



COA/CORS Posters
**Posters will be on display in the Exhibit Hall:
Confederation & Provinces Ballroom and Foyer**

SPECIAL EMPHASIS POSTER: See this poster at tabletop display in the Registration area Table #4!

**Education on Domestic Violence: Understanding Clinicians' And Traumatologists' Experiences
(EDUCATE)**

EDUCATE Investigators, Canada and The United States

COA HIGH SCORING POSTERS

Adult Reconstruction Hip

1 - The Effect of Preoperative Administration of Tranexamic Acid During Revision Hip Arthroplasty: A Retrospective Study

David Kepecs, ON; Jonathan Peck, ON; Bill Mei, ON; David Backstein, ON; Oleg Safir, ON; Allan Gross, ON; Paul R Kuzyk, ON

Adult Reconstruction Knee

2 - Incidence and Predictors of Total Knee Arthroplasty Following Knee Arthroscopy

Tristan Camus, BC; William J Long, US; Jiho Han, US; Feroz Osmani, US; Norman Scott, US

3 - The Clinical Outcome of Patellofemoral Arthroplasty vs Total Knee Arthroplasty in Younger Patients with Isolated Patellofemoral Osteoarthritis

Ivan Kamikovski, ON; Johanna Dobransky, ON; Geoffrey Dervin, ON

Critical Issues & Education

4 - Evaluating the Utility of an Entrustment Scale for the Assessment of Technical Skill: Multiple Applications of an Emerging Assessment Tool

Michelle L Zec, ON; J Damon Dagnone, ON; Laura A McEwen, ON; Braden Gammon, ON; Douglas McKay, ON; Eric Tremblay, ON; Gabriel Venne, QC; David R Pichora, ON

5 - Variations in Physiological and Psychological Responses of Orthopaedic Surgeons and Clinical Fellows during Surgical Practice

Brent Lanting, ON; Sarantis Abatzoglou, ON; Kevin Milne, ON; Emily Dobbin, ON; Edward Vasarhelyi, ON; James Howard, ON

6 - Transforming Shoulder Care Through Innovative Shared-Care Community Networks and Health System Design Improvements

Stephen Gallay, ON; Farah Nabi, ON; Joel Lobo, ON; Jesse Slade Shantz, ON

7 - The Shoulder Centre – Utilizing an Interactive Performance Dashboard to Improve Patient Care and Enable Better Decisions

Farah Nabi, ON; Stephen Gallay, ON; Joel Lobo, ON; Jesse Slade Shantz, ON



8 - The Orthopaedic Trauma Symposium: Improving Care of Orthopaedic Injuries in Haiti

Helena Greene, NL; Ryan Normore, NL; Andrew Furey, NL

Paediatrics

9 - Inter and Intraobserver Reliability of the Radiographic Diagnosis of Avascular Necrosis of the Femoral Head in Developmental Dysplasia of the Hip

Emily Schaeffer, BC; Wudbhav N Sankar, PA; Harry Kim, US; Simon Kelley, ON; Peter J Cundy, South Australia; Charles T Price, US; Nicholas P Clarke, Hampshire; John H Wedge, ON; Kishore Mulpuri, BC; IHDI Study Group, US

10 - Routine Clinical and Radiographic Follow-Up for all Paediatric 5th Metatarsal Fractures is Unnecessary

Danielle Meschino, ON; Mark W Camp, ON

11 - Using Arm Length to Predict Upper Extremity Peripheral Nerve Position in Paediatric Orthopaedics

Ryan O'Shea, ON; Jyoti Panwar, ON; William Chu Kwan, ON; Jim Kennedy, ON; Jennifer Stimec, ON; Mark Camp, ON; Martin Gargan, ON

Sports Medicine

12 - The Effect of Acetabular Depth on Clinical Outcomes After Hip Arthroscopy in Patients with Femoroacetabular Impingement

Graeme P Whyte, US; Ernest Sink, US; Struan Coleman, US

13 - Impact of Bony Stress Injuries on Professional Basketball Performance

Moin Khan, ON; Kim Madden, ON; Tyrrell Burrus, US; Joe Rogowski, US; Jeff Stotts, US; Marisa Samani, US; Robby Sikka, US; Asheesh Bedi, US

14 - The "Safe Zone" Technique Improves Suture Placement and Accuracy During Arthroscopic Remplissage: A Cadaveric Validation of A Novel Technique

Ryan Degen, ON; Grant H Garcia, US; Joseph N Liu, US; Cynthia Kahlenberg, US; Daniel Hurwit, US; Joshua S Dines, US

Tumour

15 - Improving The Primary-Secondary Care Referral Interface For Suspected Soft Tissue Sarcoma: An educational Intervention

Krista Goulding, QC; Robert J Grimer, United Kingdom

16 - The Biological Significance of Tumour Growth During Preoperative Radiation

Christian Edward Isaac, ON; Colleen I Dickie, ON; Anthony M Griffin, ON; Peter C Ferguson, ON; Peter W Chung, ON; Charles N Catton, ON; David Shultz, ON; Jay S Wunder, ON

17 - Long-Term Outcome Following Limb Salvage with the Use of Massive Bone Allograft in Paediatric Patients: Supplementation with a Free Fibula Improves Limb Salvage

Matthew T Houdek, US; Peter S Rose, US; Todd Milbrandt, US; Steven L Moran, US; Franklin H Sim, US



CORS HIGH SCORING POSTERS

Arthroplasty

18 - Optimizing Axisymmetric Radial Head Hemiarthroplasty Contact Mechanics

Jakub Szmit, ON; G Daniel G Langohr, ON; Graham JW King, ON; James A Johnson, ON

19 - Contact Mechanics of the Native Radial Head at the Proximal Radioulnar Joint

Jakub Szmit, ON; G Daniel G Langohr, ON; Graham JW King, ON; James A Johnson, ON

20 - Muscle Activity in Ipsi-and Contralateral limbs in Total Knee Arthroplasty Patient during Level and Sloped Walking

Mario Lamontagne, ON; Erik Kowalski, ON; Clara Philips, ON; Geoffrey Dervin, ON

Bone, Ligament & Tendon

21 - Does Hypoxia Contribute to Rotator Cuff Disease?

Atheer Zarir, ON; Justin Crawford, ON; Ana M Pena Diaz, ON; Matt Florczynski, ON; George S Athwal, ON; Kenneth J Faber, ON; David B O'Gorman, ON

COA POSTERS

Adult Reconstruction Hip

22 - Good Mid to Long-Term Outcomes Following Acetabular Revision with Substantial Bone Loss Using Combined Trabecular Metal Acetabular Shell and Augment

Xin Yu Mei, ON; Alan J Highcock, Wirral; Ibrahim Alshaygy, ON; Oleg A Safir, ON; Allan E Gross, ON; Paul R Kuzyk, ON

23 - Atrial Septal Defect Increases the Risk of Post-Operative Stroke Following Total Hip Arthroplasty

Emmanuel Illical, US; Dean Perfetti, US; Morad Chughtai, US; Matthew Ryan Boylan, US; Joshua Lavian, US; Jaydev Mistry, US; Randa Elmallah, US; Qais Naziri, US; Carl B Paulino, US; Michael A Mont, US

24 - Correlating Self-reported Functional Scores to Number of Steps in Patients with Hip Osteoarthritis

Brent Lanting, ON; Abdulaziz Aljurayyan, ON; Lyndsay Somerville, ON; Matthew Teeter, ON; Edward Vasarhelyi, ON; James Howard, ON

25 - Clinical Outcome of Massive Endoprostheses Used for Managing Peri-prosthetic Joint Infections of the Hip and Knee

George Grammatopoulos, ON; Abtin Alvand, United Kingdom; Ben Kendrick, United Kingdom; Floris de Vos, United Kingdom; Andrew Price, United Kingdom; Will Jackson, United Kingdom; Duncan Whitwell, O United Kingdom; Adrian Taylor, United Kingdom; Max Gibbons, United Kingdom

26 - Show Me the Money, not the Length of Stay: Cost Analysis Study for Optimization of Enhanced Rapid Recovery After Surgery (ERAS) for Total Hip and Knee Arthroplasty - Canadian Community



Hospital Perspective

Wasam Abuzaiter, ON; Michael Woolfrey, ON; Caralee Bolton, ON; Skyler Cartledge, ON

27 - Long-term Outcomes in Patients Receiving a Metal-on-Metal Bearing as Part of Their Primary Total Hip Arthroplasty

Adam Ropchan, ON; Brent Lanting, ON; Lyndsay Somerville, ON; Edward Vasarhelyi, ON; Douglas Naudie, ON; Richard McCalden, ON; Steven MacDonald, ON; James Howard, ON

28 - Impact of Patient Positioning on Acetabular Component Position and Polyethylene Wear Measurements using Modified Radiostereometric Analysis

Prateek Goyal, ON; Matthew Teeter, ON; Xunhua Yuan, ON; James Howard, ON; Brent Lanting, ON

29 - Predicting Hospital Length of Stay and Short-Term Function After Hip or Knee Arthroplasty: Are Both Comorbidity and Performance Measures Useful?

Kendrick Au, ON; Stephane Poitras, ON; Paul E Beaulé, ON; Kristi Wood, ON

30 - A Single Centre Experience with a Titanium Modular Neck Total Hip Replacement

Emmanuel Illical, US; Wade Gofton, ON; Robert J Feibel, ON; Paul R Kim, ON; Paul E Beaulé, ON

31 - How does T1rho Relaxation Time Change with Time in Asymptomatic Hips with CAM Femoral Acetabular Impingement?

George Grammatopoulos, ON; Gerd Melkus, ON; Kawan S Rakhra, ON; Paul E Beaulé, ON

32 - Does the Femoral Head/Neck Contour in the Skeletally Mature Change over Time?

Luca Gala, ON; Vickas Khanna, ON; Kawan S Rakhra, ON; Jae-Jin Ryu, ON; Paul E Beaulé, ON

33- Effect of Femoroacetabular Impingement (FAI) Surgical Correction on Acetabular Labrum Seal

Suzan Bsar, ON; Hanspeter Frei, ON; Paul E Beaulé, ON

Adult Reconstruction Knee

34 - A Comparison of 2 Screening Clinic Approaches to Determine Appropriateness for Total Hip and Knee Replacement

Laura Boland, ON; Geoffrey Dervin, ON; Dawn Stacey, ON

35 - The Association Between Blood Transfusion and Infection for Individuals Who Underwent Primary Knee Replacement Surgery in Nova Scotia, 2001-2013

Michael J Dunbar, NS; Lynn Lethbridge, NS

36 - A 10-year Follow-Up Comparing "High-Flex" vs "Standard" Posterior Cruciate Substituting Polyethylene Tibial Inserts in Total Knee Arthroplasty

Abdulaziz Al-Jurayyan, ON; Douglas Naudie, ON; Steven MacDonald, ON; Edward Vasarhelyi, ON; James Howard, ON; Richard McCalden, ON

37- Stability Assessment of a New Knee Replacement Design Using Radiostereometric Analysis

Glen Richardson, NS; Michael Dunbar, NS; Eric Bohm, MB; Elise Laenda, NS; Trevor Gascoyne, NS; Thomas Turgeon, MB

38 - Cost-Effectiveness of Patellar Resurfacing Compared to Non-Resurfacing in Primary Total Knee Arthroplasty

Edward Vasarhelyi, ON; Edward Vasarhelyi, Colleen Weeks, AB; Stephen Graves, South Australia; Lan



Kelly, South Australia; Jacquelyn Marsh, ON

39 - Defining Safety of Outpatient Total Knee Arthroplasty: Examining Application, Barriers and Exclusions

Geoff Dervin, ON; Megan Gillis, ON

40 - An Objective Biomechanical Triage Tool for Candidates Referred for Total Knee Arthroplasty

Michael J Dunbar, NS; Neila Mezghani, QC; Youssef Ouakrim, QC; Alex Fuentes, QC; Hilary Macdonald, NS; Sara Whynot, NS; C Glen Richardson, NS

41 - Early Identification and Longitudinal Changes of Patient Satisfaction Two-Years After Total Knee Arthroplasty

Kathryn Young, NS; Elise Laende, NS; Joanna Mills-Flemming, NS; Michael Dunbar, NS; Janie Wilson, NS

42 - Reoperation Rate and Functional Outcome Scores of a Fixed Bearing Unicondylar Knee Replacement with Cross Linked Polyethylene at Minimum Four Years Follow Up

Megan Julia Richards, ON; Johanna Dobransky, ON; Geoff Dervin, ON

Critical Issues/Education

43 - A Comparative Analysis of CT and MRI Measurements of Femoral Version in Adult Patients with Hip Dysplasia

Graeme P Whyte, US; Douglas Mintz, US; Robert Buly, US; Ernest Sink, US

44 - The Adoption of a New Electronic Medical Record in a Paediatric Orthopaedic Ambulatory Clinic and its Effects on Clinical Data and Efficiency

Katie P Garland, ON; Kevin Smit, ON; Sasha Carsen, ON

45 - Gap Analysis of Periprosthetic Joint Infections in a High Volume Academic Centre

Mitchel Douglas Armstrong, ON; Hesham Abdelbary, ON; Stephane Poitras, ON; Peter Lapner, ON; Paul E Beaulé, ON

46 - The Inaugural Nine Competency Curriculum Graduates: “Where are they Now?”

Linda Chow, ON; Polina Mironova, ON; Markku Nousiainen, ON; Jeremy Hall, ON; Peter Ferguson, ON; William Kraemer, ON; Ben Alman, NC; OrthoCBC Group, ON; Jack Williams, ON; Veronica Wadey, ON

47 - Developing a Common PROMs Approach for Hip and Knee Arthroplasty in Canada

Nicole De Guia, ON; Ellis Chow, ON; Eric de Sa, ON; Greg Webster, ON; Eric Bohm, MB

48 - Individual Surgeons Dashboard As Part of A Provincial Registry

James Waddell, ON; Reeza Menalo, ON; Claudia Zanchetta, ON; Sandra Foard, ON

49 - Measuring Infection in Arthroplasty Patients using Administrative Data

Lynn Lethbridge, NS; Michael Dunbar, NS

50 - Applying the 2010 Osteoporosis Canada Guidelines: Osteoporosis and Fall Prevention Education in Orthopaedic Surgery Residents

Yiyang Zhang, MB; Jeff Leiter, MB; Ted Tufescu, MB



51 - Developing A Standardized Intelligent e-Referral Form Can Improve Patient Care

Jesse Slade Shantz, ON; Stephen Gally, ON; Farah Nabi, ON; Joel Lobo, ON

52 - Vancomycin Use in Orthopaedic Procedures at The Ottawa Hospital

Amedeo Falsetto, ON; Steven Papp, ON; Kathryn Suh, ON; Wade Gofton, ON

53 - Vibration Feedback in Simulation-based Shoulder Arthroplasty Training

Kristi Wood, ON; Jason Strelzow, Scotland; David Axford, ON; Louis Ferreira, ON; Marie-Eve LeBel, ON

54 - Investigating the Potential Therapeutic Benefit of Bacteriophages in Treating Patients with Peri-Prosthetic Joint Infection

Ivan Kamikovski, ON; Dilini Kumaran, ON; Hesham Abdelbary, ON; Jean-Simon Diallo, ON; Sandra Ramirez, ON

55 - Clinically Relevant Discrepancies of Plain Radiograph and CT Measurements of Acetabular Coverage in Adult Hip Dysplasia

Graeme P Whyte, US; Lazaros Poultsides, US; Douglas Mintz, US; Robert Buly, US; Ernest Sink, US

56 - Patients in Vancouver Coastal have 50% Less Access to Inpatient Orthopaedic Surgery Compared to National Health Service Patients in Scotland

Alastair S Younger, BC; Kevin Wing, BC; Andrea Veljkovic, BC; Murray Penner, BC

Foot & Ankle

57 - Revitalization Following Salvage Arthrodesis for Failed Bipolar Allograft Ankle Reconstruction: A Case Report

Tan Chen, ON; Imani Dupree, US; John Anderson, US; Michelle Padley, US

Paediatrics

58 - Prevention of Hip Displacement in Children with Cerebral Palsy: A Systematic Review

Stacey Miller, BC; Maria Juricic, BC; Kim Hesketh, ON; Lynore McLean, BC; Sonja Magnuson, BC; Sherilyn Gasior, BC; Emily K Schaeffer, BC; Maureen O'Donnell, BC; Kishore Mulpuri, BC

59 - Dynamic Deformation of The Femoral Head Occurs On Weight Bearing In Early Fragmentation of Perthes Disease

Anthony Cooper, BC; Alex Aarvold, BC; Angela Eugenio, BC; Harpreet Chhina, BC; Christopher Reilly, BC; David Wilson, BC; Kishore Mulpuri, BC

60 - Impact of Anterior Cruciate Ligament Deficiency on 3D Knee Kinematic in Adolescent

Guillaume Laforest, QC; Guy Grimard, QC; Alexandre Fuentes, QC; Marc Therrien, QC

Sports Medicine

61 - Patient Perceptions Regarding Physician Reimbursements, Wait Times, and Out-of-Pocket Payments for Anterior Cruciate Ligament Reconstruction in Ontario

Darren de SA, ON; Muzammil Memon, ON; Lydia Ginsberg, ON; Andrew Nashed, ON; Nicole Simunovic, ON; Mark Phillips, ON; Matthew Denkers, ON; Rick Ogilvie, ON; Devin Peterson, ON; Olufemi R Ayeni, ON

62 - The Fragility of Statistically Significant Findings from Randomized Trials in Sports Surgery: A Systematic Survey

Moin Khan, US; Nathan Evaniew, ON; Mark Gichuru, ON; Anthony Habib, ON; Olufemi R Ayeni, ON; Asheesh Bedi, MI; Michael Walsh, ON; Philip J Devereaux, ON; Mohit Bhandari, ON



63 - Risk Factors for Recurrence of Shoulder Instability After Arthroscopic Revision Anterior Stabilization

Marcin Kowalczyk, ON; Favian Su, US; Hannah Lee, US; Albert Lin, US; Stephenson Ipke, US

64 - The Influence of Recurrent Instability Episodes on Development of Subsequent Meniscus and Cartilage Damage or Osteoarthritis after Initial Anterior Cruciate Ligament Injury - a Systematic Review

Mark Sommerfeldt, AB; Mark F. Sommerfeldt, AB; Abdul Raheem, AB; Jackie Whittaker, AB; Catherine Hui, AB; David Otto, AB

65 - The Incidence of Heterotopic Ossification Following Hip Arthroscopy

Thomas Duncan Smith, NS; Ivan Wong, NS

66 - Increased Relative Femoral Retroversion Identified in Adult Patients with Hip Dysplasia Treated for Femoroacetabular Impingement of the Hip

Graeme P Whyte, US; Struan Coleman, US; Robert Buly, US

67 - Valgus Stress Radiography Following Superficial Medial Collateral Ligament Reconstruction Using A Modified LaPrade Technique with Adjustable Loop Femoral Fixation

Michael Sellan, ON; Aad Dhollander, ON; Alan Getgood, ON

68 - Allograft ACL Reconstruction in Patients Over 35 Years of Age is Cost-Effective: A Cost-Utility Analysis

Duong Nguyen, ON; Stephanie Correa, ON; Catherine Galas, ON

69 - Neuromuscular Training Programs for ACL Tear Prevention in Young Female Soccer Athletes: A Health Technology Assessment of the Clinical Evidence and Cost-Effectiveness

Duong Nguyen, ON; Victoria Passafiume, ON; Stephanie Correa, ON; Catherine Galas, ON

70 - The Influence of Evidence-Based Surgical Indications and Techniques on the Failure Rate Following Arthroscopic Shoulder Stabilization in the Contact or Collision Athlete with Anterior Shoulder Instability

Timothy Leroux, ON; Bryan Saltzman, US; Rachel Frank, US; Bernard Bach Jr., US; Brian Cole, US; Anthony Romeo, US; Nikhil Verma, US

71 - The Therapeutic Effect of Intra-Articular Normal Saline Injections in Knee Osteoarthritis: A Meta-Analysis of Level One Studies

Timothy Leroux, ON; Bryan Saltzman, US; Maximilian Meyer, US; Bryce Basques, US; Jaskarndip Chahal, ON; Adam Yanke, US; Brian Cole, ON

72 - Outcomes of Combined ACL Reconstruction and MCL Surgery Compared with Isolated ACL Reconstruction: A Matched Cohort study

Sarah Kerlake, AB; Laurie Anne Hiemstra, AB; S Mark A Heard, AB; Gregory M Buchko, AB; James M Hesteltine, AB; Mark R Lafave, AB

73 - Safety of Hip Anchor Insertion from the Mid-Anterior and Distal Anterolateral Portals with a Straight Drill Guide – A Cadaveric Study

Ryan Degen, ON; Lazaros Poultsides, US; Stephanie W Mayer, US; Struan H Coleman, US; Anil S Ranawat, US; Danyal H Nawabi, US; Bryan T Kelly, US



74 - Do Poly-Trauma Patients with Multi-Ligament Knee Injuries Have Worse Functional Outcomes than Patients with Isolated Multi-Ligament Knee Injuries? A Matched Cohort Analysis

Jarret M Woodmass, US; Nick R Johnson, US; Rohith Mohan, US; Aaron Krych, US; Michael Stuart, US; Bruce Levy, US

75 - Is the Augmentation the Next Step in Knee Dislocation Reconstruction? Surgical Technique and Case Series of 111 Patients with Hybrid Reconstruction

Fernando Martins Rosa, QC; Pierre Ranger, QC; Andrea Senay, QC; Marc Lacelle, QC; Josee Delisle, QC; Julio Cesar Fernandes, QC

76 - The Influence of Generalized Ligamentous Laxity on Outcomes following Medial Patellofemoral Ligament Reconstruction

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

77 - Cellular Changes in Torn Rotator Cuff Muscle

Jeff Leiter, MB; Deanna Gigliotti, MB; Mark Xu, MB; Peter B MacDonald, MB; Judy Anderson, MB

Trauma

78 - Malnutrition as a Predictor of Postoperative Complications and Mortality in Patients with Hip Fractures

Sultan Aldebeyan, QC; Anas Nooh, QC; Ahmed Aoude, QC; Michael H Weber, QC; Edward J Harvey, QC

79 - Current Standards of Venous Thromboembolism Prophylaxis in Canadian Orthopaedic Trauma: A Survey of the Canadian Orthopaedic Association

David J Saliken, AB; Allan Liew, ON; Wade T Gofton, ON; Karl Lalonde, ON; Steven Papp, ON

80 - Outcomes of After-Hours Hip Fracture Surgery

Daniel Pincus, ON; Sagar J Desai, ON; David Wasserstein, ON; Bheeshma Ravi, ON; Michael Paterson, ON; Patrick Henry, ON; Hans J Kreder, ON; Richard Jenkinson, ON

81 - Biomechanical Evaluation of Osseous Fixation Pathways in an Associated Both Column Acetabulum Fracture

Stewart McLachlin, ON; Samuel Hailu, Addis Ababa; Richard Jenkinson, ON; Markku Nousiainen, ON; David Stephen, ON; Hans Kreder, ON; Cari Whyne, ON

82 - Low-Intensity Pulsed Ultrasound for Treatment of Tibial Fractures: An Economic Evaluation of the TRUST Study

Jean-Eric Tarride, ON; Natasha Burke, ON; Robert Hopkins, ON; Gordon Blackhouse, ON; Mohit Bhandari, ON; Herman Johal, ON; Gordon Guyatt, ON; Paul Tornetta III, US; Emil Schemitsch, ON; Thomas Einhorn, US; James D Heckman, US; Kwok Sui Leung, Hong Kong; Jason W Busse, ON

83 - Operative Stabilization of Unstable Flail Chest Injuries Reduces Mortality to That of Stable Chest Wall Injuries

Niloofer Dehghan, ON; Emil Schemitsch, ON; Aaron Nauth, ON; Jeffrey Mah, ON; Milena Vicente, ON; Michael McKee, ON

84 - Long-Term Outcomes of Total Elbow Arthroplasty For Distal Humeral Fracture: Results From a Prior Randomized Clinical Trial

Niloofer Dehghan, ON; Matthew Furey, ON; Christine Schemitsch, ON; Emil Schemitsch, ON; Thomas Goetz, BC; Pierre Guy, BC; Canadian Orthopaedic Trauma Society, ON; Michael McKee, ON



85 - Patient-Rated Outcomes of Fragility Distal Radial Fractures No Less than 5 Years Post Fracture in Women 50 Years and Older

Sameh Ibrahim, SK; Geoffrey Johnston, SK

86 - Comparison of Tension Band Fixation of Olecranon Fractures With UHMWPE Braided Suture and Metal Wire

Emmanuel Illical, US; Robert Pivec, US; Colin Scott Cooper, US; Andrew J Hayden, US; Westley Hayes, US; Dipal Chatterjee, US; Sergei Pushilin, US; Fred Xavier, US; James Messina, US

87 - Prognostic Factors for Predicting Re-Operations after Operative Management of Open Fractures

Brad Petrisor, ON; Mohit Bhandari, ON; Kyle Jeray, US; Jeff Anglen, US; Gregory Della Rocca, US; PJ Devereaux, ON; Diane Heels-Ansdell, ON; Clifford Jones, MI; Hans Kreder, ON; Susan Liew, Australia; Kim Madden, ON; Paula McKay, ON; Steven Papp, ON; Parag Sancheti, India; Emil Schemitsch, ON; Sheila Sprague, ON; Stephanie Tanner, US; Paul Tornetta III, US; Ted Tufescu, MB; Stephen Walter, ON; Gordon Guyatt, ON; FLOW Investigators, ON

88 - Hip Arthroplasty with Cemented Femoral Fixation for the Treatment of Femoral Neck Fracture Results in Lower Rates of Mortality, Fracture and a Higher Rate of Direct Home Discharge Compared to Uncemented Femoral Fixation

Daryl Brian Dillman, NS; Chanseok Rhee, NS; Chanseok Rhee, NS; Lynn Lethbridge, NS; C Glen Richardson, NS; Michael Dunbar, NS

89 - Are Trunions In Hip Hemiarthroplasties Exempt From High Wear?

George Grammatopoulos, ON; Rajib Pradhan, United Kingdom; Katie Keating-Fedders, United Kingdom; Emily Bannister, United Kingdom; Tony Andrade, ON

90 - Hemiarthroplasty Versus Reverse Total Shoulder Arthroplasty for the Management of Proximal Humerus Fractures in the Elderly - a Retrospective Cohort Review

Marissa E Bonyun, ON; Lauren Nowak, ON; Andrea HW Chan, ON; Emil Schemitsch, ON; Michael D McKee, ON; Aaron Nauth, ON

91- Prediction of Point-of-Failure in a High-Energy Femoral Neck Fracture Model with Finite Element Analysis – Are Models Supported by Biomechanical Evidence?

Emmanuel Illical, US; Gavriel Feuer, US; Robert Pivec, US; Sajjad Hossein, US; Westley Hayes, US Carl Paulino, US; Subrata Saha, US

Tumour

92 - The Incidence of Revision to Open Surgical Stabilization after Percutaneous Cementoplasty of Pelvic Osteolytic Bone Metastases: A Case Series

Hesham Abdelbary, ON; Vinay Kansal, ON; Joel Werier, ON; Adnan Sheikh, ON

93 - Hip Arthroplasty in Metastatic Bone Disease - A Single Centre Experience

Mohammed Ahmed O Al Sobelai, ON; Yousif Atwan, ON; Raman Bhuller, BC; Hussain Alyousif, ON; Hesham Abdelbary, ON; Joel Werier, ON



Upper Extremity

94 - Mistakes made by Patients on a Self-Reported Outcome Score

Justin LeBlanc, AB; Lisa Murphy, AB; Jacqui French, Australia; Shane Barwood, Australia

95 - Three or More Pre-operative Injections is the Most Significant Risk Factor for Revision Surgery after Operative Treatment of Lateral Epicondylitis: An Analysis of 3,863 Patients

Ryan M Degen, ON; Jourdan M Cancienne, VA; Christopher L Camp, US; David W Altchek, US; Joshua S Dines, US; Brian C Werner, US

96 - Morphologic Analysis of the Three Columns of the Scapula: Surgical Implications in Reverse Shoulder Arthroplasty

Nikolas K Knowles, ON; Ashish Gupta, ON; George S Athwal, ON; Louis M Ferreira, ON

97 - Is the Walch B3 Glenoid Erosion Significantly Worse than the B2?

Kevin Chan, US; Nikolas K Knowles, ON; Gilles Walch, Lyon; Jean Chaoui, Lyon; Louis M Ferreira, ON; George S Athwal, ON

98 - Orthopaedic Surgeons' Opinion Surrounding the Management and Evaluation of Proximal Humerus Fractures

Lauren Nowak, ON; Milena Vicente, ON; Michael McKee, ON; Jeremy Hall, ON; Aaron Nauth, ON; Emil Schemitsch, ON

99 - Does Coracoid Anatomy Influence the Position of Bony Bankart Lesions in Anterior Shoulder Instability?

Mengyang Mike Li, QC; Julien Clément, QC; Dominique Rouleau, QC

100 - Non-Operative Management Is Just As Good As Reverse Shoulder Arthroplasty For Treatment Of Three And Four-Part Proximal Humerus Fractures In The Elderly

Richard J Hawkins, US; Troy A Roberson, US; Charles M Granade, US; Michael J Kissenberth, US; Keith T Lonergan, US; Stefan J Tolan, US; Kyle J Adams, US; John M Tokish, US

101 - The Incidence and Effect of Fatty Atrophy, Positive Tangent Sign, and Rotator Cuff Tears on Outcomes After Total Shoulder Arthroplasty

Richard J Hawkins, US; Ellen Shanley, US; Stefan J Tolan, US; Richard Washburn III, US; Tariq I Salim, US; Joshua Tadlock, US; Thomas Kellam, US; E. Carlisle Shealy, US; Catherine D Long, US; Ashley E Crawford, US; Michael J Kissenberth, US; Keith T Lonergan, US; John M Tokish, US

102 - The Utility of Obtaining Routine Hematologic Laboratory Values Following Shoulder Arthroplasty

Timothy Leroux, ON; Rachel Frank, US; Simon Lee, US; Jae Kim, US; Gregory Nicholson, US; Anthony Romeo, US

103 - Linking it Together: Outcomes of Linked vs. Unlinked Total Elbow Arthroplasty using a Convertible Prosthesis in the Rheumatoid Patient

Jason A Strelzow, Scotland; Kevin Chan, US; Kenneth Faber, ON; George Athwal, ON; Graham King, ON

104 - The Cost Effectiveness of Point-of-Care Shoulder Ultrasonography in Worker's Compensation Patients in Canada

Danny Goel, BC; Tym Frank, ON; Clayton Chmelik, BC; Michelle Tan, BC; William Regan, BC; Treney Sasyniuk, BC



105 - Total Elbow Arthroplasty for Fracture Using a Convertible Implant

Jason A Strelzow, Scotland; Kevin Chan, US; Kenneth Faber, ON; Graham King, ON; George Athwal, ON

106 - Proximal Long Head Biceps Rupture: A Predictor of Rotator Cuff Pathology

Marcin Kowalczyk, ON; Sohil Sabzevari, US; Jan-Hendrik Naendrup, US; Kevin Thomas Kohut, US; Albert Lin, US

107 - Frequency and Appropriateness of MRI use in Primary Care when Referring Patients with Shoulder Pain to a Specialist Upper Extremity Clinic

Christopher Hawke, ON; Paul Klas, ON; Hussein Fawzy, ON; Christian Veillette, ON

108 - The Effect of Glenohumeral Offset on Postoperative Function in Total Shoulder Arthroplasty: A Retrospective Review using a Novel Method of Measuring Glenohumeral Offset using Standardized Reslicing of Computed Tomography

Andrew Bodrogi, ON; Lisa Howard, ON; Hakim Louati, ON; George Athwal, ON; Peter Lapner, ON

Spine

109 - Factors Predicting Progression in Conservatively Treated Degenerative Lumbar Spondylolisthesis

Duncan Cushnie, ON; Jennifer Urquhart, ON; Kevin Gurr, ON; Chris Bailey, ON

110 - Extracorporeal Shock Wave Therapy for the Treatment of Coccydynia: a Series of 23 Cases

Yousef Marwan, QC; Bashar Dahrab, Kuwait; Ali Esmaeel, Kuwait

111 - Long-term Back Pain in Patients with Treated and Untreated Adolescent and Juvenile Idiopathic Scoliosis: A Multi-Centred Retrospective Study

Aidin Kashigar, ON; Katherine Lajkosz, ON; Ana Johnson, ON; Susan Brogly, ON; Daniel Borschneck, ON

112 - Use Of Incisional Vacuum-Assisted Closure In The Prevention Of Postoperative Infection In Spinal Surgery

Christopher Bailey, ON; Bailey Dyck, ON; Parham Rasoulinejad, ON; Julia Petrakis, ON; Fawaz Siddiqi, ON; Kevin Gurr, ON

113 - Ca²⁺ and P⁰⁴ Regulate Type II Collagen and Proteoglycan Synthesis in Intervertebral Discs

Yazeed AlSaran, QC; Michael P Grant, QC; Laura M Epure, QC; Rakan Bokhari, QC; Alexa Papanastasiou, QC; John Antoniou, QC; Fackson Mwale, QC



CORS POSTERS

Arthroplasty

114 - The Effects of Chlorhexidine Gluconate and Povidone-Iodine on Surgical Site Infections following Lower Extremity Total Joint Arthroplasty

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115 - Roentgen Single-Plane Photogrammetric Analysis Using Automated Positioning

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116 - Variability of Wearable Knee Joint Sensors Tested with a Robotically Driven Leg Phantom

Megan Fennema, ON; Riley Bloomfield, ON; G Daniel Langohr, ON; Kenneth McIsaac, ON; Brent Lanting, ON; Matthew Teeter, ON

117 - In Vitro Simulation of Modular Neck Fracture, Wear, and Corrosion in Hip Implants: Effects of Material and Assembly Method

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118 - Cost-effectiveness of a Patient Decision Aid Intervention for Patients Considering Total Joint Replacement: a Randomized Controlled Trial

Logan Trenaman, BC; Geoffrey Dervin, ON; Monica Taljaard, ON; Nick Bansback, BC; Stirling Bryan, BC; Peter Tugwell, BC; Gillian Hawker, ON; Dawn Stacey, ON

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119 - A Computational Model Of The Post-Yield Response Of Vertebral Bone Using Zero-Thickness Cohesive Elements

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120 - Effect of Sex and Transverse Bone Region on Cortical and Trabecular Bone Mineral Density at the Distal Radius

Martine Elizabeth McGregor, ON; Sara Banayan, ON; Nikolas K Knowles, ON; James A Johnson, ON; Emily A Lalone, ON

121 - Cell Surface Receptors Expression Profile Of Human Mesenchymal Stem Cells in Vivo and in Vitro Isolated from Synovial Membrane of Normal and OA

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123 - Post-Hoc Quantitative CT Methods for Calibrating Bone Scans: Empty Chamber and Regression

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124 - Link N Suppresses Interleukin-1 β Induced Human Osteoarthritic Cartilage Degradation Through Down-Regulation of NF-K β Signalling

Motaz AlAqeel, QC; Laura Epure, QC; Michael Grant, QC; Omar Salem, QC; Olga Huk, QC; John Antoniou, QC; Fackson Mwale, QC

125 - Propionibacterium Acnes is not a Commensal of the Human Shoulder Microbiome

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126 - Arthroscopic Cartilage Defect Preparation: Histologic Analysis Demonstrates Clinically Relevant and Technique-dependent Differences

Graeme P Whyte, US; Boguslaw Sadlik, Poland; Adrian Matlak, Poland; Mariusz Puzskar, Poland; Wojciech Klon, Poland; Martin Wiewiorski, Switzerland; Alberto Gobbi, Italy

127 - Physico-Chemical Properties And Biocompatibility Studies Of Chitosan And Chitosan Nanoparticles

Elsa Patricia Rondon Cavanzo, QC; Qin Shi, QC; Mohamed Benderdour, QC; Marcio Tiera, São Paulo; Ricchard Hallan, São Paulo; Maicon Petronio, São Paulo; Julio Fernandes, QC

