

CURRENT SOLUTIONS AND CONTROVERSIES IN ORTHOPAEDIC TRAUMA

RESEARCH DAY

MAY 10, 2017

PAETZOLD AUDITORIUM

VANCOUVER GENERAL HOSPITAL

ORTHOPAEDIC UPDATE AND BCOA ANNUAL MEETING

MAY 11-12, 2017

SFU HARBOUR CENTRE,

555 WEST HASTINGS AVE (AT SEYMOUR ST.), VANCOUVER, BC

WEDNESDAY, MAY 10, 2017 – PAETZOLD CENTRE, VGH

- 0700 – 0800 **REGISTRATION AND REFRESHMENTS**
- 0800 - 0805 *Welcome and Opening remarks* – Dr. Bas Masri
Chair: Dr. Henry Broekhuysen
Moderators: Dr. J. Lawrence Marsh, Dr. Michael McKee, Dr. Anthony Cooper
- Session 1:** **Research Presentations** (6 min. presentation + 4 min. discussion)
- 0805 – 0815 Dynamic morphometric changes in degenerative lumbar spondylolisthesis: a pilot study of standing magnetic resonance imaging– **Dr. Michael Bond (PGY 4)**
- 0815 -- 0825 Perceived vs real anterior glenoid anchor placement: a cadaveric comparison of beach chair and lateral position - **Dr. Benjamin Jong (PGY 4)**
- 0825 – 0835 Surgeon ergonomics in arthroscopic shoulder surgery - **Dr. Darcy Marr (PGY 4)**
- 0835 – 0845 Effect of time delay to surgery on morbidity and mortality associated with periprosthetic fractures of the hip and knee - **Dr. Ian Wilson (PGY 4)**
- 0845 – 0855 Which general functional outcome measure does a better job of capturing change in clinical status in pelvic and acetabulum fracture patients? An analysis of responsiveness over the first year of recovery
- **Dr. Sebastian Ko (PGY 4)**
- 0855 – 0905 The trajectory of short and long term functional recovery of surgically treated unstable pelvic ring injuries –
Dr. Michael Neufeld (PGY 3)
- 0905 – 0915 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
– **Dr. Jennifer Nevin (PGY 3)**
- 0915– 0925 Fixation failure and time to reoperation after internal fixation of young femoral neck fractures: A population-based study in British Columbia, Canada – **Dr. David Stockton (PGY 3)**
- 0925 – 0935 Classifying abductor deficiencies in total hip arthroplasty - **Dr. Simon Garceau (PGY 4)**
- 0935 – 0945 Sarcopenia, but not frailty, predicts the occurrence of adverse events after emergent surgery for metastatic disease of the spine – **Dr. Etienne Bourassa-Moreau** (Fellow, Spine)
- 0945 – 0955 Prophylaxis of surgical site infection in adult spine surgery: a systematic review
– **Dr. Reina Yao** (Fellow, Spine)

- 0955 – 1005 Responsiveness of injury specific and generic functional outcome measures in distal radius fractures
– **Dr. Amar Cheema (PGY 2)**
- 1005 – 1015 Accuracy of a three-dimensional computer model for assessing location of ilio-sacral screw placement.
– **Dr. Jillian Fairley (PGY 2)**
- 1015 – 1030 **REFRESHMENT BREAK**
- 1030 – 1040 Levels of evidence for joint-preserving surgical treatments in ankle osteoarthritis
– **Dr. Christopher Day (PGY 2)**
- 1040 – 1050 A new technique for determining limb occlusion pressure– **Dr. Lindsay Anderson (PGY 2)**
- 1050 – 1100 The economical implication and lost wages of ankle arthritis in British Colombia – **Dr. Oliver Gagne (PGY 2)**
- 1100 – 1110 TAR and AA: The effect of comorbidities on outcomes– **Dr. Alia Albaghdadi (PGY 2)**
- 1110 – 1120 Effect of a patient education program on patient satisfaction and outcomes in Hallux Valgus
– **Dr. Jennifer Hunter (PGY 1)**
- 1120 – 1130 Cost-utility analysis of open versus arthroscopic ankle arthrodesis for end-stage ankle osteoarthritis
– **Dr. Ryan Lohre (PGY 1)**
- 1130 – 1140 The epidemiology and patient-reported outcome of adverse local tissue reaction to metal wear particles
after revision total knee replacement– **Dr. Adam McIntyre (PGY 1)**
- 1140 – 1150 Measuring outcomes over time in tibial plafond fractures: a comparison of generic, musculoskeletal
specific and foot and ankle specific outcome measures– **Dr. Aresh Sepehri (PGY 1)**
- 1150 – 1200 Wide local excision versus mohs micrographic surgery in the treatment of dermatofibrosarcoma
protuberans – **Dr. Oren Zarnett (PGY 1)**
- 1200 – 1245 LUNCH FOR ALL ATTENDEES**
- Session 2: Research Presentations (6 min. presentation + 4 min. discussion)**
- 1245 – 1255 Knee manipulation under general anesthesia after total knee replacement
– **Dr. Husam Al-Rumaih (Fellow, Lower Limb Reconstruction and Oncology)**
- 1255 – 1305 Preventing catheter-associated urinary tract infections (CAUTI) in lower extremity total joint arthroplasty:
prospective evaluation of a physician-awareness tool – **Dr. Richard Nadeau (Fellow, Lower Limb
Reconstruction and Oncology)**
- 1305 – 1315 Identification of the ‘at risk’ genotype for the development of pseudotumours around metal-on-metal total
hip arthroplasties **Andrew Kurmis (Fellow, Lower Limb Reconstruction and Oncology)**
- 1315 – 1325 Predicting completion of follow-up in long term prospective orthopaedic trauma research
– **Dr. Graham Sleat (Fellow, Trauma)**
- 1325 – 1335 Mapping recovery in simple and complex tibial plateau fractures – **Dr. Darryl Ramoutar (Fellow, Trauma)**
- 1335 – 1345 The trajectory of recovery following acetabulum fracture – **Dr. Mark Miller (Fellow, Trauma)**
- 1345 – 1355 A comparison between cerebrospinal fluid and MRI biomarkers for classifying injury severity and predicting
outcome in acute SCI – **Dr. Turker Dalkilic (Fellow, Spine)**
- 1355 – 1405 An intraoperative (post-placement) framework for position assessment of pedicle screws
– **Hooman Esfandiari (PhD Candidate, Biomechanical Engineering)**

- 1405 – 1415 Do aging adults need wheelchair propulsion training?
- **Megan MacGillivray** (PhD Candidate, Rehabilitation Sciences)
- 1415 – 1430 **REFRESHMENT BREAK**
- Session 3:** ***Research Presentations*** (6 min. presentation + 4 min. discussion)
- 1430 – 1440 Do infants with risk factors for DDH require further radiographic follow-up after a normal clinical examination and ultrasound? A retrospective chart review– **Dr. James McCammon** (Fellow, Paediatrics)
- 1440 – 1450 The need for further corrective surgery in DDH: surgical decision-making and practice variability
– **Dr. Emily Schaeffer** (Postdoctoral Fellow, Paediatrics)
- 1450 – 1500 Pedobarographic assessment and comparison of clubfeet treated with Ponsetti casting and Botox to the normal population – **Dr. Arnold Suzuki** (Fellow, Paediatrics)
- 1500 – 1510 The reliability of computed tomography in the assessment of tibio-talar fusion
– **Dr. Nicholas Yeo** (Fellow, Foot & Ankle Extremities)
- 1510 – 1520 Comparison of plate and tension band wiring fixation of olecranon osteotomies or reliability of current sigmoid notch classification of the distal radioulnar joint. – **Dr. Heathcliff D'sa** (Fellow, Hand & Upper Extremities)
- 1520 – 1530 Varus posteromedial rotatory instability of the elbow – **Dr. Michael Kempston** (Fellow, Hand & Upper Extremities)
- 1530 – 1540 Extra-Articular Lateral Epicondylar Release– **Dr. Mark Robinson** (Fellow, Arthroscopic, Reconstructive Surgery & Joint Preservation)
- 1540 – 1550 Immediate unprotected weight-bearing and range of motion after open reduction and internal fixation of unstable ankle fractures – **Dr. Brian Le** (Fellow, Royal Columbian Trauma)
- 1550 – 1600 Qualitative comparison of total ankle replacement vs ankle fusion in patients with bilateral ankle arthritis–
Dr. Marie-Eve Pelletier (Fellow, Foot & Ankle Extremities)
- 1600 – 1610 Inconsistency in the reporting of adverse events in open reduction and internal fixation of ankle fractures: a systematic review of the literature “– **Dr. Hooman Sadr Hamedany** (Fellow, Foot & Ankle Extremities)
- 1610 – 1620 Reliably assessing developmental dysplasia of the hip using 3D ultrasound imaging
- **Niamul Quader** (PhD Candidate, Biomechanical Engineering)
- 1620 – 1630 Evidence of femoral neck superior cortex failed under compression in intracapsular hip fracture
- **Toni Tang** (PhD Candidate, Materials Engineering)

ADJOURN

THURSDAY MORNING, MAY 11, 2017 – SFU HARBOUR CENTRE, FLETCHER CHALLENGE THEATRE

0700 – 0800 **CONTINENTAL BREAKFAST**

Session 4: ***Comprehensive Care of the Orthopaedic Trauma Patient***

- 0800 – 0805 Chair/Opening remarks – Dr. B. Masri
- 0805 – 0825 Building the BC Trauma System: Focus on Optimizing Performance and Value—Dr. D. Evans
- 0825 – 0845 Perspectives on U.S. Trauma Systems - Dr. L. Marsh
- 0845 – 0905 Translational Opportunities to Improve Care in Acute Spinal Cord Injury – Dr. B. Kwon

- 0905 – 0925 Does Comprehensive Care Lead to Improved Patient Outcomes in Hip Fracture Patients- Dr. P. Guy
- 0925 – 0945 Panel Discussion
- 0945 – 1015 REFRESHMENT BREAK**
- Session 5: *Improving Trauma Care and Care Delivery-an evidence-based approach***
Chair – Dr. B. Masri
- 1015 – 1045 **Morton Lecture:** Dr. Michael McKee
Title: Fractures of the Clavicle- How Science Has Changed Practice
- 1045 – 1105 Randomized Trials in Orthopaedic Trauma and Their Relevance to My Practice in 2017- Dr. PJ O’Brien
- 1105 – 1125 The Role of Trauma/Fracture Registries and Database Research in Advancing Evidence-base Care
- Dr. Dr. P. Guy
- 1125 – 1145 Applied Bioengineering for Neurotrauma Prevention and Care- Dr. T. Oxland
- 1145 – 1205 An Evidence-Based Approach to the Management of Open Fractures- Dr. D. Malish
- 1205 – 1225 How Do We Measure the Outcome in Orthopaedic Trauma ?- Dr. L. Marsh
- 1225 - 1315 LUNCH FOR ALL ATTENDEES**
- Session 6: *Articular and Periarticular Fractures-solutions/controversies***
Chair – Dr. B. Masri
- 1315 – 1345 **Patterson Lecture:** Dr. J. Lawrence Marsh
Title: Articular Fractures and Post Traumatic Osteoarthritis
- 1345 – 1355 Complex Acetabular Fracture- the case for ORIF and a Delayed THA if Necessary- Dr. K. Lefavre
- 1355 – 1405 Displaced Femoral Neck Fracture- the case for ORIF and a delayed THA if necessary- Dr. P. O’Brien
- 1405 - 1415 Displaced Femoral Neck Fracture- the case for immediate THA- Dr. B. Masri
- 1415 – 1425 Discussion
- 1425 – 1445 Periprosthetic Fractures: Update 2017- Dr. C. Duncan
- 1445 – 1450 Discussion
- 1450 – 1500 Complex Fractures of the Proximal Humerus- the Role of Acute Reverse Shoulder Arthroplasty
- Dr. F. Moola
- 1500 – 1510 Fractures of the Distal Humerus- the Case for Immediate Prosthetic Arthroplasty- Dr. M. McKee
- 1510 – 1515 Discussion
- 1515 – 1525 Complex Fractures of the Tibial Plafond- ORIF vs Arthroplasty/Arthrodesis- Dr. A. Younger
- 1525 – 1530 Discussion
- 1530 – 1550 **REFRESHMENT BREAK**
- Session 7: *Breakout sessions / Case Discussions***

1550 – 1700 **Breakout Session #1: Complex upper extremity elbow/wrist fractures-solutions/controversies**

Room:

Case discussion

Chair: Dr. T. Goetz

Faculty: Dr. B. Regan, Dr. M. McKee, Dr. P.J. O'Brien, Dr. F. Moola

1550 – 1700 **Breakout Session #2: Complex fractures involving the foot and ankle-solutions/controversies**

Room:

Case discussion

Chair: Dr. A. Veljkovic

Faculty: Dr. M. Penner, Dr. L. Marsh, Dr. K. Wing, Dr K. Apostle, Dr T. Stone

1700 ADJOURN

THURSDAY EVENING, MAY 11, 2017

1700 – 1930 UBC Department of Orthopaedics Reception:
Alumni, Residents, Fellows, Faculty and Friends
Delta Suites Hotel - 550 West Hastings Street
Vancouver, BC V6B 1L6

FRIDAY MORNING, MAY 12, 2017

0700 – 0800 Continental Breakfast

Session 8: Complications and Adverse Events- solutions/controversies

0800 – 0805 *Opening Remarks/Chair – Dr. B. Masri*

0805 – 0830 **McGraw Lecture:** Dr. Anthony Cooper
Title: Pediatric Limb Deformity

0830 – 0850 Delayed Union/Non-union: Diagnosis and Management- Dr. L. Marsh

0850 - 0910 The Role of Biologics and Adjuncts for Bone Healing- a Cost-effective Approach for Canadian Surgeons- Dr. M. McKee

0910 – 0930 Prevention, Diagnosis, and Management of Infection in the Orthopaedic Trauma Patient- Dr. H. Broekhuysse

0930 – 0945 Compartment Syndrome Prevention, Diagnosis, Management in the Pediatric/Adult Trauma Patient- What is the State of the Art in 2017?- Dr. Lise Leveille

0945 – 1000 Physical Injuries- Current solutions/controversies- Dr. C. Reilly

1000 - 1030 **REFRESHMENT BREAK**

Session 9: Orthopaedic Education

Chair – Dr. H. Broekhuysse

1030 – 1050 The Changing Environment of Resident Education and the Current Status of Simulation for Orthopaedic Surgical Skills Training- Dr. L. Marsh

1050 - 1110 Educating the Millennials- Challenges and Opportunities- Dr. H. Broekhuysse

1110 – 1130 The Introduction of New Technology for Orthopaedic Surgery- Dr. M. McKee

1130 – 1145 Questions/Discussion

1145 – 1200 **Royal College Lecturer:** Dr. Alfred Smith

Title: Comprehensive Care of the Orthopaedic Patient in the Community Setting

1200 – 1300 **LUNCH FOR ALL ATTENDEES AND ALL BCOA MEMBERS**

BCOA AFTERNOON SESSIONS (ALL BCOA MEMBERS WELCOME)

Session 10: Orthopaedic Trauma Reconstruction: Tips/Tricks/Techniques

Chair – Dr. N. Greidanus

1300 – 1310 Multi-ligament Knee Reconstruction Following Knee Dislocation/Trauma- Dr. M. Gilbert

1310 – 1320 Arthroscopically Assisted Ankle Fracture Reduction/Fixation- Dr. A. Younger

1320 – 1330 Syndesmosis Fixation Solutions/Controversies- Dr. A. Younger

1330 – 1340 Peri-trochanteric Fracture Fixation- Dr. P. Guy

1340 - 1350 Percutaneous Pelvic Fracture Fixation- Dr. K. Lefaivre

1350 – 1400 Management of Periprosthetic Fractures of the Acetabulum- Dr. N. Greidanus

1400 – 1410 Fractures Involving the Radial Head/Elbow-optimizing outcomes- Dr. J. Pike

1410 – 1420 Nerve Transfer Following Fracture – state of the art- Dr. P. Daneshvar

1420 – 1430 Reduction and Fixation of the Intra-articular Distal Radius Fracture- Dr. T. Goetz

1430 – 1440 Reduction/Fixation of the Pediatric Supracondylar Humerus Fracture- Dr. C. Reilly

1440 – 1455 **Refreshment Break**

1455 – 1525 UBC Department of Orthopaedics Faculty-wide Departmental Meeting

Chair – Dr. B. Masri

1525 – 1700 BCOA BUSINESS MEETING

CHAIR – DR. K. WING

- 1) BC INSTITUTE UPDATE- FEATURED GUEST SPEAKER CHRIS SMITH (ALBERTA BONE AND JOINT INSTITUTE)
- 2) ACCESS TO CARE CAMPAIGN
- 3) BUSINESS MEETING AGENDA (AGENDA TO BE DISTRIBUTED ON-SITE)

1700 **ADJOURN**

FRIDAY EVENING, MAY 12, 2017

1830 UBC Department of Orthopaedics
Graduation, Alumni and Awards Banquet
Shaughnessy Golf and Country Club