo Zhang, Sunnybrook Health Sciences Centre; Marina Demcheva, Marine Polymer Technologies Inc.; John Voumrakis, Marine Polymer Technologies Inc.; **Albert J.M. Yee**, Sunnybrook Health Sciences Centre, Department of Surgery, University of Toronto Spine Program; David James, Faculty of Applied Sciences and Engineering, University of Toronto; Cari Whyne, Orthopaedics Biomechanics Laboratory, Sunnybrook Health Sciences Centre, University of Toronto

Other

151 - The Incidence of Distal Humerus Fractures in the City of Calgary:

A Population-based Study

David Sheps, University of Alberta; Kyle Kemp, University of Alberta; Kevin Hildebrand, University of Calgary

152 - A Study of Microbial Colonisation of Orthopaedic Rhys-Davies Exsanguinators

in a District Hospital in UK

Ajay Sahu, Stepping Hill Hospital; William Cheetham, Stepping Hill Hospital; Emma Watson, Stepping Hill Hospital; David S. Johnson, Stepping Hill Hospital; Sanjay J. Anand, Stepping Hill Hospital; **N.S. Harshavardena**, Stepping Hill Hospital