Department of Surgery Research Day Program

Wednesday April 7th 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

8:05 AM

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
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

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

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

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

DOES INTRAOPERATIVE BLOOD SALVAGE IMPACT LIVER TRANSPLANT SURVIVAL WHEN USED ON PATIENTS WITH Viable HEpatocellular Carcinoma?
General Surgery – Transplantation
Medical Student

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

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
ACROMETASTASIS TO THE HAND: A SYSTEMATIC REVIEW AND META-ANALYSIS OF 641 CASES

Caitlin Davis, Todd Dow, Jason Williams
Plastic Surgery
Medical Student

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

A QUANTITATIVE DEGENERATIVE LUMBAR SPONDYLOolisthesis Instability Classification (DSIC) SYSTEM TO REDUCE VARIATION IN SURGICAL TREATMENT

Mark A. MacLean, Chris Bailey, Charles Fisher, Raja Rampersaud, Andrew Glennie
Orthopaedics/Neurosurgery
Resident

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

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

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

TOWARDS EVIDENCE BASED DESIGN AT THE HALIFAX INFIRMA

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 Almuallem 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.  
Pharmacology  
Grad Student

BREAK – 10 MINUTES

7:10 PM  COLONOSCOPY SKILLS IMPROVEMENT (CSI) TRAINING IMPROVES PATIENT COMFORT DURING COLONOSCOPY  
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
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. Christine Herman

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 CARCINOMA: HOW DOES VAILABLE 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
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

MAPPING KNEE OSTEOARTHRITIS BIOMECHANICS USING AN UNSUPERVISED LEARNING FRAMEWORK
Kathryn L. Young-Shand, Patrice C. Roy, Syed S. R. Abidi, Michael J. Dunbar, Janie L. Astephens Wilson
ORTHOPAEDICS/ BME
Grad Student

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

QUANTITATIVE EVALUATION OF PROPRIORCEPTION AFTER UPPER EXTREMITY AGONIST-ANTAGONIST MYONEURAL INTERFACE
Rakesh Gudimella, Yajun Pan, Rob Adamson, David Tang
Plastic Surgery/BME
Resident – CIP

PREDICTING HOSPITAL ACUTE LENGTH OF STAY (LOS) BASED ON FIVE HOSPITALS IN NOVA SCOTIA
Marzie Saghayi, Lynn Lethbridge, JoAnne Douglas, Michael Dunbar, Stan Matwin
Computer Science-Orthopaedics
Grad Student – PhD

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

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

**Winners will be announced Tuesday April 13th.**

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.”