

**Hamilton Regional Laboratory Medicine Program
Department of Laboratory Medicine
2010
Publications
Abstracts/Posters
Invited Presentations/Research Grants
(Regional, National, International Meetings)
Asterisk (*) denotes work performed in 2009, but reported in 2010**

Publications-2010

Preface

The year 2010 has proved a fruitful year for research in the HRLMP. In total this last year we count 228 peer-reviewed publications, a 41% increase over 2009, and a continuing growth throughout the last five years (over which time we count 1121 publications).

Of particular note, we have had three researchers with 100 or more total publications in the last five years (Drs Crowther (184), Warkentin (130) and Loeb (101)). In addition, our faculty has been honoured with numerous invitations to speak at National and International meetings, and our trainees have achieved podium and plenary presentations and research awards at meetings across all disciplines.

This output is a remarkable testament to the enthusiasm and excellence of our researchers – and to the academic value of the continued investment in the HRLMP faculty and staff.

We look forward to continuing this momentum and to presenting our successes on an annual basis for your review.

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Main CL. **Tool to promote CanMEDS teaching and evaluation in Laboratory Medicine.** International Conference on Residency Education. Ottawa, Ontario. September 2010.

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Mertz D, Johnstone J, Loeb M. **Does duration of perioperative antibiotic prophylaxis matter in cardiac surgery? A systematic review.** Annals of Surgery. 2010.

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Moffat KA, Raby A, Hayward C. **Standardization initiative for the performance of platelet function testing in the Province of Ontario.** International Journal of Laboratory Hematology 2010; 32(Suppl.1), p. 168. XXIII International Symposium on Technological Innovations in Laboratory Hematology, Brighton, UK. May 2010.

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Nair V. **Cardiovascular manifestations of Fabry disease.** Annual meeting of CAP, Montreal. July 2010.

Nair V. **Epicardial Ablation for Management of Ventricular Tachycardia Storm in Young Females with Biopsy Proven Myocarditis.** Annual meeting of Heart rhythm society, Denver, Colorado. May 2010.

Nair V. **New Insights into stentless porcine bioprosthesis failure.** Annual meeting of USCAP, Washington, District of Columbia. 2010

Nair V. **Spatial localization of intramural re-entry and histopathological correlation during ventricular fibrillation in a human Langendorff model: Implications for catheter ablation.** Annual meeting of Heart rhythm society, Denver, Colorado. May 2010.

Nair V. **Spectrum of changes in suspected H1N1 autopsy cases.** Annual meeting of USCAP, Washington, District of Columbia. 2010.

Nowaczyk MJM, Zeesman S, Rauen KA. **Deletion of MAP2K2: A possible novel mechanism for RASopathies?** David Smith Workshop, Seattle. August 2010.

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Odueyungbo A, Thabane L, Mercie P, Thiebaut R, Mangili A, Wanke C, Beyene J, Lonn E, Smieja M. **An Individual-Patient Meta-analysis to Study the Association between Anti-Retrovirals and Atherosclerosis [poster]**. 17th Conference on Retroviruses and Opportunistic Infections (CROI), San Francisco, California. February 2010.

Pai M, Wang G, Webert KE, Heddle NM, Hayward CPM. **Bleeding Symptoms and Risks in Undefined Bleeding Disorders: Results from a Prospective Study**. 2010 Annual Scientific Symposium of the Hemophilia & Thrombosis Research Society and North American Specialized Coagulation Laboratory Association, Chicago, Illinois. April 2010.

Paré G, Mehta SR, Yusuf S, Anand SS, Connolly SJ, Hirsh J, Simonsen K, Bhatt DL, Fox K, Eikelboom JW. **Efficacy and safety of clopidogrel compared with placebo according to CYP2C19 genotype in over 6000 patients with non-ST-elevation acute coronary syndromes (CURE trial) and atrial fibrillation (ACTIVE trial)**. Presented at the ESC Congress, Stockholm, Sweden. August 2010.

Paré G, Mehta SR, Yusuf S, Anand SS, Connolly SJ, Hirsh J, Simonsen K, Bhatt DL, Fox K, Eikelboom JW. **Efficacy and safety of clopidogrel compared with placebo according to CYP2C19 genotype in over 6000 patients with non-ST-elevation acute coronary syndromes (CURE trial) and atrial fibrillation (ACTIVE trial)**. Presented at the ASHG 60th Annual Meeting, Washington, DC. November 2010.

Paré G, Mehta S, Yusuf S, Anand SS, Connolly S, Hirsh J, Simonsen K, Bhatt D, Fox K, Eikelboom J. **Effects of Clopidogrel versus Placebo by CYP2C19 Genotype in Acute Coronary Syndromes and Atrial Fibrillation**. Presented at the Canadian Cardiovascular Congress, Montreal, PQ, Canada. October 2010.

Petrich A, Luinstra K, Chong S, Mahony J, Smieja M. **Comparison of commercial molecular assays to detect and identify 2009 H1N1 Influenza A in a sensitivity panel and in clinical specimens**. CACMID 2010: 27th International Congress of Chemotherapy and Infection, Edmonton, Alberta. May 2010.

Petrich A, Luinstra K, Chong S, Mahony J, Smieja M. **Performance comparison of commercial molecular assays to detect and identify pandemic influenza A in a sensitivity panel and in clinical specimens**. CVS 2010: 26th Annual Clinical Virology Symposium, Daytona Beach, Florida. April 2010.

Provias J, Jeynes B. **An investigation into the role of P-glycoprotein in Alzheimer's disease lesion pathogenesis**. Submitted to the Canadian Federation of Neurological Sciences Meeting, Quebec, QC. June 2010.

Provias J, Jeynes B. **Blood brain barrier (BBB) regulatory and transport proteins in Alzheimer's disease**. International Congress of Neuropathology, Salzburg, Austria. September 2010.

Abstracts & Posters 2010

Raboud J, Mcalpine J, Blitz S, Venables I, Singer J, Castillo E, Loufty M, Smaill F, Walmsley S, A Canadian Women's HPV/HIV Study Group, Money D. **Cervical dysplasia associated with presence and number of HPV types among a cohort of HIV positive women.** Can J Infect Dis Med Microbiol Vol 21 Suppl B Summer. July 2010. Canadian Association for HIV Research, Saskatoon. May 2010.

Rafiq S, Fonseca K, Singh P, Smieja M, Russell M, Loeb M. **Serological response to repeated influenza immunization among children[poster].** 9th Canadian Immunization Conference, Quebec City, Quebec. December 2010.

Rajagopalan A, Daya A, Rubabaza P, Ceballos K, Hauspy J, Onuma K. **Early invasive (microinvasive) adenocarcinoma of the uterine cervix: Is a radical surgery indicated?** Residents' Research Day, Hamilton, Ontario. May 2010.

Rubabaza P, Rajagopalan A, Daya D, Ceballos L, Onuma K. **Early invasive cervical adenocarcinoma: Is radical treatment indicated?** Gynecologic Oncology Committee Annual Meeting, Montreal, Quebec. June 2010.

Rubabaza P, Rajagopalan A, Daya D, Ceballos L, Onuma K. **Early invasive cervical adenocarcinoma: Is radical treatment indicated?** Society of Obstetrics and Gynecology of Canada Annual Meeting, Montreal, Quebec. June 2010.

Rutherford CR, MacPherson ME, Dale SE. **The Relative Analytical and Clinical Performance for the Diagnosis of Enterovirus Meningitis Using the Millipore Ampliflour Enterovirus Assay and a User-Developed TaqMAN Enterovirus Assay.** Clinical Virology Symposium 2010; Daytona Beach, Florida.

Scheifele DW, Dionne M, De Serres G, Loeb M, McGeer A, Vanderkooi O, Kellner J, Dobson S, Sauv e L, Li Y, Law B, Halperin SA. **PCIRN study of adults given monovalent adjuvanted H1N1 vaccine with concurrent or delayed trivalent seasonal influenza vaccination.** 9th Canadian Immunization Conference, Quebec City, Quebec. December 2010. Abstract P141. Can J Infect Dis Med Microbiol 2010; 21:226.

Scheinemann K, Duckworth J, Barr N, Provias J, Farrokhyar F, Singh S. **Medulloblastoma over three decades in a single institution – what have we achieved?** International Society for Pediatric Neuro-oncology, Vienna, Austria. June 2010.

Simor AE, Mouchili A, Louie L, Gravel D, Mulvey M, Bryce E, Loeb M, Matlow A, McGeer A, Watt C, Campbell J. **Characterization of Methicillin-Resistant Staphylococcus aureus (MRSA) Isolates from Patients with Bacteremia Identified by the Canadian Nosocomial Infection Surveillance Program (CNISP) (poster).** 48th Annual Meeting of the Infectious Diseases Society of America (IDSA), Vancouver, British Columbia. October 2010.

Abstracts & Posters 2010

Smieja M, Chong S, Luinstra K, Banh L, Granados A, Goodall E, Carruthers S, Petrich A, Mahony J. **Detection of coronavirus HKI-1 outbreak in university students living in residence**. CVS 2010: 26th Annual Clinical Virology Symposium, Daytona Beach, Florida. April 2010.

Smieja M, Fan L, Ammons B, Banh L, Barnes S, Fisman D, Loeb M. **Estimating Incidence of Influenza-Like Illness and Pandemic Influenza Among Canadians Using Nationally Representative, Telephone-based Surveys [oral]**. AMMI-CACMID Annual Meeting, Edmonton, Alberta. May 2010.

Sohn KY, Collin D, Keith PK, Young E, Khan WJ. **Comparison between multiplex immunoassay and immunofluorescence methods in detection of anti-nuclear antibodies**. Clinical Biochemistry 2010; 43: 783-784.

Sohn KY, Zeidler J. **Deuterium labeled Sirolimus: Synthesis and Assessment as Internal Standard in a New LC/MS/MS method**. 4 min podium and poster presentation at conference "Mass Spectrometry: Applications to the Clinical Laboratory 2010 (MSACL 2010)". San Diego, United States. February 2010.

Sohn KY, Zeidler J. **Synthesis of sirolimus-d3 and comparison to ascomycin as internal standard in LC-MS/MS/**. Poster 124 at CSCC conference 2010, Saskatoon, Saskatchewan. June 2010. Clin Biochem 2010; 43: 784.

Song M, Warne C, Crowther MA. **Prothrombin Complex Concentrate (Octaplex®) In Patients Requiring Immediate Reversal of Vitamin K Antagonist Anticoagulation Oral and Poster Abstracts** Blood 2010; 116(a1115):p486.

Stone CB, Mahony JB. **Co-regulation of the two *Chlamydia pneumoniae* type III secretion ATPases CdsN and FliI by CdsL**. ASM 2010. 110th General Meeting, American Society for Microbiology, San Diego, California. May 2010.

Tang S, Onuma K, Deb P, Wang E, Lytwyn A, Sur M, Daya D. **Frequency of serous tubal intraepithelial carcinoma in various gynaecological malignancies - a study of 290 consecutive cases**. United States and Canadian Academy of Pathology 99th Annual Meeting, Washington, DC. March 2010.

Tcherepanova I, Boulassel R, Carreno A, Carpenter H, Loufty M, Vezina S, Tremblay C, Angel J, Gill J, Baril JG, Smaill F, Jain R, Healey D, Chew T, Nicolette C, Routy JP. **An autologous dendritic cell therapy impacts on the evolution of residual HIV virus along with a substantial increase in time to viral rebound during an STI in the CTN 239 clinical study**. Can J Infect Dis Med Microbiol Vol 21 Suppl B Summer. July 2010. Canadian Association for HIV Research, Saskatoon. May 2010.

Abstracts & Posters 2010

Verhovsek M, Henderson MPA, Cox G, Chui DHK. **Variante hemoglobins causing unexpectedly low oxygen saturation measurements by pulse oximetry (SpO²): A systematic review of the literature.** International Society of Laboratory Hematology Annual Meeting 2010 May; Abstract #318.

Verhovsek MM, O'Shea T, Gibney G, So JCC, Ma ESK, Chan LC, Steinberg MH, Chui DHK. **Variability in HbA² levels among individuals with beta-thalassemia trait: Is iron deficiency associated with abnormally low Hb A²?** Blood (ASH Annual Meeting Abstracts) 2010;116:4281.

Verhovsek M, Shah N, Thornburg C, Koenig S, Wilcox I, Barros T, Steinberg MH, Luo H, Chui DHK. **Fetal and neonatal anemia due to heterozygosity for a 198 kb deletion removing the entire beta-globin gene cluster.** Blood (ASH Annual Meeting Abstracts) 2010;116:5171.

Waiswa M, McFarlane A, Verhovsek M, Crowther M. **Evaluation of four sickle solubility tests in detection of hemoglobin S.** International Society of Laboratory Hematology Annual Meeting 2010 May; Abstract #319.

Wilkieson TJ, Rahman MO, Voss MD, Ingram AJ, Ranganath N, Goldsmith CH, Kotsamanes CZ, Gangji AS, Crowther MA, Rabbat CG, Clase CM, on behalf of the Longitudinal study investigators. **Coronary artery calcification and cardiovascular events in incident patients on haemodialysis.** Canadian Society of Nephrology Annual Meeting, Montreal, QC, 2010 May.

Xing Z, Fe Medina M, Bramson J, Gauldie J, Foley R, Smieja M, Smaill E. **Ad5Ag85A vaccine: from bench to clinical trial.** The Second Global Forum on TB Vaccines, Tallin, Estonia. September 2010.

Yudin J, Lukic D, Margetts P. **Fibrillary tangles: a case of fibronectin glomerulopathy.** Poster presentation at the Department of Medicine Research Day, McMaster University and St. Joseph's Healthcare, Hamilton, Ontario. May 2010.

Zahanova S, Labieniec B, Verdin H, Meaney BF, Wang JC, De Baere E, Nowaczyk MJM. **Deletion 3q22.3q23: Blepharophimosis-ptosis-epicanthus inversus syndrome (BPES) and spastic diplegia, speech delay and penile skin anomalies.** AJHG. 2010.

Zeesman S, Szybowska M, Chumei Li C, Nowaczyk MJ. **Array comparative genomic hybridization abnormalities in patients with intellectual disabilities: What proportion are pathogenic in a clinical setting?** ACMG. 2010. du Souich C, Nowaczyk MJM, Konig A, Raymond L, McLarren K, Larstone R, Livesley J, Friedlander R, Marra M, Boerkoel C F. **Linking cholesterol biosynthesis and human behavior.** AJHG. 2010.

Lectures & Invited Presentations-2010

Abdel-Mesih A, Daya D, Onuma K, Akhtar-Danesh N, Boutross-Tadross O, Ceballos C, Chapman W, Colgan T, Deb P, Nucci MR, Oliva E, Sur M, Tang S, Lytwyn A. **Inter-Observer Agreement Among Pathologists for Assessing Invasion in Early Vulvar Squamous Cell Carcinoma: Still a Diagnostic Challenge**. Presented at United States and Canadian Academy of Pathology, Washington, District of Columbia, March 20-26, 2010.

Alexopoulou, I. **What is a Pathologist?** Woodlands Secondary School, Mississauga, Ontario. April 2010.

Alexopoulou, I. **Renal Pathology Case Reviews**. Presentation for Community Nephrologists, St. Catharines, Ontario, sponsored by Astra-Zenea, May 2010.

Balion C. **Geriatric Biochemistry**. 54th Annual Conference of the CSCC, Saskatoon, Saskatoon. June 13 – 16, 2010. [Roundtable, June 15].

Boutross-Tadross O. **Patient Safety in Surgical Pathology**. Presented as the HSC Annual Quality & Patient Safety Symposium, , Hamilton, Ontario, Canada, May 18/2010.

*Boychuk D. **Managing in a Multi-Sited Environment with Success**. Canadian Society for Medical Laboratory Science Annual Congress, St. John's, Newfoundland. June 2009.

Dale SE. **"Clinical Microbiology Careers"** Canadian Society of Microbiologists Annual General Meeting, Hamilton, ON. June 14-17, 2010.

Castriciano S, Kafka J, Jayaratne P, Lee C. **Validation of Copan fecal swab for detection of *Clostridium difficile* from fecal specimens with multiple diagnostic assays**. 20th European Congress of Clinical Microbiology and Infectious Diseases (ECCMID), Vienna, Austria. April 2010.

Crowther MA. **Achieving publication**. ASH Clinical Research Training Institute. La Jolla, California. August 2010.

Crowther MA. **Anticoagulation of Patients with antiphospholipid Antibodies in the Perioperative Period**. American College of Rheumatology Annual Meeting Atlanta, Georgia. November 2010.

Crowther MA. **Antiphospholipid antibodies – and update reversal of oral anticoagulants (including novel agents). Perioperative anticoagulation HIT novel anticoagulants**. "Assessing the quality of clinical research", NIH/NHLBI Spring meeting, Bethesda, MD, USA. May 2010.

Crowther MA. **"Antiphospholipid Antibody Syndrome"** American Society of Hematology State-Of The-Art Symposium, Chicago, Illinois. September 2010.

Lectures & Invited Presentations-2010

Crowther MA. **Antiphospholipid Antibody Syndrome.** Medical Grand Rounds, University of Western Ontario, London, Ontario. November 2010.

Crowther MA. **Cancer Associated Thromboembolism.** Royal Victoria Hospital Barry, Ontario. November 2010.

Crowther MA. **Collaborative Interactions with Industry: Industry Support for Investigator Initiated Clinical Trials and Intellectual Property Protection.** ASH Clinical Research Training Institute, La Jolla, California. August 2010.

Crowther MA. **Critical care Haematology.** Canadian Critical Care Review 2010, Mississauga, Ontario. June 2010.

Crowther MA. **How to Effectively Teach Evidence Based Medicine.** ASH Clinical Research Training Institute, La Jolla, California. August 2010.

Crowther MA. **“Ongoing Importance of Venous and Arterial Thrombosis”, “Approach to Patients with Venous Thrombosis in Unusual Sites”, “VTE prophylaxis is not routinely indicated for medical patients: a debate”.** Brazilian Society of Thromboembolism (ISTA), São Paulo, Brazil. October 2010.

Crowther MA. **Rapid Reversal of Anticoagulation – Strategies, Evidence and Clinical Experience.** Niagara Health Systems Clinical Rounds, St. Catharines, Ontario. June 2010.

Crowther MA. **Reversing oral anticoagulants.** Guelph General Hospital Medical Rounds, Guelph, Ontario. March 2010.

Crowther MA. **Should physicians interact with drug companies: A debate.** Canadian Chief Medical Resident Conference, Hamilton, ON. April 2010.

Crowther MA. **The Answer is the Question.** ASH Clinical Research Training Institute, La Jolla, California. August 2010.

Crowther MA. **“The New Anticoagulants: An Incoming Tide” “Thrombosis & Cancer”.** United Arab Emirates Cancer Congress 2010, Dubai, UAE. Oct 2010.

Crowther MA. **Thrombophilia Testing.** Ohio State University Medical Center Grand Rounds, Columbus, Ohio. June 2010.

Crowther MA. **Thrombophilia testing: More questions than answers.** American College of Physicians Annual Conference, Toronto, Ontario. April 2010.

Lectures & Invited Presentations

Crowther MA. **Treating DVT in the elderly - reflecting our best evidence to date.** Leo-Pharma Special Symposium Barcelona, Spain. November 2010.

Crowther MA. **Update: Approach to DVT and PE.** Family Medicine Rounds, St. Joseph's Healthcare Hamilton, Hamilton, Ontario. May 2010.

Crowther MA. **VTE Prevention: 2010 Update.** Medical Rounds, Oakville Trafalgar Hospital, Oakville, Ontario. September 2010.

Dale SE, Lee CH, Yamamura D. **"First Report of a Patient with Recurrent MRSA Bacteremia Resulting in hVISA and Non-Susceptibility to Daptomycin in EMRSA-15"**. Canadian Association of Clinical Microbiology and Infectious Diseases Annual General Meeting, Edmonton, Alberta. May 6-9, 2010.

Dale SE, Lee CH, Serrao S, McGravin M, Yamamura D. **First report of a daptomycin-non-susceptible hVISA in EMRSA-15.** Canadian Association of Clinical Microbiology and Infectious Diseases, Presentation 12, Edmonton, Alberta.

Daya D. **Case presentation of papillary serous carcinoma of the endometrium.** XXII Congress of the International Academy of Pathology, Arab Division. December 2010.

Daya D. **Diagnostic pitfalls in the interpretation of uterine curettings Lecture.** XXII Congress of the International Academy of Pathology, Arab Division. December 2010.

Daya D. **Interpretation of uterine curettings.** American Society of Clinical Pathology, San Francisco, California. October 2010.

Daya D. **Prostate disease site.** LHIN 4 Working Group. Niagara-on-the-Lake, Ontario. October 2010.

Daya D. **Review course in gyn pathology.** American Society of Clinical Pathology, Chicago, Illinois. October 2010.

Daya D. **Synoptic report for endometrial carcinoma Lecture.** Cancer Care Ontario Webex, Hamilton, Ontario. November 2010.

DiTomasso J. **A Collaborative Effort.** University of Toronto Rounds, Toronto, Ontario. October 2010.

DiTomasso J. **Internal Auditing-Results of the Bedside Audit: We've Done it, Now What?** ORBCoN Transfusion Committee Forum, Toronto, Ontario. September 2010.

Lectures & Invited Presentations

DiTomasso J. **Transfusion Transmitted Injury Surveillance System Ontario Report.** TTISS National Meeting, Ottawa, Ontario. January 2010.

DiTomasso J. **TTISS Ontario Data Presentation.** Ontario Transfusion Transmitted Injury Surveillance System Annual Meeting, Toronto, Ontario. January 2010.

DiTomasso J. **TTISS Overview.** ORBCoN Advisory Group Meeting, Elmhurst, Ontario. November 2010.

DiTomasso J. **Vivaglobin Implementation, St. Joseph's 2010.** GHEST Educational Day, Hamilton, Ontario. September 2010.

Don-Wauchope AC. **HbA1C - Truth or Politics in the Published Recommendations.** Canadian Association of Medical Biochemistry. Montreal, Quebec, Canada. Oct 2010.

Edwards L, Bhagirath V, Krakow E, Keng1 C, Lytwyn A, Ross C, Thebane L, Cheng E, Sur ML. **Characterization of "B-cell Lymphoma Unclassifiable with Features Intermediate between Diffuse Large B-cell Lymphoma and Burkitt's Lymphoma (BCLU)": A 10 Year Review.** Best Resident Platform Presentation HRLMP – Residents' Research Day, Hamilton, Ontario. 2010.

*Evanovitch D. **1. A Serious Transfusion Reaction Case: Unveiling the Culprit(s). 2. Unwanted Passenger.** Bluewater Medical Laboratory Technology Symposium, Sarnia, Ontario. May 2009.

*Evanovitch D. **1.SOPs: Templates, Tips and Taboos. 2. Sorry, I don't Speak Transfusion.** Canadian Society for Medical Laboratory Science Annual Congress, St. John's, Newfoundland. June 2009.

*Evanovitch D. **Transfusion Medicine Education for Nurses.** Alexandra Marine and General Hospital Skill Review Days for Nurses, Goderich, Ontario. April 2009.

*Evanovitch D, Gagliardi K. **Your ethical toolbox: An Ethical Framework for Difficult Decisions.** Canadian Society for Transfusion Medicine Joint Conference, Ottawa, Ontario. June 2009.

Grey V. **Critical Values-Interactive Case Studies in Pediatric Clinical Chemistry.** Scientific Workshop presentation, CSCC, Saskatoon, Canada. June 2010.

Grey V, Pedder L. **Sweat Chloride-please sweat the small stuff.** CSCC Education Roundtable, online presentation, February 2010.

Grant M, Patel S, Parasu N, Finlay K, Jurriaans E, Popovic S. **The radiologist's guide to lytic lesions of the hands and feet.** ARRS 2010 Annual Meeting, San Diego, California, United States. May 2010.

Lectures & Invited Presentations

Hayward C. **Best Practices for Assessment of Platelet Disorders.** University of Alberta Rounds/Sessions (Novo Nordisk Canada Inc). Edmonton, Alberta. November 2010.

Hayward C. **Evaluation of Platelet Function Disorders. Case-Oriented Symposium on Bleeding and Thrombosis.** Quest Diagnostics Nichols Institute. Washington, District of Columbia, March 2010.

Hayward C. **Platelets: What's New?** Talk: Mechanisms of Congenital Disorders of Platelet Function. Hemophilia & Thrombosis Research Society (HTRS) Meeting. Chicago, Illinois, April 2010.

Hayward C. **Standardization of Platelet Function Testing in Bleeding Disorders.** Hemophilia World Congress. Buenos Aires, Argentina. July 2010.

Ingram A, Lukic D. **"A Pastiche of Renin"**. Nephrology Grand Rounds, St. Joseph's Healthcare, Hamilton, Ontario. August 2010.

Jayarathne P, Rutherford C, Lee C. **A cost-effective in-house multiplex PCR method for detection of toxigenic *Clostridium difficile* from stools.** AMMI Canada – CACMID annual conference, Edmonton, Alberta. May 2010.

Jayarathne P, Rutherford C, Lee C. **A multiplex real-time PCR method for presumptive identification of NAP1 Clone of *Clostridium difficile* from stools.** 14th International Congress on Infectious Disease (ICID), Miami, Florida. March 2010.

Kavsak P. **Biomarker Selection: A Clinical Chemistry Perspective on Drug Efficacy and Toxicity.** 4th Annual Biomarker Discovery and Development Conference, San Francisco, California, USA. October 2010.

Kavsak P. **Emerging approaches for the diagnosis of acute myocardial injury in the emergency setting.** AACC Annual Meeting, Anaheim, California, USA. July 2010. (In-booth presentation).

Kavsak P. **High Sensitivity Cardiac Troponin Assays and Health Outcomes: the EMERGING data.** Canadian Society of Clinical Chemistry 2010 Annual Meeting, Saskatoon, Saskatchewan. June 2010.

Kavsak P. **Identification of Myocardial Injury.** Ontario Telemedicine network broadcast. January 2010.

Kavsak P. **Troponin T high sensitive assay and cardiac events in high risk populations.** 2010 CSCC Travelling Lectureship Mini-symposium on cardiac markers, David Braley Cardiac, Vascular, and Stroke Research Institute, Hamilton, Canada. November 2010.

Lectures & Invited Presentations

Khan WI. **Emerging roles of enterochromaffin cells in intestinal inflammation.** Invited Speaker, Symposium-Canadian Digestive Disease Week, Toronto, Ontario. February 2010.

Khan WI. **“Gut Inflammation: revealing the role of serotonin”.** Invited Speaker-University of Calgary, Alberta, Canada. November 2010.

Khan WI. **“Role of serotonin in immune activation and generation of gut inflammation”.** Invited Speaker-Queen’s University, Kingston, Canada. December 2010.

Kwiecien JM, Rukholm G, Khetani J, MacLean J, Archibald J, Lach B. **Animal model of CNS regeneration.** 50th Annual Meeting of Canadian Association of neuropathologists, Toronto, Ontario. October 2010.

Lach B. **Myofibroblastic sarcoma in Meningioma. Coincidence or a new variant of “Metaplastic” Meningioma.** XVII International Congress of Neuropathology, Salzburg. September 2010.

Lach B. **Role of electron microscopy in diagnosis of muscle diseases.** Neuropathology day at McMaster. May 2010.

Lach B. **Selective Astrocytic Injury in Devic’s Disease.** Salzburg, Austria.

Lach B. **Vascular pathology in mitochondrial cyopathies.** European Intercongress of Pathology. Krakow. September 2010.

Lee CH. **Approach to *C. difficile* Infection.** 2nd McMaster University Review Course in Internal Medicine, Hamilton, Ontario. March 2010.

Lee CH. **Changing Epidemiology of Community-Associated and Hospital-Associated MRSA: Antimicrobial Susceptibility Testing for MRSA.** Regional Pharmacist Educational Day, Toronto, Ontario. June 2010.

Lee CH. **Managing Side Effects with Newer Options for HIV: Treating for a Lifetime of Success.** AIDS Committee of Durham Region, Port Severn, ON. October 2010.

Lee CH. **Rational and Evidence-based Antimicrobial Therapy.** Guelph General Hospital Education Event, Guelph, Ontario. May 2010.

Loeb M. **“A cluster randomized trial to prevent influenza among Hutterite children”.** CIHR Science Day and IAB Meeting, Quebec, Quebec. May 2010.

Loeb M. **Approach to Outbreak Management.** ID/Medical Microbiology resident half-day, SJH –June 2010.

Lectures & Invited Presentations

Loeb M. **"Clinical Cases"**. Infectious Diseases Journal Club - St. Joseph's Healthcare, November 2010.

Loeb M. **"Dengue"**. Lecture - MS763, McMaster University, September 2010.

Loeb M. **"Efficacy of Influenza Vaccine for Preventing Symptomatic Illness given Infection: Results from a Cluster Randomized Trial in Hutterite Colonies"**. 9th Canadian Immunization Conference, Quebec, Quebec. Dec 2010.

Loeb M. **"Efficacy of 23-valent pneumococcal vaccine in preventing pneumonia and improving survival in nursing home residents: double blind, randomised and placebo controlled trial"**. Infectious Diseases Journal Club - BMJ 2010", St. Joseph's Healthcare, June 2010.

Loeb M. **"Environmental Risk Factors for Pneumonia in the Elderly"**. Ontario Thoracic Society's Annual Scientific Meeting, Better Breathing 2010, Toronto, Ontario. Jan 2010.

Loeb M. **"Genetic epidemiology of Neuroinvasive disease due to West Nile virus"**. Microbiology & Infectious Diseases Research-In-Progress Rounds, St. Joseph's Healthcare, May 2010.

Loeb M. **"Influenza and herd immunity"**. Chair of Medicine – Grand Medical Rounds, St. Joseph's Healthcare. January 2010.

Loeb M. **"Influenza Control and Prevention: a 2010 update"**. McMaster Campus, November 2010.

Loeb M. **"Influenza 2010-2011 Update"**. Ministry of Health, Influenza Live Meeting, McMaster University, Hamilton, Ontario. Nov 2010.

Loeb M. **"Influenza vaccine studies in Hutterite Communities"**. OAHPP's (Ontario Agency for Health Protection and Promotions) 1st Vaccine Science Symposium, Toronto, Ontario. April 2010.

Loeb M. **"Investigations of respiratory protection in health care settings"**. Update on Approaches to Understanding Human Influenza Transmission, CDC Global Communication, Atlanta, Georgia. Nov 2010.

Loeb M. **"Issues in long-term care and other non-hospital settings"**. SHEA/CDC Training Course in Healthcare Epidemiology, St. Louis, Missouri. May 2010.

Loeb M. **"McMaster Dengue Project"**. IIDR Annual General Meeting, Niagara-on-the-Lake, January 2010.

Lectures & Invited Presentations

Loeb M. **"Preparing for a pandemic"**. 2nd McMaster University Review Course in Internal Medicine, Hamilton Convention Centre. March 24, 2010.

Loeb M. **"Preventing Community Spread of Influenza: Lessons from the Hutterites"**. Infectious Disease Society of St. Louis Dinner Program, **"Preventing Community Spread of Influenza: Lessons from the Hutterites"**. St. Louis, Missouri. May 2010.

Loeb M. **"Preventing Nosocomial Influenza: Hand Hygiene, Mask, Isolation, Mandatory Vaccine - What Works Finally?"** 50th Interscience Conference on Antimicrobial Agents and Chemotherapy (ICAAC). Boston, Massachusetts. September 2010.

Loeb M. **"Reducing the Spread of Influenza by Immunizing Children: the Role of Herd Immunity Influenza or the "flu"**. Drug Innovation Forum (AstraZeneca), Toronto, Ontario. September 2010.

Loeb M. **"Respiratory infections in the elderly: clinical challenges"**. Emergency Medical Grand Rounds, Hamilton General Hospital. October 2010.

Loeb M. **"Seasonal influenza vaccination: Does one vaccine fit all?"** Sanofi Pasteur Symposium, Hong Kong. September 2010.

Loeb M. **"The Changing Face of Influenza: The Global Impact of Novel Strain"**.Fifth Decennial International Conference on Healthcare-Associated Infections, Atlanta, Georgia. March 2010.

Loeb M. **"The Flu and You in the Emergency Department: Protection and Therapy"**. Guest Speaker for ER Faculty and Residents, Hamilton General Hospital, November 16, 2010.

Loeb M. **"Transmission of influenza: The Hutterite community as a model system"**. AstraZeneca, University of Ottawa, Respirology Pneumoclub, Ottawa, Ontario. May 2010.

Loeb M. **"Pandemic Response confronting the first pandemic of the 21st Century: Lessons Learned - What worked out What did not"**. Options for the Control of Influenza VII, Hong Kong. September 2010.

Lukic D. **Acute Antibody-Mediated Rejection**. Nephrology Grand Rounds, St. Joseph's Healthcare, Hamilton, Ontario. May 2010.

Lukic D. **Polyomavirus Nephropathy**. Nephrology Grand Rounds, St. Joseph's Healthcare, Hamilton, Ontario. January 2010.

Lukic D. **Renal Amyloidosis**. Nephrology Grand Rounds, St. Joseph's Healthcare, Hamilton, Ontario. September 2010.

Lectures & Invited Presentations

Lukic D, Arlen D. **Renal Histology, Clinical Pathologic Correlation.** MF3 large group medical students, Class of 2012, McMaster University, Michael DeGroot School of Medicine, Hamilton, Ontario. March 2010.

Lytwyn A. **Multifocal HPV disease and implication for long term follow-up.** 26th International Papillomavirus Conference and Clinical and Public Health Workshops, Montreal, Quebec. July 3, 2010.

Lytwyn A. **Multicentric HPV Lesions and implication for vaccination Ontario CME Program: Update in Obstetrics and Gynecology.** The Society of Obstetricians and Gynecologists of Canada, and The Ontario Society of Obstetrics and Gynecology, Toronto, Ontario. December 2010.

Lytwyn A. **Multicentric HPV Lesions In Women.** Inter-hospital Infectious Disease Rounds, London Health Sciences, University of Western Ontario, London, Ontario. November 2010.

Lytwyn A. **Regional Pathology-Oncology Workshop Cancer Care Ontario and Juravinski Hospital and Cancer Centre Handling of cervical LEEP and cone specimens.** Niagara, Ontario. October 2010.

*MacDonald A. **Autoabsorption Comparison Study.** GHEST Symposium, Croatian Hall, Welland, Ontario. October 2009.

*MacDonald A. **HemoSafe Vending Machine-Results from Pilot Protocol.** Rapid Fire Showcase, St. Joseph's Healthcare Charlton Campus, Hamilton, Ontario. November 2009.

Mahony JB. **Rapid RSV diagnosis: A balance between relevance, cost, accuracy and turnaround time.** Annual RSV Coordinators Workshop, Hamilton, Ontario. September 2010.

Mahony JB. **Swab collection media and other pre-analytical factors impact the detection of respiratory viruses.** COPAN, Brescia, Italy. April 2010.

Mahony JB. **Type III secretion in Chlamydia and the potential of using peptide mimetics as Therapeutics.** Australian Chlamydia Conference, Brisbane, Australia. November 2010.

McCaffrey W, Jissam A, Jayarathne P, Monkman L, Kim C, Broukhanski G, Pillai DR, Lee CH. **Comparative study of cytotoxin assays, enzyme immunoassays: Techlab Toxin A/B, C. Diff quick for glutamate dehydrogenase (GDH) and PCRs for detection of C. difficile in adult stool specimens.** 48th Infectious Disease Society of Americas (IDSA), Vancouver, British Columbia. October 2010.

McFarlane AG. **A hemoglobinopathy registry be useful for surveillance of SCD patients identified by ONSP.** ONSP Symposium, CHEO, Ottawa, Ontario. April 2010.

Lectures & Invited Presentations

McFarlane AG. **Out of Africa: Clues from the hemoglobinopathy investigations**, QMPLS Education Day, Hamilton, Ontario. October 2010.

McFarlane AG. **The Hemoglobinopathies: Whose test is it anyway?** Lifelabs Technical Symposium, Toronto, Ontario. April 2010.

McQueen MJ. **Beyond Lipid Guidelines.** Medical Rounds, Credit Valley Hospital. May 2010.

McQueen MJ. **Biochemistry of Lipids. When and How to Treat.** Brampton Family Physician Group, Brampton, Ontario, March 2010.

McQueen MJ. **Canadian Lipids Guidelines, 2009. Diagnosis and Treatment of Dyslipidemia and Prevention of CVD.** North Hamilton Community Health Centre, Hamilton, Ontario, January 2010.

McQueen MJ. **Cardiovascular Risk-Case Discussions.** Smithville Family Health Team, Smithville, Ontario, July 2010.

McQueen MJ. **Combination Lipid Therapy and Treating To New Targets: Challenges and Controversies.** Medical Rounds, West Lincoln Memorial Hospital, Grimsby, Ontario, October 2010.

McQueen MJ. **The Future of Cardiovascular Research in the renal context: Cardiovascular lessons applied to acute and chronic kidney disease research.** SysKid Symposium. University of Vienna/University of Innsbruck, Austria, March 2010.

McQueen MJ. **The Predictive Value of NT-proBNP in the HOPE Study.** 2010 CSCC Travelling Lectureship, Mini-Symposium on Cardiac Markers, Hamilton, Ontario, November 2010.

McQueen MJ. **Treating to Target: Challenges and Controversies.** McMaster Family Practice Rounds (CME Stonechurch), Hamilton, Ontario, November 2010.

McQueen MJ, McGillis P. **Patient Safety Concerns in Transfusion Medicine.** Medical Rounds, West Lincoln Memorial Hospital, Grimsby, Ontario, January 2010.

McQueen MJ, Sniderman A, Williams K. **What does Non-HDL-C Measure?** 12th Annual National Atherosclerosis Forum, Montreal, September-October 2010.

Moffat KA. **An Algorithmic Approach for the Laboratory Investigation of Abnormal Coagulation Results – One Center's Experience.** Teleconference Network of Texas, University of Texas Health Science Centre at San Antonio, Texas. August 2010.

Moffat KA. **Factor Assays and Inhibitors: What Clinical Laboratories Should Consider.** QMP-LS Hematology Education Day, McMaster University, Hamilton, Ontario. October 2010.

Lectures & Invited Presentations

Moffat KA. **Natural Coagulation Inhibitors and Lupus Anticoagulants – A Laboratory Perspective.** Teleconference Network of Texas, University of Texas Health Science Centre at San Antonio, Texas. February 2010.

Moffat KA. **Platelet Function Testing – Results from Proficiency Challenges.** 7th ECAT Participations Meeting, Leiden, The Netherlands. November 2010.

Moffat KA, Carlino S, Crowther M, Hayward C. **Validation of the ISTH update of the guidelines for lupus anticoagulant detection. One center's experience with testing samples from individuals on vitamin K antagonists.** International Journal of Laboratory Hematology 2010; 32(Suppl.1), p. 41. XXIII International Symposium on Technological Innovations in Laboratory Hematology, Brighton, UK. May 2010.

Pai M. **“Diagnostic Utility of Platelet Aggregation and Secretion Testing.”** 2010 Annual Scientific Symposium of the Hemophilia & Thrombosis Research Society and North American Specialized Coagulation Laboratory Association, Chicago, Illinois. April 2010.

Pai M. **The SENTRY PILOT Trial: Strategies to Enhance Venous Thromboprophylaxis in Hospitalized Medical Patients.** International Forum on Quality and Safety in Health Care 2010, Nice, France. April 2010. [Unable to travel to conference due to international travel disruption. Work presented on Dr. Pai's behalf by session chair.]

Paré G. **An Update on the Use of Antiplatelets in ACS: Pharmacogenetic Considerations with Antiplatelets in ACS.** Train-the-Trainer Presentation Series: November and December 2010 (presented in English). (5 English presentations in total).

Paré G. **An Update on the Use of Antiplatelets in ACS: Pharmacogenetic Considerations with Antiplatelets in ACS.** Train-the-Trainer Presentation series: November and December 2010 (presented in French). (2 French presentations in total).

Paré G. **AVERROES Genetics.** Investigators Meeting. London, United Kingdom. August 2010.

Paré G. **CURE – Genetics.** Bristol-Myers Squibb/Sanofi Pharmaceuticals Partnership Scientific Advisory Board (Global)- Variability of Response, Philadelphia, Pennsylvania. June 2010.

Paré G. **Cytochrome P-450 Polymorphisms and Response to Clopidogrel.** Hamilton, Ontario. September 2010.

Paré G. **Effects of CYP2C19 genotypes on clopidogrel treatment – An Overview.** Antiplatelet Working Group Meeting & Antiplatelet Round Table Consultant Meeting- Canadian Advisory Board, Montreal, Quebec. October 2010.

Paré G. **Effect of CYP2C19 Genotype on Clopidogrel Treatment in the CURE and ACTIVE Trials.** Canadian Cardiovascular Congress, Montreal, Canada. October 2010.

Lectures & Invited Presentations

Paré G. **Effects of CYP2C19 Genotype on Outcomes of Clopidogrel Treatment.** eJournal Club, Amsterdam, the Netherlands. October 2010.

Paré G. **Emerging Antiplatelet Therapies** - Roundtable Meeting/ Advisory Board (Global). Stockholm, Sweden. August 2010.

Paré G. **Efficacy and Safety of Clopidogrel compared with Placebo according to CYP2C19 Genotype in patients with Non-ST-elevation Acute Coronary Syndromes (CURE trial) and atrial fibrillation (ACTIVE trial).** Academy Colloquium "Pharmacogenetics of cardiovascular drugs: Implications for a safer and more efficient drug therapy". Royal Netherlands Academy of Arts and Sciences, Amsterdam, The Netherlands. October 2010.

Paré G. **Efficacy and safety of clopidogrel compared with placebo according to CYP2C19 genotype in over 6000 patients with non-ST-elevation acute coronary syndromes (CURE trial) and atrial fibrillation (ACTIVE trial).** American Society of Human Genetics (ASHG) 60th Annual Meeting. Washington, District of Columbia. November 2010.

Paré G. **Efficacy and Safety of Clopidogrel compared with Placebo according to CYP2C19 Genotype in over 6000 patients with Non-ST-elevation Acute Coronary Syndromes (CURE trial) and atrial fibrillation (ACTIVE trial).** European Society of Cardiology, Stockholm, Sweden. August 2010.

Paré G. **INTERSTROKE: Future directions.** International Stroke Genetics Consortium bi-annual meeting, University of Cincinnati, Cincinnati, USA. Jan 2010.

Paré G. **Lipoprotein(a) and risk of coronary disease.** CIHR-Institute of Genetics. Maud Menten speaker at The Ninth Annual New Principal Investigators Meeting, Jackson's Point, Ontario. November 2010.

Paré G. **Pharmacogenetics of Clopidogrel.** CANNEcTIN Meeting, Hamilton, Ontario. April 2010.

Paré G. **Pharmacogentique du Clopidogrel.** Montreal, Quebec. November 2010.

Paré G. **Pharmacogenetics of Clopidogrel in Acute Coronary Syndrome and Atrial Fibrillation Patients.** 12th Annual National Atherosclerosis Forum (NAF), Montreal, Canada. October 2010.

Paré G. **Prevention and treatment: Update on the genetics of stroke and cerebrovascular disease.** Presented at the Canadian Stroke Congress, Quebec, Canada. June 2010.

Paré G. **Prioritizing SNPs for Quantitative Trait Interaction Testing.** University of Southern California, Los Angeles, California, USA. Feb 2010.

Lectures & Invited Presentations

Paré G. **Randomized Trials: Subgroup Analysis According to Genetic Variation.**

Pharmacogenomics in Cardiovascular Disease: Balancing Scientific Promises with Clinical Reality- Duke Clinical Research Institute Meeting, Virginia, USA. August 2010.

Paré G. **Synthetic Associations: Mirage or Reality?** Canadian Genetic Epidemiology Journal Club, Hamilton, Ontario. Mar 2010.

*Perryman D, Evanovitch D. **HRLMP: Teamwork in Action.** National Medical Laboratory Technology Week, Hamilton, Ontario. May 2009.

Potter MA. **Metabolic Investigation of Autism-Spectrum Disorders.** Ontario Association of Children's Rehabilitation Services annual conference, Toronto, Ontario. November 2010.

Potter MA. **Therapy for neurodegenerative metabolic disorders.** Metabolics Grand Rounds, Hospital for Sick Children, Toronto, Ontario. September 2010.

Potter MA. **New treatments for metabolic diseases-navigating the Ontario health system.** Metabolic Family Workshop, London, Ontario. May 2010.

Potter MA. **Targeting drugs to the nervous system.** 16th Annual Child Health Research Symposium, "From discovery to therapy-modern genetics in action", Calgary, Alberta. March 2010.

Provias J (Co-Organizer). **Progress in Pompe's Disease.** 4th Annual Neuropathology Day: Progress in Neuromuscular Diseases. McMaster University, Hamilton, Ontario. May 2010.

Provias J. **Review of muscle pathology in mitochondrial disease.** 6th Annual Neuromuscular Disorders Academic Day, McMaster University, Hamilton, Ontario. March 2010.

Rajagopalan A, Salama S. **CD99 expression in Merkel cell carcinoma: a novel pattern of expression for differentiation from other cutaneous malignancies.** Poster presentation, 47th annual meeting of the American Society of Dermatopathology (ASDP), Atlanta, Georgia. October 2010.

Ross C. **"Hematopathology for the Surgical Pathologist – Pitfalls in Diagnosis".** Workshop presentation, Canadian Association of Pathologist, Montreal, Quebec. July 2010.

Rutherford C. **Multiplex Respiratory Virus Assay.** 3rd Annual Rapid Fire Showcase, St. Joseph's Healthcare Hamilton. September 2010.

Smaill F. **Asymptomatic Bacteriuria and Symptomatic UTI's in Pregnancy, 50th Interscience Conference on Antimicrobial Agents and Chemotherapy Conference.** Boston, Massachusetts, USA. September 2010.

Lectures & Invited Presentations

Smieja M. **Evidence-Based Guidelines on prevention of cardiovascular disease in HIV.** CME event (Satellite symposium), AMMI Annual Meeting, Edmonton, Alberta. June 2010.

Smieja M. **HIV and cardiovascular disease—Lipid management.** Workshop for HIV clinic coordinators, Toronto, Ontario. December 2010.

Smieja M. **HIV and cardiovascular risk—Smoking cessation.** Workshop for HIV clinic coordinators, Toronto, Ontario. May 2010.

Smieja M. **Invited Lecturer, Module on Diagnostics Research.** Stellenbosch University, South Africa. March 2010.

Smieja M. **Keynote lecture, “Report from the Research Trenches”.** ACRP Regional Conference, St. Joseph’s Healthcare Hamilton, Ontario. October 2010.

Smieja M. **Preparing for Influenza Season.** Whitby Family Medicine. November 2010.

Sur M. **Gynecologic Pathology and Breast.** Invited by the Department of Pathology, St. George’s University, Grenada as a Visiting Professor to conduct the teaching module for Gynecologic Pathology and Breast for the 2nd Year Medical students in the form of large group teaching and problem based learning in small group tutorials. November 2010.

Sur M. **“Hematopathology for the Surgical Pathologist-Potential Diagnostic pitfalls”.** Invited by the Canadian Association of Pathologists to conduct a scientific work shop at the 61st Annual Conference of CAP, Montreal, Quebec, Canada. July 2010.

Wang, J.C. **Cytogenetics testing in endocrine patients: taking 22q11.2 microdeletion and microduplication syndromes as examples.** Pediatric Endocrine Rounds, MUMC, Room 4N55-A, Hamilton, ON, Canada. January 2010.

Wang, J.C. **Moving from microscope to microarray: A huge step for cytogenetics analysis.** Pediatric Grand Rounds, St. Joseph’s Hospital, Hamilton, ON, Canada. February 2010.

Warkentin TE. **Clinical problems in hematology: case-based clinical discussions focusing on in-patient thrombocytopenia.** Scripps Cancer Center’s 30th Annual Conference: Clinical Hematology and Oncology, San Diego, California. February 2010.

Warkentin TE. **Consumptive thrombohemorrhagic disorders.** Hematology and Medical Oncology Best Practices Course, George Washington University, Washington, District of Columbia. October 2010.

Warkentin TE. **Diagnosis and Management of HIT.** Montefiore Medical Centre, Bronx, New York. October 2010.

Lectures & Invited Presentations

Warkentin TE. Diagnosis, treatment, and prevention of heparin-induced thrombocytopenia. CME Lecture, Hematology-Oncology Associates (Vista Health System), Gurnee, Illinois. October 2010.

Warkentin TE. Diagnosis, treatment, and prevention of HIT. Medical Grand Rounds, Royal Victoria Hospital, Montreal, Quebec. September 2010.

Warkentin TE. Heparin-induced thrombocytopenia. Canadian Society of Hospital Pharmacists, Manitoba Chapter, Fort Garry Hotel, La Verendrye Room, Winnipeg, Manitoba. October 2010.

Warkentin TE. Heparin-induced thrombocytopenia. Hospital Pharmacists, St. Bonafice Hospital, Winnipeg, Manitoba. October 2010.

Warkentin TE. Heparin-induced thrombocytopenia. Medical Grand Rounds, Henry Ford Hospital, Dearborn, Michigan. May 2010.

Warkentin TE. Heparin-induced thrombocytopenia. Quebec Society of Vascular Sciences (QSVS) 10th Anniversary Canada Lecture, Montreal, Quebec. November 2010.

Warkentin TE. Heparin-induced thrombocytopenia. 11th Annual Antithrombotic Therapy Symposium (CME Program), Hyatt Regency Dearborn, Michigan. April 2010.

Warkentin TE. Heparin-induced thrombocytopenia for the pharmacist. Balloon Fiesta Symposium, New Mexico Society of Health-System Pharmacists, Sheraton Albuquerque, New Mexico. October 2010.

Warkentin TE. Heparin-induced thrombocytopenia: implications for vascular access. Symposium: Heparin or not heparin? Chair: Dr. Frank Swiatek (Denmark). First World Congress of Vascular Access (WaCoVA), RAI Congress, Amsterdam, Netherlands. June 2010.

Warkentin TE. Heparin-induced thrombocytopenia (HIT): a preventable adverse drug reaction? CME Event at the Carolinas Medical Center, Charlotte, North Carolina. February 2010.

Warkentin TE. Heparin-induced thrombocytopenia (HIT): a preventable adverse drug reaction? Emory University Hospital School of Medicine, Atlanta, Georgia. June 2010.

Warkentin TE. Heparin-induced thrombocytopenia (HIT): a preventable adverse drug reaction? Ochsner Foundation Hospital, New Orleans, Louisiana. February 2010.

Warkentin TE. Heparin-induced thrombocytopenia (HIT): a preventable adverse drug reaction? The Greater New Orleans Coagulation Conference, Marriott New Orleans, Metairie at Lakeway, Metairie, Louisiana. February 2010.

Lectures & Invited Presentations

Warkentin TE. **HIT in the ICU**. Columbia University Medical Center, New York, New York. October 2010)..

Warkentin TE. **HIT in the ICU**. Off-site program for intensivists, cardiac surgeons, and cardiac anesthesiologists, Mise Restaurant, Winnipeg, Manitoba. October 2010.

Warkentin TE. **Prevention of heparin-induced thrombocytopenia**. CME Event at the Carolinas Medical Center northeast, Concord, North Carolina. February 2010.

Warkentin TE. **Problems in hemostasis and thrombosis [with Dr Robert Siegel]**. Hematology and Medical Oncology Best Practices Course, George Washington University, Washington, District of Columbia. October 2010.

Warkentin TE. **Prothrombotic complications of anticoagulation**. Hematology and Medical Oncology Best Practices Course, George Washington University, Washington, District of Columbia. October 2010.

Warkentin TE. **Syndromes of drug-induced thrombocytopenia**. Scripps Cancer Center's 30th Annual Conference: Clinical Hematology and Oncology, San Diego, California. February 2010.

Warkentin TE. **Thrombocytopenia**. Comprehensive Board Review in Hematology and Medical Oncology, Division of Cancer Medicine, Baylor College of Medicine, Clark Clinic Hickey Auditorium, MD Anderson Cancer Center, Houston, Texas. September 2010.

Warkentin TE. **Treatment and prevention of heparin-induced thrombocytopenia**. CME Program, A Guide to Challenging Problems in Coagulation. New Mexico Cancer Center and Foundation, Albuquerque, New Mexico. April 2010.

Warkentin TE. **Warfarin-induced necrosis**. Scripps Cancer Center's 30th Annual Conference: Clinical Hematology and Oncology, San Diego, California. February 2010.

Warkentin TE. **Who gets HIT and why?** Hematology Rounds, Juravinski Hospital Cancer Center (JHCC), Hamilton, Ontario. April 2010.

Warkentin TE (Drs. Siegel R, Berliner N, Warkentin TE, Macik G). **Evening Study Session: Anemia, Sickle Cell Disease, Coagulation, TTP**. Hematology and Medical Oncology Best Practices Course, George Washington University, Washington, District of Columbia. October 2010.

Webert K. **Adverse reactions to transfusion: a symptoms-based approach**. Canadian Blood Services Residents' Teaching Series, Webinar. December 2010.

Webert K. **Ex vivo expansion of blood for transfusion**. Session Chair, American Society of Hematology Annual Meeting, December 2010.

Lectures & Invited Presentations

Webert K. **Hemostasis.** Medical Foundations-1 Large Group Lecture, Michael DeGroote School of Medicine, McMaster University, Hamilton, Ontario. November 2010.

Webert K. **Off-label use of recombinant factor VIIa.** Hospital for Sick Children Hemostasis and Thrombosis Rounds, Toronto Ontario. November 2010.

Webert K. **Prophylactic Platelet Transfusions: review of the literature.** HHS Leukemia Rounds, April 2010.

Webert K. **Serious Adverse Events of Transfusion.** Hematology Grand Rounds. January 2010.

Webert K. **Serious Adverse Events of Transfusion.** Medical Grand Rounds, Cambridge Memorial Hospital, Cambridge, Ontario. March 2010.

Webert K. **Transfusion Basics.** General Pathology Residents Academic Half-Day, McMaster University, Hamilton, Ontario. October 2010.

Webert K. **Transfusion Medicine for Surgeons.** CORE Surgical Residents Academic Half-Day, McMaster University, Hamilton, Ontario. February 2010.

Webert K. **von Willebrand's Disease and Hemophilia.** Hematology Residents Academic Half-Day. May 2010.

Webinar Chair: Crowther MA. Speakers: Greinacher A, Warkentin TE, Cuker A. **Webinar: Heparin-Induced Thrombocytopenia.** Inaugural American Society of Hematology (ASH), Hamilton, Ontario. September 2010.

Williams K, Furtberg C, McQueen M, Sniderman AD. **Comparative Effectiveness of Low Density Lipoprotein Cholesterol, non-High Density Lipoprotein Cholesterol, and apo B as Targets for LDL Lowering Therapy.** 12th Annual National Atherosclerosis Forum, Montreal, September-October 2010.

Vasudev P, Farag M, Salib C, Browning D, Foster W, Boutross-Tadross O. **Reduced Expression of WT-1, ER and PR in Uterine Leiomyosarcoma compared to Benign Leiomyoma: Results of a Clinicopathological Study of 52 Benign and Malignant Uterine Smooth Muscle Tumors.** Presented at Canadian Association of Pathologists, Montreal, Quebec, July 10-14, 2010.

Vasudev P, Farag M, Salib C, Browning D, Foster W, Boutross-Tadross O. **Tissue Microarray Analysis of Apoptotic and Cell Cycle Regulatory Markers in Benign and Malignant Uterine smooth muscle Tumours: a clinicopathologic study of 52 cases.** Presented at United States and Canadian Academy of Pathology, Washington, District of Columbia, March 20-26, 2010.

Lectures & Invited Presentations

Yamamura D. **Case of a Potter's Nodule.** Infectious Diseases/Medical Microbiology Rounds, Hamilton, Ontario. January 2010.

Yamamura D. **Fungal Infections.** General Pathology Half-Day, Hamilton, Ontario. January 2010.

Yamamura D. **Overview of Susceptibility Testing.** ID/MM Half-Day, Hamilton, Ontario. February 2010.

Yamamura D. **Rapide Screening tests for methicillin-resistant *S. aureus* – systematic review and meta-analysis.** Infectious Diseases/Medical Microbiology Rounds, Hamilton, Ontario. April 2010.

Yamamura D. **Susceptibility testing and *Staphylococcus aureus*.** ID/MM Half-Day, Hamilton, Ontario. January 2010.

Zeidler J. **Pretty Paracetamol.** Lunch-and-learn lecture for everyone including medical laboratory technologists, St. Joseph's Healthcare. March 2010. McMaster University. April 2010.

324 Lectures & Invited Presentations

Research Grants-2010

Allard J, Salit I, Smieja M, Ma D, Lonn E, Thabane L. **Oxidative Stress, Omega-3 fatty Acids & Cardiovascular Disease Risk in HIV-Positive Subjects**. CANFAR. Funding for 2010 \$27, 000.

Anand S (Co-Principal Investigator), Engert J (Co-Principal Investigator), Paré G (Co-Investigator). **Genome Expression Patterns for the Prediction of Atrial Fibrillation-GAPP-AF Study**. Mach-Gaensslen Foundation of Switzerland. March 2010-February 2011 \$134, 000 CAD. Funding for 2010 \$111, 667.

Anand S (Co-Principal Investigator), Engert J (Co-Principal Investigator), Paré G (Co-Investigator). **Genome Wide Association Study of Metabolic Syndrome Traits among South Asians**. Heart and Stroke Foundation of Canada, Grant NA-6913. July2010-June 2012 \$180, 000 CAD. Funding for 2010 \$45, 000.

Anand S, Gaudet D, Gerstein H, Kearney B, Yusuf S, Perusse L, McQueen M, Bosch J, Pogue J. **Epi-DREAM: Discovering environmental and genetic determinants of metabolic syndrome factors**. CIHR/Industry Partnership. (Sanofi-Aventis Global, Sanofi-Aventis Canada, GlaxoSmithKline and industry in-kind: Genome Quebec Innovation Centre) \$3, 695, 774. CIHR \$1, 650, 870. April 2007-March 2010. For 2010 \$1, 231, 925 plus \$550, 290.

Anand S (Principal Investigator), Paré G (Co-Investigator). **Understanding the determinants of adiposity among newborns in India ancestry in Canada and India**. CIHR/ICMR-Team Grant: Development Fund. July 2010-June 2011 \$10, 000 . Funding for 2010 \$5, 000.

Anand S (Principal Investigator), Paré G (Co-Investigator). **Understanding the Determinants of Adiposity Among Newborns in India Ancestry in Canada and India – South Asian birth cohort** CIHR – Indian Council of Medical Research (ICMR) Team Grant. Canadian Institutes of Health Research. October 2010-September 2015 \$486, 295 . Funding for 2010 \$24, 315.

Balion CM, Booth R, McKelvie R, Raina P, Hill S, Santaguida L, Don-Wauchope A, **Testing for BNP and NT-proBNP in the diagnosis, prognosis and treatment of heart failure, Contract, Agency for Health Care Research**. Quality (AHRQ) (formerly Agency for Health Care Policy and Research), Collab/Partnerships Research - Collaborative – General. \$509,000.00. Funding for 2010 \$100, 900.

Balion CM, Griffith L, Raina P, Strifler L, Henderson M, Patterson, C, Chambers L, Heckman G. **Is vitamin D associated with cognitive decline?** Ontario Research Coalition of Research Institutes / Centres on Health & Aging, January 2010 – December 2010, \$15,000.

Bane A, Levine M. **“Comprehensive Genomic Characterization of Basal-like Breast Cancers”**. Juravinski Cancer Centre Foundation. Funding for November 2010 \$50,000.

Chernesky M, Elit L, Lytwyn A. **Evaluation of a new APTIMA cervical specimen collection and transportation kit for the diagnosis of infectious diseases affecting women’s health (high risk HPV, Chlamydia trachomatis, Neisseria gonorrhoea, trichomonas vaginalis)**. Industry grant, Gen-probe 2010.

Research Grants-2010

Cook DJ, et al. [Warkentin TE is one of numerous Co-Applicants in this multi-centre study involving intensive care units]. **PROTECT: The PROphylaxis for ThromboEmbolism in Critical Care Trial, Canadian Institutes of Health Research, Randomized Controlled Trial.** Canadian Institute of Health Research (CIHR), September 2005-March 2011, \$4, 880, 347 (5 ½ years) [\$887, 335. 81 annually].

Co-PI's: Raina P, Ciliska D. CI's: Balion CM, Brouwers M, Brown J, Dobbins MJ, Dolovich LR, Don-Wauchope AC, Griffith LE, Haynes RB, Kirkland SA, Klassen AF, Loeb MB, MacArthur C, MacMillan HL, MacQueen GM, Mente A, Oremus M, Papaioannou A, Patterson CJ, Payette H, Pichora-Fuller MK, Ploeg J, Postuma RB, Rowe BH, Santaguida PL, Schunemann HJ, Shannon HS, Speechley M, Teo KK, Wathen CN, Wolfson CM. **McMaster Evidence and Synthesis Centre (MERSC).** Canadian Institutes of Health Research (CIHR), November 2009 – November 2014, \$3,492,354 (\$669,739 for 2010).

Crowther MA[PA]; Warkentin TE, Cook DJ, et al. **Evaluating the Incidence and Clinical Importance of Heparin-induced Thrombocytopenia in the Critically ill.** Heart & Stroke Foundation of Ontario, Operating Grant #NA6186, July 1, 2007-June 30, 2010, \$164, 818 (three years) [\$ 27, 469.67 semi-annually].

Dale SE, Yamamura D. **"Clinical and Laboratory Implications of Reduced Susceptibility to Vancomycin in *Staphylococcus aureus*."** Hamilton Health Sciences New Investigator Award. Value: \$28,000. (2010-2012).

Devereaux PJ, Alonso P, Bagshaw S, Berwanger O, Bhandari M, Bosch JJ, Buckley DN, Chan MTV, Cook DJ, Guyatt GH, McQueen MJ, Muti P, Raina P, Schunemann HJ, Thabane L, Vilar JC, Walter SD, Yusuf S. **Vascular Events In noncardiac Surgery Patients cOhort evaluation (VISION).** Study. Canadian Institutes of Health Research \$639, 517 (year \$163, 996.96) 2009-2013. For 2010 \$164, 000.

Devereaux PJ, Garg A, Bagshaw S, Clase C, Cook DJ, Gangji A, Hill S, Jacka M, McQueen MJ, Pannu N, Thabane L, Tiboni M, Walsh M. **Renal Function as a predictor of Vascular events in noncardiac Surgery patients cOhort evaluation (RE-VISION).** Canadian Institutes of Health Research \$249, 184. 2009-2012. For 2010 \$83, 061.

Don-Wauchope A (Principal Investigator), Narsinghani L (Resident Principal Investigator). **Inflammatory Changes in Adipose and Muscle Tissue in a Rat model of obesity.** Pathology and Molecular Medicine Laboratory Medicine Program. Duration of award: July 2010 – June 2011 \$ 5,994. Funding for 2010 \$2998.

Edwards L (Resident), Ross C, Krakow E, Lytwyn A, Sur M (Principal Supervisor). **Morphologic, molecular and clinical characterization of B cell lymphoma unclassifiable with features intermediate between Burkitt's Lymphoma and Diffuse Large B cell Lymphoma.** RMA scholarship award for \$7, 500 and Resident Research Grant-in-Aid for \$7, 500 2009-2010.

Research Grants-2010

Eikelboom J, Weitz J, Devereaux PJ, McQueen M, Gerstein H, Thabane L, Hill S, Kavsak P, Punthakee Z, Cook D. **Thrombotic mechanisms as predictors of Vascular events In non-cardiac Surgery patients cohort evaluation (Thrombo VISION)**. Heart and Stroke Foundation of Ontario. \$336, 517 (year 1 \$128, 934; year 2 \$130, 301; year 3 \$77, 282). July 1, 2009 to June 30, 2010. For 2010 \$130, 301.

Elavathil L, Rakovitch E. **Breast Fellowship Position for Lobular Carcinoma In Situ and Ductal Carcinoma In Situ: A Popular Based Analysis**. Institute for Clinical Evaluative Sciences 2010 (\$80, 000).

Fang Q, Provias J, Murty N, McMillan W, Farrell T, Hayward J. **Multimodality optical biopsy technology for minimally invasive demarcation of brain tumour margin in real time**. Funding Agency: OCE. 2008-2010 \$200,000. Funding for 2010 amount \$100,000.

Fang Q, Provias J, Murty N, McMillan W, Farrell T, Hayward J. **Optical spectroscopy for non-invasive real time brain tumour margin detection**. NSERC Grant. 2008-2011 \$403, 380. Funding for 2010 \$151,600.

Ghert M, Singh G, Vukmirovic-Popovic S. **Novel Tumor Cell Interactions in Bone**. Canadian Institutes of Health Research (CIHR), Research-Resubmission. January 2009-March 2010 \$315, 643. Funding for 2010 \$97, 121.

Greene S, Carvalhal A, Loufty M, Bitnun S, Brophy J, Kapirir L, Margolese S, Masinde K, Murphy K, Raboud J, Salter R, Samson L, Smaill F, Yudin M. **The psychosocial experiences and needs of HIV positive women during their first year of motherhood**. Canadian Institutes of Health Research (CIHR) 2010/02-2013/01. \$450, 000 (\$150, 000 annually).

Hayward CPM. **Canada Research Chair in Molecular Hemostasis**. Senior Tier II – CRCP 2006 - 2010 \$500,000 (2010 - \$100,000).

Hayward CPM. **Characterization of MMRN1 as a binding protein for coagulation factor V**. Canadian Institutes of Health Research. 2006-2011. \$835,241 (2010 - \$140,763).

Hayward CPM. **Development of a clinical history assessment tool for bleeding disorders**. Canadian Hemophilia Society 2009 - 2011. \$127,962.00 (2010 - \$64,106.00).

Hayward CPM. **Functions of multimerin 1 as a platelet adhesive protein**. Heart and Stroke Foundation of Ontario 2009-2011 \$160,000 (2010 - \$80,000).

Hayward CPM. **Molecular basis of profibrinolytic platelets and white blood cells in Quebec platelet disorder**. CIHR - Operating Grant 2009 – 2014 \$835,150 (2010 - \$151,898).

Hayward CPM. **Studies of novel platelet and vascular secretory proteins**. Heart and Stroke Foundation of Ontario 2010-2013 \$207,500 (2010 - \$81,500).

Research Grants-2010

Heddle N, Arnold D, Cook R, Crowther M, Eikelboom J, Warkentin T, Webert K. **Effect of transfusing fresh versus standard issue red cells on in-hospital mortality: a pilot randomized controlled trial using a pragmatic approach.** Canadian Institutes of Health Research, Operating Grant, October 2010-March 2012. (\$103,645 annually).

Heddle NM, Eyles JD, Newbold K, Webert KE (co-investigator), Arnold E, Lane S. **Pathogen Inactivation of the Blood Supply: Exploring stakeholder perceptions of a new technology.** Canadian Institutes of Health Research, Operating Grant, 2009-2011. (\$99,279 annually).

Jackson S, Brose K, Webert K, Card R, Poon M. **Multicentre Canadian Study of Prophylaxis in Older Adults with Severe Hemophilia.** Baxter-Canadian Hemophilia Epidemiological Research Program (B-CHERP) 2010 Operating Grant. (\$75,000 annually).

Kapoor A, Ingram A, Tang D, Whelan P, Salama S. **Prostate Cancer Research Foundation of Canada and Astra-Zenica to Hamilton urology associates for research co-ordinator salary.** Total funding \$150, 000.

Kavsak P (Principal Investigator). **Early Researcher Award: Earlier detection of heart attacks in the emergency room.** Ministry of Research & Innovation, Government of Ontario. Funding for 2010 \$50, 000.

Kavsak P (Co-Investigator). **Translation Research Team (Title of Proposal).** OICR High Impact Clinical Trial (HICT) Program. Funding for 2010/2011 \$250, 000.

Kavsak P (Principal Investigator), Jaffe A, You J, Oremus M, Hill S, Worster A. **IMPACT study: Identification of myocardial injury in the emergency setting using a biomarker panel and the next generation of high-sensitive cardiac troponin tests.** Canadian Institutes of Health Research (CIHR). Funding for 2010 \$ 55, 090.

Khan WI (Principal Investigator). **Endocrinological regulation of gut inflammation by serotonin.** Crohn's and Colitis Foundation of Canada (CCFC), Grant in Aid of Research. Funding for 2008-2011\$405,000 (\$135,000 annually).

Khan WI (Principal Investigator). **Infrastructure to study the interactions between immune and endocrine systems in gut in the context of intestinal pathophysiology and host defense.** Canada Foundation for Innovation (CFI), Leaders Opportunity Fund-funding for research infrastructure. Funding for 2010 \$250,341.

Khan WI (Principal Investigator). **Infrastructure to study the interactions between immune and endocrine systems in gut in the context of intestinal pathophysiology and host defense.** Ontario Ministry for Research and Innovation (MRI), MRI Small Infrastructure Grant. Funding for 2010 \$250,341.

Khan WI (Principal Investigator). **Immuno-endocrine interaction in gut: role in inflammation and host defense.** Canadian Institutes of Health Research (CIHR), New Investigator Award. Funding for 2010-2015 \$ 300,000 (\$60,000 annually).

Research Grants-2010

Khan WI (Principal Investigator). **Immuno-endocrine interaction in gut: role in inflammation and host defense**. Canadian Institutes of Health Research (CIHR), Operating grant. Funding for 2009-2014 \$ 607,095 (\$121,419 annually).

Lead: Balion CM CI's: Booth R, Don-Wauchope A, Hill S, McKelvie R, Santaguida L. **Evidence report on the testing for BNP and NT-proBNP in the diagnosis, prognosis and treatment of heart**. Agency for Healthcare Research and Quality (AHRQ) McMaster Evidence-based practice Center, September 2010 – September 2011, \$500,900. (\$100,000 for 2010).

Lead PI: Raina P; Co-PI'S: Wolfson C, Kirkland; Co-Investigators: Balion C, Béland F, Bergman H, Cappeliez P, Chambers L, Chappell N, Crossley M, Fulop T, Gagnon F, Gray-Donald K, Hogan D, McDonald L, McDowell I, McQueen M, O'Rourke N, Payette H, Penning M, Rockwood K, Shatenstein B, Simard M, Tuokko H, Wister A. **Canadian Longitudinal Study on Ageing (CLSA)**. Canadian Foundation For Innovation. From April 2009 to March 2014. \$23, 500, 000 (\$4, 700, 000 annually). For 2010 \$4, 700, 000.

Leber B, Co-Investigator Andrews DW (P.I.). “ **Interaction of Bcl-2 family apoptosis regulatory proteins with membranes**. Canadian Institute Health Research 2005-2010. \$894, 175. (2010-\$150, 000).

Lee CH. **BCX1812-303: A Phase 3, Open Label, Randomized Study of the Antiviral Activity, Safety, and Tolerability of Intravenous Peramivir in Adult and Adolescent Hospitalized Subjects with Confirmed or Suspected Influenza Infection**. BioCryst Pharmaceuticals. Funding for 2009-2010 \$30, 000.

Lee CH. **Open Label, non-comparative study of IV anidulafungin followed optionally by oral voriconazole or fluconazole for treatment of documented candidemia/candidiasis in ICU patient populations**. Pfizer. Funding for 2008-2010 \$25, 000.

Lee CH. **Prospective Observational Study of Nosocomial *Clostridium difficile* Toxin Antibody Concentrations, Incidence, and Recurrence**. Merck Frosst. Funding for 2008-2011 \$220, 000.

Lee CH. **Protocol: LCD-DR-09-03. Cubist *C. difficile* Study: A Randomized, Double-blinded, Active-controlled, Dose-ranging study of CB-183, 315 in Patients With *Clostridium difficile* Infection**. Cubist Pharmaceuticals, Inc. Funding for 2010-2011 \$60, 000.

Lee CH. **TPL108390: A Randomized, Placebo- Controlled, Multi-Centre Study to Assess the Efficacy and Safety of Eltrombopag in Thrombocytopenic Subjects with Hepatitis C Virus (HCV) infection who are otherwise eligible to initiate antiviral therapy (peginterferon alfa-2b plus ribavirin)**. GlaxoSmith Kline. Funding for 2008-2010 \$20, 000.

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Lee CH. **TPL103922: Randomized, placebo-controlled, multi-centre study to assess the efficacy and safety of eltropag in thrombocytopenic subjects with hepatitis C virus**

Levine M, Bharath V, Elavathil L. **Change in hormone receptor expression and disease-free survival in women with locally advanced breast cancer who receive neoadjuvant chemotherapy**. Funded by Mark Levine (\$20, 000).

Liang Y (Co-Principal Investigator), Eikelboom J (Co-Principal Investigator), Paré G (Co-Investigator). **Clopidogrel and Aspirin Interaction Study**. New Investigator Fund-HHSC. July 2010-June 2011 \$32, 000. Funding for 2010 \$16, 000.

Linkins LA, Bates S, Heddle NM, Lee A, Warkentin TE. **Evaluation of a Diagnostic Strategy for Patients with Suspected Heparin-induced Thrombocytopenia**. Heart & Stroke Foundation of Ontario, Operating Grant #T6763, July 1, 2009-June 30, 2011, \$119, 716 (two years) [\$59, 858 annually].

Loeb M (P.I.), Mahony J. **Infrastructure for Infectious Disease Research: From Pathogens to Populations**. Canadian Institutes of Health Research 2009-2013. \$1, 381, 315 (\$276, 263 annually).

Loeb M Principal Investigator, Co-investigators: Bramson J, Fulop T, Johnstone J, McElhaney J, McNeil S, Walter S. "Identifying Immune Biomarkers that Predict Influenza in the Nursing Home Elderly" CIHR – Operating Grant \$700, 098 November 2010-September 2013.

Loeb M Principal Investigator, Co-investigators: Harris E, Pare G, Bramson J, Mossman K, Diamond M, Xie C, Halstead S, Beatty M. **Dengue Population Genetics Program**. NIH - BAA-NIAID-DAIT-NIHAI2009061 (solicitation number), Population Genetics Analysis Program \$9,995,953US June 2010-May 2015.

Loeb M (Principal Investigator), Co-Investigators: Paré G, Branson J. **Dengue Population Genetics Program**. National Institutes of Health (USA). \$9, 999, 992 2010-2015. Funding for 2010 \$1, 999, 998 (annually).

McQueen M, Lear S, Chow C, Deighan M, Li W, Pogue J, Teo K, Vaz M, Yusuf S. **Societal and Environmental Determinants of Lipids as Risk Factors for Cardiovascular Disease in 17 countries worldwide**. Institute of Circulatory and Respiratory Health (ICRH) and Heart and Stroke Foundation on Canada (HSFC). November 2009-October 2012. \$198, 736 annually for 3 years. Total over 3 years \$450, 000. For 2010 \$150, 000.

McQueen MJ. **Local principal investigator in the evaluation of the harmonization of urine albumin measurement**. N.I.H. funding via the University of Pennsylvania, plus in-kind contributions from major diagnostic manufacture companies. 2010-2011. Local budget \$16, 000. For 2010. Zero Dollars.

McQueen MJ, Paré G, Macri J. **Clinical significance of small dense LDL and direct LDL-C measurement in the INTERHEART study**. In-kind contribution of reagents from Denka-Seiken, Japan, 2010-2011. Value \$50, 000. For 2010 \$50, 000.

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Mukherjee S, Elavathil L, Dhamanaskar K, Lovrics P, Pond G, Porter G, Levine M, Whelan T, Minuk T, Vaxxine K, Heller B, Lytwyn A, Hodgson N, Sussman J. **MRI related research, incl. survey of all breast cancer surgeons across Canada to get options on current use of breast MRI** (\$10, 000). Canadian Cancer Society Research Institute 2010 (\$10, 000).

O'Donnell M, McQueen M, Yusuf S, Oczkowski W. **INTERSTROKE: Importance of Conventional and emerging risk factors for stroke in different regions of the world and in different ethnic groups. A Pilot case-control study.** Heart and Stroke Foundation of Ontario. \$224, 320. April 2008-March 2010. For 2010 \$112, 160.

O'Donnell MD, Mente A, Chow CK, Dehghan M, Islam SM, McQueen MJ, Teo KK, Yusuf S. **Measuring Sodium Intake in Diverse Populations (PURE-SALT).** Canadian Institutes of Health Research. 2010-2013 \$321, 000 (Year 1 \$105, 000, Year2 \$107, 000, Year 3 \$109, 000). For 2010 \$105, 000.

Paré G (Principal Investigator). **Canada Research Chair in Genetic and Molecular Epidemiology (Tier 2).** Canada Research Chair. November 2009 – October 2014 \$ 500, 000. Funding for 2010 \$ 100, 000 (annually).

Paré G (Principal Investigator). **Infrastructure to support the study of genetic molecular determinants of stroke.** Ontario Research Fund, Ontario Ministry of Research and Innovation. November 2009-October 2010 \$386, 406 CAD. Funding for 2010 \$322, 005.

Paré G (Principal Investigator). **Infrastructure to Support the Study of Genetic Molecular Determinants of Stroke, Canada Foundation for Innovation.** Canada Foundation for Innovation. September 2009-August 2010 \$386, 406 CAD. Funding for 2010 \$257, 604.

Paré G (Principal Investigator). **Integration of lipoprotein(a), concentration and isoform size in relation to risk of coronary heart disease in a multi-ethnic population.** Canadian Institute of Health Research. \$ 327, 582 CAD October 2010-September 2010. Funding for 2010 \$27, 299.

Paré G (Principal Investigator). **Novel Genetic Departments of Intracerebral Hemorrhage in INTERSTROKE.** Canada Stroke Network. April 2010-March 2013 \$436, 000 CAD. Funding for 2010 \$ 109, 000.

Paré G (Principal Investigator). **Novel RNA Markers of Acute Ischemic Stroke.** New Investigator Fund, HHSC. Sept 2009-August 2010 25,000 CAD. Funding for 2010 \$16,667.

Paré G (Principal Investigator). **Start-Up Funds, McMaster University.** September 2009-August 2012 \$300, 000 CAD. Funding for 2010 \$100, 000.

Paré G (Principal Investigator). **Understanding the Contribution of Genetic Variants to Stroke Risk in a Multi-Ethnic Population: The INTERSTROKE Genetics Study.** Heart and Stroke Foundation of Ontario. Grant NA-6872. July 2010-June 2013 \$301, 279 CAD. Funding for 2010 \$50, 213.

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Paré G, Macri J, Anand S, Engert J, Koschinsky M, McQueen M, Xie C, Yusuf S. **Integration of Lipoprotein(a) concentration, genetic determinants and isoform size in assessment of risk of coronary heart disease.** Canadian Institutes of Health Research. 2010-2013 (Year 1 \$150, 000, Year 2 \$150, 000, Year 3 \$150, 000). Total over 3 years \$450, 000. For 2010 \$150, 000.

PI's: Emond M, Griffith LE, Lee JS, Perry JJ, Sirois M-J, Veillette N, Verreault R. CI's: Balion CM and 15 others. **The Canadian Emergency departments team initiative (CETI) of mobility after an injury in seniors.** Canadian Institutes of Health Research (CIHR), October 2010 – September 2016 \$1,500,000. Funding for 2010 \$121,625.

Potter MA (Principal Investigator). **PKU-015: A Phase 3b Open-Label Study to Evaluate the Effect of Kuvan™ on Neurocognitive Function, Maintenance of Blood Phenylalanine Concentrations, Safety, and Population Pharmacokinetics in Young Children with Phenylketonuria.** 2009-2017 \$34, 420/Patient over 7 years, estimated total \$175, 000 over 7 years. Funding for 2010 \$25, 000.

Potter MA, Stöver H, Chang PA. **“McMaster Therapeutic Capsule (MTC): Development of self-crosslinking polyelectrolyte-alginate microcapsules for non-autologous gene therapy of lysosomal storage disorder”.** Canadian Institutes of Health Research-Regenerative Medicine and Nanomedicine: Innovative Approaches in Health Research-Team Grant Program. 2005-2010 \$1, 178, 410 RMF 79026. Funding for 2010 \$114, 965.

Provias J, Jeynes B. **Microvasculopathy and the Pathogenesis of Alzheimer's Lesions.** From Laboratory Medicine Associates, Academic Initiatives Fund. Feb. 2007-ongoing \$26,000. Funding for 2010 \$9,000.

Provias J, Jiang S, Lo B. **Analysis of Zonal Progression of Astrocytomas.** Physicians Services Incorporated (PSI) Grant. Jan. 2008-2010/11 \$19,500. Funding for 2010 \$9,750.

Punthakee Z, Gerstein H, Devereaux PJ, McQueen MJ, Hill S. **Glucose as a predictor of Vascular In non cardiac Surgery patients cohort evaluation (GlucO VISION).** Canadian Institutes of Health Research . 2008-2011 \$213, 345 (\$71, 115 annually). For 2010 \$71, 1

Punthakee Z (Principal Investigator), Gorter JW (Principal Investigator), Don-Wauchope A (Co-Investigators). **The Utilization, utility and impact of a Transition Coordinator and the Youth Kit among adolescents with chronic health conditions as they transition to adulthood. A Pilot study.** AFP Innovation Grant, Hamilton Academic Health Sciences Organization. March 2009-Feb 2011 \$100,000. Funding for 2010 \$50, 000.

Punthakee Z, Lear S (Co-Principal Investigators), Paré G (Co-Investigator). **Overweight and obesity in Asian Indian children in India and Canada: multi-level determinants, functional consequences and novel mechanisms.** November 2010 - 2015 \$486, 500 CAD. CIHR/ICMR Team Grant on Childhood Obesity. Funding for 2010 \$16, 217.

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Raina PS (Principal Investigator), Ciliska DK (Principal Investigator), Don- Wauchope (Co-Investigator). **McMaster Evidence Review and Synthesis Centre (MERSC)**. Population and Public Health Institute of the Canadian Institute for Health Research. 2010-2015 \$3,492,354. Funding for 2010 \$698,470.

Samaan Z (Principal Investigator), Paré G (Co-Investigator). **The role of serotonin transporter and FTO genes in depression and type 2 diabetes mellitus**. Hamilton Health Sciences. July 2010-June 2011 \$50, 000 CAD. Funding for 2010 \$25, 000.

Singh G, Fahnestock M, Ghert M, Henry J, Seidlitz E, Vukmorpvc-Popovic S. **Studies to elucidate mechanism(s) of breast cancer induced bone pain**. Canadian Breast Cancer Foundation (CBCF), Research-New Project. July 2010-June 2013 \$430, 140. Funding for 2010 \$143, 380.

Smaill F. **CTN 239: A Phase II Study Testing the Activity of AGS-004 as an Immunotherapeutic in Successfully ART-Treated Subjects Infected with HIV-1 in Combination with ART Followed by ART Interruption**. Argos Therapeutics (ARGOTHERA) 2010/04-2011/03 \$10, 122.50.

Smaill F. **Case 240: Valacyclovir in delaying antiretroviral treatment (VALIDATE)**. CIHR and Canadian HIV Clinical Trials Network 2010/04-2011/03 \$3, 500.

Smieja M. **CIHR New Investigator Award**. The Canadian HIV Vascular Study 2006-2011 \$55,000 per annum.

Smieja M (P.I.), Petrich A, Mahony J. **Rapid molecular methods for Influenza**. Canadian Institutes of Health Research 2008-2011. \$522, 000 (\$130, 500 annually).

Smieja M, Lonn E, Smaill F, Rosenthal K, Thabane L, Gough K. **The Canadian HIV Vascular Study**. CIHR (\$80, 000 for 2010).

Smieja M, Petrich A (CO-P.I.) Drews S, Fox J, Hatchette T, Mahony J, Petric M, Richardson S. **Rapid Molecular Diagnostics for Influenza**. CIHR (\$174, 563 for 2010).

Smieja M, Petrich A (CO-P.I.) Drews S, Fox J, Hatchette T, Mahony J, Petric M, Richardson S. **Rapid Molecular Diagnostics for Influenza**. CIHR (\$523, 689 for 2010).

Smith E (Co-Principal Investigator), O'Donnell M (Co-Principal Investigator), Co-Investigator: Paré G. **Covert Stroke in Canada: An MRI and Outcome Assessment Study**. Canada Stroke Network. July 2010-June 2012 \$300, 000. Funding for 2010 \$75, 000.

Smith E (Co-Principal Investigator), O'Donnell M (Co-Principal Investigator), Co-Investigator: Paré G. **Covert Stroke in Canada: An MRI and Outcome Assessment Study**. Canada Stroke Network. March 2010-February 2012 \$500, 000. Funding for 2010 \$208, 333.

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Teo KK, Atkinson S, Bourgeois J, Fusch C, McDonald S, McQueen M, Morrison KM, Pogue J, Yusuf S. **Early Life Origins of Obesity and Obesity-Related Disorders-The FAMILY Cohort**. Heart and Stroke Foundation of Ontario (HSFO). July 1, 2010-June 30, 2013. \$470, 390 (Year1 \$158, 133), Year 2 \$157, 852, Year 3 \$154, 405. For 2010 \$158, 133.

Teo KK (Principal Investigator), Paré G (Co-Investigator). **Early Origins of Obesity and Co-Morbidities: The FAMILY Cohort**. Heart & Stroke Foundation of Canada. April 2010-March 2013 \$470, 390 CAD. Funding for 2010 \$117, 578.

Tinmouth A, Fergusson D, Hebert P, Mazer D, Rubens F, Shehata N, Webert K (co-investigator). **Plasma Utilization in Cardiac Surgery (PUCS): A multicentre observational Study**. Canadian Institutes of Health Research, Operating Grant, September 2009. (\$241,381 annually).

Verhovsek M, Crowther M, McFarlane A, Waiswa M. **A Modified Sickle Solubility Test for Neonatal Sickle Cell Screening in Uganda**. New Investigator Fund, Hamilton Health Sciences. \$28, 000. 2010.

Warkentin TE. **Heparin-induced Thrombocytopenia**. Heart and Stroke Foundation of Ontario, Operating Grant #T6157, July 1, 2007-June 30, 2010, \$305, 274 (three years) [\$50, 878. 99 semi-annually].

Warkentin TE. **Heparin-induced Thrombocytopenia**. Heart and Stroke Foundation of Ontario, Operating Grant #T6950, July 1, 2007-June 30, 2010, \$300, 368 (three years) [\$50, 061. 33 semi-annually].

Webert KE (Principal Investigator), Heddle NM, Chan A, Walker I, Lane S. **Understanding Health and Treatment Decision-Making Among Young People with Hemophilia: A Youth Perspective**. Care until Cure, Canadian Hemophilia Society/Wyeth, 2008-2010. (\$65,577 annually).

Whelan T, Bane A, Levine M, Hassell J. **“Clinical Significance of Breast Cancer Stem Cells”**. **Canadian Breast Cancer Foundation (CBCF)**. Funded June 2010-July 2013. Funding for 2010 \$150,000.

Yusuf S, Lonn E, Bosch J, Pogue J, Dagenais G, Leiter L, Lamy A, Gafni A, McQueen M, Tobe S, Petrella R, Suskin N. **Heart Outcome Prevention Evaluation (HOPE-3): A large simple randomized trial of combined cholesterol modification and blood pressure lowering in middle aged people at average risk**. Canadian Institutes of Health Research 2008-2014. \$5, 797, 254. April 2008-September 2015, Astra Zenica. \$33, 000, 000 over 5 years. Total grant \$38, 797, 254. For 2010 \$966, 209 plus \$5, 542, 465.

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Total Funding 2011 - \$28,160,571