Thursday, June 21
COA/CORS Scientific Program

7:00-8:00 RSA Network Meeting • Langford

8:00-9:30 Late Career Transitioning ICL • Lecture Theatre

*Moderators:* Thomas Hupel, ON; Veronica Wadey, ON

**Speakers:**

- **Exit Strategies: Patterns of Physician Retirement and Pre-retirement Activity** - Lindsay Hedden, BC

  **Objectives:**
  1. To explore and compare mechanisms of identifying physician retirement in administrative data.
  2. To identify patterns of when and how physicians retire across specialties and demographic groups of physicians in BC.
  3. To identify and conceptualize patterns of activity in the years preceding retirement and explore whether activity patterns vary by specialty or demographic factors.

- **Late Career Transition: Curse or Cure** - Robin Richards, ON

  **Objectives:**
  1. To determine the need for an organized approach to successfully plan for late career transition.
  2. To determine the parameters that need to be considered for successful late career transition.
  3. To define practical actions that the relevant stakeholders can use to ensure a constructive late career transition process.

- **Paying it Forward: On with the Old, and More of the New, Growing a Practice with Maturity and Young Talent** - Stefan Fletcher, BC

  **Objectives:**
  1. Learn how retired surgeons require guidance to be shown sustainable pathways of how to continue to add value without surgical privileges.
  2. Learn how the use of data can illustrate a pathway of meaningful integration of a retired surgeon to add value to a community practice.
  3. Learn how to find meaningful ways to ease out retired surgeons by adding a broader scope and how this practice leads to hiring more young surgeons.
### Thursday

8:00-9:50 CORS Paper Session: Bone, Ligament & Tendon / Joints & Arthritis • Oak Bay
*Moderators:* Simon Kelley, ON; David R. Wilson, BC

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Presenters</th>
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<tbody>
<tr>
<td>1 - 08:00</td>
<td>Dynamic Meniscal and ACL Strains are Maintained Following ACL Reconstruction</td>
<td>Sebastian Tomescu, ON; David Wasserstein, ON; Cari Whyne, ON; Ryan Bakker, ON; Naveen Chandrashekar, ON; Mayank Kalra, ON; Micah Nicholls, CA</td>
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<tr>
<td>2 - 08:06</td>
<td>Effect of Cold Therapy on Bone Healing</td>
<td>Daniel Castano, QC; Geraldine Merle, QC; Ed Harvey, QC; Jose Ramirez-Garcia Luna, QC</td>
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<td>3 - 08:12</td>
<td>The Effect of Variable Tendon Loading on Load Transmission Through the Wrist Joint</td>
<td>Martine McGregor, ON; Ahaoiza Diana Isa, NB; G. Daniel Langohr, ON; Nina Suh, ON; Graham J.W. King, ON; James A. Johnson, ON</td>
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<td>4 - 08:30</td>
<td>Hypermineralization in the Elderly Hips: Why It might Increase the Fracture Risk?</td>
<td>Rizhi Wang, BC; Tengteng Tang, BC; Peter Fratzl, Germany; Wolfgang Wagermaier, Germany; Roman Schuetz, Germany</td>
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<td>5 - 08:36</td>
<td>Development of a Validated Glenoid Trabecular Density-modulus Relationship</td>
<td>G. Daniel Langohr, ON; Nikolas Knowles, ON; Mohammadreza Faieghi, ON; Andrew Nelson, ON; Louis Ferreira, ON</td>
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<td>6 - 08:42</td>
<td>Effect of Nifedipine and Ketotifen on Joint Capsule Cell Based Collagen Gel Contraction</td>
<td>Kevin Hildebrand, AB; Paul T. Salo, AB; Prism Schneider, AB; David Hart, AB; Mei Zhang, AB</td>
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<td>7 - 08:48</td>
<td>The Surgical Treatment of Acute PJI: Antiseptics, Antibiotics or Both? A Comparative <em>in vitro</em> Study of Implant Surface Treatments to Eradicate MRSA and MSSA Biofilms</td>
<td>Mariam Taha, ON; Hesham Abdelbary, ON; Alberto Carli, ON</td>
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Discussion 08:18

Discussion 08:54

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Thursday
16 - 09:51
The Pharmacokinetic Studies of F-18 NaF and F-18 FDG for the Evaluation of Disease Activity in Patients with Ankylosing Spondylitis
Taesik Goh, South Korea; Won Chul Shin, South Korea; Jong Ki Shin, South Korea; Nam Hoon Moon, South Korea; Jung Sub Lee, South Korea; Jeung Il Kim, South Korea; Kuen Tak Suh, South Korea

17 - 09:57
A Novel Approach to Treatment of Bone Metastasis Secondary to Prostate Cancer Using Zoledronate Impregnated Nanobeads
Elie Akoury, QC; Michael Weber, QC; Bardia Barimani, QC; Pouyan Ahangar, QC; Karl-Philippe Guerard, QC; Jacques Lapointe, QC; Lisbet Haglund, QC; Derek Rosenzweig, QC

Discussion 10:03

18 - 10:15
Comparing the Accuracy of Logistic Regression and Artificial Intelligence Models to Predict Ambulatory Outcomes After Traumatic Spinal Cord Injury in AIS B and C: A Prospective Study from a Canadian Multi-centre Spinal Cord Injury Registry
Brandon Budhram, ON; Tova Plashkes, BC; Eugene Wai, ON; Travis Marion, ON; Darren Roffey, ON; Qiong Zhang, BC; Jérôme Paquet, QC; Carly Rivers, BC; Nader Fallah, BC; Vanessa Noonan, BC; Eve Tsai, ON; Philippe Tran Nhut Phan, ON

19 - 10:21
Use of the Spine Adverse Events Severity System (SAVES) in Patients Undergoing Spine Surgery Not Related to Trauma: A Comparison with NSQIP for the Identification of Acute Care Adverse Events
Jennifer Nevin, BC; Étienne Bourassa-Moreau, QC; John Street, BC

Discussion 10:27

9:15-10:45 COA Paper Session: Trauma 1 • Crystal Ballroom, Empress
Moderators: Abdel-Rahman Lawendy, ON; Stephen Hunt, AB

20 - 09:15
Delayed Hip Fracture Surgery Past 24 Hours Increases Complications: An Empirically-derived Time-to-surgery Threshold
Daniel Pincus, ON; Bheeshma Ravi, ON; David Wasserstein, ON; Anjie Huang, ON; Michael Paterson, ON; Richard Jenkinson, ON; Hans J. Kreder, ON; Avery Nathens, ON; Walter Wodchis, ON

21 - 09:21
The Longitudinal Short, Medium, and Long-term Functional Recovery after Unstable Pelvic Ring Injuries
Michael Neufeld, BC; Kelly Lefaivre, BC; Peter J. O'Brien, BC; Pierre Guy, BC; Abdullah Mamun, BC; Henry Broekhuysen, BC

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22 - 09:27
Incidence and Outcome of Orthopaedic and Non-orthopaedic Sequelae After Operative Fixation of Major Pelvic Ring Fractures
Khaled Alabbasi, AB; Ross Leighton, NS; Ahmed Al-Hussain, NS; Islam Elnagar, NS; Amro Alhoukail, NS

23 - 09:33
Increased Mortality with Delayed Surgery for Medically Fit Hip Fracture Patients
Pierre Guy, BC; Katie Sheehan, United Kingdom; Boris Sobolev, BC

24 - 09:51
Acute Total Hip Reconstruction Following Displaced Acetabular Fractures in the Elderly
Ross Leighton, NS; Paul Duffy, AB

25 - 09:57
Pelvic Packing versus Angioembolization for Unstable Pelvic Fractures: A Systematic Review
Saif Aldhuhoori, AB; Sanja Schreiber, AB; Robert Petretta, BC; Matthew Menon, AB

26 - 10:03
Femoral Neck Shortening After Hip Fracture Fixation is Associated with Worse Hip Function
Nathan O’Hara, MD; Jessica Felton, MD; Gerard Slobogean, MD; Sarah Jackson, MD; Gregory Della Rocca, NC; Susan Liew, Australia; Robert Haverlag, Netherlands; Kyle Jeray, SC; Sheila Sprague, ON; Mohit Bhandari, ON; Marc Swiontkowski, MN; FAITH Investigators, ON

27 - 10:18
Factors Associated with Revision Surgery Following Internal Fixation of Hip Fractures
Emil H. Schemitsch, ON; Sofia Bzovsky, ON; Sheila Sprague, ON; Marc Swiontkowski, MN; Gregory Della Rocca, NC; Kyle Jeray, SC; Susan Liew, Australia; Gerard Slobogean, MD; Diane Heels-Ansdell, ON; Qi Zhou, ON; Mohit Bhandari, ON; FAITH Investigators, ON

28 - 10:24
Mapping of the Stable Articular Surface in Geriatric Acetabulum Fractures
Adrian Huang, ON; Meir Marmor, CA; Reza Firoozabadi, WA

29 - 10:30
Fixation Alternatives for Low-energy Femoral Neck Fractures: A Meta-analysis
Herman Johal, ON; Marc Swiontkowski, MN; P.J. Devereaux, ON; Mark Phillips, ON; Nathan Evaniew, ON; Paul Tornetta, MA; Emil H. Schemitsch, ON; Richard E. Buckley, AB; Mohit Bhandari, ON
Thursday
Discussion 10:36

9:15-10:45 Upper Extremity / Sports ICL: What Should We Do with the Cuff? • Saanich
Moderators: Peter Lapner, ON; Ivan Wong, NS

Objectives:
By the end of this session, attendees will be better able to:
1. Describe the treatment options for rotator cuff tears.
2. Educate patients on outcomes of different treatments for rotator cuff tears.
3. Determine the best treatment option for their patients with rotator cuff tears.

Speakers:
• Natural History and Nonoperative Treatment of Rotator Cuff Tears - Brendan Sheehan, NB
• Open/Mini-Open Treatment and Outcomes - Bill Risteveski, ON
• Arthroscopic Repair Options and Outcomes - Patrick Chin, BC
• Biological Augments and Outcomes - Robert Litchfield, ON
• Bridging and SCR Options and Outcomes - Ian Lo, AB

9:15-10:45 SunLife ICL: Tax Trauma (Strategies for tax management under the new tax regime) • Colwood
Moderator: Adam O'Neill, ON

Strategies to minimize tax in a new punitive environment for medical corporations.

Objectives:
A discussion of what has changed in the tax laws and how this affects your personal and professional financial and tax planning, along with a more in-depth discussion of the remaining tax strategies available to Canadian orthopaedic surgeons, their corporations, and their families.

Speakers:
• Adam O'Neill BSc, MBA, CHS, CLU
Financial Advisor, President COAplan
• Mark LeClaire CFP, CIM
Director, Estate and Financial Planning Services for Sun Life Financial

10:25-11:15 CORA Board Meeting • Langford

10:45-11:15 Break in Exhibits • Carson Hall

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Thursday

10:45-11:15 Showcase Theatre Poster Tour: Sports/Arthroscopy
Moderators: Laurie A. Hiemstra, AB; Olufemi Ayeni, ON

11:15-12:45 CORS Symposium and Ian Macnab Lecture • Lecture Theatre
Biomarkers in Orthopaedics: The Next Revolution
Moderator: Paul E. Beaulé, ON

Objectives:
1. Provide an understanding on the development and validation of a biomarker.
2. Review current application of biomarkers in arthritis, joint replacement, spine and oncology.
3. Define how to best integrate biomarkers into clinical practice.

Speakers:
- Ian Macnab Lecture: Principles and Development of Biomarkers for the Musculoskeletal System - David Hunter, Australia
- Total Joint Arthroplasty: Osteolysis/Infection - Hesham Abdelbary, ON
- Advanced Cartilage Imaging for Osteoarthritis - David R. Wilson, BC
- Degenerative Disc Disease - Fackson Mwale, QC

11:15-12:15 COA Paper Session: Critical Issues • Esquimalt
Moderators: Markku Nousiainen, ON; Peter Lapner, ON

30 - 11:15
Impact of Operative Overlap on Complications Following Hip Surgery
Bheeshma Ravi, ON; Daniel Pincus, ON; David Wasserstein, ON; Richard Jenkinson, ON; Patrick Henry, ON; Hans J. Kreder, ON

31 - 11:21
Extended Venous Thromboembolism Prophylaxis Comparing Rivaroxaban to Aspirin Following Total Hip and Knee Arthroplasty (EPCAT II)
Pascal-André Vendittoli, QC; Sara Whynot, NS; David Anderson, NS; Michael J. Dunbar, NS; Susan Kahn, QC; Susan Pleasance, NS; David J. Zukor, QC; John J. Murnaghan, ON; Peter Gross, ON; Michael G. Forsythe, NB; Stéphane Pelet, QC; William Fisher, QC; Étienne Belzile, QC; Sean Dolan, NB; Mark Crowther, ON; Eric Bohm, MB; Steven MacDonald, ON; Wade Goatson, ON; Paul R. Kim, ON; Pantelis Andreou, NS; Chris Theriault, NS; Abongwen Abianui, ON; Marc Carrier, ON; Douglas Coyle, ON; Michael Kovacs, ON; Rodger Marc, ON; Philip Wells, ON; Steve Doucette, NS

32 - 11:27
The Impact of Common Urologic Complications on the Risk of a Prosthetic Joint Infection
Brent Lanting, ON; Nahid Punjani, ON; Andrew McClure, ON; Blayne Welk, ON

Discussion 11:33

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Thursday

33 - 11:45
Raja Y. Rampersaud, ON; Kala Sundararajan, ON; Anthony Perruccio, ON; Rajiv Gandhi, ON; J. Rod Davey, ON; Khalid Syed, ON; Christian Veillette, ON; Nizar N. Mahomed, ON

34 - 11:51
Can Paediatric Tourniquet Practice and Guidelines be Improved Using Personalized Pressures?
Lise Leveille, BC; Jeswin Jeyasurya, BC; James McEwen, BC

35 - 11:57
Raja Y. Rampersaud, ON; Christian Veillette, ON; Kala Sundararajan, ON; Anthony Perruccio, ON; Rajiv Gandhi, ON; Diana Adams, ON; Natasha Briggs, ON; J. Rod Davey, ON; Michael Fehlings, ON; Stephen J. Lewis, ON; Rosalie Magtoto, ON; Eric Massicotte, ON; Angela Sarro, ON; Khalid Syed, ON; Nizar N. Mahomed, ON

Discussion 12:03

11:15-12:45 Resident ICL: The Future of Orthopaedics in Canadian Health Care • Saanich
Moderators: Andrew Adamczyk, ON; Marcia Clark, AB

Objectives:
1. Appraise the possible challenges as a new surgeon transition from residency/fellowship to practice.
2. Discuss associated evolution/adaptation required to set up one’s practice.
3. Review the different practice landscapes (community versus academics) and what this may mean for their future practice goals.
4. Explain performance metrics and how they will impact a surgeon’s practice.
5. Discuss the role and impact of administration on your practice.
6. Consider how one can become involved and impact change in the orthopaedic community.

Topics:
- Getting the Call from the Big Leagues - Alexandra Brooks-Hill, BC
- Performance Matters - Kevin Hildebrand, AB
- Impacting Change - Alastair S.E. Younger, BC

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12:45-13:45 McMaster Sports Medicine Research Drop-in Meeting
• Langford

12:45-13:45 Lunch in Exhibits • Carson Hall

12:45-14:00 Lunch & Learn Series: Education Through Exchange: Expert Presentations by the Visiting ABC Fellows • Showcase Theatre, Carson Hall
Moderator: Kelly Lefaivre, BC; Eric Bohm, MB; John Grant, MI

Speakers:
- The COA’s 2017 ABC Fellows Share their Fellowship Experience
  – Wade Gofton, ON; David Sheps, AB

Presentations by the 2018 Visiting ABC Fellows:
- Using Data from the National Joint Registry for England, Wales and Northern Ireland (NJR) for Research: Pearls and Pitfalls from an NJR Researcher - Paul Baker, United Kingdom
- Knee Dislocation in Cape Town - Young Guns versus Old Farts - Michael Held, South Africa
- Osseointegration - Early Results in Combat Casualties - Arul Ramasamy, United Kingdom
- Re-injury Prevention Following ACL Reconstruction: Outcomes Following Introduction of a Functional Return to Play Test - Michael Rosenfeldt, New Zealand
- Scottish Arthroplasty Project: Using Data to Drive Safety and Quality Improvement - Phil Walmsley, United Kingdom
- Nonmodular Tapered Fluted Titanium Stems Osseointegrate Reliably at Short Term in Revision THAs - Nemandra Sandiford, United Kingdom

12:45-14:00 CORS Business Meeting: SWOT Session and Election
• Oak Bay
Thursday

13:45-15:15 COA Symposium: Acute Pain Management in Orthopaedics - Reducing the Role of Opioids • Lecture Theatre
Moderators: Jeff Gollish, ON; Ted Tufescu, MB

Speakers:
The Opioid Crisis: The BC Perspective - Bonnie Henry, BC Provincial Health Deptartment
Objective:
1. The goal of this talk is to outline the severity of the opioid problem in the province of BC and Canada; the direction the BC government is taking; and any practical recommendations for physicians.

Patterns of Opioid Prescription in Ontario: Lessons for Physicians
Managing OA - Bheeshma Ravi, ON
Objectives:
2. Impact of arthroplasty on subsequent opioid use.
3. Impact of chronic opioid use on post-operative outcomes.

Opioid use in Orthopaedics: Efficacy and Advocacy - Raja Rampersaud, ON
Objectives:
1. Efficacy of opioids in low back pain and OA.
2. Opioids in spine surgery: Predictors of use and impact on outcomes.
3. Orthopaedic stewardship for opioid prescribing and education.

Alternatives to Opioids: The State of Evidence on Prescribing Cannabis - Herman Johal, ON
Objectives:
1. Evidence for cannabis and orthopaedics.
2. The current status of patient use and perceptions.
3. Gaps in knowledge as we move forward in a country where recreational use will soon be legal.

COA Opioid Position Statement - Jeff Gollish, ON

13:45-15:15 COA Paper Session: Education • Esquimalt
Moderator: Glen Richardson, NS

36 - 13:45
A Poster Summarizing the AAOS Knee Osteoarthritis Clinical Practice Guidelines is a Powerful Tool for Patient Education: A Randomized Controlled Trial
Monique Squiers, MI; Michael Blankstein, VT; Nathaniel Nelms, VT; David Lisle, VT; James Slauterbeck, VT; David Halsey, VT; Claude Nichols, VT; Alan Davis, MI

All sessions are held in the Victoria Convention Centre unless otherwise indicated
Thursday

37 - 13:51
Predatory Publishing in Orthopaedic Research
James Yan, ON; Michelle Ghert, ON; Louis-Philippe Baisi, ON; Johnathan Lex, United Kingdom; Hassan Baldawi, ON; Gabriel Simchovich, ON; Anthony Bozzo, ON

38 - 13:57
Can Surgeons Accurately Identify Patient Coping Style After Routine Clinical Consultation?
Marlis Sabo, AB; Mili Roy, AB
Discussion 14:03

39 - 14:12
Evaluation of a Smoking Cessation Process as a Perioperative Standard of Care in a Centralized Total Hip and Knee Arthroplasty Clinic Model
Christopher DeSutter, AB; Barry Finegan, AB; Edward C.O. Masson, AB; Robert Stiegelmar, AB; Lauren Beaupre, AB; Fadi Hammal, AB; Daniella San Martin - Feeney, AB

40 - 14:18
Trust Decline and Trust Repair Within the Context of Postgraduate Surgical Training: A Phenomenographic Analysis of the Supervisor-Trainee Relationship
Kevin Rasuli, ON

41 - 14:24
The Effect of Multimorbidity on Change in Health-related Quality of Life Following Hip and Knee Arthroplasty
Eric Bohm, MB; Lisa Zhang, MB; Lisa Lix, MB; Olawale Ayilara, MB; Richard Sawatzky, BC
Discussion 14:30

42 - 14:39
Perioperative Family Updates Reduce Anxiety and Improve Satisfaction: A Randomized Controlled Trial
Lindsay Howe, VT; Daniel Wigmore, VT; Nathaniel Nelms, VT; Patrick Schottel, VT; Craig Bartlett, VT; David Halsey, VT; Martin Krag, VT; David Lunardini, VT; Robert Monsey, VT; Bruce Beynnon, VT; Michael Blankstein, VT

43 - 14:45
How Do Orthopaedic Patients Store and Dispose of Prescription Opioid Medication? Results from a Needs Assessment Survey
Raja Y. Rampersaud, ON; Kala Sundararajan, ON; Angela Sarro, ON

44 - 14:51
Quantified Surgical Training by Simulation for Ankle Fracture Care: The Benefit of the Proficiency-based Progression Approach
Pierre Guy, BC
Discussion 14:57
### Thursday

<table>
<thead>
<tr>
<th>Time</th>
<th>Session Title</th>
<th>Speakers</th>
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</thead>
<tbody>
<tr>
<td>14:00</td>
<td>CORS Paper Session: Arthroplasty • Oak Bay</td>
<td>Moderators: Bas A. Masri, BC, Mario Lamontagne, ON</td>
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<tr>
<td>45 - 14:00</td>
<td>Glenoid Component Fixation in Total Shoulder Arthroplasty</td>
<td>G. Daniel Langohr, ON; Louis Ferreira, ON; George Athwal, ON; Nikolas Knowles, ON</td>
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<td>46 - 14:06</td>
<td>Retrieval Analysis of Large-head Modular Metal-on-Metal Hip Replacements of a Single Design</td>
<td>Trevor Gascoyne, MB; Thomas Turgeon, MB; Colin Burnell, MB</td>
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<td>47 - 14:12</td>
<td>Ten-year Migration and Inducible Displacement of Cemented and Uncemented Tibial Components</td>
<td>Glen Richardson, NS; Elise Laende, NS; Michael J. Dunbar, NS</td>
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<td>Discussion 14:18</td>
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<td>48 - 14:30</td>
<td>A 3D Metal-printed Implant System for a Small Animal Model of Hip Hemiarthroplasty</td>
<td>Adam Paish, ON; Hristo Nikolov, ON; Tomasz Chmiel, ON; Alexander El Warrak, ON; Ian Welch, BC; Matthew Teeter, ON; Douglas Naudie, ON; David Holdsworth, ON</td>
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<td>49 - 14:36</td>
<td>Early in vivo Wear Measurement of Total Knee Replacements Using Radiostereometric Analysis</td>
<td>Thomas Turgeon, MB; Trevor Gascoyne, MB; Sara Parashin, MB; Eric Bohm, MB; Elise Laende, NS; Michael J. Dunbar, NS</td>
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<td>Discussion 02:42</td>
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<td>50 - 14:50</td>
<td>Prevalence of Non-responders to Total Joint Replacement in Osteoarthritis Patients and the Association with HGD Gene</td>
<td>Guangju Zhai, NL; Ming Liu, NL; Andrew Furey, NL; Yang Gao, NL; Proton Rahman, NL</td>
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<td>51 - 14:56</td>
<td>Patient Characteristics of Non-surgical and Surgical Candidates for Total Knee Replacement</td>
<td>Glen Richardson, NS; Sara Whynot, NS; Michael J. Dunbar, NS; Alex Fuentes, QC; Hilary Macdonald, NS; Matthew Kivell, NS</td>
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<td>Discussion 15:02</td>
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Thursday

15:30-16:20 COA/CORS Keynote Speakers • Lecture Theatre

- **RI Harris Lecture**: Health-Care Reform USA: The Promise and the Reality - Stuart Weinstein, US
- **Founders’ Research Update**: A Simplified Clinical Prediction Rule for Prognosticating Independent Walking after Spinal Cord Injury: A Prospective Study from a Canadian Multi-centre Spinal Cord Injury Registry - Philippe Tran Nhut Phan, ON
- **J. Edouard Samson Award Winner**: A Prospective, International Hip Dysplasia Registry with Follow-up to Skeletal Maturity: An Analysis of Risk Factors, Screening Practices and Treatment Outcomes - Kishore Mulpuri, BC
- **COAGS Norman Bethune Orthopaedic Travel Scholarship Update**: C. Vaughan A. Bowen, AB

16:30-17:30 Your COA in Review (formerly COA Business Meeting)
• Saanich

17:30-19:00 Poster Pub • Carson Hall

**Showcase Theatre Poster Tours (during the Poster Pub):**
17:45-18:15 Spine Moderated by Albert Yee, ON
18:30-19:00 Trauma Moderated by Abdel-Rahman Lawendy, ON

18:30-22:00 Past Presidents’ Dinner (by invitation) • Crystal Ballroom, Empress

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Thursday

Notes & Ideas

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