

SCIENTIFIC PROGRAM
SATURDAY, JUNE 19th • SUBSPECIALTY DAY
HIP AND KNEE RECONSTRUCTION

0700 - 0830 **ICL6 Hip: Alternate Bearings in THA • Salon 11**
Moderator(s): Michael J. Dunbar, NS

Objectives:

1. Participants will be updated on the current literature on outcomes of alternative bearings in THA.
2. Participants will be updated on the changing pattern of bearing choice across Canada over time and how we compare to other nations.
3. Participants will gain insight into patient selection issues for alternative bearings in THA.

Introduction

Michael J Dunbar, NS;

Ceramics - A Little Squeaking and the Party's Over?

James P McAuley, ON;

Polyethylene - What Has Cross-linking Done to the Gold Standard?

Eric Bohm, MB;

Metal-on-Metal - Making Sense of Sensational Data

Jason Werle, AB;

Case-based Discussion

0845 - 1015 **Paper Session #12 COA Hip Reconstruction • Salon 11**
Moderator(s): James P Waddell, ON and Robert B Bourne, ON

109 - 0845

The Variability of Anatomical Cup Positioning Following Total Hip Arthroplasty

Anthony Marchie, US; Mark Callanan, US; Charles Bragdon, US; David Zurakowski, US; Henrik Malchau, US;

110 - 0851

Early Experience of Anterior Approach with Assisted Hip Arthroscopy for Femoroacetabular Impingement

Paul E Beaulé, ON; Kamal Banga, ON;

111 - 0857

Clinical and Radiographic Evaluation of Device Failures Following Metal-on-Metal Hip Resurfacing

D Gordon Allan, US; Lucas Rylander, US; Joseph C. Milbrandt, US; Adam Wallace, US;

0903 Discussion

112 - 0913

Metal Ion Levels in Patients with Large Head Metal-on-Metal Total Hip Prosthesis

John Antoniou, QC; Alain Petit, QC; Fackson Mwale, QC; David J Zukor, QC; Olga L Huk, QC;

113 - 0919

Hip Centre Restoration with Protusio Cup in Revision Hip Arthroplasty

André Nzocou, QC; Jean-Michel Laffosse, QC; Alain Roy, QC; Martin Lavigne, QC; Pascal-André Vendittoli, QC;

114 - 0925

Femoral Neck Narrowing after Metal-on-Metal Hip Resurfacing

Sanket Diwanji, QC; Jean-Michel Laffosse, QC; Kim Aubin, QC; Martin Lavigne, QC; Pascal-André Vendittoli, QC;

0931 Discussion

115 - 0941

Minimum Ten-year Results of a Dual Offset Uncemented Tapered Femoral Stem for THR

Richard W McCalden, ON; Robert B Bourne, ON; Kory D Charron, ON; Steven JM MacDonald, ON; Cecil H Rorabeck, ON;

116 - 0947

The Squeaky Ceramic Hip – A Striking Problem

Ross K Leighton, NS; Kelly Trask, NS; Gwendolyn Dobbin, NS;

117 - 0953

Femoral Neck Fractures with a Modular THR System

Michael Gross, NS; David Amirault, NS; Michael J Dunbar, NS;

118 - 0959

Hip Resurfacing Arthroplasty: The Effect of Anterior and Posterior Notching on Fracture Resistance

Zachary Morison, ON; Gordon A Higgins, UK; Michael Olsen, ON; Peter M Lewis, UK; Emil H Schemitsch, ON;

1005 Discussion

1015-1045 Break • Hall BC

See General Section at the end of Saturday program for mid-morning sessions

1230-1330 LUNCH • Hall BC

1330 – 1500 **Symposium 7: Trends and Updates in Total Knee Arthroplasty • Salon 11**

Moderator(s): Olga L Huk, QC, Thomas R Turgeon, MB

Objectives:

After attending this symposium the learner will:

1. Have a better understanding of the effect of obesity on total knee replacements.
2. Have a better understanding of why the differences in patient satisfaction between THA and TKA, and how to narrow the satisfaction gap.
3. Be able to formulate an approach to a rational choice of fixation options for periprosthetic TKA fractures.
4. Be updated on new techniques and materials for TKA (navigation, highly cross-linked polyethylene)

Patient satisfaction and TKA

Robert B Bourne, ON;

Obesity and TKA

Eric Bohm, MB;

Navigation and TKA

Michael J Dunbar, NS;

Highly Cross-linked PE and TKA

Jason Werle, AB;

TKA and Periprosthetic Fractures

Colin Burnell, MB;

Cementless Fixation

Thomas R Turgeon, MB;

1500-1530 Break • Hall BC

1530 - 1700 **Tips & Tricks 3: Arthroplasty • Salon 11**

Moderator(s): James P McAuley, ON

Objectives:

1. To identify the key points of the surgical techniques presented.
2. Assess the merits and potential disadvantages of the techniques.
3. Integrate these techniques in their clinical practices when appropriate.

Tips for State of the Art Management of Periprosthetic Hip

James L Howard, ON;

User Friendly Less Invasive THA Approaches

Vincent Pellegrini, US;

Anterior Approach for Hip Impingement Surgery

Paul E Beaulé, ON;

TKA - Getting it Right - Avoiding the Commonest Errors

Steven JM MacDonald, ON;

Tips for Complex Acetabular Reconstructions

Allan E Gross, ON;

Keys to a Successful UKA

James P McAuley, ON;

SPORTS MEDICINE

0700 - 0830 **ICL7 Sports/ COFAS: Evidence-based Medicine Sports,
Foot & Ankle • Salon 4**

Moderator(s): Kevin Wing, BC

Objectives:

1. To understand the importance of select pathologies with activity implications of the Foot & Ankle.
2. To understand the principals of management of select pathologies with activity implications of the Foot & Ankle.
3. To learn new surgical techniques for the treatment of select pathologies with activity implications of the Foot & Ankle.

1st Ray Disorders

Ian Le, AB;

Heel Pain Differential and Rx

Gordon R Goplen, AB;

Ankle Instability

Angela Scharfenberger, AB;

Posterior Ankle Pain

Kevin J Wing, BC;

Achilles Tendonopathy/Rupture

Mark Glazebrook, NS;

0845 - 1015 **Tips & Tricks 1: Sports Video Session • Salon 4**

Moderator(s): Catherine M Coady, NS

Objectives:

1. Expose the participants to a variety of surgical techniques and pearls for the treatment of a variety of upper and lower extremity sports-related surgical problems.
2. Facilitate discussions regarding surgical treatment of meniscal tears, patellar instability, posterolateral corner knee instability, biceps pathology, subscapularis tears and osteochondritis dissecans of the talar dome.

Posterolateral Corner Reconstruction

Daniel B Whelan, ON;

MPFL Reconstruction

Laurie A Hiemstra, AB;

Meniscal Repair

Donald H Johnson, ON;

Suprascapular Nerve Release

Mario R Taillon, SK;

Biceps

Robert Litchfield, ON;

Ankle Arthroscopy

Mark Glazebrook, NS;

1015-1045 Break • Hall BC

See General Section at the end of Saturday program for mid-morning sessions

1230-1330 LUNCH • Hall BC

1330 - 1500 **Paper Session #14 COA Sports Knee/Hip/Shoulder • Salon 4**

Moderator(s): Robert G McCormack, BC and John Calder, BC

129 - 1330

Accuracy of Meniscal Lesion Evaluation in an ACL Injured Joint

Jason Peeler, MB; Jeffrey Leiter, MB; Peter B MacDonald, MB;

130 - 1336

Prospective Randomised Trial of Ipsilateral versus Contralateral Hamstring Graft in ACL Reconstruction

Peter B MacDonald, MB; Robert McCormack, BC; Sheila McRae, MB; Jeffrey Leiter, MB; Mauri Zomar, BC; Jason Old, MB; Scott Wiens, AB;

131 - 1342

Iliac Crest Allograft for Recurrent Anterior Shoulder Instability in Athletes

Randy Mascarenhas, MB; Eden Raleigh, AU; Sheila McRae, MB; Jeffrey Leiter, MB; Peter B MacDonald, MB;

1348 Discussion

132 - 1358

Long-term Survival of High Tibial Osteotomy for Medial Osteoarthritis of the Knee

Catherine Hui, AU; Lucy Salmon, AU; Alison Kok, AU; Shinichi Maeno, AU; Leo Pinczewski, AU;

133 - 1404

The Role of Hip Arthroscopy in Synovial Chondromatosis: 1 to 10 Year Follow-up of 29 Patients

Anthony Marchie, US; Ian Panuncialman, US; Joseph C McCarthy, US;

134 - 1410

A Solution to Focal Medial Compartment Osteoarthritis of the Knee in the Young Patient: The UNICAP Knee Resurfacing

Shalinder S Arneja, BC; Morgan Jones, US; Anthony Miniaci, US;

1416 Discussion

135 - 1426

Depth-wise Measurement of Subchondral Bone Characteristics- Implications for Microfracture Surgery

Mark Hurtig, ON; Mark Lowerison, ON; Paul Marks, ON;

136 - 1432

Graft Choice in Medial Opening Wedge High Tibial Osteotomy: Auto vs Allograft.

Bashar Alolabi, ON; Bryant Dianne, ON; Peter J Fowler, ON; Kevin Willits, ON; J Robert Giffin, ON;

137 - 1438

A Prospective Randomised Study of the Effect of Skin Incision Angle on Infrapatellar Neuritis and Altered Skin Sensation in Anterior Cruciate Ligament Reconstructions with Semitendinosus/Gracilis Tendon Grafts

Peter B MacDonald, MB; Jeffrey Leiter, MB; Sheila McRae, MB; Alan Hammond, MB;

138 - 1444

Prospective Clinical and Radiographic Intermediate Outcomes of Fresh Talar Allografts for Large Osteochondral Talar Lesions

Timothy R Daniels, ON; Roger Haene, ON; Rob Story, AU; Ellie Pinsker, ON;

1450 Discussion

1500-1530 Break • Hall BC

1530 - 1700 **Symposium 9: Sports: Knee, Shoulder and Hip Topics**
• **Salon 4**

Moderator(s): Robert Litchfield, ON

Objectives:

The participant will gain an understanding of the controversies and technical considerations pertaining to the following:

1. Labral repair versus debridement in hip arthroscopy.
2. Anteromedial versus transtibial femoral tunnel drilling in ACL reconstruction.
3. Open versus arthroscopic anterior shoulder stabilization.
4. Understanding these concepts will improve the participants' ability to educate and treat their patients.

Shoulder: Open vs. Arthroscopic Instability: Are We Still Debating This?

Nicholas GH Mohtadi, AB;
Daniel B Whelan, ON;

Hip: Labral Tears: To Debride/Repair or Reconstruct?

Paul E Beaulé, ON;
Kevin Willits, ON;

Knee: Transtibial vs. AM Portal Femoral Tunnels

Kevin Willits, ON;
Michael K Gilbert, BC;

TRAUMA

0700 - 0830 **Paper Session #11 COA Trauma • Salon 10**

Moderator(s): G. Yves Laflamme, QC and Mohit Bhandari, ON

0700 Introduction by Ross K Leighton

100 - 0706

A Biomechanical Analysis of Lag Screw Position in the Femoral Head for Cephalomedullary Nails Used to Fix Unstable Peritrochanteric Fractures

Paul RT Kuzyk, ON; Radovan Zdero, ON; Suraj Shah, ON; Michael Olsen, ON;
James P Waddell, ON; Emil H Schemitsch, ON;

101 - 0712

A Provincial Integrated Model to Improve Care for Patients Following Hip Fracture

James P Waddell, ON; Janet McMullan, ON; Rhona McGlasson, ON; Nizar N Mahomed, ON; John Flannery, ON;

102 - 0718

The Dynamics of Outcome Assessment: An Analysis of the SPRINT Tibial Fracture Trial

Nicole Simunovic, ON; SPRINT Investigators, ON;

0724 Discussion

103 - 0734

Fluid Lavage of Open Fracture Wounds (FLOW): A Randomised Blinded, Multicentre Pilot Trial

Brad Petrisor, ON; FLOW Investigators, ON;

104 - 0740

Functional Outcomes Following Intramedullary Nailing of Trochanteric Hip Fractures: A Pilot Multicentre, Randomised Controlled Trial

Mohit Bhandari, ON; Alicja Bojan, SE; Carl Eckholm, SE; Ole Brink, DK;
Anthony Adili, ON; Sheila Sprague, ON; Nasir Hussain, ON; Anders Joensson,

SE; REGAIN Investigators, ON;

105 - 0746

A Biomechanical Comparison of Static versus Dynamic Lag Screw Modes for Cephalomedullary Nails Used to Fix Unstable Peritrochanteric Fractures

Paul RT Kuzyk, ON; Radovan Zdero, ON; Suraj Shah, ON; Michael Olsen, ON; James P Waddell, ON; Emil H Schemitsch, ON;

0752 Discussion

106 - 0802

Prospective Multicentre Randomised Trial Comparing the Less Invasive Stabilisation Skeletal System(LISS) to the Mini Invasive Dynamic Condylar System(DCS) for Distal Femoral Fracture

Ross K Leighton, NS; Abdullah A Hawsawi, NS; Allun Evans, GB; Kelly Trask, NS; Canadian Orthopaedic Trauma Society, NS; Richard A Preiss, GB;

107 - 0808

A Biomechanical Assessment of Locking Plates for Repairing Proximal Humerus Fractures

Emil H Schemitsch, ON; Jonathan Lescheid, ON; Radovan Zdero, ON; Suraj Shah, ON; Paul RT Kuzyk, ON;

108 - 0814

Radiographic Union Scale for Tibial (R.U.S.T.) Fracture Healing Assessment: Preliminary Validation

Mohit Bhandari, ON; Bauke W Kooistra, ON; Jason Busse, ON; Stephen D Walter, ON; Paul Tornetta III, MA; Emil H Schemitsch, ON;

0820 Discussion

0845 - 1015 ICL11 Trauma/Hand: Evidence-based Treatment of Scaphoid Fractures with Surgical Techniques for Percutaneous Fixation • Salon 10

Moderator(s): Bertrand H. Perey, BC

Objectives:

Participants will be made aware of the current evidence-based treatment of scaphoid fractures. Furthermore they will be exposed to the contemporary techniques used in the treatment of these #s. A period of case presentations will also be included.

Evidence-based Treatment of Scaphoid Fractures

Anne-Marie Bedard, QC;

Percutaneous Fixation Using Anti-grade Technique

Thomas J Goetz, BC;

Percutaneous Fixation Using Retro-grade Technique

Bertrand H Perey, BC;

Open Reduction and Internal Fixation for Acute Scaphoid Fractures

Michael D McKee, ON;

Case Presentations

Steven Papp, ON;

1015-1045 Break • Hall BC

See General Section at the end of Saturday program for mid-morning sessions

1230-1330 LUNCH • Hall BC

1330 – 1500 **Paper Session #15 COA Trauma • Salon 10**

Moderator(s): Michael D McKee, ON and G. Yves Laflamme, QC

139 - 1330

Outcome Assessment in Orthopaedic Trials: Is it Good Enough?

Nicole Simunovic, ON; Sheila Sprague, ON; Gordon H Guyatt, ON; PJ Devereaux, ON; Stephen D Walter, ON; Emil H Schemitsch, ON; Mohit Bhandari, ON;

140 - 1336

Approach-Withdraw Technique of Intra-operative Fluoroscopy to Avoid Intra-articular Screw Penetration with Proximal Humerus Locking Plates
George L Xenoyannis, ON; Jeff Yach, ON;

141 - 1342

Assessment of Patient Satisfaction with the Day Surgery Program at the Royal University Hospital in Saskatoon, Saskatchewan

Johannes M Van der Merwe, SK; R. Cole Beavis, SK; Geoffrey Johnston, SK;

1348 Discussion

142 - 1358

The Impact of Clinical Data on the Evaluation of Tibial Fracture Healing

Mohit Bhandari, ON; Bernadette G Dijkman, ON; Jason W Busse, ON; Stephen D Walter, ON;

143 - 1404

The Mechanical Effect of Locking and Blocking Screws in Distal Femur Fractures

David W Sanders, Ontario; Sagar Desai, ON; Louis M Ferreira, ON; Joshua W Giles, ON; James Johnson, ON;

144 - 1410

Is Angulation on the Lateral Hip Radiograph Related to Fracture Instability? A Retrospective Radiographic Review of 31-A2 Intertrochanteric Fractures

Tudor V Tufescu, MB; Bryn Sharkey, MB;

1416 Discussion

145 - 1426

Reamed versus Nonreamed Intramedullary Nailing of Femoral Diaphyseal Fractures: A Systematic Review and Meta-analysis

Krista Goulding, ON; Rudolf Poolman, NL; Emil H Schemitsch, ON; Mohit Bhandari, ON; Brad Petrisor, ON;

146 - 1432

The Efficacy of a Locally Injectable Prostaglandin EP-2 Receptor Agonist on Fracture Healing

Mohit Bhandari, ON; David D Thompson, US; Irina V Kaplan, US; Vishwas M Paralkar, US; Gojko Buljat, US; David Sanders, ON; John Schwappach, US; Slobodan Vukicevic, HR; EP-2 Study Group, ON;

147 - 1438

Tourniquet-induced Ischemia During Orthopaedic Trauma Surgery Causes Muscle Protein Oxidation Related to Changes In Muscle Oxygenation and Patient Gender

Babak Shadgan, BC; Luke W Harris, BC; Darlene Reid, BC; Scott K Powers*, FL; Peter J O'Brien, BC;

148 - 1444

Long-term Follow-up of Whiplash Injury

Sameh El Sallakh, UK; Mohamed Mohamed, UK; Rooney Mifsud, UK;

1450 Discussion

1500-1530 Break • Hall BC

1530 - 1700 **Tips & Tricks 5: Trauma: Common Problems- How Does The Expert Do It? • Salon 10**

Moderator(s): Edward J. Harvey, QC, Robert Ostrum, US

Objectives

1. Participants will appreciate how common trauma problems are treated at tertiary care centres.
2. Participants will get step by step approaches to common trauma problems
3. Participants will understand better the technical aspects of treating common fractures.

Guest Lecture: Current Options in Fixation of the Proximal Femur – What to Use, When to Use it and Why I Think I am Right!

Robert Ostrum, US;

How to Nail an Intertrochanteric Hip Fracture

Allan Liew, ON;

Optimal Use of Plates in Intertrochanteric Fractures

Donald Weber, AB;

Nailing the Difficult Subtrochanteric Fracture

Rudolf Reindl, QC;

What to Do with a Femoral Neck Nonunion - Osteotomy and Plating

Emil H Schemitsch, ON;

What to Do with a Femoral Neck Nonunion - Arthroplasty: THA vs Endo

Hans J Kreder, ON;

FOOT AND ANKLE

0700 - 0830 **ICL7 Sports/COFAS: Evidence-based Medicine Sports,
Foot & Ankle • Salon 4**

Moderator(s): Kevin Wing, BC

Objectives:

1. To understand the importance of select pathologies with activity implications of the Foot & Ankle.
2. To understand the principals of management of select pathologies with activity implications of the Foot & Ankle.
3. To learn new surgical techniques for the treatment of select pathologies with activity implications of the Foot & Ankle.

1st Ray Disorders

Ian Le, AB;

Heel Pain Differential and Rx

Gordon R Goplen, AB;

Ankle Instability

Angela Scharfenberger, AB;

Posterior Ankle Pain

Kevin J Wing, BC;

Achilles Tendonopathy/Rupture

Mark Glazebrook, NS;

0845 - 1015 **Workshop: Ankle Arthroscopy Techniques and Common Pathology Treatment • Salon 8****Master Instructors:** Alastair SE Younger, BC and Mark Glazebrook, NS**Objectives:**

After attending this Foot & Ankle Arthroscopy Workshop the participant will be able to:

1. Identify common indications for Ankle Arthroscopy.
2. Become familiar with the set-up and technique of diagnostic Ankle Arthroscopy.
3. Become familiar with some Ankle Arthroscopy surgical techniques such as removal loose body, treatment of OCD etc.

Station 1 Instructors

Karl-André R Lalonde, ON;

Jean-Pascal Allard, QC;

Peter J Dryden, BC;

Station 2 Instructors

Kevin J Wing, BC;

Iain S Russell, AB;

Monika Volesky, QC;

1015-1045 Break • Hall BC

See [General Section](#) at the end of Saturday program for mid-morning sessions

1230-1330 LUNCH • Hall BC

1230-1400 **COFAS Business Meeting • Salon 13/14**

1400 - 1500 **Paper Session #16 Foot and Ankle and Guest Lecturer**
• Salon 13/14

Moderator(s): Karl-André R Lalonde, ON; Peter J. Dryden, BC

149 - 1400

Management of the Neglected Club Foot in the Older Child with the Taylor Spatial Frame

R Mervyn Letts, ON; Atef Hassan, AE;

150 - 1406

Ankle Arthrodesis versus Total Ankle Arthroplasty: Prospective Outcome Cohort Study

Mark Glazebrook, NS; Patricia Francis, NS;

151 -1412

Prospective Clinical and Radiographic Intermediate Outcomes of 113 Scandanavian Total Ankle Arthroplasties

Timothy R Daniels, ON; Murray John Penner, BC; D. Joshua Mayich, ON; Michael Bridge, BC;

1418 Discussion

1425-1500 Guest Lecturer: Dr. Ian Winson, UK

Where Are We With Arthroscopic Fusion in the Hindfoot?

1500-1530 Break • Hall BC

1530 - 1700 Tips & Tricks 6: Foot & Ankle Made Easier • Salon 2

Moderator(s): Murray John Penner, BC and Monika Volesky, QC

Objectives:

1. To understand the treatment challenges of select pathologies of the Foot & Ankle.
2. To learn new unique surgical techniques of select pathologies of the Foot & Ankle.

Guest Lecturer: The Odd Ways I Position My Patients for Surgery

Ian Winson*, UK

Midfoot Fusion

Timothy R Daniels, ON;

MTP Joint Fusion

John TC Lau, ON;

Subtalar Fusion: Surgical Technique

Murray John Penner, BC;

Achilles Tendinosis Treatment

Jean-Pascal Allard, QC;

PAEDIATRICS

0700 - 0830

Symposium 5: Paediatrics: Management of Paediatric Orthopaedic Trauma in the Upper and Lower Extremities • Salon 3

Moderator(s): William G. Cole, AB, Kishore Mulpuri, BC

Objectives:

At the end of this symposium, the learner will be able to:

1. Identify and diagnose common fractures of the upper and lower extremities in children.
2. Consider treatment options for fractures of the upper and lower extremities in children.

Paediatric Femur Fractures

Andrew W Howard, ON;

Paediatric Fractures and Dislocations About the Elbow

Michael Bell, UK;

Paediatric Fractures and Dislocations of the Shoulder Girdle and Humerus

Ronald El-Hawary, NS;

Forearm, Distal Radius, and Monteggia Fractures

Carmen A Brauer, AB;

Paediatric Knee Injuries

Lucas Murnaghan, ON;

Paediatric Tibia and Ankle Fractures

Sukhdeep Kaur Dulai, AB;

0845 – 1015

Paper Session #13 COA Paediatrics • Salon 3

Moderator(s): Timothy P Carey, ON and Carmen A Brauer, AB

119 - 0845

C1 Lateral Mass Screw Fixation in Children: Indications, Outcomes, and Technique in 11 Consecutive Patients

Christopher W Reilly, BC; **Firoz Miyanji**, BC; **Kishore Mulpuri**, BC; **Davor Saravanja**, BC; **Peter O Newton**, US;

120 - 0851

Long-term Results of the Galveston Technique for Pelvic Fixation in Neuromuscular Spinal Deformity

George H Thompson, US; **Amr Abdelgawad**, US; **Douglas G Armstrong**, US; **Connie Poe-Kochert**, US; **Jochen P Son-Hing**, US;

121 - 0857

Extension Type II Supracondylar Humerus Fractures; A Radiographic Outcomes Study of Closed Reduction and Cast Immobilisation

Tristan Camus, NS; **Ronald El-Hawary**, NS; **Brent MacLellan**, NS; **P. Christopher Cook**, NS; **J. Lorne Leahey**, NS; **John C Hyndman**, NS;

0903 Discussion

122 - 0913

Systematic Review of Rigid, Locked, Intramedullary Nail Insertion Sites and Avascular Necrosis of the Femoral Head in the Skeletally Immature

Joshua AM MacNeil, NS; **Ronald El-Hawary**, NS; **Antony Francis**, NS;

123 - 0919

A Randomised Controlled Trial of Cast versus Wrist Splint in Children with Acceptably Angulated Wrist Fractures

Andrew W Howard, ON; **Andrew Willan**, ON; **Kathy Boutis**, ON;

124 - 0925

Effect of Salter Pelvic Osteotomy on Acetabular Version

Sulamain Almousa, ON; **Paul E Beaulé**, ON;

0931 Discussion

125 - 0941

Impact of Surgical Waitlist Times on Scoliosis Surgery: Surgeon's Perspective

Renjit Varghese, BC; **Firoz Miyanji**, BC; **Christopher W Reilly**, BC; **Suken Shah**, US; **Amer F Samdani**, US; **Peter O Newton**, US; **Kishore Mulpuri**, BC;

126 - 0947

Ambulation Gains After Knee Surgery in Children with Arthrogryposis

Stephen Yang, QC; Reggie Hamdy*, QC; Noemi Dahan-Oliel, QC;

127 - 0953

A Low-power Wireless Data Acquisition System to Monitor Gait Patterns Among Toe-Walking Children During Daily Activities

Sultan Al-Dosari, AB; Sukhdeep K Dulai, AB; Edmond Lou, AB; John Andersen, AB; Joe Watt, AB; Kyle A Kemp, AB;

128 - 0959

Comparison of Two Different Cast Materials for the Treatment of Congenital Idiopathic Clubfoot using the Ponseti Method: A Prospective Randomised Controlled Trial

Jason J Howard, NS; Catherine Hui, AB; Alberto Nettel-Aguirre, AB; Elaine Joughin*, AB; Simon Goldstein, AB; James Harder, AB; Gerhard Kiefer, AB; David Parsons, AB;

1005 Discussion

1015-1045 Break • Hall BC

See General Section at the end of Saturday program for mid-morning sessions

1230-1330 LUNCH • Hall BC

1330-1500 **Formation of the Canadian Paediatric Research Group**
• Salon 3

1500-1530 Break • Hall BC

1530 - 1700 **ICL12 Paediatrics: Osteochondritis Dissecans of the Knee**
• Salon 3

Moderator(s): Lucas Murnaghan, ON

Objectives

1. Participants will be able to identify clinically and interpret radiographically (OCD) osteochondritis dissecans of the knee.
2. Participants will be able to appreciate the significance and implication of skeletal maturity on management.
3. Participants will be able to understand and implement surgical approaches to encourage healing of OCD lesions.
4. Participants will be able to identify unstable OCD lesions and employ a spectrum of surgical interventions.

Discussion to Include: Clinical Presentation and Imaging, Non-operative management, Trans-epiphyseal vs. Trans-articular Drilling, Identification and Treatment of Unstable Lesions, Treatment of Unsalvageable Lesions –

Microfracture, ACI, Allograft and Proposed Treatment Algorithm

Panel:

R. Cole Beavis, SK;
Christopher W. Reilly, BC;
Lucas Murnaghan, ON;

SPINE

0700 – 0830 **ICL8 Spine: Complications in Adult Spine Surgery**
 ● Salon 15/16

Moderator(s): John Street, BC

Objectives:

After attending this Instructional Course Session the learner should understand the processes of complication avoidance, recognition and management in Adult Spinal Surgery. Attendees will be made familiar with current evidence-based medicine on the topics of:

1. Postoperative Spinal Infection.
2. Intra-operative and Postoperative Neurological Injury / Deficit.
3. Early postoperative hardware malposition and / or failure.

Postoperative Infection

Christian DiPaola, US;

Intra / Postoperative Neurological Deficit

Stephen P Kingwell, ON;

Hardware Malposition/Early Hardware Failure

Edward Peter Abraham, NB;

0845 - 1015 **Symposium 6 Case Presentation: Challenges with the**
 Ageing Spine ● Hall A

Moderator(s): Jan B. Splawinski, BC

Objectives:

After attending this case based symposium / round table discussion the learner should understand, and have had the opportunity to discuss many of the unique challenges in surgical management of the ageing spine. Through the use of instructive representative cases topics covered will include:

1. Challenges with fixation in the osteopenic spine.
2. Picking a winner..... optimizing success of focal decompression in the setting of degenerative deformity.
3. Fusion in the setting of saggital plane deformity.
4. Preoperative planning and patient optimization.

5. Management of the 'Failed Back'.

Challenges with the Ageing Spine

Christopher S Bailey, ON;
David Puskas, ON;

Approaches to the Failed Lumbar Spine

John Shipley, ZA;

1015-1045 Break • Hall BC

See General Section at the end of Saturday program for mid-morning sessions

1230-1330 LUNCH • Hall BC

1330 - 1500 **Tips & Tricks 2: Spine: My Worst Complications- What I Learned • Salon 15/16**

Moderator(s): Jan B. Splawinski, BC

Objectives:

After attending this interactive case based symposium the learner should understand, and have had the opportunity to discuss many of the unique challenges in complication avoidance, recognition and management in Adult Spinal Surgery Through the use of instructive representative cases topics covered will include

1. Primary and Revision Cervical Approaches.
2. Vertebral Artery Injuries.
3. Early Catastrophic Failure of the Implant / Bone Interface.
4. Iatrogenic Dural tear with ongoing CSF leak.
5. Revision Anterior Approaches to the Lumbar Spine.
6. Thoracic Disk Herniation.

Panel:

John Street, BC;
James Mahood, AB;
Jan B Splawinski, BC;

1500-1530 Break • Hall BC

1530 - 1700 **COA Paper Session #17 COA Spine • Salon 15/16**

Moderator(s): John Street, BC and Zhi Wang, BC

152 - 1530**Non-physician Triage in Patients with Low Back Pain, Sciatica and Spinal Stenosis**

Brett Dunlop, ON; Laurie McLaughlin, ON; Charlie Goldsmith, ON;

153- 1536

The Reliability of Differentiating Neurogenic Claudication from Vascular Claudication Based on Symptomatic Presentation

Melissa Nadeau, ON; M Patricia Rosas Rosas Arellano, ON; Kevin Gurr, ON; Stewart I Bailey, ON; Brian Taylor*, ON; Ruby Grewal, ON; Kirk Lawlor, ON; Christopher S Bailey, ON;

154 - 1542

The Multidisciplinary Inter-examiner Reliability of Patient Screening Assessments in a Hospital-based Spine Program: A Pilot Study

Paul B Bishop, BC; David Brunarski, ON; Charles Fisher, BC;

1548 Discussion

155 - 1558

Evaluation of Mortality Following an Odontoid Fracture in the Octogenarian Population

Alexandre Denault, AB; Ish Bains, AB; Ken Moghadam, AB; Richard W Hu, AB; Ganesh Swamy, AB;

156 - 1604

Brace Treatment for Adolescent Idiopathic Scoliosis – An Online Survey of the Canadian Spinal Deformity Study Group Surgeons

Douglas L Hill, AB; Eric C Parent, AB; Edmond Lou, AB; Marc J Moreau, AB; James K Mahood, AB; Douglas M Hedden, AB;

157 - 1610

Metabolic Syndrome Increases the Risk of Prevalent Spine Osteoarthritis

Rajiv Gandhi, ON; Kenneth Woo, ON; Yoga R Rampersaud, ON;

1616 Discussion

158 - 1626

Surgical Site Infection of the Spine: Construction of a Predictive Model to Define Need for Single versus Multiple Irrigation and Debridement

John Street, BC; Christian DiPaola, US; Davor Saravanja, AU; Luca Boriani, IT; Michael Boyd, BC; Brian Kwon, BC; Scott Paquette, BC; Marcel Dvorak, BC; Charles Fisher, BC;

159 - 1632

Do Non-steroidal Anti-inflammatory Drugs Inhibit Bone Healing? A Meta-Analysis of Cohort and Case Control Studies

Emily R Dodwell, BC; Julius Gene Latorre, US; Emilio Parisini, US; Elisabeth Zwettler, AT; Divay Chandra, US; Kishore Mulpuri, BC; Brian Snyder, US;

160 - 1638

Clinical Practice Guideline-based Treatment is Not Effective for All Patients with Acute Lower Back Pain

Paul B Bishop, BC; Charles Fisher, BC; Jeff Quon, BC; Marcel Dvorak, BC;

1644 Discussion

UPPER EXTREMITY

0700 – 0830 **Paper Session #10 COA Upper Extremity Shoulder • Salon 9**

Moderator(s): Richard Boorman, AB, and Richard M Holtby, ON

80 - 0700

Postoperative Rehabilitation after Rotator Cuff Repair: a Web-based Survey of Arthroscopy and Sports Medicine Society Members

R. Cole Beavis, SK; Alexander I Glogau, US;

81 - 0706

Emotional and Physical Aspects of Disability in Patients with Rotator Cuff Pathology: A Comparison Between Full-thickness Tears and Impingement Syndrome

Helen Razmjou, ON; George Athwal, ON; Richard Holtby, ON;

82 - 0712

Arthroscopic "Hill-Sachs remplissage": Capsulotenodesis Healing and Range of Motion in 29 Patients at Short-term Follow-up

Jason Old, MB; Pascal Boileau, FR; Miguel Pinedo, CL; Pablo Vargas, CL; Matthias Zumstein, CH;

0718 Discussion

83 - 0728

Clinical Outcome of Arthroscopic Debridement of Low-grade Partial Tears of Long Head of Biceps Tendon: A Matched Cohort Study

Richard M Holtby, ON.; Helen Razmjou, ON; Gregory Stranges, MB;

84 - 0734

Arthroscopic Treatment of Shoulder Stiffness: Results According to Etiology in 30 Patients

Ryan T Bicknell, ON; Matthieu César, FR; Elyès Fourati, FR; Virginie Rampal, FR; Pascal Boileau, FR;

85 - 0740

The Risk of Poor Functional Outcome Following Rotator Cuff Surgery, Based on Preoperative Pain Scores

Chris B Chant, ON; Joy MacDermid, ON; Darren S Drosdowech, ON; Kenneth J Faber, ON; George Athwal, ON;

0746 Discussion

86 - 0756

Osteolysis and Complications Following the Use of the Interference Bioabsorbable Screw for Distal Biceps Tendon Repair

Dominique M Rouleau, QC; Sylvain Gagnon, QC; Anna Potapov, QC; Fanny Canet, QC; G. Yves Laflamme, QC;

87 - 0802

Hydrodilataion in the Frozen Shoulder

Zafar Iqbal Ahmad, UK; Chris Ingham, UK; Chris Roberts, UK;

88 - 0808

Predicting Patient Outcome of Non-operative Treatment for a Chronic Rotator Cuff Tear

Kristie D More, AB; Richard S Boorman, AB; Dianne Bryant, ON; Nicholas GH Mohtadi, AB; Preston Wiley, AB; Kelly Brett, AB;

89 - 0814

Glenoid Version: How to Measure it? Reliability, Consistency and Inter-observer Agreement of Different Methods in 2D CT-scan

Dominique M Rouleau, QC; Jake Kidder, US; Juan Pons de Villanueva, ES; Savvas Dynamidis, IT; Michael De Franco, US; Gilles Walch, FR;

0820 Discussion

0845 – 1015 **ICL10 Upper Extremity: Humeral Fracture • Salon 9**

Moderator(s): Jaydeep K. Moro, ON

Objectives:

1. To identify and investigate fracture patterns of the humerus.
2. To know operative vs. nonoperative criteria for treatment.
3. To be familiar with nonoperative treatment protocols.
4. To learn a variety of operative techniques to manage these fractures.
5. To manage complications of treatment.
6. To be familiar with current evidence on humeral fracture treatment.

Welcome and Introduction

Jaydeep K Moro, ON;

Distal Humeral Fractures

Graham JW King, ON;

Midshaft Humeral Fractures

Brad Petrisor, ON;

Proximal Humeral Fractures

G. Yves Laflamme, QC;

Case-based Discussion

1015-1045 Break • Hall BC

See General Section at the end of Saturday program for mid-morning sessions

1230-1330 LUNCH • Hall BC

1330 - 1500 **Symposium 8: Community Based Shoulder and Elbow
Surgical Practice - Current Issues and Challenges**
• Salon 9

Moderator(s): Darren S Drosdowech, ON

Objectives:

1. Review practice challenges (clinical, financial, political) of community-based shoulder surgery from differing geographic perspectives within Canada
2. Create a forum for open discussion amongst the panel and audience to provide possible solutions to these and other practice-related challenges

Community Based Shoulder and Elbow Surgical Practice- Current Issues and Challenges

Panel:

Edward Hewins, NS;

Norman Klippenstein, MB;

Gary W Stamp, ON;

1500-1530 Break • Hall BC

1530 - 1700 **Tips & Tricks 4: Shoulder and Elbow • Salon 9**

Moderator(s): Kenneth J Faber, ON

Objectives:

1. Participants will be able to identify subscapularis rupture and describe arthroscopic techniques for tendon repair.
2. Participants will be able to describe injury patterns associated with coronoid fractures and describe a treatment algorithm.
3. Participants will be able to understand and implement surgical approaches to restore shoulder stability that occurs in association with large Hill-Sachs lesions.
4. Participants will be able to understand and implement arthroscopic surgical approaches for the treatment of tennis elbow and elbow arthritis.

Management of Coronoid Fractures

J Whitcomb Pollock, ON;

Elbow Arthroscopy Setup, Portals and Visualization

Dominique M Rouleau, QC;

Arthroscopic Subscapularis Repair

George S Athwal, ON;

Arthroscopic Remplissage for Anterior Shoulder Instability

Jason Old, MB;

TUMOUR

0700 – 0830 **Paper Session #9 COA Hand/Wrist/Tumour • Salon 2**

Moderator(s): Thomas J Goetz, BC, Paulose J Paul, AB

90 - 0700**Stabilization of Pathologic Humerus Fractures with the Cemented Plate Technique: The Toronto Experience**

Kurt R Weiss, ON; Rej Bhumbra, ON; Wazzan Al-Juhani, ON; Anthony Griffin, ON; Benjamin Deheshi, ON; Peter Ferguson, ON; Robert Bell*, ON; Jay S Wunder, ON;

91 - 0706**Contribution of FPL to Pinch Strength- An *in vivo* Study**

Anthony J Costa, BC; Satyam Patel, SK; Kishore Mulpuri, BC; Andrew Travlos, BC; Thomas J Goetz, BC; Ruth Milner, BC;

92 - 0712**Does an Ulnar Styloid Fracture Affect Outcome Following Distal Radius Fracture in Adults Less Than 65 Years of Age?**

Robert KW Chan, AB; Joy MacDermid, ON; Kayvan Nateghi, ON; Ruby Grewal, ON;

0718 Discussion

93 - 0728

Investigation into the Natural History and Treatment Outcomes for Kienbock's Disease

Glynn Martin, NL; Daniel Squire, NL;

94 - 0734

Preoperative PET-CT is Not Useful for Identifying De-differentiation of Well-differentiated Liposarcomas

Paul W Clarkson, BC; Anna Thompson, ON; Amy E Phillips, BC; Torsten O Nielsen, BC; Don Wilson, BC; Lorna Weir, BC; Rona Cheifetz, BC; Karen Goddard, BC;

95 - 0740

Triangular Fibrocartilage Complex 1b Lesions: Arthroscopic Repair
Francesco Pegreffi, IT; Lorenza Belletti*, IT; Marco Esposito, IT;

0746 Discussion

96 - 0756

Outcomes after revision for mechanical failure of the Kotz Modular Femoral Tibial Replacement (KMFTR) prosthesis

Rej Bhumbra, ON; Anthony Griffin, ON; Kurt R Weiss, ON; Wazzan Al-Juhani, ON; Benjamin Deheshi, ON; Jay S Wunder, ON; Peter Ferguson, ON;

97 - 0802

Computer-assistance versus Customized Guides for Distal Radius Osteotomy

David Pichora, ON; Burton Ma, ON; Manuela Kunz, ON; Hisham Alsanawi, ON; John Rudan, ON;

98 - 0808

Incidence and Severity of Lymphoedema Following Limb Salvage of Extremity Soft Tissue Sarcoma

Daniel Friedmann, QC; Ashley Gefen, ON; Robert E Turcotte, QC; Jay S Wunder, ON; David Roberge, QC; Peter Ferguson, ON; Brian O'Sullivan, ON; Charles Catton, PE; Carolyn Freeman, QC; Benjamin Deheshi, ON; Anthony Griffin MSc, ON; Soha Riad, ON; Cindy Wong RN, QC;

99 - 0814

Unplanned Excision of Soft Tissue Sarcomas – What is the Effect on Patient Outcome?

Peter Ferguson, ON; Cara Emelia Fallis, ON; Anthony Michael Griffin, ON; Benjamin Deheshi, ON; Jay S Wunder, ON;
0820 Discussion

0845 – 1015 **ICL9 Tumour: Educating Surgical Trainees in Orthopaedic Oncology • Salon 2**

Moderator(s): Peter Ferguson, ON

Objectives:

1. To discuss the role and importance of rotation specific objectives in an orthopaedic oncology rotation.
2. To present the rationale for development of an alternate stream competency-based training curriculum.
3. To discuss the development of components of a competency-based oncology module.
4. To present techniques of assessing CANMEDs components in a competency-based oncology module.
5. To discuss the role of practical oncology knowledge in a general orthopaedic practice.

Specific Objectives - Integrating Practical MSK Oncology into an Orthopaedic Curriculum

Marc H Isler, QC;
Joel M Werier, ON;

Rationale and Design of a Competency-based Training Module in Orthopaedic Oncology

Peter Ferguson, ON;

Orthopaedic Oncology...What All Practicing Orthopaedic Surgeons Should Know!

Veronica Wadey, ON;

1015-1045 Break • Hall BC

See [General Section](#) at the end of Saturday program for mid-morning sessions

1230-1330 LUNCH • Hall BC

1330-1530 **CANOOS Business Meeting • Salon 19/20**

1500-1530 Break • Hall BC

HAND

0700 – 0830 **Paper Session #9 COA Hand/Wrist/Tumour • Salon 2**
Moderator(s): Thomas J Goetz, BC, Paulose J Paul, AB

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0820 Discussion

0845 - 1015 ICL11 Trauma/Hand: Evidence-based Treatment of Scaphoid Fractures with Surgical Techniques for Percutaneous Fixation • Salon 10

Moderator(s): Bertrand H Perey, BC

Objectives:

Participants will be made aware of the current evidence-based treat of scaphoid fractures. Furthermore they will be exposed to the contemporary techniques used in the treatment of these #s. A period of case presentations will also be included.

Evidence-based Treatment of Scaphoid Fractures

Anne-Marie Bedard, QC;

Percutaneous Fixation Using Anti-grade Technique

Thomas J Goetz, BC;

Percutaneous Fixation Using Retro-grade Technique

Bertrand H Perey, BC;

Open Reduction and Internal Fixation for Acute Scaphoid Fractures

Michael D McKee, ON;

Case Presentations

Steven Papp, ON;

1015-1045 Break • Hall BC

See General Section below for mid-morning program

1230-1330 LUNCH • Hall BC

GENERAL

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|-----------|--|------------|
| 1045-1050 | Combined Meeting in Glasgow | • Hall A |
| 1050-1115 | Recognition of R5 Graduates | • Hall A |
| 1115-1145 | COA Business Meeting | • Hall A |
| 1145-1230 | President Elect Address - Transfer of Office | • Hall A |
| 1230-1330 | Women in Orthopaedics | • Salon 12 |

1800 Fort Edmonton Park: Alberta Grade 'A' Soirée

Shuttle service is provided from the Shaw Centre main entrance. Shuttles will run approximately every 15 minutes from 1730- 1900.

Return shuttles from Fort Edmonton with drop off at the Shaw Centre will run approximately every 15 minutes from 2100-midnight.