



ORTHOPAEDIC RESEARCH DAY

May 3, 2023 | 7:30 AM – 5:30 PM PDT

Chair: Dr. Henry Broekhuyse

Review Panel:

Dr. Raj Rampersaud, Professor of Surgery, University of Toronto

Dr. David Stockton, Clinical Assistant Professor, UBC Department of Orthopedics

Dr. Bonnie Sawatzky, Associate Professor, UBC Department of Orthopedics

Note: All presentations are strictly limited to **6-minutes**, followed by a **4-minute** discussion period with the review panel

08:00 – 08:10:	Welcome and Opening remarks – Dr. K. Mulpuri		
	Speaker:	Title:	Supervisor:
08:10 – 08:20:	Mikaela Peters (PGY5)	<i>The Double Edged Scalpel - Experiences and Perceptions of Pregnancy and Parenthood During Canadian Surgical Residency Training</i>	K Lefaiivre
08:20 – 08:30:	Hannah Nazaroff (PGY5)	<i>Suitability of Saturated Salt Solution Cadavers in Orthopaedic Surgical Anatomy Training</i>	A Huang
08:30 – 08:40:	Mohamed J.H. Al-Amoodi (PGY3)	<i>Spine and spinal cord injuries secondary to mountain biking accidents: a 15-year review at a provincial spine referral centre</i>	B Kwon
08:40 – 08:50:	Eryck Moskven (PGY3)	<i>The Effectiveness of Prophylactic Intranasal Photodynamic Disinfection Therapy (nPDT) and Chlorhexidine Gluconate (CHG) Body Wipes on Surgical Site Infection in Adult Spine Surgery</i>	J Street
08:50 – 09:00:	Michael Hanna (Clinical Fellow)	<i>The Effect of Sanders Skeletal Maturity Staging on Growth Modulation of the Adolescent Idiopathic scoliosis' curves treated by Vertebral Body Tethering</i>	F Miyanji

09:00 – 09:10:	Alwalaa Althagafi (Clinical Fellow)	<i>The preoperative expectations of patients with Degenerative Cervical Myelopathy: a multi center retrospective cohort study</i>	R Charest-Morin
09:10 – 09:20:	Shahriar Shalileh (Grad student)	<i>Fully implantable, flexible optical probes for neuromodulation of the spinal cord</i>	D Shahriari
09:20 – 09:30:	Adan Moallemi (Grad student)	<i>Optogenetic stimulation to enhance axon growth and motor recovery following spinal cord injury</i>	D Shahriari
09:30 – 09:40:	John Steyn (PGY5)	<i>Complication and patient-reported outcome differences for staged vs non-staged progressive collapsing foot deformity reconstruction</i>	A Veljkovic
09:40 – 09:50:	Colby Finney (PGY5)	<i>Prognostic Factors of Clinical Outcome for Osteochondral Lesions of the Talus treated with Surgical Management: a Systematic Review</i>	A Veljkovic
09:50 – 10:10:	BREAK – 20 min	Coffee and light refreshments are served outside of the auditorium	
10:10 – 10:20:	Hanny Chen (PGY3)	<i>A biomechanical study on the contributors to forearm supination strength</i>	T Goetz
10:20 – 10:30:	Kellen Walsh (PGY5)	<i>Arthroscopic biceps tenolysis: A novel management technique for long head of biceps tendinopathy</i>	W Regan
10:30 – 10:40:	Mary Sun (PGY4)	<i>The Effect of Level 1 Evidence: Trends in Surgical Management of Proximal Humerus Fractures Over a 23 Year Period</i>	K Lefaiivre
10:40 – 10:50:	Abdulmohsen Almeshari (PGY4)	<i>Accuracy of Ultrasound Reported Distal Biceps Musculotendinous Junction Ruptures in Comparison to Intra-operative Findings</i>	T Goetz
10:50 – 11:00:	Justin Murphy (Clinical Fellow)	<i>Association between the direction of proximal humerus fracture dislocation and risk of avascular necrosis following open reduction internal fixation- A cross sectional study</i>	F Moola
11:00 – 11:10:	BREAK – 10 min		
11:10 – 11:20:	Jenny He (PGY1)	<i>Distal Femoral Replacement - A Case Series</i>	M Neufeld & L Howard
11:20 – 11:30:	Gabby Levesque (PGY2)	<i>Implementation of a patient education application for primary ACL Reconstructive surgery: Frequency of post-operative emergency department visits and perioperative rehabilitation engagement</i>	Dr. L Dielwart
11:30 – 11:40:	Arsh Sidhu (PGY2)	<i>Prehabilitation with Personalized Blood Flow Restriction Therapy in Patients with Knee Osteoarthritis on the Surgical Waitlist for Total Knee Arthroplasty: A Prospective Pilot Study.</i>	M Neufeld
11:40 – 11:50:	Taylor Crown (PGY3)	<i>A Comparison of Suspensory Versus Aperture Fixation for Isolated Soft Tissue Posterior Cruciate Ligament Reconstruction : A Systematic Review</i>	P Lodhia & J Leith
11:50 – 12:00:	Gina Peck (PGY1)	<i>Single Bundle Hamstrings Autograft Preparation Techniques for ACL Reconstruction</i>	P Lodhia
12:00 – 12:10:	Yasir AlShehri (PGY2)	<i>The association between posterior tibial slope and ACL reconstruction reconstruction failure: A systematic review</i>	A Veljkovic

12:10 – 01:00:	LUNCH	Lunch is served in the Jack Bell Atrium – our helpful admin team members are here to help you find your way!	
01:00 – 01:10:	Alice Wang (PGY2)	<i>Radiographic Predictors of Functional Outcome After Intramedullary Nail Fixation of Tibial Shaft Fractures</i>	D Stockton
01:10 – 01:20:	Akshay Lobo (PGY5)	<i>Outcomes of Suprapatellar versus Infrapatellar Nailing Techniques for Tibial Shaft Fractures: A Systematic Review</i>	P Guy
01:20 – 01:30:	Yousif Murad (PGY1)	<i>Fully automated analysis of the anatomical and mechanical axes from pediatric standing lower limb radiographs using convolutional neural networks</i>	K Lefaiivre
01:30 – 01:40:	Mehdi Nouri Zadeh (Grad Student)	<i>Reviewing the Current Methods of Muscle Spasticity Assessment in Children with Cerebral Palsy</i>	K Mulpuri & B Shadgan
01:40 – 01:50:	Gourav Jandial (Clinical Fellow)	<i>Limb Lengthening and Reconstruction Society AIM Index - Reliability in assessing patient outcome</i>	A Cooper
01:50 – 02:00:	Tanya MacDonell (PGY4)	<i>The Impact of Human Leukocyte Antigen Genotype and Single Nucleotide Polymorphisms on Bacterial Infection Rates in Total Hip Arthroplasty: A Retrospective Case-Control Pilot Study</i>	M Neufeld
02:00 – 02:10:	Nathan J Katz (PGY1)	<i>Evaluating the Clinical Utility and Effectiveness of Surgical Pre-Habilitation in a Medical-based Virtual Obesity Program</i>	N Greidanus & A Zentner
02:10 – 02:30:	BREAK – 20 min	Coffee and light refreshments are served outside of the auditorium	
02:30 – 02:40:	Ankita Bansal (Clinical Fellow)	<i>Differences in Presentation between Patients Diagnosed with Developmental Dysplasia of the Hip in a Multi-Centre, Global Prospective Registry: A Comparison of Western and Indian Centres</i>	K Mulpuri & E Schaeffer
02:40 – 02:50:	Bryn Zomar (Postdoctoral Fellow)	<i>Proportion of Obesity in Stable SCFE is Higher Than in Unstable SCFE: A Multi-Centre, International Prospective Registry Study</i>	K Mulpuri
02:50 – 03:00:	Emily Bliven (Grad student)	<i>A biomechanical case study: non-linear response of the pelvis during a sideways fall impact</i>	P Guy & P Cripton
03:00 – 03:10:	Xin Zhang (Grad student)	<i>The influence of iso-value on 3D-printed sheet TPMS Ti6Al4V scaffolds' mechanical responses</i>	R Wang
03:10 – 03:20:	Jacqueline Li (Grad student)	<i>Development of a DDH Care Pathway for India: A Study Methodology to Guide Similar Efforts in Other Countries and for Other Conditions</i>	K Mulpuri
03:20 – 03:30:	Maria Jose Bonta Suarez (Grad student)	<i>Assessing the effect of age on deep-learning bone segmentation from 3D ultrasound in developmental dysplasia of the hip</i>	A Hodgson
03:30 – 03:40:	Ammarah Kaderdina (Grad student)	<i>Using Deep Learning to Spatially Locate Frames in an Ultrasound Image Sequence of an Infant Hip</i>	A Hodgson
03:40 – 03:50:	BREAK – 10 min		

03:50 – 04:00:	Hayley Spurr (Clinical Fellow)	<i>Assessing the need for long-term follow up for developmental dysplasia of the hip following a normal screening ultrasound</i>	K Mulpuri
04:00 – 04:10:	Suliman AlShammari (Clinical Fellow)	<i>Incidence of patients with intra-articular acetabular fracture displacement in anterior column acetabular fracture-dislocation</i>	D Viskontas
04:10 – 04:20:	Trevor Fowler (Undergrad student)	<i>Ultrasound Screening for Infants at-risk of Developmental Hip Dysplasia in BC: Assessing Access-to-Care</i>	A Smith
04:20 – 04:30:	Parinaz Ranjbaran (Grad student)	<i>Depth Camera Augmented C-Arm (DeCAF)</i>	A Hodgson
04:30 – 04:40:	Kevin Gilmore (Grad student)	<i>Micro-positioning of Fibula Segments for use in Mandibular Reconstruction Surgery</i>	A Hodgson
04:40 – 04:50:	Melissa Yu (Grad student)	<i>Development of a Day-of-Surgery Planning and Guidance System for Mandibular Reconstruction</i>	A Hodgson
04:50 – 05:00:	Andreas Flury (Clinical Fellow)	<i>The modified RUST score for the assessment of fractured distal femur healing revisited</i>	K Lefaivre