



## Saturday, June 23 COA Subspecialty Day

### COA Hip/Knee & Canadian Arthroplasty Society (CAS)

**7:30-9:00 COA Paper Session: Hip 2 • Lecture Theatre**

*Moderators:* Arno Smit, BC; Nelson V. Greidanus, BC

**102 - 07:30**

**Revision Total Hip Arthroplasty Using a Porous-coated or Taper ZMR Modular Revision Stem: Minimum Ten-year Follow-up of Implant Survivorship**

**James Allen, ON;** James McInnes, AB; Raghav Rajgopal, ON; Oleg Safir, ON; Allan E. Gross, ON; Paul Robert Kuzyk, ON

**103 - 07:36**

**Damage Assessment of Retrieved Birmingham Monoblock Cups; Is Conversion to Dual-mobility Head a Viable Revision Option?**

**Thomas Turgeon, MB;** Trevor Gascoyne, MB; Brent Lanting, ON; Matthew Teeter, ON; Kieran Derksen, MB

**104 - 07:42**

**Risk of Early Complication after Revision for Trunnion Corrosion Associated with Metal on Polyethylene Replacement**

**Clive P. Duncan, BC;** H.B. Waterson, BC; Donald Garbuz, BC; Nelson V. Greidanus, BC; Bas A. Masri, BC

Discussion 07:48

**105 - 07:57**

**Classic Markers for Infection Perform Poorly Prior to Reimplantation to Predict Residual Infection in Periprosthetic Joint Infection**

**Bas A. Masri, BC;** Amir Herman, Israel; Anthony Albers, QC; Donald Garbuz, BC; Nelson V. Greidanus, BC; Clive P. Duncan, BC

**106 - 08:03**

**Periprosthetic Fractures of the Acetabulum – A Rare but Serious Complication of Total Hip Arthroplasty**

**Jennifer Leighton, ON;** Evan Watts, ON; Oleg Safir, ON; Allan E. Gross, ON; Paul Robert Kuzyk, ON

**107 - 08:09**

**The Modified Extended Trochanteric Osteotomy in Two-stage Revision Hip Arthroplasty for Periprosthetic Joint Infection**

**Shankar Thiagarajah, ON;** Saud Almaslmani, ON; Paul Robert Kuzyk, ON; Allan E. Gross, ON; Oleg Safir, ON

Discussion 08:15



## Saturday

**108 - 08:24**

### **Establishing the Risk and Impact of Second-Site Prosthetic Joint Infection in Patients with Multiple Prosthetic Joints**

**Kevin Clesham, Ireland;** Colin Murphy, Ireland; Andrew Hughes, Ireland; Sven O'hEireamhoin, Ireland

**109 - 08:30**

### **Characterizing Revision Surgeries for Hip and Knee Arthroplasty in Canada**

**Julia Di Bella, ON;** Carolyn Sandoval, ON; Nicole De Guia, ON; Greg Webster, ON; Michael J. Dunbar, NS; Eric Bohm, MB

**110 - 08:36**

### **The Influence of Surgical Approach on Acetabular Component Positioning: A Comparative Study of Patients Who Underwent Bilateral Total Hip Arthroplasty Through Different Approaches by the Same Surgeon**

**Mazen Ibrahim, ON;** Alberto Carli, ON; Paul E. Beaulé, ON; Kathryn Culliton, ON; Cheryl Kreviazuk, ON

Discussion 08:42

## **9:00-10:30 COA Paper Session: Hip/Knee • Lecture Theatre**

*Moderators: Colleen Weeks, AB; William Maloney, AAOS President*

**111 - 09:00**

### **Does Age Influence Patient-reported Outcomes in Unilateral Primary Total Hip and Knee Arthroplasty?**

**Taryn Ludwig, AB;** Denis Joly, AB; Rajrishi Sharma, AB; Irfan Abdulla, BC; Saboura Mahdavi, AB; Hoa Khong, AB

**112 - 09:06**

### **Is a "Dry Tap" Aspiration Prior to a Second Stage Re-implantation a Favourable Prognostic Factor for the Clearance of PJI?**

**Amir Khoshbin, ON;** Allina Nocon, NY; Michael Henry, NY; Michael B. Cross, NY; Chelsea Koch, NY

**113 - 09:12**

### **Predictive Models for Perioperative Medical Adverse Outcomes of Primary Total Joint Arthroplasty Using Obesity and Comorbidity Indicators**

**Colleen Weeks, AB;** Behnam Sharif, AB; Christopher Smith, AB; Deborah Marshall, AB

Discussion 09:18

**114 - 09:27**

### **Patient-reported Outcome Measures of Total Hip and Knee Arthroplasty for Post-traumatic Arthropathy versus Osteoarthritis - A Prospective Matched Cohort Study**

**Amir Khoshbin, ON;** Douglas Padgett, NY; Amethia Joseph, NY; Lily Lee, NY; Alexandra Stavrakis, CA

**115 - 09:33**

**90-day Costs, Reoperations, and Readmissions for Primary Total Hip and Knee Arthroplasty Patients of Varying BMI Levels**

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

**116 - 09:39**

**Emergency Department Presentation Following Primary Total Hip and Knee Arthroplasty: A Prospective Study Evaluating Rate, Reasons and Risk Factors**

**Timothy Leroux, ON;** Rajiv Gandhi, ON; Raja Y. Rampersaud, ON; Nizar N. Mahomed, ON; J. Rod Davey, ON; Prtha Kudesia, ON; Kala Sundararajan, ON; Sam Keshen, ON

Discussion 09:45

**117 - 09:54**

**3D Knee Kinematics During Gait: Normal Gait Compared to Kinematically and Mechanically Aligned TKA**

**William Blakeney, QC;** Julien Chapleau, QC; Panagiota Toliopoulos, QC; Alex Fuentes, QC; Pascal-Andre Vendittoli, QC; Julien Clément, QC

**118 - 10:00**

**Synthetic Mesh Graft Compared to Allograft for Extensor Mechanism Disruption in Patients with Total Knee Arthroplasties: A Multi-centre Study**

**Thomas Wood, ON;** Jennifer Leighton, ON; David Backstein, ON; Douglas Naudie, ON; James Howard, ON; Richard W. McCalden, ON; Steven MacDonald, ON; Brent Lanting, ON

**119 - 10:06**

**The Use of Antibiotic and Antiseptic Irrigation Solutions to Prevent Deep Prosthetic Joint Infection after Primary Total Knee and Hip Arthroplasty: A Systematic Review and Meta-analysis**

**Harman Chaudhry, ON;** Jeffrey Kay, ON; Muzammil Memon, ON; Raman Mundi, ON; Vickas Khanna, ON; Anthony Adili, ON; Mitchell J. Winemaker, ON; Mohit Bhandari, ON

**120 - 10:12**

**Ten-year Results of a Matched Cohort Comparing Oxidized Zirconium and Cobalt-chrome Femoral Components for Total Knee Arthroplasty**

**Andrew Clout, ON;** Lyndsay Somerville, ON; Douglas Naudie, ON; Steven MacDonald, ON; Edward Vasarhelyi, ON; Richard W. McCalden, ON

Discussion 10:18



Saturday

**9:00-10:30 CAS / Tumour ICL Managing Surgical Site Infection • Sidney**

*Moderator* : Michael Monument, AB

Objectives:

1. Discuss established and novel strategies geared towards the prevention of surgical site infection of total joint arthroplasties.
2. Review current standards and emerging technologies used to diagnose acute and chronic infections of peri-prosthetic joint infections.
3. To review the management of acute and chronic peri-prosthetic joint infections.
4. To discuss challenging clinical cases of peri-periprosthetic joint infections.

Speakers:

- Strategies for Prevention of SSI - Kristen Brown, AB
- Diagnosis of SSI - Nelson V. Greidanus, BC
- Acute and Chronic SSI - Thomas Turgeon, MB
- Managing the Impossible - Norbert Dion, QC

**10:30-11:00 Break • Registration Foyer**

**11:00-12:30: COA/CAS Symposium: Minimizing Adverse Events in Primary TKA • Lecture Theatre**

*Moderator:* David Backstein, ON

Objectives:

The purpose in this symposium is to highlight methods to avoid common postoperative TKA complications which adversely affect outcomes.

1. Review surgical features which may lead to postoperative TKA stiffness and discuss methods which may improve range of motion.
2. Discuss the clinical features of mid-flexion instability as well as surgical methods to avoid and treat this problem.
3. Discuss management approaches for the recalcitrant TKA periprosthetic infection.
4. Discuss new technology which is available and effective at improving TKA outcomes.

Speakers:

- Avoiding a Stiff Knee - Paul Kuzyk, ON
- Mid Flexion Instability - Brent Lanting, ON
- Can New Technology Help? - Glen Richardson, NS
- Treating Recalcitrant Infections - Michael Zywielski, ON

**12:30-13:15 Lunch • Registration Foyer**

**13:15-14:45 COA/CAS ICL: Arthroplasty Solutions in Complex Geriatric Fractures • Lecture Theatre**

*Moderator:* Emil H. Schemitsch, ON

Objectives:

1. Identify patients presenting in a state of fragility /frailty.
2. Defining how to optimize the patient's medical conditions before surgery.
3. Defining the best strategy for hip stem fixation in the geriatric patient.
4. Understanding the potential benefits of performing a megaprosthesis after supracondylar femoral fractures.
5. Identify the ideal patients for pelvic fracture ORIF and THA in the elderly.

Speakers:

- Geriatric Patient Optimization for Surgery - Bob Herman, AB
- The Case for Cemented Femoral Stems in Hip Fractures - James Howard, ON
- Megaprosthesis in Supracondylar Femoral Fractures - David Backstein, ON
- When Pelvic ORIF and THA is Indicated? - Hans Kreder, ON

**14:45-15:45 COA/CAS ICL: Ambulatory TJA • Lecture Theatre**

*Moderator:* Paul E. Beaulé, ON

Objectives:

1. Defining how to develop and implement an outpatient surgical total joint program.
2. Defining the best candidate for outpatient hip and knee replacement.
3. Understanding the socio-economic benefits of performing outpatient joint replacement.

Speakers:

- Preparing Your Team for Ambulatory Surgery - Pascal-André Vendittoli, QC
- How to do Outpatient THA - Brent Lanting, ON
- How to do Outpatient TKA - Geoff Dervin, ON
- Medico-economics of Ambulatory TJI - Rajiv Gandhi, ON

**16:00-17:30 COA/CAS Symposium: Update in Trunnionosis • Lecture Theatre**

*Moderator:* James Powell, AB

Objectives:

1. To understand trunnion design.
2. To understand mechanically assisted crevice corrosion.
3. How to diagnose hip pain related to trunnion wear.
4. How to manage a worn trunnion.



Saturday

Speakers:

- The Role of Metal Ion Testing in Diagnosis - Pascal-André Vendittoli, QC
- The Evolution of Trunnion Design- Is There a Flaw? - Brent Lanting, ON
- Can Bearing Choice Influence MACC? - Paul E. Beaulé, ON
- How to Manage ARMD - Nelson V. Greidanus, BC

## COA Foot & Ankle and Canadian Orthopaedic Foot & Ankle Society (COFAS)

### 8:00-9:30 COA Paper session: Foot & Ankle • Colwood

*Moderators:* Andrea Veljkovic, BC; Warren Latham, ON; Peter Lam, Australia

#### 121 - 08:00

**Improved Reduction of the Tibio-fibular Syndesmosis with Tightrope Compared to Screw Fixation: Results of a Randomized Controlled Study**  
**David William Sanders, ON;** Prism Schneider, AB; Abdel-Rahman Lawendy, ON; Michel Taylor, ON; Christina Tieszer, ON; Canadian Orthopaedic Trauma Society (COTS)

#### 122 - 08:06

**The Effect of Deformity and Hindfoot Arthritis on Mid-term Outcomes of Ankle Replacement and Fusion: A Prospective COFAS Multi-centre Study of 890 Patients**  
**Murray Penner, BC;** Kevin Wing, BC; Alastair S.E. Younger, BC; Mark Glazebrook, NS; Timothy Daniels, ON

#### 123 - 08:12

**Hindfoot Alignment of Adult Acquired Flatfoot Deformity: A Comparison of Clinical Assessment and Weight-bearing ConeBeam CT Examinations**  
**Lauren Roberts, BC;** Cesar de Cesar Netto, NY ; Scott Ellis, NY; Shadpour Demehri, MD; Lew Schon, MD

Discussion 08:18

#### 124 - 08:27

**Preoperative Patient-reported Outcome Measures (PROMs) Predict Postoperative Success in Patients With End-stage Ankle Arthritis**  
**Alastair S.E. Younger, BC;** Kevin Wing, BC; Feras Waly, BC; Murray Penner, BC; Andrea Veljkovic, BC; Nic Yeo, Singapore

#### 125 - 08:33

**The Infinity Total Ankle System: Early Clinical Results With Two-to Four-year Follow-up**  
**Murray Penner, BC;** Kevin Wing, BC; Feras Waly, BC; Thomas Bemenderfer, NC; Hodges Davis, NC; Robert Anderson, NC

**126 - 08:39**

**Impact of Preoperative Patient Photograph on Postoperative Satisfaction in Hallux Valgus Surgery**

**Michael Ching, ON;** Michel Taylor, ON; David William Sanders, ON; Abdel-Rahman Lawendy, ON; Christina Tieszer, ON

Discussion 08:45

**127 - 08:54**

**Return to Sports and Physical Activities after First Metatarsophalangeal Joint Arthrodesis in Young Patients**

**Rachael Da Cunha, NY;** Scott Ellis, NY; Austin Sanders, MO; Mackenzie Jones, NY

**128 - 09:00**

**Tibial Component Posterior Undercoverage in Total Ankle Arthroplasty Failure**

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

**129 - 09:06**

**Intraoperative Syndesmotic Instability Test: An Alternative Technique**

**Lauren Roberts, BC;** Cesar de Cesar Netto, NY ; Scott Ellis, NY; Ashish Shah, AL; Alexandre Godoy-Santos, Brazil

**130 - 09:12**

**Postoperative Use of the Wheeled Knee-Walker after Foot and Ankle Surgery**

**Jane Yeoh, BC;** David Ruta, MN; G. Andrew Murphy, TN; David Richardson, MS; Susan Ishikawa, TN; Benjamin Gear, TN; Clayton Bettin, TN; Richard Smith, TN

Discussion 09:18

**9:30-10:30 COFAS Guest Lecturer and Cases • Colwood**

*Moderator:* Peter Dryden, BC

**Guest Lecturer:** Peter Lam, Australia

- Percutaneous Chevron Akin Osteotomy (PECA) - Tips and Pitfalls
- Application of Percutaneous Technique for Correction of Forefoot and Hindfoot Deformities

**10:30-11:00 Break • Registration Foyer**

## Saturday

### 11:00-12:30 Round Table Case-based Discussion • Colwood

#### Objectives:

1. To discuss intricacies of some of the more challenging cases in common foot and ankle topics.
2. To allow an open forum and discussion with experts in the field through small groups.
3. To review complications and challenges faced in these cases, share experiences in those situations, and create a solution-based approach for individual practices going forward.

#### Discussion Groups:

- Forefoot MIS: Discussion Leaders - *Moderators:* Alastair S.E. Younger, BC; Peter Lam, Australia
- The Not-so-Simple Bunion - *Moderators:* Kevin Wing, BC; Peter Dryden, BC
- Younger Patients with Ankle OA - *Moderators:* Murray Penner, BC; Gordon Goplen, AB
- Flat Foot: Discussion Leader - *Moderators:* Andrea Veljkovic, BC; Johnny TC Lau, ON

### 12:30-13:15 Lunch • Registration Foyer

### 13:15-14:45 COFAS Business Meeting / Research Meeting / Advocacy and Innovation Discussion • Colwood

*Chair:* Kevin Wing, BC

### 15:00-16:30 COA Trauma / COFAS Combined Symposium: Severe Injuries to Foot and Ankle - This Came in When I was On Call : What Do I Do?

• Crystal Ballroom, Empress

*Moderator:* David Stephen, ON

#### Objectives:

This will be a 90-minute, casebased, interactive discussion between faculty and participants leading to improved understanding of:

1. Assessment and principles in the management of talar body fractures.
2. Principles of initial and definitive management of high energy pilon fractures.
3. Strategies for assessment and management of open injuries of the foot and ankle.
4. Decision making related to amputations following high-energy injuries of the foot and ankle.



Speakers:

- Talar Body Fractures- Abdel-Rahman Lawendy, ON
- The Severe Pilon Fracture - David Stephen, ON
- Open Injuries to The Foot And Ankle - Alastair S.E. Younger, BC
- When to Say When - Indications for Amputation in Isolated Foot and Ankle Trauma - Karl-André Lalonde, ON
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**16:30-17:30 COA/COFAS Fireside Chat - Bring Your Tough Cases!**

• **Crystal Ballroom, Empress**

*Moderator:* Karl-André Lalonde, ON

## COA Hand & Wrist

**8:00-9:00: Hand and Wrist Study Group (WECAN) Research Meeting**

• **Saanich 2**

**9:00-10:30 COA Hand and Wrist Symposium: Wrist Arthritis - PRC, Partial Fusion, Total Fusion, Arthroplasty - What is The Evidence? • Saanich 2**

*Moderator:* Thomas Goetz, BC

Objectives:

To understand:

1. Tips and tricks on wrist ligament reconstruction.
2. Tips and tricks on fusion, partial fusion and proximal row carpectomy.
3. Tips and tricks for wrist arthroplasty.
4. Current evidence and outcomes for treatment of wrist arthritis.

Speakers:

- PRC - C. Vaughan A. Bowen, AB
- 4-Corner Fusion - Thomas Goetz, BC
- Total Wrist Fusion - Robert Chan, AB
- Total Wrist Arthroplasty - Braden Gammon, ON
- Save vs. Salvage - Ruby Grewal, ON

**10:30-11:00 Break • Registration Foyer**

**11:00-12:30 COA Hand and Wrist Symposium: Think Outside the Box - Which Distal Radius Fractures Require Unique Treatment, A Case-based Discussion • Saanich 2**

*Moderator:* Ruby Grewal, ON



## Saturday

### Objectives:

1. Recognize distal radius fracture patterns, understand indications for surgical and nonoperative treatment.
2. Apply an appropriate treatment algorithm to find the optimal surgical approach for these injuries.
3. Evaluate and implement strategies for fixation of distal radius fractures based on underlying fracture pattern.
4. Understand strategies for avoiding complications.

### Speakers:

- Dorsal Bartons and Dorso-Ulnar Corner Fractures: Farhad Moola, QC
- Volar Bartons, Volar Shear and Volar Instability: Neil White, AB
- Radial Styloid and Acute (vs. Chronic) SL Injury: Nina Suh, ON
- Die Punch Fractures and C3 Type Injuries: Ruby Grewal, ON

**12:30-13:15 Lunch • Registration Foyer**

**12:30-13:15 Hand and Wrist Business Meeting • Saanich 2**

**13:15-15:15 COA Paper Session Hand and Wrist • Saanich 2**

*Moderators:* Neil White, AB; Herb Von Schroeder, ON

**131 - 13:15**

### **Ulnar Foveal Sign is Not a Specific Test for Foveal Detachment of the Triangular Fibrocartilage**

**Geoffrey Jarvie, BC;** Parham Daneshvar, BC; Thomas J. Goetz, BC; Zafeiria Glaris, BC; Jeffrey Pike, BC

**132 - 13:21**

### **Radiographs Detect Dorsal Scaphoid Translation in Scapholunate Dissociation**

**Kevin Chan, MI;** Emil Vutescu, RI; Michelle Carlson, NY; Scott Wolfe, NY; Steve Lee, NY

**133 - 13:27**

### **Comparison of Tendon Rupture in Dorsal versus Volar Plating in Distal Radius Fractures**

**Eva Gusnowski, AB;** Prism Schneider, AB

Discussion 01:33

**134 - 13:42**

### **A Biomechanical Analysis of Ulnar Shortening Osteotomy Under Simulated Dynamic Wrist and Forearm Motion**

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

**135 - 13:48**

**The Effect of Sequential Sectioning and Reconstruction of the A2 and A4 Pulleys on Joint Range of Motion and Tendon Load**

**Mohammad Haddara, ON; Louis Ferreira, ON; Nina Suh, ON; Brett Byers, ON**

**136 - 13:54**

**Mid-term Effects of Scaphoid Malunion**

**Nina Suh, ON; Ruby Grewal, ON; Joy MacDermid, ON; Anna Seltser, ON**

Discussion 14:00

**137 - 14:09**

**Musculoskeletal Disorders Among Hand Surgeons: An Overlooked Entity**

**Saad Al-Qahtani, ON; Mohammad Mesfer Alzahrani, QC; Ryan Bicknell, ON; David Pichora, ON**

**138 - 14:15**

**Restoration of Radial Height Following Distal Radius Malunion: A Biomechanical Study**

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

**139 - 14:21**

**The Effect of Wrist Position on Tendon Loads Following Pulley Sectioning and Operative Reconstruction**

**Mohammad Haddara, ON; Louis Ferreira, ON; Nina Suh, ON; Brett Byers, ON**

**140 - 14:27**

**Patient-rated Outcomes of Surgical Treatment of Ulnocarpal Impaction**

**Tendai Mwatutura, BC; Thomas J. Goetz, BC; Parham Daneshvar, BC; Jeffrey Pike, BC; Zafeiria Glaris, BC**

Discussion 02:33

**142 - 14:45**

**An Examination of Inter- and Intra-Rater Reliability of Wrist Radiographs Among Patients with Wrist Arthritis from Scapholunate Advanced Collapse**

**Geoffrey Jarvie, BC; Zafeiria Glaris, BC; Jeffrey Pike, BC; Thomas J. Goetz, BC; Mark Cresswell, BC**

**143 - 14:51**

**Four-corner Fusion in SLAC & SNAC Wrist Surgery: Does Method of Fixation Really Make a Difference?**

**Ruby Grewal, ON; Logan McGinn, ON**

**144 - 14:57**

**Treatment of Dorsal Intercalated Segment Instability (DISI)**

**2018 Anica Bitenc Fellow: Tomislav Palibrk, Serbia**

Discussion 3:06

## COA Paediatrics

### 7:20-9:30 COA Paper Session: Paediatrics • Esquimalt

*Moderators:* Caroline Forsythe, QC; Donald Dick, AB

#### 145 - 07:20

##### **The Fate of the Stubborn Hip in Bilateral Cases Where One Hip Reduces on Initial Treatment: How Many and What to Do?**

**Emily Schaeffer, BC;** Kishore Mulpuri, BC; Jose A. Herrera-Soto, FL; Wudbhav Sankar, PA; Nicole Williams, South Australia; Travis Matheney, MA; Vidyadhar Upasani, CA

#### 146 - 07:26

##### **Skeletally Immature Patients with Medial Epicondyle Fractures Restore Their Range of Motion Irrespective of an Associated Elbow Dislocation**

**Khaled Almansoori, AB;** Zaid Alaubaidi, Dubai

#### 147 - 07:32

##### **Can Radiographic Features Predict Prognosis in Children with Simple Bone Cysts?**

**Amy Behman, ON;** James G. Wright, ON

Discussion 07:38

#### 148 - 07:47

##### **The Utility of Early Postoperative Follow up and Radiographs in Surgically Treated Supracondylar Humerus Fractures in Children**

**J. Alexandra Mortimer, SK;** Anna Acosta, WA; Viviana Bompadre, WA; Suzanne Steinman, WA; Yi-Ju Li, WA

#### 149 - 07:53

##### **Lateral Condyle Fractures of the Humerus in Children – Does Fixation Type Matter?**

**Mark Camp, ON;** Rekha Ganeshalingam, Australia; Leo Donnan, Australia; Owain Evans, Australia; Alice Donnan, Australia; Monsurul Hoq, Australia

#### 150 - 07:59

##### **Improving Access to Paediatric Orthopaedic Expertise Using an Asynchronous eConsult System**

**Youjin Chang, ON;** Kevin Smit, ON; Sasha Carsen, ON; Ken K. Kontio, ON

Discussion 08:05

#### 151 - 08:14

##### **Institution of a Standardized Multimodal Pain Pathway Including Intravenous Lidocaine Reduces Postoperative Pain and Opiate Requirements in Patients Undergoing Application of External Fixation for Limb Deformity Correction**

**Ryan Lohre, BC;** Anthony Cooper, BC; Harpeet Chhina, BC; Warren Koo, BC; Gillian Lauder, BC

**152 - 08:20**

**Post-discharge Pain Management in Paediatric Orthopaedics - Are Opioids Necessary?**

**V. Elaine Joughin, AB;** Fabio Ferri-de-Barros, AB; Gerhard N. Kiefer, AB; Simon Goldstein, AB; David L. Parsons, AB; Lisa Phillips, AB; Andrew Walker, AB; Mary Brindle, AB; Yoga Dhanapala, AB

**153 - 08:26**

**The Impact of Obesity on Neurovascular Injuries in Supracondylar Fracture Patients**

**Emmanuel Illical, NY;** Andrew Yang, NY; George Beyer, NY; Max Solow, NY; Sarah Stroud, NY; Erika Kuehn, NY; Khalid Hesham, NY; Sarah Walker, NY; Bassel Diebo, NY; Ryan Duffly, NY; Scott Barbash, NY

**154 - 08:32**

**Promising Results for Selective Dorsal Rhizotomy for the Prevention of Hip Dislocation in Ambulatory Cerebral Palsy Patients**

**Christopher Pedneault, QC;** Ahmed Aoude, QC; Thierry E. Benaroch, QC; Jean-Pierre Farmer, QC; Neil Saran, QC

Discussion 08:38

**155 - 08:50**

**Modified Dunn Osteotomy versus In situ Pinning for Severe Slipped Capital Femoral Epiphysis: A Comparison of Complications**

**Katie Rooks, SK;** Michael Van Der Merwe, New Zealand; Matthew Boyle, New Zealand; Joshua Chamberlain, New Zealand

**156 - 08:56**

**Addition of Dexmedetomidine and Aprepitant to a Multimodal Postoperative Pain Regimen Reduces Narcotic Requirements, Emesis and Length of Stay in Treating Adolescent Idiopathic Scoliosis**

**Andrew Tice, ON;** Brandon Ramo, TX; Dong-Phuong Tran, TX; Chan-Hee Jo, TX; Heather Kent, TX

**157 - 09:02**

**Characterization of Postoperative Pain and Opioid Use in Children with Supracondylar Humerus Fractures Using Automated Mobile Phone Text Messaging**

**Susan Nelson, United Kingdom;** Apurva Shah, PA; Alexander Adams, PA; Matthew Buczek, PA; Christopher Anthony, IA

**158 - 09:08**

**A Randomized, Controlled Trial Comparing Stockinette Cast Padding and Webril Cast Padding for Treatment of Clubfoot by the Ponseti Method of Serial Manipulation and Casting**

**Kevin Smit, ON;** Ken K. Kontio, ON; Marcel Abouassaly, AB; Meaghan Marien, ON; James G. Jarvis, ON

Discussion 09:14

Saturday

**9:30-10:30 CPOG Annual General Meeting • Esquimalt**

**10:30-11:00 Break • Registration Foyer**

**11:00-12:30 COA ICL: Paediatrics/Spine - Paediatric Spinal Deformity Update • Esquimalt**

*Moderator:* Stefan Parent, QC

Objectives:

At the end of this session, the participants:

1. Will be able to discuss the most recent advances in the treatment of paediatric spinal deformities, namely in conservative treatment and growth-friendly devices.
2. Will be able to discuss the principles of growth modulation of the spine and the most recent indications.
3. Will be able to discuss the current indications for MIS treatment of AIS deformities and the results associated with this technique.

Panelists:

- Firoz Miyanji, BC
- Kevin Smit, ON
- Fabio Ferri-de-Barros, AB

**12:30-13:15 Lunch • Registration Foyer**

**13:15-14:45 Paediatric Symposium: Controversies and Management Options for the Problem CP Hip – Cradle to Grave • Esquimalt**

*Moderator:* Debra Bartley, ON

Objectives:

1. Identify the unique challenges, considerations and management options for hip subluxation in the hypotonic patient.
2. Debate the management conundrum of co-existing scoliosis and hip subluxation or dislocation in the CP patient.
3. Discuss the current recommendations for hip screening in CP.
4. Review the role and types of reconstruction versus resection options for the chronically dislocated spastic hip - When in doubt, cut it out?
5. Discuss the feasibility of arthroplasty in the setting of cerebral palsy and review the experience to date.

Speakers:

- Kevin Smit, ON
- Unni Narayanan, ON
- Kishore Mulpuri, BC
- Clive Duncan, BC

**15:00-16:00 Fireside Chat: Challenging Cases - Comparing and Contrasting the Approach of Senior and Junior Surgeons • Esquimalt**

*Moderator:* Marc Moreau, AB

Panelists:

- Unni Narayanan, ON
- Susan Thompson, MB
- Brent Weatherhead, BC
- Mathilde Hupin, QC

## 2018 Featured Subspecialty COA Spine

**7:50-9:30 COA Paper Session: Spine 2 • Oak Bay 2**

*Moderators:* Simon Harris, ON; Sean Christie, NS, *President Canadian Spine Society*

**159 - 08:00**

Canadian Spine Society's 2018 3<sup>rd</sup> Top Scored Paper Award Winner: **Patients' Expectations for Spine Surgery: What are They, are we Meeting Them and do They Correlate to One-year Postoperative Satisfaction?**

**Raja Y. Rampersaud, ON;** Mayilee Canizares, ON; Andrew Glennie, AB; Ken Thomas, ON; Christopher Bailey, ON; Sean Christie, CSS President, NS; Eugene Wai, ON, Charles Fisher, BC; Anthony Perruccio, ON

**160 - 08:06**

**Health-care Costs of Paediatric Idiopathic Scoliosis in a Publicly-funded Health-care System: A Population-based Cohort Study**

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

**161 - 08:12**

**Incorporation of Interbody Impaction Grafts in Spinal Fusions  
Colby Oitment, ON;** Stephen J. Lewis, ON; Robert Ravinsky, ON

Discussion 08:18

**162 - 08:27**

**Validation of a Novel Freehand Technique for Transcortical Screws in the Lumbar Spine**

**Zachary Tan, ON;** Joel A. Finkelstein, ON; Stewart McLachlin, ON; Mohammad Obeidat, ON

**163 - 08:33**

**Anterolateral Cervical Kyphoplasty for Metastatic Cervical Spine Lesions  
Zhi Wang, QC;** Amer Sebaaly, QC; Ghassan Boubez, QC; Daniel Shedid, QC;

Francis Abed Rabbo, QC



## Saturday

**164 - 08:39**

### **Residents' and Fellows' Participation and Postoperative Technical Surgical Outcomes in Elective Anterior Cervical Spine Surgery**

**Mohamed El Koussy, ON;** Mahmoud Bedaiwy, ON; Eugene Wai, ON; Philippe Tran Nhut Phan, ON; Stephen Kingwell, ON; Abdulkarim Alrabie, ON; Mohammed Alswat, ON; Yahya Alqhtani, ON

Discussion 08:45

**165 - 08:54**

### **Anterior Vertebral Body Tethering for the Treatment of Idiopathic Scoliosis: Feasibility, Outcomes, and Complications**

**Fahimeh Karimi, BC;** Firoz Miyanji, BC; Eva Habib, BC; Luigi Nasto, BC; Andrea Simmonds, BC

**166 - 09:00**

### **The Rate and Risk of Curve Progression in Moderate AIS Following Skeletal Maturity**

**Fahimeh Karimi, BC;** Firoz Miyanji, BC; Tracey Bastrom, CA; Amer Samdani, PA; Suken Shah, DE; Baron Lonner, NY; Randal Betz, PA; Peter O. Newton, CA

**167 - 09:06**

### **Lifetime Incremental Cost-utility Ratios for Minimally Invasive Surgery for Degenerative Lumbar Spondylolisthesis Relative to Failed Medical Management Compared to Total Hip and Knee Arthroplasty for Osteoarthritis**

**Eric Crawford, ON;** Robert Ravinsky, ON; Raja Y. Rampersaud, ON

**168 - 09:12**

### **The Relationship Between Slip Progression and Symptom Deterioration Following Decompression Alone for Low-grade Degenerative Lumbar Spondylolisthesis**

**Eric Crawford, ON;** Robert Ravinsky, ON; Raja Y. Rampersaud, ON

Discussion 09:18

## **9:30-10:30: COA Symposium: The Importance of Considering Concurrent Spine/Hip Disease When Planning Surgery • Oak Bay 2**

*Moderator:* Albert Yee, ON

### Objectives:

1. To learn practical approaches in the treatment of patients with concurrent spine and hip degenerative disease.
2. To learn about the outcomes of patients receiving total hip arthroplasty surgery who have had prior lumbar spinal fusion surgery.
3. To learn about what spino-pelvic-hip parameters are important to consider in related spine/hip treatment.



Speakers:

- Case Vignette – Ken Thomas, AB
- Spino-pelvic Hypermobility is Associated with Inferior Outcome Post THA: Examining the Effect of Spinal Arthrodesis - Paul E. Beaulé, ON
- Understanding Pelvic Parameters and Spinal Pathologies in the Setting of Hip Arthroplasty: An Approach to Concomitant Pathologies – Philippe Tran Nhut Phan, ON

**10:30-11:00 Break • Registration Foyer**

**11:00-12:30 COA ICL: Paediatrics/Spine - Paediatric Spinal Deformity Update • Esquimalt**

*Moderator:* Stefan Parent, QC

Objectives:

At the end of this session, the participants:

4. Will be able to discuss the most recent advances in the treatment of pediatric spinal deformities, namely in conservative treatment and growth-friendly devices.
5. Will be able to discuss the principles of growth modulation of the spine and the most recent indications.
6. Will be able to discuss the current indications for MIS treatment of AIS deformities and the results associated with this technique.

Panelists:

- Firoz Miyanji, BC
- Kevin Smit, ON
- Fabio Ferri-de-Barros, AB

**12:30-13:15 Lunch • Registration Foyer**

**13:15-14:45 COA Symposium: From Bench Towards Clinic: Emerging Biologic and Biomaterial Approaches in the Treatment of Spinal Disease • Oak Bay 2**

*Moderator:* Albert Yee, ON

Objectives:

1. To review promising molecular therapeutic targets aimed towards enhancing intervertebral disc health.
2. To highlight promising biomaterial tissue engineered constructs in treating spinal disease.
3. To highlight patient considerations in translating pre-clinical research towards clinical therapeutics.



## Saturday

### Speakers:

- The Link-N Opportunity for Treating Degenerative Spine Disease - Fackson Mwale, QC
- Biological Intervertebral Disc Replacement: A New Approach to Degenerative Spine Disease - Rita Kandel, ON
- Considering the Patient: A Systematic Approach in Spinal Metastatic Care in 2018 - Michael Weber, QC

### **14:45-16:15 COA Symposium: Valued-based and Timely Surgery (i.e. Cervical Myelopathy, Traumatic SCI) • Oak Bay 2**

*Moderator:* John Street, BC

### Objectives:

After this symposium, the learner should:

1. Understand the principles of value and cost-effectiveness in health care.
2. Recognize the appropriate tools to measure outcome, value and cost-effectiveness in spine surgery.
3. Understand the importance of value and cost-effectiveness considerations in surgical decision making.

### Speakers:

- Introduction: John Street, BC
- Primer on Value in Health Care - Nicolas Dea, BC
- Value in Spine Surgery, What's Out There - Andrew Glennie, NS
- MAP and Timing of Surgery in Traumatic Spinal Cord Injury - Sean Christie, CSS President, NS
- Cost-Effectiveness in the Treatment of Cervical Spondylotic Myelopathy - Jeff Wilson, ON
- Questions, Round-table Discussions - John Street, BC

## **COA Sports and Arthroscopy Association of Canada (AAC)**

### **8:00-9:30 COA Paper Session: Sports 2 • Saanich 1**

*Moderator:* Benjamin Smith, ON

**169 - 08:00**

#### **Age at Time of Surgery but Not Sex is Related to Outcomes after Isolated MPFL Reconstruction**

**Laurie A. Hiemstra, AB; Sarah Kerslake, AB**

**170 - 08:06**

#### **Relationship Between Anatomical Risk Factors, Articular Cartilage Lesions, and Patient Outcomes Following Medial Patellofemoral Ligament Reconstruction**

**Charles Holliday, MI; Laurie A. Hiemstra, AB; John Grant, MI; Sarah Kerslake, AB**

**171 - 08:12**

**The Acetabular and Spino-pelvic Morphologies are Different in Subjects with Symptomatic Cam Morphology**

**Paul E. Beaulé, ON;** Andrew Speirs, ON; Geoffrey Ng, ON; Charles Rivière, United Kingdom; Kawan Rakhra, ON; Mario Lamontagne, ON; George Grammatopoulos, ON

Discussion 08:18

**172 - 08:27**

**Ultrasound versus X-Ray in Hip Arthroscopy: Safety, Accuracy, and Clinical Outcomes**

**Erin Gordey, NS;** Ivan Wong, NS

**173 - 08:33**

**Acetabular Version Increases During Adolescence Secondary to a Reduction in Anterior Femoral Head Coverage**

**Paul E. Beaulé, ON;** George Grammatopoulos, ON; Paul Jamieson, ON; Johanna Dobransky, ON; Kawan Rakhra, Ontario; Sasha Carsen, ON

**174 - 08:39**

**The Reduction of Heterotopic Ossification (HO) Incidence Following Hip Arthroscopy in Patients Treated with Celecoxib**

**Todd Dow, NS;** Ivan Wong, NS

Discussion 08:45

**175 - 08:54**

**Incidence of Total Knee Replacement in Patients with Previous Cruciate Ligament Reconstruction**

**Yiyang Zhang, MB;** James McCammon, MB; Jeff Leiter, MB; Peter B. MacDonald, MB

**176 - 09:00**

**Rotational CT Measurement of Lower Limb Axial Alignment in Patients with Patellofemoral Pain and Instability**

**Sebastian Tomescu, ON;** Christian Egloff, Basel; Ryan Bakker, ON

**177 - 09:06**

**Influence of Lunge and Sidestep Movements on Patellofemoral Kinematics**

**Mitchell Wheatley, ON;** Michael Rainbow, ON; Daniel Borschneck, ON; Myles Ashall, ON

**178 - 09:12**

**Assessment of Physical Activity Using an Accelerometer in Adults Undergoing Primary Anterior Cruciate Ligament Reconstruction – A Prospective Cohort Pilot Study**

**Erin Gordey, NS;** Jaskarndip Chahal, ON; Tim Dwyer, ON; John S. Theodoropoulos, ON; Lucas Murnaghan, ON; Darrell J. Ogilvie-Harris, ON; Guy Faulkner, ON; Catherine Sabiston, ON

Discussion 09:18



Saturday

**9:30-10:30 Guest Speaker and AAC Position Paper Discussion • Saanich 1**

**AAC Guest Speaker:** My Experiences at The Winter Olympics  
- Robert G. McCormack, BC

AAC Position Statement - Brendan Sheehan, NB

**10:30-11:00 Break • Registration Foyer**

**11:00-12:30 COA Sports Tips & Tricks: Arthroscopic Treatment – From Instability to Stiffness • Saanich 1**

*Moderator:* Cole Beavis, SK; Daniel Whelan, ON

Objectives:

1. Highlight technical pearls in arthroscopic management of complex instability of the shoulder, hip, knee and ankle.
2. Discuss prevention and management of arthrofibrosis of the knee.
3. Demonstrate an extra-articular arthroscopic approach to management of lateral epicondylitis.

Speakers:

- Management of the Capsule in Hip Arthroscopy - Jas Chahal, ON
- Prevention and Management of Knee Arthrofibrosis after ACL Reconstruction - Steven French, AB
- Rotational Laxity of the Knee – Role of the Meniscus and Anterolateral Complex – Cole Beavis, SK
- Arthroscopic Management of Ankle Instability – Monika Volesky, QC
- Remplissage Procedure for Arthroscopic Shoulder instability - Jason Old, MB
- Arthroscopic Extra Articular Management of Lateral Epicondylitis - William Regan, BC

**12:30-13:15 Lunch • Registration Foyer**

**12:30-13:15 AAC Business Meeting • Saanich 1**

**13:15-14:45 COA Sports Symposium: How do I Deal with This Case? Case-based/Evidence-based Approach to Problems Across All Joints Arthroscopically • Saanich 1**

*Moderator:* Mark Heard, AB; Olufemi Ayeni, ON

Objectives:

1. Basic work up and imaging for the patient with glenoid bone loss in the anterior instability setting.
2. Surgical description of management of this problem with both an open and arthroscopic Laterjet.
3. Consideration of slope and alignment in the sagittal and coronal planes about the knee.
4. Imaging and work up of the osteotomy patient.
5. Detailed description of performing an osteotomy.
6. Define the critical anatomy of the posterior lateral corner of the knee.
7. Imaging and work up of the posterior lateral corner.
8. Surgical description of use of a single graft to reconstruct the three main structures of the posterior lateral corner.

Speakers:

- **Shoulder:** Glenoid Bone Loss in the Instability Patient - Justin LeBlanc, AB
- **Knee:** Osteotomies About the Knee - Michaela Kopka, AB
- **Knee:** Posterior Lateral Reconstruction of the Knee: A Single Graft Three Structure Technique - Mark Heard, AB
- **Ankle:** Approach to Ankle Instability: Diagnosis and Management Options - Simon Corriveau-Durand, QC; Karl-André Lalonde, ON
- **Hip:** Approach to Hip Labral Disease: Diagnosis and Management Options - Olufemi Ayeni, ON

**15:00-16:00: COA Sports Debates: Mini Battles • Saanich 1**

*Moderators:* Laurie A. Hiemstra, AB; Ivan Wong, NS

Objectives:

1. To learn the arguments for and against the different graft choices for ACL reconstruction.
2. To learn the arguments for and against the different intra-articular injections available for treating osteoarthritis of the knee.

**Battle 1: Hamstring vs. PT Graft for ACL Reconstruction**

John Grant, US vs. Matt Lewington, US

**Battle 2: Hyaluronic Acid vs. Corticosteroid for Knee Joint OA**

Steven French, NL vs. Catherine Hui, AB



Saturday

## COA Trauma

### **8:00-9:00 COA Trauma ICL: Thromboprophylaxis in Trauma Patients: Is There a Consensus? • Crystal Ballroom, Empress**

*Moderator:* Henry Broekhuyse, BC

#### Objectives:

1. Review what is known about the risk of thromboembolic disease following injury to the pelvis, hip, and lower extremities.
2. Review indications and recommendations for thromboprophylaxis following injury to the pelvis, hip, and lower extremities.
3. Discuss the perioperative management of patients on anticoagulants pre-injury.

#### Speakers:

- Perioperative Management of Patients on Anticoagulants Pre-injury - Neil White, AB
- Current practice - A Survey of COA Members - Steven Papp, ON
- Thromboprophylaxis for Patients with Pelvis and Acetabular Trauma - Bill Ristevski, ON
- Thromboprophylaxis for Patients with Hip Fractures - Henry Broekhuyse, BC
- Thromboprophylaxis for Patients with Injury Below the Hip and Knee - Chad Coles, NS

### **9:00-10:40 COA Paper Session Trauma 2 • Crystal Ballroom, Empress**

*Moderators:* Prism Schneider, AB; Jeremy Hall, ON

#### **179 - 09:00**

**Delay in Flap Coverage For Open Tibia Fractures Increases Inpatient Complications: A Cohort Study of 140 North American Trauma Centres**  
**Daniel Pincus, ON;** James Byrne, ON; Avery Nathens, ON; Anna Miller, MO; Philip Wolinsky, CA; Bheeshma Ravi, ON; David Wasserstein, ON; Richard Jenkinson, ON

#### **180 - 09:06**

**Posterior Malleolus Exposure Map and Screw Trajectory: A Cadaveric Study**

**John Morellato, ON;** Brad Meulenkamp, ON; Karl-André Lalonde, ON; Steven Papp, ON; Hakim Louati, ON

#### **181 - 09:12**

**Venous Thromboembolism Prophylaxis in Lower Extremity Orthopaedic Trauma: A Network Meta-analysis**

**Herman Johal, ON;** James A. Yan, ON; Aneesh Karir, ON

**182 - 09:18**

**Nonunion in Patients with Tibial Shaft Fractures - Can Early Functional Status Predict Healing?**

**Raman Mundi, ON;** Diane Heels-Ansdell, ON; Harman Chaudhry, ON; Olufemi R. Ayeni, ON; Brad Petrisor, ON; Jason Busse, ON; Lehana Thabane, ON; Mohit Bhandari, ON

Discussion 09:24

**183 - 09:36**

**Complications with the Lateral Extensile Approach versus Sinus Tarsi Approach in Surgery for Displaced Calcaneus Fracture Surgery: A Systematic Review and Meta-analysis**

**Herman Johal, ON;** Brad Meulenkamp, ON; Andrew Dodd, AB; Risa Shorr, ON; Trevor McGrath, ON; Dean Fergusson, ON

**184 - 09:42**

**The Femorotibial Ratio (FTR) for Determining Length in Comminuted Diaphyseal Femur Fractures**

**Christy McKinnon, ON;** Travis Marion, ON; Prism Schneider, AB; Damian Clark, AB; Stuart Aitken, ME

**185 - 09:48**

**Outcomes Associated with Early Return to Work and Improved Functional Outcome After Ankle Fracture Fixation**

**Niloofer Dehghan, AZ;** Michael D. McKee, ON

**186 - 09:54**

**Rates of Post-traumatic Arthritis After Tibial Plafond Fracture: Is the Anterior Impaction Fracture a Problem?**

**Moaz Bin Yunus Chohan, ON;** David William Sanders, ON; Abdel-Rahman Lawendy, ON; Mark Macleod, ON; Adam Ropchan, ON

Discussion 10:00

**187 - 10:12**

**A Multi-centre, Randomized Trial of Conservative Treatment versus Operative Plate Fixation for Acute, Displaced Fractures of the Distal Clavicle**

**Jeremy Hall, ON;** Michael D. McKee, ON; Milena Vicente, ON; Niloofer Dehghan, AZ; Emil H. Schemitsch, ON; Aaron Nauth, ON; Canadian Orthopaedic Trauma Society (COTS)

**188 - 10:18**

**The Lateral Paratricipital Approach & Lateral Intermuscular Septum Release Decrease Iatrogenic Nerve Injuries for Humeral Shaft Fixation**

**Emmanuel Illical, NY;** Barbara Freeman, NY; Jared Newman, NY; Lee Bloom, NY; Steven Burekhovich, NY; Karen Paltoo, NY; Bassel Diebo, NY; Niladri Basu, NY; Neil V. Shah, NY



## Saturday

189 - 10:24

### **The Impact of High-quality Randomized Trials on Surgical Intervention Rates in a Large Patient Database**

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

Discussion 10:30

#### **10:30-11:00 Break • Registration Foyer**

#### **11:00-12:30: COA Symposium: Trauma - PostOp Fracture Care - Issues in My Plaster Room! • Crystal Ballroom, Empress**

*Moderators:* Ross Leighton, NS; Pierre Guy, BC

#### Objectives:

1. Understand the difficulties in smoking cessation around fracture healing.
2. Understand restrictions put on patients after fracture surgery.
3. How to maximize efficiency in a busy fracture clinic.

#### Speakers:

- How Do I Get my Patient to Quit Smoking - Andrew Pipe, ON
- Can I Let my Patient Drive - Aaron Nauth, ON
- Can I Let my Patient Weight Bear - Ross Leighton, NS
- How Do I Get Out of Plaster Room Early! - Darius Viskontas, BC

#### **12:30-13:15 Lunch • Registration Foyer**

#### **13:15-14:45 COA Trauma Debate: Distal Femur Fracture - A Problem Not Yet Solved • Crystal Ballroom, Empress**

*Moderator:* Allan Liew, ON

#### Objectives:

1. Review key factors to decide between knee arthroplasty versus fracture fixation in the geriatric distal femur fracture and their respective outcomes.
2. Review patient and fracture characteristics influencing the decision to fix distal femur fractures with intramedullary versus plate fixation and summarize their respective outcomes.
3. Analyze case examples to highlight decision making in the treatment of distal femur fractures.
4. Discuss “tricks and tips” for distal femoral fracture fixation.

#### Speakers:

#### **Debate 1: This Fracture Should be Fixed/This Fracture Should be Replaced**

Paul Duffy, AB vs. Ted Tufescu, MB

#### **Debate 2:IM Nailing is Better vs. Plating is Better**

Chad Coles, NS vs. Allan Liew, ON

#### **More Difficult Cases/Technical Tricks - Discussion**



**15:00-16:30 COA Trauma / COFAS Combined Symposium: Severe Injuries to Foot and Ankle - This Came in When I Was on Call - What do I do?**

• **Crystal Ballroom, Empress**

*Moderator:* David Stephen, ON

Objectives:

This will be a 90-minute, case-based, interactive discussion between faculty and participants leading to improved understanding of:

1. Assessment and principles in the management of talar body fractures.
2. Principles of initial and definitive management of high energy pilon fractures.
3. Strategies for assessment and management of open injuries of the foot and ankle.
4. Decision making related to amputations following high energy injuries of the foot and ankle.

Speakers:

- Talar Body Fractures- Abdel-Rahman Lawendy, ON
- The Severe Pilon Fracture - David Stephen, ON
- Open Injuries to The Foot And Ankle - Alastair S.E. Younger, BC
- When to say When - Indications for Amputation in Isolated Foot and Ankle Trauma - Karl-André Lalonde, ON

## COA Tumour

**7:30-9:00 COA Paper Session: Tumour • Sidney**

*Moderators:* Michael Monument, AB; Franklin H. Sim, US

**190 - 07:30**

**Designing a Rational Follow-up Schedule for Soft Tissue Sarcoma**

**David Wilson, ON;** Julia Visgauss, ON; David Perrin, MB; Anthony Griffin, ON; Peter Ferguson, ON; Jay S. Wunder, ON; Aaron Gazendam, ON

**191 - 07:36**

**Stabilization of Long Bone Metastatic Disease: Does Surgical Technique Influence Disease Progression in the Lung?**

**Shannon Puloski, AB;** Raghav Saini, AB; Michael Monument, AB; Olesja Hazenbiller, AB

**192 - 07:42**

**Hip Joint Reconstruction is Not Necessary Following Periacetabular Resection for Sarcoma**

**David Wilson, ON;** David Perrin, MB; Julia Visgauss, ON; Anthony Griffin, ON; Jay S. Wunder, ON; Peter Ferguson, ON

Discussion 07:48



## Saturday

**193 - 07:57**

**The Role of Denosumab in Joint Preservation for Patients with Giant Cell Tumour of Bone: Not a Magic Bullet?**

**David Perrin, MB**; Julia Visgauss, ON; David Wilson, ON; Anthony Griffin, ON; Peter Ferguson, ON; Jay S. Wunder, ON

**194 - 08:03**

**What is the Diagnostic Accuracy of Biopsies of Soft Tissue Sarcomas?**

**Anthony Griffin, ON**; Nicolle Clements, ON; Jay S. Wunder, ON; Peter Ferguson, ON

**195 - 08:09**

**Predictors of Extended Hospital Stay in Patients Following Surgical Resection of Soft Tissue Sarcomas: Analysis of the ACS-NSQIP Database**

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

Discussion 08:15

**196 - 08:24**

**What are the Incidence and Risk Factors for Anterior Wound Complications Following Harvest of Vertical Rectus Abdominis (VRAM) Flaps for Sacral Reconstruction?**

**Meagan Tibbo, MN**; Matthew Houdek, MN; Peter Rose, MN; Karim Bakri, MN; Michael Yaszemski, MN; Franklin H. Sim, MN; Steven Moran, MN

**197 - 08:30**

**Outcome and Complications Following Vertical Rectus Abdominis (VRAM) Flaps to Reconstruct Sacrectomy Defects**

**Matthew Houdek, MN**; Franklin H. Sim, MN; Steven Moran, MN; Meagan Tibbo, MN; Peter Rose, MN

**198 - 08:36**

**Reconstruction du Cotyle Métastatique avec L'Armature Métallique de Type Kerboul et Cupule Double Mobilité Cimentée, Revue d'une Série de Quatorze Patients**

**Dezso Barabas, QC**

**199 - 08:42**

**Surveillance After Extremity Tumor Surgery (SAFETY) Patient Survey: A Patient-Centred Approach to the Protocol Development of an International Randomized Controlled Trial**

**Michelle Ghert, ON**; Bo Xuan Lin, ON; Patricia Schneider, ON; Anthony Bozzo, ON

Discussion 08:48

**9:00-10:30 Combined CAS / Tumour ICL: Managing Surgical Site Infection**

**• Sidney**

*Moderator:* Michael Monument, AB

Objectives:

1. Discuss established and novel strategies geared towards the prevention of surgical site infection of total joint arthroplasties.
2. Review current standards and emerging technologies used to diagnose acute and chronic infections of peri-prosthetic joint infections.
3. To review the management of acute and chronic peri-prosthetic joint infections.
4. To discuss challenging clinical cases of peri-periprosthetic joint infections.

Speakers:

- Strategies for Prevention of SSI - Kristen Brown, AB
- Diagnosis of SSI - Nelson V. Greidanus, BC
- Acute and Chronic SSI - Thomas Turgeon, MB
- Managing the Impossible - Norbert Dion, QC

**10:30-11:00 Break • Registration Foyer**

**11:00-12:30 CANOOS Business Meeting • Sidney**

**COA Upper Extremity and  
Canadian Shoulder & Elbow Society (CSES)**

**7:30-9:00 COA Paper Session: Upper Extremity 2 • Oak Bay 1**

*Moderators:* William Regan, BC; Parham Daneshvar, BC

**200 - 07:30**

**Randomized, Placebo-controlled Clinical Trial Evaluating Ketotifen Fumarate in Reduction of Posttraumatic Elbow Joint Contracture**  
**Prism Schneider, AB;** Nicholas G.H. Mohtadi, AB; Tolulope Sajobi, AB; Meng Wang, AB; Neil White, AB; Alexandra Garven, AB; Kevin Hildebrand, AB

**201 - 07:36**

**Outcome After Treatment of Elbow Stiffness Following Bicolumnar Fixation of Distal Humeral Fractures**

**Christine Schemitsch, ON;** Brian Seeto, ON; Luc Rubinger, ON; Milena Vicente, ON; Emil H. Schemitsch, ON; Michael D. McKee, ON



## Saturday

202 - 07:42

### **Lateral Trochlear Ridge: a Non-articulating Safe Zone for Anterior-to-Posterior Screw Placement for Capitellum and Trochlea Fractures**

**Bogdan Matache, ON;** Youjin Chang, ON; Greg O. Cron, ON; Kathryn Culliton, ON; Randa Berdusco, MB; J Pollock, ON; Hakim Louati, ON

Discussion 07:48

203 - 07:57

### **The Effect of Radial Head Hemiarthroplasty Stem Fit on Radiocapitellar Contact Mechanics: Is a Loose Fit Better than Rigidly Fixed?**

**Graham J.W. King, ON;** Jakub Szmit, ON; James A. Johnson, ON; G. Daniel Langohr, ON

204 - 08:03

### **Outcomes of Convertible Total Elbow Arthroplasty for the Management of Complex Distal Humeral Fractures in the Elderly**

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

205 - 08:09

### **CSES Best Paper Award: Arthroscopic Bankart Repair With and Without Arthroscopic Infrapinatus Remplissage in Anterior Shoulder Instability with Hill-Sachs Defect: Randomized Controlled Trial**

**Jason Old, MB;** Sheila McRae, MB; Peter B. MacDonald, MB; Jeff Leiter, MB; Peter Lapner, ON; James Dubberley, MB; Gregory Stranges, MB; Sharad Prabhakar, MB; Randy Mascarenhas, TX; Jonathan Marsh, MB

Discussion 08:15

206 - 08:24

### **Early Mobilization Following Arthroscopic Rotator Cuff Repair: A Randomized Control Trial**

**David Sheps, AB;** Anelise Silveira, AB; Fiona Styles-Tripp, AB; Lauren Beaupre, AB; Robert A. Balyk, AB; Martin Bouliane, AB

207 - 08:30

### **Is Patient Satisfaction in Arthroscopic Shoulder Surgery Improved by Personalized Patient Videos? A Randomized Control Study**

**Laura Sims, SK;** David Sauder, SK; Raymond Khan, SK

208 - 08:36

### **Anxiety and Depression in Preoperative Rotator Cuff Patients**

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

209 - 08:42

### **A Biomechanics Study Comparing the Subacromial Balloon Spacer to Superior Capsular Reconstruction in the Treatment of Massive, Irreparable Rotator Cuff Tears**

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

Discussion 08:48

**9:00-10:30 COA/CSES Video Tips & Tricks: Shoulder Instability • Oak Bay 1**

*Moderator:* Danny Goel, BC

\*All video vignettes five minutes with five minutes for discussion\*

Objectives:

1. Indications, techniques and tips/tricks for glenoid labral repair (anterior, posterior and superior).
2. Indications and advantages of varying methods of glenoid bone reconstruction.
3. Understanding of adjunct soft tissue stabilization techniques for anterior shoulder instability.

Speakers:

- SLAP Repair Indications / Technique - William Regan, BC
- Arthroscopic Posterior Stabilization / Soft Tissue - Jeffrey Pike, BC
- Arthroscopic Posterior Stabilization / Bone - Ivan Wong, NS
- Latarjet Procedure (open) - Martin Bouliane, AB
- Arthroscopic Anterior Glenoid Bone Grafting (allograft) - Ivan Wong, NS
- Arthroscopic Glenoid Bone Grafting (latarjet) - Dave Saliken, AB
- Arthroscopic Remplissage - Robert Litchfield, ON

**10:30-11:00 Break • Registration Foyer**

**11:00-12:30 COA/CSES Elbow Symposium: Elbow Fractures – Current Concepts and Complications • Oak Bay 1**

*Moderator:* Graham J.W. King, ON

Objectives:

1. To learn the current indications, technique and outcomes for the management of radial head fractures, distal humeral fractures and terrible triad injuries of the elbow.
2. To provide the attendees with an interactive learning experience using case-based examples of common elbow fractures.

Speakers:

- Radial Head Fractures - J Pollock, ON
- Distal Humerus Fractures - Parham Daneshvar, BC
- Terrible, Terrible Triads – Graham J.W. King, ON

**12:30-13:15 Lunch • Registration Foyer**



Saturday

**13:15-14:45 COA / CSES Shoulder Arthroplasty Symposium: Management of the B2 Glenoid • Oak Bay 1**

*Moderator:* Patrick Chin, BC

Objectives:

By the end of the session, participants will understand:

1. The challenge faced in management of the Type B2 Glenoid in total shoulder arthroplasty.
2. The “tricks” or “pearls” available in management of B2 Glenoid defects.
3. The outcomes of the surgical techniques used for managing B2 defects.
4. The future: How technology will assist us in the management of B2 defects.

Speakers:

- Glenoid Component Positioning in Anatomic Shoulder Arthroplasty: Biomechanical and Clinical Implications - Danny Goel, BC
- Glenoid Bone Grafting - Darren Drosdowech, ON
- Questions/Discussion
- Glenoid Reaming - Patrick Chin, BC
- Posterior Glenoid Augments - Peter Lapner, ON

**14:45-15:45 CSES Research Meeting • Oak Bay 1**

**15:45-16:45 CSES Executive and Business Meeting • Oak Bay 1**