For the first time this year, the COA has paired up practicing surgeons with residents and fellows for a one-day mentorship program. All participating mentors and mentees are invited to attend this brief meet-and-greet to get to know your match, and to plan your day.

Speakers:
- Surgical Timing: Middle of the Night or the Light of Day, Which Fractures, What Time? Prism Schneider, AB
- Is There a Current Evidence-Based Approach for Critical Size Bone Defects? Steven Papp, ON
- Tissue Coverage from Wound Vac to Free Flap, When Is the Best Time and With What? Chad P. Coles, NS
- What Are the Top Three Big Research Questions That Need to be Addressed? Emil H. Schemitsch, ON
Friday

- Elbow – Kenneth Faber, ON

7:30-9:10 COA Paper Session: Sports 1 • Room 519A
Moderators: Randa Berdusco, MB; Nathan Urquhart, NS

203 - 7:30
Femoroacetabular Impingement Randomized Controlled Trial (FIRST): A Multicentre Randomized Controlled Trial Comparing Arthroscopic Lavage and Arthroscopic Osteochondroplasty on Patient Important Outcomes in the Treatment of Young Adult FAI
Olufemi R. Ayeni, ON; FIRST Investigators, ON

204 - 7:36
Chitin-Based Scaffolding With Microfracture Versus Microfracture Alone for the Treatment of Acetabular Chondral Defects: Two-Year Outcomes
Rakesh John, NS; Ivan Wong, NS

205 - 7:42
Two-Year Post-Operative Outcomes of Revision ACL Reconstruction Compared with a Matched Cohort of Primary ACL Reconstruction
Jeremy Tynedal, AB; S. Mark Heard, AB; Laurie A. Hiemstra, AB; Gregory M.L. Buchko, AB; Sarah Kerslake, AB

7:48 Discussion

206 - 7:57
What Makes Suture Anchor Use Safe in Hip Arthroscopy? A Systematic Review of Techniques and Safety Profile
Olufemi R. Ayeni, ON; Ajay Shah, ON; Jeffrey Kay, ON; Muzammil Memon, ON; Ryan Coughlin, QC; Nicole Simunovic, ON; Shane J. Nho, US

207 - 8:03
Fixation of Fibular Head Avulsion Fractures: The Proximal Tibiofibular Screw
Ryan Paul, ON; Ryan Khan, ON; Daniel B. Whelan, ON
208 - 8:09
Functional Outcomes and Quality of Life for ACL Reconstruction Patients With Meniscal Injury: Results From a 1814 Patient Cohort With Two-Year Follow-Up
Jessica Page, AB; Sarah Kerslake, AB; Gregory M.L. Buchko, AB; S. Mark Heard, AB; Laurie A. Hiemstra, AB; Michaela Kopka, AB

209 - 8:15
Post-Operative Laxity, Functional Performance and Quality of Life Following Anterior Cruciate Ligament Reconstruction
Mireille Marquis, QC; Sarah Kerslake, AB; Laurie A. Hiemstra, AB; S. Mark Heard, AB; Gregory M.L. Buchko, AB

8:21 Discussion

210 - 8:33
Quantitative Hip Cartilage MRI Of Patients with Hip Dysplasia: Evaluation Of dGEMRIC, T1ρ And T2* Mapping
Gerd Melkus, ON; Paul E. Beaulé, ON; Kawan Rakhra, ON; Geoffrey Wilkin, ON

211 - 8:39
Complete Capsular Repair Restores Native Kinematics Following Interportal and T-Capsulotomy
Ryan Degen, ON; Timothy Burkhart, ON; Pardis Baha, ON; Alan Getgood, ON

212 - 8:45
Tunnel Widening in ACL Reconstruction Using a PLLA Versus a PLLA+TCP Interference Screw For Tibial Fixation: A Prospective Randomized Clinical Trial
Peter B. MacDonald, MB; Sheila McRae, MB; Graeme Matthewson, MB; Jeff Leiter, MB; Simon Lenschow, MB

213 - 8:51
Robi Kelc, Slovenia
8:57 Discussion

**7:45-9:15 COA Paper Session: Paediatrics 1 • Room 518BC**

*Moderators:* Unni Narayanan, ON; David Nelson, BC

**213 - 7:45**
Tibial Tuberosity Ossification Predicts Reoperation for Growth Disturbance in Distal Femoral Physeal Fractures
*Mark Camp, ON; Andrew W. Howard, ON; Daniel Westacott, ON; Jim Kennedy, ON*

**215 - 7:51**
Femoral Fassier-Duval Rodding in Osteogenesis Imperfecta: Long-Term Results in 27 patients with a Minimum 10-Year Follow-Up
*A Abdullah Addar, QC; Yousef Marwan, QC; Fan Jiang, ON; Nizar Algarni, QC; Kathleen Montpetit, QC; Reggie C. Hamdy, QC; Francois Fassier, QC*

**216 - 7:57**
A Clinical Prediction Model for Growth Arrest in Paediatric Physeal Fractures
*Nikki Hooper, BC; Emily Schaeffer, BC; Nicole Banting, BC; Rubini Pathy, MA; Anthony Cooper, BC; Christopher W. Reilly, BC; Kishore Mulpuri, BC*

8:03 Discussion

**217 - 8:12**
The Effect of Selective Dorsal Rhizotomy on Hip Displacement in Children with Cerebral Palsy: A Long-Term Follow-Up Study
*Emily Schaeffer, BC; Stacey Miller, BC; Maria Juricic, BC; Paul Steinbok, BC; Jeffrey Bone, BC; Kishore Mulpuri, BC*

**218 - 8:18**
Radiographic Changes of the Proximal Femur Following in Situ Fixation With a Free-Extending Screw for Treatment of Slipped Capital Femoral Epiphysis
*Kevin Morash, NS; Luke Gauthier, NS; Benjamin Orlik, NS; Ron El-Hawary, NS; Karl Logan, NS*
Friday

219 - 8:24
The Results of Surgical Dislocation for Acute SCFE
Asif Parkar, AB; Pamela Railton, AB; James Powell, AB; Marcel Abouassaly, AB; Gerhard N. Kiefer, AB; Kelly Johnston, AB

8:30 Discussion

220 - 8:39
Predictive Model for Clinical Decision Making in Management of Paediatric Supracondylar Fractures
Jong Min (John) Lee, ON; Tan Chen, ON; Mark Camp, ON; Alexander Tchoukanov, ON; Unni Narayanan, ON

221 - 8:45
Outcomes of Peripheral Motor Nerve Recovery following Paediatric Supracondylar Fractures
Jong Min (John) Lee, ON; Tan Chen, ON; Alexander Tchoukanov, ON; Unni Narayanan, ON; Mark Camp, ON

222 - 8:51
Post Traumatic Growth Arrest of the Distal Radius in Children and Adolescents
Patrick Tohme, QC; Mathilde Hupin, QC; Marie-Lyne Nault, QC; Constantin Stanciu, QC; Marie Beausejour, QC; Raphaëlle Blondin-Gravel, QC; Éric Désautels, QC; Nathalie Jourdain, QC

8:57 Discussion

8:00-9:00 CORS Executive • 522C

8:00-9:15 CSES Business Meeting • Room 525

9:15-10:45 COA Plenary: Guest Speaker and Special Ceremonies • Room 517D

- That’s a Wrap! R5 Residency Completion Ceremony
- RI Harris Lecture: From Professionalism to Professional Identity: An Educational Journey - Richard Cruess, QC
- CORS Transfer of Office
Friday

- **COA President-Elect Address**: Modest Beginnings and Striving to Improve - Mark Glazebrook, NS
- **COA Transfer of Office**

10:45-11:15 Break - Food & Beverage for Purchase in Exhibit Hall

11:00-15:00 AAC Lab: Arthroscopic Management of Rotator Cuff Disease and Shoulder Instability • Shriners Paediatric Simulation Centre

**Shuttle pick up**: The Westin Hotel at 10:15  
**Lab address**: Shriners Pediatric Simulation Centre, Shriners Hospital for Children -Canada, 2nd floor RM 2.37, 1003 Décarie Blvd, Montreal, QC, H4A 0A9

**Goal**: To demonstrate and practice arthroscopic techniques for management of rotator cuff disease and shoulder instability.

**Objectives**: By the end of this session, participants will be better able to:
1. Describe the principles of arthroscopic treatments for rotator cuff disease and shoulder instability.
2. Demonstrate relevant PEARLS for arthroscopic management of the above.
3. Demonstrate techniques of arthroscopic bankart repair +/- remplissage procedure +/- posterior labral repair.
4. Observe and/or demonstrate techniques in anterior bony augmentation of glenoid (Open Latarjet or arthroscopic distal tibial allograft).
5. Demonstrate arthroscopic biceps tenodesis.
6. Demonstrate arthroscopic rotator cuff repair +/- rotator cuff patch augmentation +/- superior capsular reconstruction.

**Instructors**:
1. Rotator Cuff  
   a. Arthroscopic Biceps Tenodesis – Moin Khan, ON  
   b. Subscapularis Mobilization and Repair - Brendan Sheehan, NB  
   c. Single and Double Row Repair Techniques – Tim Dwyer, ON
d. Superior Capsular Reconstruction Made Easy – Joel Lobo, ON

2. Shoulder Instability
   a. Arthroscopic Bankart Repair – Marie-Eve Lebel, ON
   c. Arthroscopic Distal Tibial Allograft for Bone Loss – Ivan Wong, NS
   d. Open Latarjet – Martin Boulaine, AB

11:15-12:00 COA Featured Subspecialty Hand and Wrist Keynote
Speaker: Targeted Muscle Reinnervation to Prevent Amputee Pain
- Todd Kuiken, US • Room 517D

11:15-12:45 COA Foot and Ankle & Hip and Knee Arthroplasty ICL:
Common Challenges for Lower Extremity Arthroplasty Surgeons
• Room 518A
Moderators: Karl-André Lalonde, ON; Etienne Belzile, QC

Objectives:
1. To understand the biomechanics of the lower extremity.
2. How to diagnose a lower limb deformity.
3. How to manage concomitant knee and ankle OA.
4. How to recognize challenges in lower limb arthroplasty.

Speakers:
- Deformity Correction in TAR - Timothy Daniels, ON
- Deformity Correction in TKA - Robert Feibel, ON
- Lower Limb Alignment and Joint Salvage for Ankle Arthritis - Andrea Veljkovic, BC
- Kinetic alignment in TKA - Pascal-André Vendittoli, QC
- Failed TAR - Thibault Leemrijse, Belgium
- Update in the Science of Osteolysis and Polyethylene Wear - Amit Atrey, ON

11:15-12:45 COA Paper Session: Trauma 1 • Room 525
Moderators: Prism Schneider, AB; Stephane Leduc, QC
223 - 11:15
The Risk of Ankle Fusion or Arthroplasty After Operatively and Non-Operatively Treated Ankle Fractures – A Matched Cohort Population Study
Daniel Axelrod, ON; David Wasserstein, ON; Thomas Zochowski, ON; Paul H. Marks, ON; Nizar Mahomed, ON; Andrea Veljkovic, BC

224 - 11:21
Association Between Pre-Operative Echocardiography and Increased Post-Operative Mortality and Medical Costs Among Adults With Hip Fracture
Justin Chang, ON; Daniel Pincus, ON; Richard Jenkinson, ON; David Wasserstein, ON; Hans Kreder, ON; Bheeshma Ravi, ON

11:27 Discussion

225 - 11:37
Association Between Socioeconomic Deprivation and Surgical Complications in Adults Undergoing Ankle Fracture Fixation: A Population-Based Analysis
Jesse Wolfstadt, ON; Daniel Pincus, ON; Hans Kreder, ON; David Wasserstein, ON

226 - 11:43
The Effect of Time to Irrigation on the Rate of Reoperation in Open-Fractures: A Propensity Score-Based Analysis of the Fluid Lavage of Open Wounds (FLOW) Study
Herman Johal, ON; Sofia Bzovsky, ON; Daniel Axelrod, ON; Sheila Sprague, ON; Brad Petrisor, ON; Kyle Jeray, US; Diane Heels-Ansdell, ON; Mohit Bhandari, ON; FLOW Investigators, ON

11:49 Discussion

227 - 11:59
Does Position of the Injured Lung During Lateral Femoral Intramedullary Nailing Affect ICU Length of Stay
Aresh Sepehri, BC; Gerard P. Slobogean, US; Nathan O'Hara, US; Robert V. O'Toole, US
Dynamic CT Can Distinguish Differences in Tibiofibular Motion Following Syndesmotic Injury
Murray Wong, AB; Richard Buckley, AB; Paul Duffy, AB; Robert Korley, AB; Ryan Martin, AB; Tanja Harrison, AB; David William Sanders, ON; Prism Schneider, AB; Charmaine Wiens, AB

The Effects of Dual Plating on the Vascularity of the Distal Femur
Natalie Rollick, ON; Jessica Bear, US; Owen Diamond, UK; David Helfet, US; David Wellman, US

The State of Malnutrition in a Geriatric Population Admitted for Hip Fracture. A Prospective Cohort Study
Stéphane Pelet, QC; Etienne Belzile, QC; Louis-Charles Racine, QC; Philippe Beauchamp-Chalifour, QC; Marie-Pier Nolet, QC; Hugo Messier, QC; Dominic Plante, QC

Objective:
As a physician, you have worked hard and sacrificed a lot—and you want your efforts to have an impact, even after you’re gone. This moderated discussion examines how you can translate your hard work and professional success into an estate plan and a legacy that transcends your professional career.
Friday

Speakers:
- Clifford Lachmansingh
- Melissa Plunkett
- Jeff Steski
- Stephen Hunt

11:15-12:45 Surgeon-Led Health-Care Innovation: A Pan Canadian Perspective of Central Intake Models • Room 519A
Moderators: Thomas Hupel, ON; Julian Sernik, BC

Speakers:
- Introduction - Jeffrey Gollish, ON
- Screening Clinics: The Rebalance MD Approach - Peter J. Dryden, BC
- MSK Central Intake in Edmonton: One Stop Shopping - Robert Stiegelmar, AB
- Building a Distributes MSK Centre of Excellence in North Western Ontario - David Puskas, ON; Caroline Fanti, ON
- Implementation of a New Orthopaedic Assessment Clinic- The Nova Scotia Experience and Results to Date - Jennifer Leighton, NS

12:15-13:30 Lunch - Food & Beverage for Purchase in Exhibit Hall

13:30-15:00 COA Paper Session: Adult Reconstruction Hip 2
• Room 525
Moderators: David Zukor, QC; Thomas Turgeon, QC

231 - 13:30
Effects of Acetabular Cup Orientation and Implant Design on Psoas Impingement in Total Hip Arthroplasty
Ahmad Faizan, US; Jingwei Zhang, US; Laura Scholl, US

232 - 13:36
Is Cementless Short-Stem Total Hip Arthroplasty Safe in the Geriatric Population? A Prospective Multicentre Observational Study.
Georgios Gkgkalis, QC; Karl Philipp Kutzner, Germany; Patrick Goetti, Switzerland; Sabine Mai, Germany; Ingmar MeineckeGermany; Näder Helmy, Germany; Dominique Bosson, Switzerland
233 - 13:42
Effect of Pre-Operative Depression on Patient Reported Function and Pain Post Total Joint Arthroplasty (Total Hip/Knee Arthroplasty)
Tyson Boettcher, AB; C. Allyson Jones, AB; Lauren Beaupre, AB; Sung Hyun Hyun Kang, AB; Richard McLeod, AB

13:48 Discussion

234 - 13:57
Marital Functioning and Spouse-Reported Improvements in Quality of Life after Total Hip and Knee Arthroplasty
Michael Tanzer, QC; Christopher Pedneault, QC; Karen Smith, QC

235 - 14:03
Reliability of a Comprehensive Classification for Adult Acetabular Dysplasia (CCAD)
Kamal Bali, ON; Kevin Smit, ON; Paul E. Beaulé, ON; Geoffrey Wilkin, ON; Stephane Poitras, ON; Mazen Ibrahim, ON

236 - 14:09
Can Spinopelvic Mobility Be Predicted in Patients Awaiting Total Hip Arthroplasty? – A Prospective, Diagnostic Study of Patients with End-Stage Hip Osteoarthritis
Moritz M. Innmann, ON; George Grammatopoulos, ON; Paul E. Beaulé, ON; Christian Merle, Germany; Tobias Gotterbarm, Austria

Discussion 14:15

237 - 14:24
Joint Perception After Total Hip Arthroplasty and the Forgotten Joint
Yann Beaulieu, QC; Pascal-André Vendittoli, QC; Benjamin Puliero, QC; William Blakeney, QC

238 - 14:30
Radiographic Assessment of the Dynasty Biofoam Acetabular Component With a Minimum 2 Years Follow-Up
Romain Galmiche, France; Paul E. Beaulé, ON; Johanna Dobransky, ON; Alberto Carli, US
Dilute Povidone-Iodine Did Not Decrease Infection in 11,738 Primary Hip and Knee Arthroplasties
Adam Hart, QC; Nicholas Hernandez, US; Michael Taunton, US; Tad Mabry, US; Matthew Abdel, US; Kevin Perry, US

Post-Operative Outcomes Following Total Hip and Knee Arthroplasty in Patients With Pain Catastrophizing, Anxiety or Depression
Thomas Wood, ON; Danielle Petruccelli, ON; Conrad Kabali, ON; Mitchell J. Winemaker, ON; Justin De Beer, ON

Discussion 14:48

13:30-15:00 COA Paper Session: Hand and Wrist / Elbow
Moderator: Thomas J. Goetz, BC; Braden Gammon, ON • Room 524A

The Effect of Torsional Moments on the Posterolateral Rotatory Instability of a Lateral Ligament Deficient Elbow: A Novel Biomechanical Modeling and In Vitro Investigation
Armin Badre, AB; David Axford, ON; Sara Banayan, ON; Jim Johnson, ON; Graham J.W. King, ON

Radial Head Arthroplasty for Essex-Lopresti Lesions: Outcomes of Acute verses Chronic Management
Laura Sims, SK; William Aibinder, ON; Kenneth J. Faber, ON; Graham J.W. King, ON

Factors Affecting Outcome of Partial Radial Head Fractures: A Retrospective Cohort Study
Anne Couture, QC; Jonah Davies, US; Julien Chapleau, QC; George Yves Laflamme, QC; Emilie Sandman, QC; Dominique Rouleau, QC

13:48 Discussion
244 - 13:57
Reliability of the Gartland Classification System for Extension-Type Supracondylar Humerus Fractures
Tammie Teo, BC; Emily Schaeffer, BC; Abhiram Cherukupalli, BC; Anthony Cooper, BC; Alaric Aroojis, India; Wudbhav Sankar, US; Vidyadhar Upasani, US; Sasha Carsen, ON; Kishore Mulpuri, BC; Jeffrey Bone, BC; Christopher W. Reilly, BC

245 - 14:03
Ultrasound: A New Tool to Assess Posterolateral Elbow Ulnohumeral Laxity
Mathilde Hupin, QC; Thomas J. Goetz, BC; Nicola Robertson, BC; Darra Murphy, BC; Mark Cresswell, BC; Kevin Murphy, BC

246 - 14:09
Heterotopic Ossification After Total Elbow Arthroplasty: A Systematic Review
Bashar Alolabi, ON; Moin Khan, ON; Eva Y. Liu, ON; Alexandra H. Hildebrand, ON; George Athwal, ON; Nolan Horner, ON

Discussion 14:15

247 - 14:24
Gender Differences in Distal Radius Morphology and its Effect on the Anatomic Fit of Standard Volar Locking Plates
Armin Badre, AB; Madeline Perrin, ON; Karam Albakri, ON; Nina Suh, ON; Emily Lalone, ON

248 - 14:30
The Efficacy of Repeated Closed Reduction of Distal Radius Fractures
Alex Hoffer, BC; Daniel Banaszek, BC; Henry Broekhuyse, BC; Jeffrey Potter, ON

249 - 14:36
Comparison of Range of Motion Between Dorsal and Volar Plate Fixation for Distal Radius Fractures
Eva Gusnowski, AB; Prism Schneider, AB; Kate Thomas, AB
Predictors of 30-Day Readmission and Complications Following Internal Fixation of Distal Radius Fractures

Lauren Nowak, ON; Melanie MacNevin, ON; Michael D. McKee, US; David William Sanders, ON; Abdel-Rahman Lawendy, ON; Emil H. Schemitsch, ON

14:48 Discussion

13:30-15:00 COA Visiting Presidents' Symposium: Identifying and Managing Surgeon Under-Performance / Competence • Room 517D

Moderator: John Antoniou, COA President, QC

Objectives:
This symposium is meant to describe different ways surgeon underperformance and competence is evaluated and addressed in various jurisdictions around the world. Discussions will centre around how this delicate problem is reported and dealt with.

Speakers:
- Learning From Others – The Sky’s the Limit - David Halsey, AAOS President, US
- Addressing the Aging Surgeon: The US Approach - Rick W. Wright, AOA President, US
- Do Good Surgeons Have Happy Patients, and Vice Versa? David Martin, AUOA President, Australia
- Using Registries to Identify Unit and Surgeon Outliers - Philip Turner, BOA President, UK
- Towards Self-Regulation: The NZOA Practice Visit Program and Outlier Policy - Rod Maxwell, NZOA President, New Zealand
- Peer Mentoring: Developing a Response to Surgeon Need and for the Surgeon in Need - Leon Rajah, SAOA President, South Africa
- Can We Do Better? The Canadian Experience - John Antoniou, COA President, QC

13:30-15:00 Canadian Paediatric Orthopaedic Group (CPOG) Research Meeting • Room 518BC

14:30-15:30 Break and Poster Session with Coffee • Exhibit Hall
15:30-16:15 CJRR 2019 Report and Incorporation of PROMS in Arthroplasty Outcomes Monitoring • Room 525

Moderator: Eric Bohm, MB

Objectives
1. Increase knowledge of current trends in hip and knee arthroplasty using Canadian registry data.
2. Understand and discuss the applications of PROMs in managing patient care.
3. Learn about Canada’s leadership role in standardized PROMs collection and reporting internationally.

Speakers:
- 2019 CJRR Report and Findings - Eric Bohm, MB
- Role of PROMS in Outcomes Assessment - Mike Dunbar, NS
- Advancing PROMs Collection and Reporting in Canada and Internationally - Sunita Karmakar-Hore, ON

15:30-17:00 COA Foot and Ankle (COFAS) Round Table • Room 518A

Objectives:
Round table discussion of foot and ankle cases: Please bring your cases, or join the small group discussions surrounding diverse challenges within foot and ankle surgery.
Topics: treatment for challenging flat and cavus feet, ankle arthritis, trauma, forefoot pathology.

Speakers:
- Hallux Vagus and Associated Forefoot - Heather Barske, MB; Gorden Goplen, AB; Warren Latham, ON
- Cavus Foot - Thibaut Leemrijse, Belgium; Maryse Bouchard, ON; Karl-Andre Lalonde, ON; Timothy Daniels, ON
- Flat Foot - Andrea Veljkovic, BC; Joel Morash, NS
- Osteochondral Lesions - Rachael Da Cunha, US; Monika Volesky, QC; Alistair Younger, BC
Friday

- Foot and Ankle Trauma - Stephane Leduc, QC; Angela Scharfenberger, AB; Philip Hugo-Champagne, QC; Rod Maxwell, NZOA President, New Zealand

15:30-17:00 Paediatrics Fireside Chat • Room 518BC
Moderator: Megan Cashin, ON

Speakers:
- Dror Paley, US
- Panagiotis Glavas, QC
- Alaric Aroojis, India

15:30-17:00 Trauma Fireside Chat • Room 524A
Moderators: Ted Tufescu, MB; Peter O’Brien, BC; Markku Nousiainen, ON

15:30-17:00 Arthroscopy Association of Canada (AAC) Executive Meeting • Room 519A

15:30-17:30 WECAN: Research & Beer - Investigator’s Meeting • Room 523