

# Department of Surgery Research Day Program

**Wednesday April 7<sup>th</sup> 8:00AM**

**Chair: Dr. Sean Christie**

**Judges:**

Dr. Elaine Fung  
Dr. Danny French  
Dr. David Horne

8:00 AM Salutations and Welcome, Dr. Michael Dunbar – Director of Research

- 8:05AM** ESOPHAGEAL STENT MIGRATION – ARE WE GETTING ANY BETTER AT AVOIDING IT?  
**Jordan Eng**, James Ellsmere, Daniel French  
General Surgery  
*Resident*
- 8:12 AM** SCOLIOSIS FLEXIBILITY CORRELATES WITH POST-OPERATIVE OUTCOMES FOLLOWING GROWTH FRIENDLY SURGERY  
**Riley Bowker**, Kevin Morash, Burt Yazsay, Lindsay Andras, Peter Sturm, Paul Sponseller, George Thompson, Ron El-Hawary, PSSG  
Orthopaedics  
*Medical Student*
- 8:19 AM** ESTABLISHING A PATIENT DERIVED, IN VITRO ORGANOTYPIC SLICE CULTURE OF GBM  
**Liam Rappoldt**, I. Kim, K. Attwood, C. Taylor, R. Ouellette, J. Roy, Adrienne Weeks  
Neurosurgery  
*Grad Student*
- 8:26 AM** FACIAL DISTORTION WITH SMART PHONE PHOTOGRAPHY: THE IMPLICATIONS FOR PATIENT AND SURGEON PERSPECTIVES  
Colton Boudreau, Alison Wong, **Anna Duncan**, Jenna Coles, Adrian Fish, Margaret Wheelock  
Plastic Surgery  
*Resident*
- 8:33 AM** VARIATION IN DURABILITY OF BIOPROSTHETIC AORTIC VALVES BY MANUFACTURER, AN ECHOCARDIOGRAPHY STUDY.  
**David Hodgson**, Hashem Aliter, Osama Elkhateeb, Ryan Gainer, Gregory Hirsch  
Cardiac Surgery  
*Medical Student*
- 8:40 AM** THE NEED FOR TYMPANOSTOMY TUBES IN CHILDREN WITH RECURRENT ACUTE OTITIS MEDIA WITHOUT MIDDLE EAR EFFUSION  
**Alexander Clark**, David Forner, Gerald Corsten, Paul Hong  
Otolaryngology  
*Resident*

**8:47 AM** GLENOID BONE LOSS CAN BE PREDICTED USING GLENOID HEIGHT: A 3-DIMENSIONAL COMPUTED TOMOGRAPHY ANALYSIS IN A CANADIAN POPULATION  
**Johnny Rayes**, Jian Xu, Sara Sparavalo, Jie Ma, Ivan Wong  
ORTHOPAEDICS  
*Clinical Fellow*

**BREAK – 15 MINUTES**

**9:10 AM** A QUALITATIVE STUDY OF FAMILIES' EXPERIENCES WITH MEDICAL ASSISTANCE IN DYING (MAiD) IN NOVA SCOTIA  
**Erika Leck**, Caitlin Jackson-Tarlton, Ellen Crumley, Gord Gubitz  
NEUROSURGERY  
*Resident - CIP*

**9:17 AM** INVESTIGATING THE ROLE OF B CELLS IN MELANOMA  
**Mark Hanes**, S. Nersesian, JE Boudreau, JS Marshall, Carman Giacomantonio  
Pathology  
*Grad Student*

**9:24 AM** THE PRO-INFLAMMATORY CHEMOKINE IL-8 IS EXTRACTED BY ULTRAFILTRATION IN CHILDREN UNDERGOING CARDIAC SURGERY WITH CARDIOPULMONARY BYPASS.  
**Joel Bierer**, Roger L Stanzel, Mark Henderson, Ian Haidl, Suvro Sett, Pantelis Andreou, Jean S. Marshall, David Horné  
Cardiac Surgery  
*Resident – CIP*

**9:31 AM** DOES INTRAOPERATIVE BLOOD SALVAGE IMPACT LIVER TRANSPLANT SURVIVAL WHEN USED ON PATIENTS WITH VIABLE HEPATOCELLULAR CARCINOMA?  
**Ahmed Nasser**, Victoria Smith, Niamh Campbell, Michael Rivers-Bowerman, Ashley Stueck, Andreu Costa. Boris Gala-Lopez.  
General Surgery – Transplantation  
*Medical Student*

**9:38 AM** PSYCHOSOCIAL DISTRESS IN PARENTS WITH CHILDREN AWAITING SURGERY DURING THE COVID-19 PANDEMIC  
**Abdullah Aldaihani**, D Forner, PK. Leslie, M Bezuhly, CW. Noe , D Horne, S Walling , J Robitaille , D MacLellan, Ron El-Hawary, R Romao, R LaRoche , R Urquhart, Paul Hong  
Otolaryngology  
*Resident*

**9:45 AM** Post COVID-19 PATIENT THROUGHPUT SIMULATION FOR SURGICAL RESOURCE ALLOCATION  
**Natalie Ash**, VanBerkel, Kamal, Geoff Porter, Glen Richardson, Michael Dunbar  
Surgery/Engineering  
*Grad Student*

**BREAK – 15 MINUTES**

**Chair: Dr. Glen Richardson**

**Judges:**

Dr. Elaine Fung  
Dr. Danny French  
Dr. David Horne

- 10:10 AM** PATIENTS WHO LIVE > 1 HOUR FROM THE TERTIARY CENTER EXPERIENCE DECREASED SURVIVAL FOLLOWING ASCENDING AORTIC OPERATIONS  
**Claudia Cote**, Dominique De Waard, Gavin Tansley, Ansar Hassan, Mohammad Hajizadeh, Christine Herman  
Cardiac Surgery  
*Resident- CIP*
- 10:17 AM** ACOUSTIC INTERPRETATION OF LIDOCAINE SPRAY FOR DETERMINATION OF OPTIMAL COMFORT IN NASOPHARYNGOSCOPY  
**Matthew Biskup** and Mark Taylor  
Otolaryngology  
*Resident*
- 10:24 AM** ALTERED miRNA EXPRESSION FOLLOWING SPINAL CORD INJURY (SCI)  
**Mustafa Nadi**, S.Pillai, Sean Christie  
Neurosurgery  
*Grad Student*
- 10:31 AM** PROLONGED KIDNEY PROCUREMENT TIME IS ASSOCIATED WITH WORST OUTCOMES AFTER KIDNEY TRANSPLANTATION  
**F. Reyna-Sepulveda**, D Badrudin, Boris Gala-Lopez  
General Surgery – Transplantation  
*Clinical Fellow*
- 10:38 AM** CRISPR-BASED TAGGING OF ENDOGENOUS NEURONAL PROTEINS.  
**Dylan Quinn** and Jim Fawcett  
Pharmacology  
*Post Doc*
- 10:45 AM** WHAT IF I WASN'T THERE? FACULTY PERCEPTIONS OF A COMPREHENSIVE SIMULATED ASSESSMENT FOR SURGICAL RESIDENTS  
**Kevin Morash**, G Richardson, W Oxner, L Gauthier, SA. Scott, R. Andrew Glennie  
ORTHOPAEDICS  
*Resident*
- 10:52 AM** FUNCTIONAL AND ONCOLOGICAL OUTCOMES OF OCTOGENARIANS UNDERGOING TRANSORAL LASER MICROSURGERY FOR LARYNGEAL CANCER  
**Lee Changseok**, David Forner, Christopher W. Noel, Victoria Taylor, Colin MacKay, Matthew H. Rigby, Martin Corsten, Jonathan R. Trites, S. Mark Taylor  
Otolaryngology  
*Medical Student*

**10:59 AM** ACROMETASTASIS TO THE HAND: A SYSTEMATIC REVIEW AND META-ANALYSIS OF 641 CASES  
**Caitlin Davis**, Todd Dow, Jason Williams  
Plastic Surgery  
*Medical Student*

**11:06 AM** THE EFFECT OF FOLLOW-UP FREQUENCY IN THE FIRST 90 DAYS ON THE OUTCOME OF PRIMARY TOTAL KNEE AND TOTAL HIP ARTHROPLASTIES  
**James Larkin**, Glen Richardson, Lynn Lethbridge, Michael Dunbar  
Orthopaedics  
*Clinical Fellow*

***BREAK – 15 MINUTES***

**11:30 AM** A QUANTITATIVE DEGENERATIVE LUMBAR SPONDYLOLISTHESIS INSTABILITY CLASSIFICATION (DSIC) SYSTEM TO REDUCE VARIATION IN SURGICAL TREATMENT  
**Mark A. MacLean**, Chris Bailey, Charles Fisher, Raja Rampersaud, Andrew Glennie  
Orthopaedics/Neurosurgery  
*Resident*

**11:37 AM** BARRIERS AND FACILITATORS OF COST AWARENESS IN AORTIC VALVE REPLACEMENT (AVR) SURGERY: A QUALITATIVE STUDY ON PROVIDER PERSPECTIVES  
**Sophia Roy**, Ryan Gainer, Greg Hirsch  
Cardiac Surgery  
*Grad Student*

**11:44 AM** LONG-TERM LARYNGOTRACHEAL COMPLICATIONS FOLLOWING CARDIAC OPERATIONS IN ADULTS  
Claudia Cote, Jonathan Melong, Philippe Tremblay, Graeme Mullins, **Matthew Cooper**, Michael Vician, Tim Brown, Christine Herman  
Cardiac Surgery  
*Medical Student*

**11:51 AM** PSYCHOSOCIAL DISTRESS IN ADULT PATIENTS AWAITING CANCER SURGERY DURING THE COVID-19 PANDEMIC  
**David Forner**, S Murnaghan, G Porter, RJ Mason, P Hong, M Taylor, J Bentley, G Hirsch, CW Noel, M Rigby, M Corsten, J Trites, V Taylor, C Kendell, M Jorgensen, Robin Urquhart  
Clinical Health and Epidemiology – Otolaryngology  
*Resident*

**11:57 AM** TOWARDS EVIDENCE BASED DESIGN AT THE HALIFAX INFIRMARY  
**Laure Nolte**, Michael Dunbar, Aaron Newman  
ORTHOPAEDICS/ARCHITECTURE  
*Grad Student*

***LUNCH BREAK – 45 Minutes***

**1 PM**  
**Dr. Bethune Visiting Professor**  
**Lecture**



**Teodor Grantcharov, MD, PhD**  
**Professor of Surgery, University of Toronto**  
**Keenan Chair in Surgery, St. Michael's Hospital**  
**Director, International Centre for Surgical Safety**

**“MODERN STRATEGIES TO ENHANCE  
PERFORMANCE, EFFICIENCY AND SAFETY  
IN THE OPERATING ROOM”**

*Introduction: Michael Dunbar, MD, PhD*  
*Director of Research*

*Q & A to follow*

*FIN*  
*1:45 PM*

**Thursday April 8, 2021 6-8 PM**

**Chair: Dr. Katerina Neumann**

**Judges:**

Dr. Elaine Fung  
Dr. Danny French  
Dr. David Horne

- 6:05 PM** PREOPERATIVE SURGICAL VISITATION PATTERNS AND ASSOCIATED INCREASES IN POST-OPERATIVE EMERGENCY DEPARTMENT VISITS, HOSPITAL READMISSIONS, AND POST OPERATIVE COMPLICATIONS IN HIP AND KNEE ARTHROPLASTY PATIENTS.  
**Malik Ali**, Lynn Lethbridge, Glen Richardson, Michael Dunbar  
Orthopaedics  
*Resident*
- 6:12 PM** TRAUMA TEAM PERCEPTIONS REGARDING IN-SITU SIMULATION  
**Olga Bednarek**, Sam Jessula, Sam Minor  
General Surgery  
*Resident*
- 6:19 PM** EXAMINING THE ASSOCIATION BETWEEN DOMAINS OF FRAILTY AND 6-MONTH CHANGES IN HEALTH-RELATED QUALITY OF LIFE, LIVING STATUS, AND TREATMENT DECISIONAL REGRET AMONG OLDER PATIENTS REFERRED FOR CARDIAC SURGERY  
**Ryan Gainer**, G Ilie, Robin Urquhart, Pantelis Andreou, Greg Hirsch  
Cardiac Surgery  
*Grad Student – CH&E*
- 6:26 PM** ERADICATION OF HELICOBACTER PYLORI IN PATIENTS UNDERWENT SLEEVE GASTRECTOMY: SHOULD IT BE PERFORMED AND BY WHO?  
**Sultan Almualllem** and James Ellsmere  
General Surgery  
*Resident*
- 6:33 PM** EFFICACY OF AN IMAGE-BASED PROGRAMING PLAN IN PREDICTING THE FINAL STIMULATION CONFIGURATION FOR SUBTHALAMIC NUCLEUS DEEP BRAIN STIMULATION.  
**Carlos E. Restrepo**, Christine Potvin, Peggy MacNeil, Lutz Weise  
Neurosurgery  
*Resident*
- 6:40 PM** COMPARISON OF FRENOTOMY TECHNIQUES FOR THE TREATMENT OF ANKYLOGLOSSIA IN CHILDREN: A SYSTEMATIC REVIEW  
**Usman Khan**, Jake MacPherson, Michael Bezuhly and Paul Hong  
Otolaryngology  
*Resident*

**6:47 PM** NCK PROTEINS PLAY A ROLE IN MUSCLE REGENERATION AND FUNCTION.  
**Rafaela Andrade-Vieira**, Alessandro Santuz, Crystal Milligan, Victor Rafuse, Turkey Akay, Zhang Ying, Jim Fawcett.  
Pharmacology  
Grad Student

***BREAK – 10 MINUTES***

**7:10 PM** COLONOSCOPY SKILLS IMPROVEMENT (CSI) TRAINING IMPROVES PATIENT COMFORT DURING COLONOSCOPY  
**Bradley Evans**, I. Hossain, M. Ennis, E. O'Brien, L. Bacque, M. Miné-Goldring, M. Ge, J. Brodie, J. Harnett, M. Borgaonkar, J. Ellsmere, D. Pace  
General Surgery  
*Clinical Fellow*

**7:17 PM** PIEZOSURGERY VERSUS CONVENTIONAL CUTTING TECHNIQUES IN CRANIOFACIAL SURGERY: A SYSTEMATIC REVIEW & META-ANALYSIS  
**Connor McGuire**, Colton Boudreau, Neetin Prabhu, Paul Hong, Michael Bezuhly  
Plastic Surgery  
*Resident*

**7:24 PM** ACCURACY OF THE INTRAOPERATIVE BONE MARGIN SAMPLING PROTOCOL FOR HEAD AND NECK CANCERS INVOLVING BONE AT THE QEII HEALTH SCIENCES CENTRE  
**Anna – Claire Lamport**, Colin A. MacKay, Martin J. Bullock, S. Mark Taylor, Jonathan R. Trites, Martin Corsten, Matthew H. Rigby  
Otolaryngology  
*Medical Student*

**7:51 PM** RECURRENCE OF PRIMARY SPONTANEOUS PNEUMOTHORAX FOLLOWING BULLECTOMY WITH PLEURODESIS OR PLEURECTOMY: A RETROSPECTIVE ANALYSIS  
**Shawn Brophy**, Kelly Brennan, Daniel French  
General Surgery - Thoracics  
*Resident*

**7:58 PM** A PROVINCE WIDE ASSESSMENT OF THE APPROPRIATENESS OF LUMBAR SPINE MRI  
**Nicholas Blake**, R Greene, D LeBlanc, D Duquette, S Amero, H Daniels, M Schmidt, S Christie.  
Neurosurgery  
*Medical Student*

**8:04 PM** IS INTERPOSITION ALLOGRAFT BRIDGING RECONSTRUCTION APPROPRIATE IN PATIENTS OLDER THAN 60 YEARS OLD? A RETROSPECTIVE MID-TERM ANALYSIS  
Sara Sparavalo, Ma Jie Ma, **Fredrick Michael**, Ivan Wong  
Orthopaedics  
*Clinical Fellow*

*8:11 PM*

DEVELOPMENT OF A FRAILTY INDEX FROM THE CANADIAN SPINE OUTCOMES RESEARCH NETWORK (CSORN) TO PREDICT LONG TERM SUCCESS OF SURGERY FOR PATIENTS WITH DEGENERATIVE PATHOLOGIES OF THE SPINE  
**Ryan Greene**, S Christie, S Kehler, L Julien and K Rockwood  
Neurosurgery  
*Grad Student*

Closing Remarks

*FIN*  
*8:20 PM*



**Monday April 12, 2021 6-8 PM**

**Chair: Dr. Matt Smith**

**Judges:**

Dr. Elaine Fung  
Dr. Danny French  
Dr. David Horne

- 6:05 PM** FUNCTIONAL AND PSYCHOLOGICAL OUTCOMES OF PATIENTS WITH LUMBAR DISC HERNIATION TREATED WITH PRIMARY DISCECTOMY VERSUS REVISION DISCECTOMY SURGERY.  
**SK Dalal** and Sean Christie  
Neurosurgery  
Clinical Fellow
- 6:12 PM** BUTTON FIXATION DOES NOT AFFECT THE LEARNING CURVE AND SHORT-TERM RADIOGRAPHIC OUTCOMES FOR ARTHROSCOPIC ANATOMIC GLENOID RECONSTRUCTION WITH DISTAL TIBIA ALLOGRAFT  
**Alex Harper**, Sara Sparavalo, Jie Ma, Ivan Wong  
Orthopaedics  
Medical Student
- 6:19 PM** EVALUATING DISPARITIES IN ACCESS TO DIAGNOSTIC AND THERAPEUTIC INTERVENTIONS FOR PULMONARY MALIGNANCY AMONG VISIBLE MINORITIES IN CANADA.  
**Heather McFadgen**, Lynn Lethbridge, Michael Dunbar, Madelaine Plourde  
General Surgery – Thoracics  
Resident
- 6:26 PM** NOS1AP REGULATES INTEGRIN DEPENDENT ACTIVATION OF RHO  
**Ibrahim Shahin**, Josee Normand, and James Fawcett  
Pharmacology  
Grad Student
- 6:33 PM** SOCIOECONOMIC STATUS DOES NOT AFFECT POST-OPERATIVE OUTCOMES IN AAA REPAIR PATIENTS IN NOVA SCOTIA  
**Garrett McDougall**, Claudia L. Cote, Samuel Jessula, Min Lee, Matthew Smith, Patrick Casey, Christine Herman  
Cardiac Surgery  
Medical Student
- 7:00 PM** COMPARING PREDICTED-TO-OBSERVED 5-YEAR SURVIVAL AFTER LIVER TRANSPLANT FOR HEPATOCELLULAR CARINOMA: HOW DOES VIABLE TUMOR BURDEN INFLUENCE PREDICTIVE CAPABILITY OF THE METROTICKET MODEL?  
**Victoria Smith**, M Rivers-Bowerman, A Costa, A. Stueck, N. Campbell, S Allen, B Gala-Lopez  
General Surgery – Transplantation  
Resident

**BREAK 10 MINUTES**

- 7:17 PM** PRIMARY INTERPOSITION DERMAL ALLOGRAFT CUFF RECONSTRUCTION IS SUPERIOR TO REVISION AFTER FAILED CUFF REPAIR: A CLINICAL AND RADIOGRAPHIC ANALYSIS  
**Andres Campos Mendez**, Nedal Al-Khatib, JP King, Sara Sparavalo, Jie Ma, MES; Ivan Wong  
Orthopaedics  
*Clinical Fellow*
- 7:24 PM** MAPPING KNEE OSTEOARTHRITIS BIOMECHANICS USING AN UN-SUPERVISED LEARNING FRAMEWORK  
**Kathryn L. Young-Shand**, Patrice C. Roy, Syed S. R. Abidi, Michael J. Dunbar, Janie L. Astephen Wilson  
ORTHOPAEDICS/ BME  
*Grad Student*
- 7:31 PM** CARBON FOOTPRINT REDUCTION ASSOCIATED WITH A SURGICAL OUTREACH CLINIC  
**Chad Purcell**, David Forner, Victoria Taylor, Christopher W. Noel, Larry Pan, Matthew Rigby, Martin Corsten, Jonathan R. Trites, Antoine Eskander, Ted McDonald, S. Mark Taylor  
Otolaryngology  
*Resident*
- 7:38 PM** QUANTITATIVE EVALUATION OF PROPRIOCEPTION AFTER UPPER EXTREMITY AGONIST-ANTAGONIST MYONEURAL INTERFACE  
**Rakesh Gudimella**, Yajun Pan, Rob Adamson, David Tang  
Plastic Surgery/BME  
*Resident – CIP*
- 7:45 PM** PREDICTING HOSPITAL ACUTE LENGTH OF STAY (LOS) BASED ON FIVE HOSPITALS IN NOVA SCOTIA  
**Marzie Saghay**, Lynn Lethbridge, JoAnne Douglas, Michael Dunbar, Stan Matwin  
Computer Science-Orthopaedics  
*Grad Student – PhD*
- 7:52 PM** A CASE SERIES OF LOCALLY DELIVERED ANTIBIOTICS TO PORCINE SUBMUCOSA HERNIA GRAFT IN SINGLE STAGE REPAIR OF INCISIONAL HERNIA IN CONTAMINATED SETTINGS  
**Pooja Patel**, Ashley Drohan, Lisa Julien, Samuel Minor  
General Surgery  
*Resident*
- 7:59 PM** ASSOCIATION OF BMI AND WAIST CIRCUMFERENCE WITH KNEE ARTHROPLASTY CANDIDACY  
**Margaret Sun**, Matthew J Kivell, Glen Richardson, Lynn Lethbridge, Hilary Macdonald, Sara Whynot, Michael J Dunbar  
Orthopaedics  
*Medical Student*

**FIN**  
**8:15 PM**

Thank you for attending our research day(s) program.

**Winners will be announced Tuesday April 13<sup>th</sup>.**

This event is an Accredited Group Learning Activity (Section 1) as defined by the Maintenance of Certification Program of the Royal College of Physicians and Surgeons of Canada, and approved by Continuing Professional Development, Dalhousie University.

You may claim a maximum of **7.5 hours** (credits are automatically calculated). Through an agreement between the Royal College of Physicians and Surgeons of Canada and the American Medical Association, physicians may convert Royal College MOC credits to AMA PRA Category 1 Credits™.

Information on the process to convert Royal College MOC credit to AMA credit can be found at [www.amaassn.org/go/internationalcme](http://www.amaassn.org/go/internationalcme).

*“In keeping with CMA Guidelines, program content and selection of speakers are the responsibility of the planning committee. Support is directed toward the costs of the course and not to individual speakers.”*