

**SUNDAY, JULY 5**

0630-0800 Instructional Course Lectures

0630-0800 **ICL 7: Hip, Femur and Knee Trauma – Case-based** ● Rainbow Theatre  
Moderator David J.G. Stephen, ON

Objectives: This will be an interactive session with ample time for participant involvement. Participants will gain an understanding of the management of traumatic injuries of the hip, femur, and knee through case based presentations, with a focus on:

1. Treatment techniques
2. Current controversies

Audience participation is encouraged to enhance the learning experience.

**Hip/Femur: Complex Peritrochanteric Femur Fracture With Involvement of the Piriformis Fossa, Lesser and Greater Trochanter, and Subtrochanteric Extension in a 45 Year-old**

**Why and How I Use a Plate**

Roderick D. Martin, NL

**Why and How I Use an IMN**

Emil H. Schemitsch, ON

**Knee: Biconylar Tibial Plateau (Lateral Split – Depression; Medial: Posteromedial Fragment) in a 45 Year-old**

**Why and How I Use Two Incisions and Two Nonlocking Plates**

Peter J. O'Brien, BC

**Why/ How I Use Only a Lateral Incision and One Lateral Peritarticular Locking Plate**

David W. Sanders, ON

0630-0800 **ICL 8: Knee Arthroplasty** ● Harmony A/B

Moderators Eric Bohm, MB, and Michael Dunbar, NS

**Objectives:**

1. Improve your knowledge about the factors that impact patient satisfaction following TKA.
2. Understand the role that HTO can play in the management of knee arthritis.
3. Have an understanding of the pros and cons of new TKA technologies.
4. Gain some technical insights into performing a difficult TKA.

**Why Aren't All of Our TKA Patients Happy?**

Robert B. Bourne, ON

**Should We Revisit HTOS?**

Geoffrey Dervin, ON

**Which Technologies Should I Adopt Into My Practice?**

Thomas Turgeon, MB

**Common TKA Challenges & How I Deal With Them**

Jason R. Werle, AB

**Panel Case/Topic Discussions**

Eric Bohm, MB

Acknowledgement is given for the unrestricted educational grant from DePuy Canada, Johnson & Johnson Medical Products, a Division of Johnson & Johnson Inc. to help make the session above possible.

0630-0800 **ICL 9: The ACL Injured Patient: Controversies and Dilemmas**

● Fitzsimmons

Moderator Robert G. McCormack, BC

**Objectives:**

- At the end of this session, the participant will be able to:
1. Assess the role of double bundle ACL reconstructions.
  2. Formulate a treatment plan for combined ACL and collateral ligament injuries.
  3. Determine the ideal graft choice for specific ACL injured patients.
  4. Design a treatment plan for the ACL injured patient that is skeletally immature.

**Panel:**

J. Robert Griffin

Peter B. Macdonald

Nicholas G.H. Mohrati

David Otto

0630-0800 **ICL 10: Cuff Arthropathy/ Reverse Shoulder Prosthesis** ● Garibaldi A

Moderators Richard M. Holtby, ON, Darren S. Drosdoweck, ON and Louis U. Bigliani, NY, President of the American Orthopaedic Association

Objectives: At the end of this course the attendee will be able to advise patients if a reverse prosthesis is the best option, describe the limitations and potential uses of a reverse prosthesis in fracture and revision situations and describe the potential complications of reverse prosthesis arthroplasty.

**Case topics:**

"Standard" indications for Reverse prosthesis.

Should you always use a reverse prosthesis in arthritis with a cuff tear?

The use of Reverse prosthesis in fractures.

Reverse prosthesis in revision and bone loss cases.

**0630-0800 ICL 11: When to Fuse the Degenerative Lumbar Spine**

● Spearhead A/B  
Moderator John Street, BC

**Degenerative Scoliosis**

Christopher Bailey, ON

**Objectives:**

1. Evidence-based decision-making: fusion of the degenerative scoliotic curve versus addressing focal pathology within the curve in isolation.
2. The dilemma of the lumbosacral junction - to fuse or not to fuse?

**Spinal Stenosis**

Stephen Kingwell, BC

**Objectives:**

1. Recognize the potential indications for spinal fusion in addition to decompression in the setting of lumbar spinal stenosis.
2. Review the options available to achieve spinal fusion in the setting of lumbar spinal stenosis.

**Degenerative Spondylolisthesis**

Scott Paquette, BC

**Objectives:**

1. Evidence-based decision-making: To fuse or not to fuse, when is it necessary?
2. Review the options available to achieve spinal fusion in the setting of lumbar degenerative spondylolisthesis.

**0630-0800 ICL12: Elbow Contractures: Avoidance and Treatment**

● Wedgemount A/B

Moderator Graham J.W. King, ON

**Prevention of Elbow Stiffness**

Kevin Hildebrand, AB

**Arthroscopic Treatment of Elbow Contractures**

Kenneth J. Faber, ON

**Open Management of Elbow Stiffness**

Thomas J. Goetz, BC

**Heterotopic Ossification of the Elbow**

Graham J.W. King, ON

**Objectives:**

1. Participants will learn strategies to avoid the development of stiff elbows following injuries that they can apply in their practice.
2. Participants will understand the risks and benefits of open versus arthroscopic surgery for management of the stiff elbow.
3. Participants will be provided an algorithm to approach the management of heterotopic ossification of the elbow.

0730-0930

**CORA Career Development Symposium**

● Garibaldi B

The Career Development Symposium (CDS) is a new addition to the CORA Annual Meeting. This two-hour session will feature presentations on important issues that are likely to arise for residents preparing to finish their training and start their careers.

**Selecting a Fellowship**

R. Cole Beavis, SK, Michael Gilbert, ON

**Preparing for the Royal College Exam**

Jeffrey Pike, ON

**Starting a Community Practice**

Timothy Kostamo, BC, Derek Plausinis, BC

**Starting an Academic Practice**

Eric Bohm, MB, Carmen Brauer, AB

**The Financial Side of Practice**

K. Kellie Leitch, ON

**Final Questions**

0815-0915

**Symposium 5: What You Need to Know About Osteoporosis and Fall**

● Sea to Sky Ballroom A

Moderator Pierre Guy, BC

**Objectives:** At the end of this session, participants will be able to:

1. Discuss the value of population and individual screening for osteoporosis using DXA.
2. Identify the strongest single risk factor for fractures among elderly people.
3. Recognize the effectiveness of Bisphosphonates (number of patients needed to screen and treat) in preventing hip fractures.

**Panel:**

Teppo Jarvinen, Finland

Pierre Guy, BC

0915-1000 **President Elect Address and Transfer of Office**  
 ● Sea to Sky Ballroom A

1000-1020 **Macnab Lecturer**, Dr. Louis U. Bigliani, NY, American Orthopaedic Association President: Shoulder Arthroplasty  
 ● Sea to Sky Ballroom A

1020-1030 **British Experience With a National Joint Registry**: Clare Marx, British Orthopaedic Association President ● Sea to Sky Ballroom A

1030-1100 Break

1100-1230 **COA Paper Session 10: Knee Reconstruction 1**  
 ● Sea to Sky Ballroom A  
 Moderators Eric Bohm, MB, and Michael Dunbar, NS

87 – 1100 **Patient Satisfaction After TKR: Who is Happy and Who is Not?**

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

88 – 1106 **Joint Perception After Hip or Knee Replacement Surgery**

Pascal-André Verdittoli, Maisonneuve-Rosemont Hospital; **Melissa Collins**, Maisonneuve-Rosemont Hospital; Muthu Ganapathi, Maisonneuve-Rosemont Hospital; Martin Lavigne, Maisonneuve-Rosemont Hospital

89 – 1112

**Total Knee Arthroplasty: Does a Difference Between Genders Exist?**

**Camilo Restrepo**, Rothman Institute; Javad Parvizi, Rothman Institute; Peter F. Sharkey, Rothman Institute; Aidin Eslam Pour, Rothman Institute; Craig T. Haytranek, Rothman Institute; Nathan Roberts, Rothman Institute; Richard H. Rothman, Rothman Institute

1118 Discussion

90 – 1127

**The Relationship Between Body Habitus and Leptin in a Knee Osteoarthritis Population**

**Rajiv Gandhi**, University of Toronto; Mark Takahashi, University of Toronto; Khalid Syed, University of Toronto; J Roderick Davey, University of Toronto; Nizar N. Mahomed, University of Toronto

91 – 1133

**BMI Specific Total Knee Replacement Outcomes: An Analysis Using Prospectively Collected Clinical Patient Data**

**Steven J.M. MacDonald**, University Hospital, University of Western Ontario; Kory D. Charron, University Hospital, University of Western Ontario; Douglas Naudie, University Hospital, University of Western Ontario; Richard W. McCalden, University Hospital, University of Western Ontario; Robert B. Bourne, University Hospital, University of Western Ontario; Cecil H. Rorabeck, University Hospital, University of Western Ontario

92 – 1139

**Cardiovascular Disease is a Contraindication to Bilateral TKA Under a Single Anesthetic**

**David Backstein**, University of Toronto; Christopher Peskun, University of Toronto; Ian Mayne, University of Toronto; Harsha Malempati, University of Toronto; Yona Kosashvili, University of Toronto; Allan E. Gross, University of Toronto

1145 Discussion

93 – 1154

**Reducing Total Hip and Knee Surgical Wait Times: A Model that Works**

**Linda J. Woodhouse**, McMaster University, Hamilton Health Sciences, Holland Orthopaedic and Arthritic Centre of Sunnyside Health Sciences Centre; Danielle Petruccioli, Hamilton Health Sciences; Joanne Wright, Hamilton Health Sciences; Wade Elliott, Hamilton Health Sciences; Nancy Toffolo, Hamilton Health Sciences; Stephen Patton, Hamilton Health Sciences; Sampa Samanta, Hamilton Health Sciences; Arlene Sardo, Hamilton Health Sciences; Donna MacMillan, Hamilton Health Sciences; Gail Johnson, Hamilton Health Sciences; Christine Anderson, Hamilton Health Sciences; William Evans, Juravinski Cancer Centre, Hamilton Health Sciences

94 – 1200

**Medial Opening Wedge HTQ, Medial UKA, or TKA for the Treatment of Antero-medial Knee Osteoarthritis: A Prospective Cohort to Evaluate Joint Kinematics and Health Related Quality of Life**

**Douglas Naudie**, London Health Sciences Centre, University Hospital; Dianne Bryant, Fowler Kennedy Sports Medicine Centre; Trevor Birmingham, Fowler Kennedy Sports Medicine Centre; Ian Jones, Fowler Kennedy Sports Medicine Centre; J. Robert Giffin, Fowler Kennedy Sports Medicine Centre

95 – 1206

**Outpatient Unicompartmental Knee Arthroplasty with Femoral Nerve Block**

**Geoffrey Dervin**, University of Ottawa; Holly Evans, University of Ottawa; Susan Madden, University of Ottawa; Peter R. Thurston, University of Ottawa

**96 – 1212**  
**Minimal Incision Surgery as a Risk Factor for Early Failure of Total Knee Arthroplasty**  
 Robert L. Barrack, Washington University Department of Orthopaedic Surgery; **R. Stephen J. Burnett**, Division of Orthopaedic Surgery; Victoria; C. Lowry Barnes, University of Arkansas Department of Orthopaedic Surgery; Derk Miller, Washington University Department of Orthopaedic Surgery; John C. Clohisey, Washington University Department of Orthopaedic Surgery; William J. Maloney, Stanford University Department of Orthopaedic Surgery

1218 Discussion

1100-1230 **COA Paper Session 11: Trauma Lower Extremity 2**

• Rainbow Theatre

Moderators Stéphane Leduc, AB, and Richard E. Buckley, AB

**97 – 1100**

**Minimally Invasive Treatment of Unstable Pelvic Ring Injuries with an Internal Anterior Fixator (INFIX) and Posterior Iliosacral Screws**

**Rahul Vaidya**, Detroit Receiving Hospital; Frederick Tonnos, Detroit Receiving Hospital; Robert Colen, Detroit Receiving Hospital; Anil Sethi, Detroit Receiving Hospital

**98 – 1106**

**Early Experience with Reduction of Displaced Pelvic Ring Disruptions Using a Pelvic Reduction Frame**

**Kelly Lefavre**, UBC; Adam J. Starr, UTSW; Brady P. Barker, UTSW; Stephen J. Overdorf, UTSW; Charles M. Reinert, UTSW

**99 – 1112**

**What Constitutes a Young and Burgess Lateral Compression-1 (OTA61-B2, Pelvic Ring Disruption)? A Description of CT Based Fracture Anatomy and Associated Injuries**

**Kelly Lefavre**, UBC; Jeffrey R. Padalecki, UTSW; Adam J. Starr, UTSW

1118 Discussion

**100 – 1127**

**Effect of Delay to Surgery on Functional Outcomes for Displaced Acetabular Fractures**

**Richard Jenkinson**, University of Toronto; Marcella A. Maathuis, University of Toronto; Bill Ristevski, University of Toronto; Dan Omoto, University of Toronto; David J.G. Stephen, University of Toronto; Hans J. Kreder, University of Toronto

**101 – 1133**

**The Value of Postoperative Computer Tomographic Imaging in Acetabular Fractures**

**Gillian Bayley**, University of Ottawa; Wade Goffon, University of Ottawa; Allan Liew, University of Ottawa; Steven Papp, University of Ottawa

**102 – 1139**

**The Effect of Femoral Neck Cut, Cable Tension and Muscle Forces on the Stability of Greater Trochanter Reattachment**

**Kajsa Duke**, École de Technologie Supérieure; G. Yves Laflamme, Hôpital du Sacré-Coeur de Montréal; Yvan Petit, École de Technologie Supérieure

1145 Discussion

**103 – 1154**

**Prognostic Baseline Factors for Predicting Re-operations in Patients with Tibial Shaft Fractures**

Sprint Investigators, McMaster University; **Emil H. Schemitsch**, St. Michael's Hospital / University of Toronto

**104 – 1200**

**Revision of Provisional Stabilization in Pilon Fractures Referred from Outside Institutions**

**David Barel**, Harborview Medical Centre; Michael Gardner, Harborview Medical Centre; Sean Nork, Harborview Medical Centre; Stephen Benirschke, Harborview Medical Centre

**105 – 1206**

**ORIF of High-energy Pilon Fractures: Violating the 7-cm Skin Bridge Rule**

**Geoffrey Wilkin**, Queen's University; Steven Papp, University of Ottawa; Wade Goffon, University of Ottawa; Allan Liew, University of Ottawa

**106 – 1212**

**A Clinically Relevant Classification of Posterior Malleolus Fractures to Guide Imaging and Treatment**

**Jeffrey M. Potter**, Queens University; Lise Levelle, UBC; Pierre Guy, UBC

1218 Discussion

1100-1230

**COA Paper Session 12: Oncology** • Garibaldi B

Moderators Joel M. Werier, ON, and Paul Clarkson, BC

**107 – 1100**

**Core Needle Biopsy is Highly Accurate in Diagnosing Bone and Soft-tissue Tumours**

**Piya Katisewi**, Lerdsin General Hospital, Bangkok; Thailand; Torsten Nielsen, UBC; Malcolm Hayes, UBC; Peter L. Murk, UBC; Amy E. LaFrance, UBC; **Paul Clarkson**, UBC; Bas A. Masri, UBC

**108 – 1106**

**Gamma Probe Guided Surgery for Benign Bone Tumours: Surgical Results with Average Follow-up of 5 Years**

**Naninudappa S. Harshavardhana**, Queen's Medical Centre; Brian J.C. Freeman, Royal Adelaide Hospital; Alan C. Perkins, University of Nottingham; Ujjwal K. Debnath, Queen's Medical Centre

**109 – 1112****Local Recurrence of Soft Tissue Sarcoma Following Primary Tumour Management by****Musculoskeletal Oncology Teams**

**Sarantis Abatzoglou**, McGill University Health; **Abdurahman Adoubali**, Hôpital Maisonneuve-Rosemont; **Cindy Wong**, McGill University Health; **Marc Isler**, Hôpital Maisonneuve-Rosemont; **Robert E. Turcotte**, McGill University Health

## 1118 Discussion

**110 – 1127****Surgical Management of Recurrent Giant Cell Tumour of Long Bones. A Long-term Retrospective Study**

**Frank M. Kenke**, Mayo Clinic; **Doris E. Wenger**, Mayo Clinic; **Carrie Y. Inwards**, Mayo Clinic; **Franklin H. Sim**, Mayo Clinic

**111 – 1133****Functional Outcomes of Distal Radial Reconstruction with Vascularised versus Non-vascularised Tissue Transfer**

**Paul Clarkson**, UBC; **Kelly L. Sandford**, University of Aberdeen; **Amy E. LaFrance**, UBC; **Anthony Griffin**, Mount Sinai Hospital; **Jay S. Wunder**, Mount Sinai Hospital; **Bas A. Masri**, UBC; **Thomas J. Goetz**, UBC

**112 – 1139****Functional Implications of Fixed-hinge versus Rotating-hinge Knee Components for Total Femoral Endoprosthetic Replacement Following Oncologic Resections**

**Kevin B. Jones**, University of Utah; **Soha Riad**, Mount Sinai Hospital, Toronto; **Anthony Griffin**, Mount Sinai Hospital, Toronto; **Benjamin Dehesli**, Mount Sinai Hospital, Toronto; **Robert S. Bell**, University Health Network, Toronto; **Peter Ferguson**, Mount Sinai Hospital, Toronto; **Jay S. Wunder**, Mount Sinai Hospital, Toronto

## 1145 Discussion

**113 – 1154****Complete Femoral Nerve Resection with Soft Tissue Sarcoma: Functional Outcomes**

**Kevin B. Jones**, University of Utah; **Soha Riad**, Mount Sinai Hospital, Toronto; **Anthony Griffin**, Mount Sinai Hospital, Toronto; **Benjamin Dehesli**, Mount Sinai Hospital, Toronto; **Robert S. Bell**, University Health Network, Toronto; **Peter Ferguson**, Mount Sinai Hospital, Toronto; **Jay S. Wunder**, Mount Sinai Hospital, Toronto

**114 – 1200****Immediate Tissue Transfer May Be Superior to Primary Wound Closure in Internal Hemipelvectomy Procedures**

**Arvindera Ghag**, UBC; **Kyle Winter**, UBC; **Erin Brown**, UBC; **Amy E. LaFrance**, UBC; **Paul Clarkson**, UBC; **Bas A. Masri**, UBC

**115 – 1206****Single Dose Antibiotic Prophylaxis for Lower Limb Arthroplasty**

**Inder Gill**, Northumbria Healthcare NHS Trust, U.K.; **Alay Malviya**, Northumbria Healthcare NHS Trust, U.K.; **Scott Muller**, Northumbria Healthcare NHS Trust, U.K.; **Mike Reed**, Northumbria Healthcare NHS Trust, U.K.

## 1212 Discussion

## 1100-1230

**COA Paper Session 13: Sports Upper Extremity** Harmony A/B

**Moderators** **Ryan Bicknell**, ON, and **William D. Regan**, BC

**116 – 1100****Arthroscopic Treatment of Multidirectional Shoulder Instability in Athletes: A Retrospective Analysis of 2 to 5 year Clinical Outcomes**

**Randy Mascarenhas**, University of Manitoba; **Champ L. Baker**, Hughston Sports Medicine; **Alex J. Kline**, University of Pittsburgh; **Anikar Chhabra**, Canyon Orthopaedics; **Matthew Pombro**, University of Pittsburgh; **James P. Bradley**, University of Pittsburgh

**117 – 1106****Generalized Ligamentous Laxity as a Predisposing Factor for Primary Anterior Shoulder Dislocation**

**Jaskarnidip Chahal**, University of Toronto; **Tom McCarthy**, University of Toronto; **Jeff Leiter**, Pan Am Clinic, University of Manitoba; **Daniel B. Whelan**, St. Michael's Hospital, University of Toronto

**118 – 1112****Prospective Outcomes Following Arthroscopic Bankart Repair Using a Bioabsorbable Tack**

**David Sheps**, University of Alberta; **Fiona Styles-Tripp**, University of Alberta; **Kyle Kemp**, University of Alberta; **Scott Wiens**, University of Alberta; **Lauren Beaupré**, University of Alberta; **Robert A. Balyk**, University of Alberta

## 1118 Discussion

**119 – 1127****Does the Western Ontario Shoulder Instability (WOSI) Index Distinguish Between Operative and Non-operative Patients with Shoulder Instability: A Case-control Study**

**Nicholas G.H. Mottadi**, University of Calgary; **Jocelyn N. Fedine**, University of Calgary; **Heather N. Hannaford**, University of Calgary; **Denise S. Chan**, University of Calgary; **Terry M. Sasyniuk**, LifeMark Health

**120 – 1133****The Unstable Painful Shoulder (UPS): As a Cause of Pain from Unrecognized Instability in the Young Athlete**

**Ryan Bicknell**, Queen's University; **Chris Chouinard**, University of Nice; **Scott Penington**, University of Nice; **Frédéric Balg**, University of Nice; **Pascal Boileau**, University of Nice

**121 - 1139**  
**Increasing Simulated Hill Sachs Lesion Size Decreases Glenohumeral Stability**  
 Scott Kaar, St. Louis University; Stephen Fenig, Cleveland Clinic Foundation; **Morgan Jones**, Cleveland Clinic Foundation; Rob Colburn, Cleveland Clinic Foundation; Anthony Miniaci, Cleveland Clinic Foundation

1145 Discussion

**122 - 1154**  
**Load and Failure Behavior of 6 Arthroscopic Knots and 8 High Strength Sutures**  
**R. Cole Beavis**, University of Saskatchewan; F. Alan Barber, Plano Orthopedic and Sports Medicine Centre; Morley A. Herbert, Advanced Surgical Institutes

**123 - 1200**  
**Enhancing SLAP repairs with Fibrin-PRP Clots**

**Alan M. Hirahara**, Private Practice; Kyle Yamashiro, Results Physical Therapy; Russell Dunning, Results Physical Therapy

**124 - 1206**  
**Injury of the Suprascapular Nerve During Arthroscopic Repair of Superior Labral Tears: An Anatomic Study**  
**Holman Chan**, University of Alberta Hospital; Martin Bouliane, University of Alberta Hospital; Lauren Beaupré, University of Alberta Hospital

**125 - 1212**  
**Biomechanical Analysis of Osteochondral Autograft Insertion Pressures**

**R. Cole Beavis**, University of Saskatchewan; F. Alan Barber, Plano Orthopedic and Sports Medicine Centre; Morley A. Herbert, Advanced Surgical Institutes

1218 Discussion

**1100-1230** **COA Paper Session 14: Upper Extremity 2 and Critical Issues in Orthopaedics** ● Fitzsimmons  
 Moderators: Louis U. Bigliani, NY, President of the American Orthopaedic Association, and E. Anthony Rankin, DC, President of the American Academy of Orthopaedic Surgeons

**126 - 1100**  
**Effect of Coronal Shear Fractures of the Distal Humerus on Elbow Kinematics and Stability**  
**Marlis Sabo**, University of Western Ontario; Katherine Fay, University of Western Ontario; Louis M. Ferreira, University of Western Ontario; Colin P. McDonald, University of Western Ontario; James A. Johnson, University of Western Ontario; Graham J.W. King, University of Western Ontario

**127 - 1106**

**The Effect of the Posterior Bundle of the Medial Collateral Ligament on Elbow Stability**

**J Whitcomb Pollock**, The University of Ottawa; James R. Browhill, The University of Western Ontario; Louis Ferreira, The University of Western Ontario; Colin P. McDonald, The University of Western Ontario; James Johnson, The University of Western Ontario; Graham J.W. King, The University of Western Ontario

**128 - 1112**  
**Contribution of the Olecranon to Elbow Stability: An *In-vitro* Biomechanical Study**  
 Timothy H. Bell, UWO; **Graham J.W. King**, UWO; James A. Johnson, UWO; Louis M. Ferreira, UWO; Colin P. McDonald, UWO

1118 Discussion

**129 - 1127**  
**Proximal Ulnar Anatomy: Importance of the Dorsal Angulation \*PUDA\***  
 Dominique Rouleau, Hôpital Sacré-Coeur de Montréal; **George Athwal**, University of Western Ontario; Kenneth J. Faber, University of Western Ontario

**130 - 1133**  
**Long Term Outcome Following Elbow Resection Arthroplasty**  
**Peter Zarkadas**, Lions Gate Hospital; Ben Cass, Royal North Shore Hospital; Thomas Throckmorton, Mayo Clinic; Joaquin Sanchez-Sotelo, Mayo Clinic; Bernard F. Morrey, Mayo Clinic

**131 - 1139**  
**Clinical Characteristics of Spontaneous Osteonecrosis of the Knee, and Results of a Proposed Treatment Algorithm**  
**Myagon G. Duany**, Howard University; Michael G. Zywiak, Rubin Institute for Advanced Orthopaedics; Mike S. McGrath, Rubin Institute for Advanced Orthopaedics; Junaed A. Siddiqui, Rubin Institute for Advanced Orthopaedics; Lynne C. Jones, Johns Hopkins University; Michael A. Mont, Rubin Institute for Advanced Orthopaedics

1145 Discussion

**132 - 1154**  
**An Economic Analysis of Liquid Waste Disposal in the Operating Room: Flushing Money Down the Toilet**  
**Sean Haslam**, Queen's University; Daniel P. Borschneck, Queen's University

**133 - 1200**  
**Intra-operative Hip and Knee Arthroplasty Implant Waste: A Potential Target for Cost Containment Efforts**  
**Michael G. Zywiak**, Rubin Institute for Advanced Orthopaedics; Sif D. Ulrich, Rubin Institute for Advanced Orthopaedics; Arnold D. Suda, Heidelberg University; James L. Duncan, Stryker Orthopaedics; Mike S. McGrath, Rubin Institute for Advanced Orthopaedics; Michael A. Mont, Rubin Institute for Advanced Orthopaedics

**134 – 1206**  
**The 80 Hour Work Week: Impact on Resident Surgical Exposure and National In-Training Exam Scores**  
**John M. Froelich**, Southern Illinois University School of Medicine; Joseph C. Milbrandt, Southern Illinois University School of Medicine; D. Gordon Allan, Orthopaedic Centre of Illinois

**135 – 1212**  
**The Canadian Orthopaedic Medicolegal Climate: Global Warming or Isolated Cooling?**  
**Carol R. Hutchison**, University of Calgary; Claude Martin, Canadian Medical Protective Association

1218 Discussion

1100-1230 **COA Paper Session 15: Spine 1 ● Garibaldi A**  
 Moderators Eugene Wai, ON, and Brendan D. Lewis, NL

**136 – 1100**  
**Preoperative Predictors for Postoperative Clinical Outcome in Lumbar Discectomy**  
**Yangmin Zeng**, University of Ottawa, Faculty of Medicine; Travis Marion, University of Ottawa, Faculty of Medicine; Pamela Leece, University of Ottawa, Faculty of Medicine; Eugene Wai, University of Ottawa, Division of Orthopaedic Surgery

**137 – 1106**  
**Preoperative CT Imaging of the Cross-sectional Area of Perispinal Musculature as a Predictor of Posterior Lumbar Fusion Surgery Outcomes**  
**Travis E. Marlon**, University of Ottawa, Faculty of Medicine; Yangmin Zeng, University of Ottawa, Faculty of Medicine; Eugene Wai, University of Ottawa, Division of Orthopaedic Surgery

**138 – 1112**  
**Caudal Epidural Steroid Injections for Lumbo-Sacral Radicular Pain ... Does it Really Make a Difference?**  
**Girish N. Swamy**, Derbyshire Royal Infirmary; Zdenek Klezl, Derbyshire Royal Infirmary  
 1118 Discussion

**139 – 1127**  
**The Treatment of Lumbar Intermittent Neurogenic Claudication Using the XSto IPD Device: A Prospective Clinical and Functional Outcome Study**  
**Bernard E. Rerri**, Brantford General Hospital; Temilolu O. Opadele, McMaster University, Hamilton

140 – 1133

**Understanding Patient and Physician Preferences for Surgery on the Degenerative Lumbar Spine**

**S. Samuel Bederman**, Department of Orthopaedic Surgery, University of California, San Francisco; Nizar N. Mahomed, Division of Orthopaedic Surgery, University of Toronto; Hans J. Kreder, Division of Orthopaedic Surgery, University of Toronto; Warren J. McIsaac, Department of Family and Community Medicine, University of Toronto; Peter C. Coyte, Department of Health Policy Management and Evaluation, University of Toronto; James G. Wright, Division of Orthopaedic Surgery, University of Toronto

141 – 1139

**Subsidence of the Charite Total Disc Arthroplasty and Predisposing Factors**

Michael Katsimihias, Division of Orthopaedic Surgery, University of Western Ontario; Christopher Bailey, Division of Orthopaedic Surgery, University of Western Ontario; **Ashley Ignatjuk**, Division of Orthopaedic Surgery, University of Western Ontario; Patricia Rosas-Arellano, Division of Orthopaedic Surgery, University of Western Ontario; Stuart I. Bailey, Division of Orthopaedic Surgery, University of Western Ontario; Khaili Issa, Division of Orthopaedic Surgery, University of Western Ontario; Kevin R. Gurr, Division of Orthopaedic Surgery, University of Western Ontario

1145 Discussion

142 – 1154

**Prospective Clinical and Radiographic Results of the Charite Total Disc Replacement: Average 5 Year Follow-up**

**Michael Katsimihias**, Division of Orthopaedic Surgery, University of Western Ontario; Christopher Bailey, Division of Orthopaedic Surgery, University of Western Ontario; Khaili Issa, Division of Orthopaedic Surgery, University of Western Ontario; Stuart I. Bailey, Division of Orthopaedic Surgery, University of Western Ontario; Jennifer Fleming, Division of Orthopaedic Surgery, University of Western Ontario; Patricia Rosas-Arellano, Division of Orthopaedic Surgery, University of Western Ontario; Kevin R. Gurr, Division of Orthopaedic Surgery, University of Western Ontario

143 – 1200

**Prospective Randomised Controlled Study Comparing a DBM-CaSO4 Composite Graft and Bone Marrow Aspirate with Autologous Iliac Crest Bone Graft in One-level and Two-level Lumbar and Lumbosacral Spinal Fusions**

David I. Alexander, Dalhousie University; William M. Oxner, Dalhousie University; **Alexandra M. Soroceanu**, Dalhousie University; Adrienne Kelly, Dalhousie University; Donna Shakespeare, Dalhousie University

144 – 1206

**Vertebral Fracture Risk and Tokuhashi Score Validation in Patients with Metastatic Breast Cancer**

John Townley, University of Toronto; Cari Whyne, Sunnybrook Health Sciences Centre, Toronto; Michael R. Hardisty, Sunnybrook Health Sciences Centre, Toronto; Lying Zhang, University of Toronto; Mark Clemons, University Health Network, Toronto; **Albert J.M. Yee**, University of Toronto Spine Program, Toronto

**MONDAY, JULY 6**

07/00-0830 Instructional Course Lectures

07/00-0830 **ICL 13: Paediatrics: Challenging Hip Diagnoses** • Spearhead A/B

Moderator: K. Kellie Leitch, ON

**Objectives:**

This case-based session will highlight difficult paediatric hip conditions exposing the challenges faced in diagnosing, treating and following patients with these conditions.

**Panel:**

Debra Bartley, ON

Sukhrdeep Dulai, AB

Timothy P. Carey, ON (Tentative)

07/00-0830 **ICL 14: Acute Compartment Syndrome of Leg** • Rainbow Theatre

**First Annual Canadian Journal of Surgery Lecture**

Moderators David J.G. Stephen, ON, and Peter J. O'Brien, BC

**Objectives:**

At the end of this ICL, the participant will be able to:

1. Identify the clinical risk factors for acute compartment syndrome.
2. Discuss the current concepts of diagnosis of acute compartment syndrome.
3. Apply an appropriate treatment plan.
4. Understand the Canadian medical legal environment in regard to compartment syndrome.

**Who Is At Risk of Acute Compartment Syndrome of Leg? An Epidemiological****Review of Risk Factors**

Matthew R.G. Menon, AB

**Clinical Diagnosis of ACS of Leg**

David W. Sanders, ON

**Recent Advancements in Diagnosis of Acute Compartment Syndrome**

Babak Shadgan, BC

**Lower Limb Fasciotomy: Techniques**

Gregory K. Berry, QC

**What Are The Complications and Outcomes of Lower Limb Acute Compartment Syndrome, Muscle Ischemia or Reperfusion Injury?**

Paul Duffy, AB

**Medical-Legal Aspects of Acute Compartment Syndrome**

Claude Martin, ON, The Canadian Medical Protective Association

**Panel / Discussion and Case Presentations**