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Curriculum Vitae

Eddy S. Lang MDCM CCFP(EM) CSPQ

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Spouse's Name Nathalie Lussier

<u>Children</u> Rebecca Benjamin

Naomie

Sarah-Michelle

Licensure

2010: College of Physicians and Surgeons of Alberta

2000: Certificat de Spécialisation en Médecine d'Urgence (CSPQ)

1992: Collège des Médecins du Québec (92 – 97)

Appointments & Clinical work

July 2016 - Present: Professor, Emergency Medicine, Cumming School of Medicine,

University of Calgary. AB. Canada

2016 - 2018: Faculty Tenure and Promotion Committee (FTPC) member, Cumming

School of Medicine, University of Calgary. AB. Canada

2014 - 2016: Associate Professor, Emergency Medicine, Cumming School of Medicine,

University of Calgary. AB. Canada

July 2014-

Present Clinical and Academic Department Head for Emergency Medicine.

Cumming School of Medicine. Alberta Health Services, Calgary Zone

July 2013 – July 2014: Acting Zone Clinical Department Head and Interim faculty Department

Head. Department of Emergency Medicine.

March 2010: Associate Professor, University of Calgary, Division of Emergency

Medicine, Department of Family Medicine.

November 2009: Geographic Full Time. Attending Staff, Emergency Physician.

Foothills Medical Center, Peter Lougheed Center, Rockyview General

Hospital.

October 2009: Senior Researcher - Associate Professor, Division of Emergency Medicine

University of Calgary.

July 1993 - 2009: Attending Staff, Geographic full time, Emergency Department,

Sir Mortimer B. Davis-Jewish General Hospital,

Assistant Professor, McGill University

(Application for academic promotion to associate professor approved in

2009)

2009: Team coach, manager and athlete (Masters swimming). Canadian

Delegation Maccabi Games 2009, Israel

2009: Team physician, Canadian Delegation, Maccabiah Games 2009, Israel

2008, 2009: On-site physician Camp Massad, Ste. Agathe Quebec

1992 – 1993: Pre-hospital Emergency Medicine

Urgences Santé Attending Staff 1992 – 1993:

Montreal Chest Hospital ICU and ward coverage – part time

1992 – 1993:

Mount Sinai Hospital Ward Coverage – part time

	Certification / Education
2014:	Alberta Health Services Executive Education Program. University of
	Alberta and Alberta School of Business, Executive Education.
2009:	Medical license, College of Physicians and Surgeons of Alberta.
2000:	Specialty Certification in Emergency Medicine (CSPQ)
1994:	Instructor: Advanced Cardiac Life Support
1993:	Emergency Medicine Proficiency Certificate: CCFP (EM)
1993:	Advanced Cardiac Life Support
1992:	College of Family Physicians of Canada (# 206561)
1992:	Attestation de Connaissance de Français (14 – 2494)
1992:	Pediatric Advanced Life Support
1991:	Neonatal Advanced Life Support
1988:	Advanced Trauma Life Support

Awards / Honors	
2018	Faculty Appreciation Honour Roll- Dhole Award- Class of 2019 for outstanding teaching
2017	CAEP 2017 CanVECTOR Research Abstract Award, for the abstract titled "Substantial variation in CTPE ordering patterns and diagnostic yield in a large group of specialty-trained emergency physicians."
2016	Honour Roll - Cumming School of Medicine outstanding faculty recognition
2014	AIHS Studentship Award for Drayton Trumble, first year medical student. University of Alberta, Provincial, Research
2013:	Grant Innes Research Paper and Presentation Award for the article "Identification of emergency-sensitive conditions for the calculation of an emergency care—specific in-hospital standardized mortality ratio".
2013:	Hellbender Honour Roll, University of Calgary
2012:	American Medical Writers Award. Special Recognition for the Royal College of Canada Research Guide
2009 - 2011:	"Senior Reviewer" for Annals of Emergency Medicine
2009:	Fellow of the New York Academy of Medicine

2009 - 2010: Named "Outstanding Reviewer" for Academic Emergency Medicine

2008: Second place prize: AMUQ research competition. Overcrowding and

quality of care indices for acute asthma.

2008: Alberta Heritage Foundation Medical Research Visiting Lecture Award.

2008 - 2009: Top 50 reviewers Annals of Emergency Medicine

2006: Winning proposal for Academic Emergency Medicine Consensus

Conference for 2007 on Knowledge Translation.

2006: McGill Faculty Honor List for Educational Excellence

2006: Named "Outstanding Reviewer" for Academic Emergency Medicine

2006: Best "Innovation in Emergency Medical Education" exhibit SAEM

2004: Winner of the Canadian Association of Emergency Physicians Teacher of

the Year Award.

2004: Semi-finalist, annual CPC (Clinical Pathological Conference) competition.

Society of Academic Emergency Medicine. Orlando, May 2004

(preliminaries) San Francisco, October 2004 (finals).

2002: 2nd place. Research Competition, Association des Médecins

Urgentologues de Québec meeting, Montreal.

2001: 1st place. Resident Research Competition (Dr. Eleena Pearson), McGill

University Royal College Emergency Medicine Residency Training Program: An Assessment of the Effectiveness of a Pneumococcal and Influenza Vaccination Program in a Canadian Emergency Department.

2000: Teacher of the year. McGill University Royal College Emergency Medicine

Residency Training Program.

2000: 3rd place. Resident Research Competition (Dr. Christine Meyers), McGill

University Royal College Emergency Medicine Residency Training Program: A meta-analysis of helical CT in the evaluation of emergency

department patients presenting with flank pain.

Medical Education: Undergraduate

2015: Classroom Teaching, 440, UME Lectures, Prognosis and CPG modules, exam

prep and planning committee

2012: Lecturer and module developer for Applied Evidence Based Medicine: Med 440

2012: Medical School Lecture and Module development: Clinical Practice Guidelines

2012: Supervisor for Med 6 Med 440 students.

2011: Course development committee: Applied Evidence Based Medicine: Med 440 -University of Calgary. 2011: Small group leader: Applied Evidence Based Medicine: Med 440 - University of Calgary. 2009: Unit 7 lecture (Infection and Immunology): Topic: Sepsis and Septic Shock. McGill University Course Director, Introduction to Evidence-Based Medicine: INDS 306 Critical 2004 - 2009: Appraisal and Informed Medical Practice (ICM – Second year medical students). https://home.mcgill.ca/lsl/collections/links/course/ebm/ http://www.health.library.mcgill.ca/ebm/ 2003 – 2008.: Small group leader: Unit 8 - Introduction to Clinical Epidemiology and Biostatistics. 2006 – 2008: Seminar leader "Back to Basics" lecture series. The Best of the Medical Internet for Budding Emergency Physicians. Internet Workshop, Health Sciences Library 2005 - 2009: Osler Fellow. Physicianship program McGill University. 2004 - 2006: Small group leader: Introduction to Medical Ethics. (ICM – Second year medical students). 2000 - 2003: Small group leader: Evidence-Based Emergency Medicine. (Introduction to Clinical Medicine Course - third year medical students). 1999: Student supervisor for "McGill University Medical Informatics Project". Patient simulator for status asthmaticus. http://sprojects.mmip.mcgill.ca/er/ 1998: "Communication in Clinical Medicine". Group leader for fourth year medical students. 1995: "Introduction to the Practice of Medicine". Group leader for first and second year medical students. 1995 - 1998: Faculty Lecturer: Selected Topics in Medical Science (STIMS), fourth year medical Oncological Emergencies; Best of the Internet for Medical Students;

Medical Education : Postgraduate

EBM Seminars.

2011 - 2012:	Resident Research Course 2011. PGY2 residents in adult and PEDs EM.
2011 - 2012:	Faculty mentor / supervisor: Calgary Emergency Medicine Journal Club
2011:	September. U of C Emergency Medicine Grand Rounds. Finding Your Academic MOJO: An overview of the Calgary / AHS EM Research Program
2009:	Introduction to the Clinical Pathological Conference competition in Emergency Medicine. January 2009, Royal College Emergency Medicine Rounds.

2007: Intensive EBM workshop for McGill residents in oncology and radiation oncology. 2005: Professionalism Seminar tutor. McGill University, November. Site coordinator. SMBD-Jewish General Hospital. Royal College Emergency 2002 - 2007: Medicine Reseidency Training Program. 2002 - 2007: Selection Committee Royal College Emergency Medicine Program McGill University. 2003 - 2005: Judge. Resident Research Day. Royal College Emergency Medicine Program McGill University. 1999 – 2009: Resident Supervisor for the joint FRCP and CCFP (EM) Journal Club Program. Initiator and coordinator of the new evidence-based curriculum for Journal Club. 1998 - 2004: Resident supervisor and mentor for two residents of the McGill Royal College Emergency Medicine Program. 1997: Examiner. CCFP eligibility exam, Montreal, Quebec. 1995: Individualized tutorial program for resident(s) requiring additional skill/knowledge acquisition.

Medical Education: Continuing Medical Education

2017
2012: Planning committee, track coordinator and lecturer at the E-GAPPS conference sponsored by the Guidelines International Network North America. New York Academy of Medicine, New York NY, December 10 and 11, 2012.

http://www.nyam.org/events/2012/evidence-based-guidelines-conference.html

2007-2011: Creator and lead developer Knowledge Translation track at the American College of Emergency Physician Scientific Assembly. Topics covered: Therapeutic Hypothermia in Cardiac Arrest, Primary PCI for STEMI care, Sepsis, Emergency crowding, Reducing CT utilization in Suspected PE. AHRQ / NIH funding.

2009 - 2011: Faculty Coordinator for the TEACH initiative (Teaching Evidence Assimilation for Collaborative Healthcare) New York Academy of Medicine; GRADE and Knowledge Translation tracks.

2008 – 2009: Lecturer in the Best Evidence in Emergency Medicine CME series, Silver Star, British Columbia. (evaluations available)

2003 - 2009: Lecturer in the Review of the Medical Literature Course offered by the Association de Medecins d'Urgence de Quebec and Emergency Medicine Abstracts. Mont Sainte-Anne (2003, 2005), Orford (2007), Mont Tremblant (2009). Topics: Venous Thromboembolism, Emergency Cardiology.

2004 – 2006: Organizer, bilingual Evidence-Based Medicine Workshops offered under the

auspices of the SMBD Jewish General Hospital emergency department, and

AMUQ, Montreal, Ste-Adele, Mont Tremblant.

2007 – 2009: Faculty in Workshop for Flow and Efficiency offered four times in this time window

in Calgary and Montreal

2004- 2009: Organizer, winning didactic proposal submissions for the Society of Academic

Emergency Medicine annual scientific meetings. Orlando (2004), New York (2005), San Francisco (2006) Chicago (2007) Washington (2008). Topics: Improving Journal Club, Knowledge Translation, Mastering Online Resources, Guideline Initiative in Pre-Hospital Care in the USA. (evaluations available)

2008: McGill CME Executive Committee

2008: Lecturer in McGill Rural Videoconference Series

2007-2008: Organizer of Knowledge Translation Workshops at the American

College of Emergency Physicians annual scientific meeting.

2005-2006: Lecturer in Thursday Evening Lecture Series

2003 - 2007: McGill Postgraduate Web CME committee

Research Supervision

1. Paul. A. Alexander (2015)

Medical student-Postgradute-McMaster University

Ph. D Thesis- Clinical Practice and Public Health Guidelines: The Making of Appropriate Strong Recommendations when the Confidence in Effect Estimates is Low or Very Low. Summative Assessment-external reviewer

2. Christopher Lipp (2011-2012)

Medical student – University of Calgary

Development of an Evidence Based Order Set for Acute Analgesia in the Emergency Department; a GRADE based approach.

In-press publication: A GRADE based evaluation of Analgesia for the Emergency Department – Critical Care – publication March 2013

3. Raj Dhaliwal (2011 – 2012)

Medical student – University of Calgary

Development of an Evidence Based Order Set for Acute Anti-emetics in the Emergency Department; a GRADE based approach.

In-press publication: A GRADE based evaluation of Analgesia for the Emergency Department – Critical Care – publication March 2013.

4. Dr. Simon Berthelot (2011)

MSc Candidate – Community Health Sciences, University of Calgary Development of an In-Hospital Standardized Mortality Ratio for Emergency Department Sensitive Conditions

Co-supervisor: Dr. Tom Stelfox

5. Katherine Murray

Medical student - University of Calgary

Rugby related injuries presenting for urgent and emergent care in Calgary Co-supervisors: Drs. Brent Hagel and Brain Rowe

6. Xin Feng (2011)

Medical student - University of Calgary

Analysis of the Efficacy and Epidemiology of Syncope Treatments and Outcomes in

Albertan Emergency Departments

Co-supervisor: Dr. Robert Sheldon

7. Brandon Hone (2011)

Medical student - University of Alberta

Comparison of Outcomes in Atrial Fibrillation Patients Referred to Specialized Clinics and

Routine Care from an Emergency Presentation

Co-supervisors: Drs. Russell Quinn, Anne Gillis

8. Michael Prystajecky (2011)

Medical student - University of Calgary

Emergency Room visits and Palliative Care Services: the Canary in the Coal Mine?

Co-supervisor: Dr. Bejoy Thomas

9. Puneet Kapur (2011)

Medical student – University of Calgary Health Region

A Comparison of Admission Rates from the Emergency Department for Acute Atrial Fibrillation in the United States and Canada.

Med 440 Project

10. Robert Brown (2011)

Medical student - University of Calgary

The of parenteral or inhaled Magnesium in Acute COPD exacerbations: A Systematic

Review

Med 440 Project

11. Justin Wong (2011)

Medical student - University of Calgary

Development and Impact of a Delerium Order Set for the Emergency Department.

12. Fareen Zaver

International Medical Graduate (2009 – 2010)

Matching Capacity to Demand: A Regional Dashboard Reduces Ambulance Avoidance and Improves Accessibility of Receiving Hospitals. Published in Academic Emergency Medicine 2010.

13. Marshall Ross (2010)

Medical student – University of Calgary

Systematic Review of ED Physician Performed Ultrasound for Cholelithiasis. Published 2011, Academic EM.

14. Patricia Lee (2010)

Medical student - University of Alberta

A Comprehensive Assessment of Consultation Impact on Emergency Department Crowding.

Study completed – manuscript development

15. Daniela Migliarese

Medical Student - University of Alberta

AIHS Studentship Recipient

Evaluation of outcomes in Emergency Department in patients with long bone fractures receiving analgesics after discharge

Scholarly Project Supervision

1. Shoghi Nikoo (2015-2016)

University of Calgary Medical Student

Partnership for Research and Innovation in the Health System (PRIHS) Project

2. Maude Latulippe (2009-2010)

CCFP (EM) Resident

Use of GP IIb/IIIa Inhibotors in Acute Coronary Syndromes - published

3. Erik Saude

FRCPC Resident

Misoprostol use in Threatened Miscarriage - published

4. Jason Mitchell

FRCPC Resident

Thrombolytic Therapy in Acute Stroke – published.

5. Christopher Hall

Junior Faculty

Use of MRI in Acute Stroke - published

McGill

1. Dr. Raghu Venugopal

Research Supervisor

Impact of a Flow and Efficiency Workshop at both the Postgraduate and CME levels.

Completed project with published results.

2. Dr. Abdulaziz Al-Mulaik

Research Supervisor

Knowledge Translation Applied to Improved Utilization of Cardiac Monitors in the

Emergency Deparmtent.

Ongoing.

3. Dr. Sara Kazzam

Journal Club Rotation

Octreotide in Sulfonylurea Toxicity

4. Dr. Robin Cardamore

Journal Club Rotation

Ultrasound in Pediatric blunt Trauma

5. Dr. Aref Malabray

Journal Club rotation

Can CT scan and Lumbar puncture exclude subarachnoid hemorrhage?

6. Dr. Tim Heeley-Ray

Journal Club rotation

Synthesis of Prediction Rules for Syncope

7. Dr. Julie Brahm

Journal Club Rotation

Ondansteron in Pediatric Gastroenteritis

8. Dr. Mohamed Azzam

Journal Club Rotation

Termination of Resuscitation in Out of Hospital Cardiac Arrest

9. Dr. Tim Josephson

A Comprehensive Evaluation of Patient

Perception and Satisfaction in an ED-based

Outpatient Treatment Protocol for Venous Thromboembolism.

10. Dr. Marwan Al-Raisi

Clinical Evidence Chapter: VT/VF Associated Cardiac Arrest.

11. Dr. Hugo Viladevall

Impact of CHF Clinic on ED Visits in a Tertiary Care Center.

12. Dr. Reuben Strayer

Rational Clinical Examination Series

Published submission: Acute Knee Injuries.

13. Dr. Naveed Alam

Evaluation of a dedicated teaching shift involving direct bedside observation of trainees by attending staff.

Thesis external reader:

1. Ph.D. Thesis – Paul Elias Alexander. Clinical Practice and Public Health Guidelines: The Making of Appropriate Strong Recommendations when the Confidence in Effect Estimates is Low or Very Low. McMaster University, Jan 2015.

Medical Education - Invited Presentations - Conferences

Keynote Lecture - Where's the Evidence for Evidence-Based Medicine? The
Precarious Path from Research to Practice. Myanmar-16th ASEAN Pediatric
Federation Congress 2017

21/09/2017 Workshop moderator- Making the GRADE (Grading of Recommendations Assessment, Development and Evaluation) - A practical workshop in evidence synthesis and making recommendations for any setting- Yangon children hospital, Myanmar-16th ASEAN Pediatric Federation Congress 2017

03/06/2015 Accredited Symposium at CAEP 2015: "Provocative questions in the emergency care of stroke prevention in atrial fibrillation and anticoagulation.", research, national, invited speaker

03/06/2015 Presentation at CAEP 2015 entitled: "PE in the ED: Managing the spectrum from thromboneurosis to sub-massive emboli"., professional organization, national, invited speaker

01/06/2015	Accredited Symposium at CAEP 2015: "From Challenging ECG Cases to Cutting Edge Therapies: What Emergency Physicians Need to Know about ACS in 2015", education, national, invited speaker
01/06/2015	Presentation at CAEP 2015 on Emergency Medicine administration and operational medicine: "Go Away!" Diversion Strategies and Triaging Away (Reducing ED Inflow), administration, national, invited speaker
27/05/2015	Presentation entitled: "Patient management in the world of oral anticoagulation", education, faculty, keynote speaker
24/01/2015	A potpourri of cardiology cases. Oral presentation at the 31st Annual Emergency Medicine for rural hospitals conference, University of Calgary. Banff, AB. , education, regional, invited speaker
24/10/2014	Title: « Choisir avec soin ». Quelles sont les implications pour la médecine d'urgence ? Location: 31e Congrès scientifique de médecine d'urgence – AMUQ, Montreal, QC. , education, provincial, invited speaker
Sep 2014	WHO Guideline Meeting -Paediatric Emergency Triage, Assessment and Treatment (ETAT), Geneva, Switzerland, September 30-Ocotber 02.
May 2014	DS028: Beyond Google: Information Mastery at the Point of Care in the Era of Evidence Syntheses: an E-classroom Experience. USA, Dallas
Dec 2012	Overview of GRADE methods and principles. Heart and Stroke Foundation of Canada, Toronto, Ontario.
Dec 2012	Introduction to GRADE: Outcomes, framework and methods. ILCOR Neonatal Resuscitation Conference, Washington DC.
Oct 2012	Transitioning to GRADE: ILCOR meeting involving all 6 resuscitation task forces: ALS, BLS, ACS, Neonatal/Peds, Education, Implementation, Teams
Sept 2012	GRADE workshop. Ministry of Health Working Groups. World Bank Initiative, Astana Kazakhstan.
June 2012	Coordinator and faculty in GRADE track. Putting Evidence into Practice, Edmonton, Alberta. http://www.pep.ualberta.ca/small_group.htm#GRADE Evaluations available on request.
Jan 2012	Adapting High Quality Clinical Practice Guidelines. Ministry of Health Working Groups. World Bank Initiative, Astana Kazakhstan.
Nov 2011	Association des Medecins d'Urgence de Quebec. Two presentations. "New Guidelines for Anti-thrombotic and Thrombolytic Care" and "Pearls from the Recent Medical Literature"
Oct 2011:	Knowledge Translation Workshop. Emergency Department Heads Working Group Morristown, New Jersey.
Oct 2011	Faculty and moderator for three workshops at the American College of Emergency Physicians; 3 Knowledge Translation Workshops
	1. Surviving Sepsis: Improving Care Through an Innovative Learning Workshop

	Innovative Learning Workshop 3. Stop the Madness: An Innovative Learning Workshop To Reduce Unnecessary Radiation In Suspected Pulmonary Embolism.
Sept 2011	Workshop leader: International Conference on Residency Education. Royal College of Physicians and Surgeons of Canada. Launch of the Resident Research Guide. September 2010 / 2011.
Aug 2011:	Knowledge Translation: Closing the Research to Practice Gap. Evidence Based Clinical Practice Workshop. Rio de Janeiro, Angra dos Reis, Brazil
Aug 2009-12	Faculty and Knowledge Translation Track coordinator. Teaching Evidence Assimilation for Collaborative Health. New York Academy of Medicine. New York City.
May 2011	Keynote Speaker: Canadian Health Libraries Association (CHLA) Annual Meeting. "Knowledge Translation and Patient Care" Calgary, Alberta, May 2011
June 2011	Society of Academic Emergency Medicine. Harnessing the Power of the Internet for Bedside Teaching: A Hands on and Interactive Workshop. Boston.
June 2011	Society of Academic Emergency Medicine. Panelist for didactic session: The Role of Research in Practice Change.
2010	Plenary presentation: Canadian Association of Medical Biochemists. Evidence Based Medicine: Friend or Foe of Improving Patient Care. Montreal, Quebec. October 2010.
2009	Knowledge Translation Workshop. Code STEMI: Reducing Door to Balloon Times in AMI – Regionalization and Pre-hospital Triage. ACEP Scientific Assembly, Boston October
2009	Knowledge Translation Workshop. Implementing an Over-Capacity Protocol in you Hospital. ACEP Scientific Assembly, Boston October
2009	Knowledge Translation Workshop. Implementing Sepsis Protocols in your Emergency Department ACEP Scientific Assembly, Boston October
2009	Evidence Based Clinical Practice Workshop. McMaster Universitylarge group plenary didactic, Identifying and Closing Research to Practice Gaps.
2009	Faculty: Flowthrough and Efficiency Workshop. Canadian Association of Emergency Physicians, Calgary 2009
2009	SAEM Annual Scientific Meeting. Harnessing the Power of the Medical Internet.
2009	SAEM Annual Scientific Meeting. From Evidence to EMS Practice: Building the National Model
2009	CME conference organized by Sacré-Coeur Hospital in Montreal. Diagnostic strategies in venous thromboembolism. Top 10 websites for Emergency Medicine
2009	Confirmed speaker. Best Evidence in Emergency Medicine. Silver Star Ski Resort. British Columbia January 2009

2009	Invited speaker. Revue de littérature en médecine d'urgence. Association des Medecins D'/urgence de Quebec. Mont Tremblant, Quebec. Feb 2009
2009	Invitred faculty, Medicina Baseada em Evidências workshop, Rio de Janeiro, Brazil, March 2009.
2009	Invited faculty, Workflow Efficiency Workshop, Canadian Association of Emergency Physicians Meeting, Calgary, Alberta, June 2009
2009	Invited faculty, plenary speaker, McMaster University Evidence Based Clinical Practice Workshop
2008	Practical Course in Emergency Medicine, McGill. Faculty in Flow / Efficiency Workshop, Station: The Persuasive Consultation
2008	State of the Art Evidence Based Emergency Medicine. International EM Congress. Cancun, Mexico, November, 2008.
2008	Invited, Knowledge Translation in Emergency Medicine, Delaware Valley American Academy of Emergency Medicine Meeting; Philadelphia, November 2008.
2008	Invited, Improving an Evidence-Based Medicine Journal Club; Dalhousie University Emergency Medicine Program, Halifax, Nova Scotia.
2008	Top 10 Articles to Guide Emergency Medicine Practice. Quebec Association of Emergency Physicians Annual Scientific Meeting, November 5, 2008, Quebec City.
2008	Opportunities and State of the Art in Knowledge Translation Research. Quebec Association of Emergency Physicians Annual Scientific Meeting, November 5, 2008, Quebec City.
2008	Developing a Successful Research Protocol: Insight from the CAEP Research Chair. Joint University of Montreal and Pediatric Emergency Medicine Grand Rounds
2008	Chair for workshop entitled "Code STEMI: Minimizing Door to Balloon Times Through a Knowledge Translation Workshop" featuring Peter C. Wyer, MD, FACEP; David J. Magid, MD FACEP; Ivan C. Rokos, MD, FACEP, Henry H, Ting, MD, MBA, FACC, Timothy D. Henry MD, FACC. ACEP Annual Scientific Meeting in Chicago, October 2008.
2008	Evidence-Based Medicine: Exploding Old Myths and Creating New Ones. Plenary, ACEP Annual Scientific Meeting in Chicago, October 2008.
2008	Research methods in Knowledge Translation. McGill Epidemiology Seminar, October 8, 2008
2008	Knowledge Translation: A New Paradigm? Emergency Medicine Grand Rounds, Columbia University, September 3 rd , 2008
2008	Plenary and moderator. FICEMS Conference on Practice Guidelines in EMS. Washington DC. September 4 th and 5 th , 2008.
2008	New Frontiers in EBM. New York Academy of Medicine EBM Workshop. August, 2008, New York City

2008	Educational advances for improving flow and efficiency in the Emergency Department: Insight from a multidimensional workshop. Presented with Raghu Venugopal. CAEP 2008, Ottawa.
2008	Speaker and panelist: Knowledge Translation one Year Later. Early initiatives and controversies arising from the 2007 Academic Emergency Medicine Consensus Conference on Knowledge Translation. Panel featuring Dan Mayer, Michael Brown, Nathan Kupperman and Robert Wears. SAEM, May, 2006
2008	Knowledge Translation in Emergency Medicine. Pediatric EM Fellows Conference, Marina del Ray, California
2008	Closing the gap between evidence and practice. Canadian Association of Drugs and Technology in Health, Edmonton Alberta.
2008	Alberta Foundation for Health and Medical Research, visiting lecturer award
2008	Best Evidence Emergency Medicine. Silver Star Resort, January, 2008
2008	TIAs, closing the research to practice gap. University of Toronto CME course for EM. Whistler BC.
2007	Capacity Management and Physician-Directed Streaming. Mediterranean Emergency Medicine Conference IV. Co-presented with Dr. David Eitel Sorrento, Italy; September 17 th , 2007
2007	Knowledge Translation in International Emergency Medicine. Mediterranean Emergency Medicine Conference IV. Sorrento, Italy; September 17 th , 2007
2007	Visiting Professor Department of Emergency Medicine Grand Rounds. University of Ottawa. Knowledge Translation: Closing the Research to Practice Gap. March, 2007.
2007	"4 T's for Teachers: Teaching Skills, Technology, Time Management and Taking Care of Self". McGill University Faculty Development, May 2007.
2007	Evidence-Based Medicine Workshop for Oncologists from the Middle East. One day event held in Athens, Greece and sponsored by Eli Lilly
2007	Co-chair and co-ordinator of the Society of Academic Emergency Medicine's International Consensus Conference to be held on May 15 th , 2007 in Chicago, USA. Consensus Conference theme: Knowledge Translation: Establishing a Research Agenda for Evidence Uptake in Emergency Medicine. Consensus Conference proceedings to be published in dedicated issue of Academic Emergency Medicine in November of 2007.
2006	Stratégies liées à l'application des connaissances (SLAC) : combler l'écart entre la recherche et la pratique. Workshop for the Association des Médecins Urgentologues de Quebec. October 26th and 27th, Quebec City
2006	The Best of the Medical Internet for Emergency Physicians; Workshop for the Family Medicine Forum 2006, Quebec City November 3, 2006.
2002 - 2006:	"Evidence-Based Emergency Medicine Workshop". Guest faculty, NYAM (New York Academy of Medicine), New York, NY, April 2002, April 2003, March 2004, March 2005, April 2006 and April 2007.

Humanization of Care Medical Grand Rounds - Coordinator. Inaugural event for 2000-2006 Humanization of Care Week JGH. "Evidence-Based Medicine – why all the fuss". International Conference of 2006 Emergency Medicine / Canadian Association of Emergency Physicians. Halifax, June 7th. 2005 L'Etude PEDS (Pulmonary Embolus Diagnosis Study): Résultats d'une Essai Randomisée Contrôlée comparant la Scintigraphie au Scan Hélicoïdale comme Stratégie du Départ dans l'évaluation de L'Embolie Pulmonaire Suspecte. Présentation Perfectionnement Professionnel permanent (PPP) de la Section de médecine d'urgence Université Laval. Quebec City, December 2005. 2005 Coordinator. JGH Day Royal College Emergency Medicine Program Grand Rounds. Cutting Edge and High Technology Advances in Medical Education, November. 2005 Putting Evidence into Practice. Guest faculty. University of Alberta Evidence Based Medicine Workshop, November 2005 and November 2006. 2005 "Evidence-Based Emergency Medicine". Course Director and lecturer, Joint course offered by the SMBD-Jewish General Hospital, AMUQ, McGill University, Mont Tremblant, PQ, November 2005. 2005 "Knowledge Translation and Emergency Medicine: Bridging the Gap from Evidence to Clinical Practice". SAEM, New York, 2005. Shared session with Dr. Jeremy Grimshaw and Michael Brown. http://www.saem.org/meetings/05didac.htm#gap 2005 "Referral and Follow-up of Patients Requiring Emergency Care" Thursday Evening Lecture Series. McGill University. April 2005. http://ww2.medicine.mcgill.ca/cme/php/hom.php?id=274 2005 "Making Evidence-Based Medicine Work for You". Thursday Evening Lecture Series. McGill University. November 2005. http://ww2.medicine.mcgill.ca/cme/php/hom.php?id=325 2005 "Translating Research Into Clinical Practice In The Emergency Department." Presented as a session at the International Interdisciplinary Conference on Emergencies (2005 IICE). June 2005, Montreal, Quebec. Presenter: Lang E. 2005 EBM In Questions. Presented as a session at the International Interdisciplinary Conference on Emergencies (2005 IICE). June 2005, Montreal, Quebec. Presenter: Lang E. 2000 – 2004: Faculty, Evidence-Based Clinical Practice Workshop. McMaster University, Hamilton, Ontario. Emergency Medicine and Internal Medicine Tracks, June.* 2004 Session leader: Improving Journal Club through Structured Critical Appraisal, Innovative Educational Formats and Bedside Application. SAEM, Orlando, 2004. http://www.saem.org/meetings/04didac.htm#club

2004	Coordinator. JGH Day Royal College Emergency Medicine Program Grand Rounds. Advances in Venous Thromboembolism, April
2004	Geriatric Trauma: They're not just older adults. CAEP/AMUQ joint conference, Montreal, April.
2004	L'hypothermie post-ACR: Oui ou Non? CAEP/AMUQ joint conference, Montreal, April.
2004	Evidence-Based Emergency Respiratory Care: Bridging the Gap from Evidence to Practice. McGill Health Challenge 2004. Joint conference held by the Faculties of Medicine and Management, April 2004.
2003 - 2004	"The Best of the Medical Internet for Emergency Physicians". Workshop given with Dr. Joel Turner in French at the Association des Médecins D'Urgence de Québec meeting, 2003 and in English at "A Practical Course in Emergency Medicine" – McGill Postrgraduate Education Committee and the Royal College of Emergency Medicine weekly rounds series.
2003	"Evidence-Based Emergency Medicine". Course Director and lecturer, Joint course offered by the SMBD-Jewish General Hospital, AMUQ, McGill University, Mont Tremblant, Québec, May 2003.
2003	"Evidence-Based Emergency Medicine Workshop". Guest faculty, SAEM (Society of Academic Emergency Medicine), Boston, Massacushetts, May.
2003	Emergency Medicine Abstracts Conference – Mont-Sainte-Anne. Expertise: Venous Thromboembolism
2002:	"Evidence-Based Emergency Medicine". Course Director and lecturer, Joint course offered by the SMBD-Jewish General Hospital, AMUQ, McGill University , Montreal, Québec, February 2002.
2002:	"Evidence-Based Emergency Medicine Workshop". Guest faculty, SAEM (Society of Academic Emergency Medicine), St. Louis, Missourri, May.
2001:	"Evidence-Based Emergency Medicine Workshop". Guest faculty, SAEM (Society of Academic Emergency Medicine), Atlanta, Georgia, May 2001.
2001:	"Surfing the Medical Internet: A guide for patients and their families". Humaization of Care Program; Community Lecture, SMBD-Jewish General Hospital.
2001:	"CATS and Kittens: Tools for bringing evidence to the bedside" Presented at the Royal College of Emergency Medicine Resident Rounds, SMBD-Jewish General Hospital.
2001:	Journées d'initiation en médecine basée sur les évidences et en recherche. Équipe de recherche en urgence - cité de la santé de laval. Jeudi et vendredi, 22 & 23 février. Presentations and small group tutorials.
2000:	"Evidence-Based Emergency Medicine". 17ième Congrès Scientifique Annuel. Association des Médecins d'Urgence de Québec. Palais de Congrès. Novembre.
2000:	"Thrombolyse vs. Angioplastie". 17ième Congrès Scientifique Annuel. Association des Médecins d'Urgence de Québec. Palais de Congrès. Novembre.

2000: "Implementation of a TPA protocol for Stroke". 17ième Congrès Scientifique

Annuel. Association des Médecins d'Urgence de Québec. Palais de Congrès.

Novembre.

Clinical Teaching

2009 – 2011: Clinical bedside supervision Emergency Department PLC, FMC, RGH. Calgary Health region

1993 – 2009: Clinical supervision and teaching at the SMBD Jewish General Hospital Emergency Department

2005- 2009: Consistently in the top 3 (or highest scoring) of faculty based on feedback from trainees on rotation in our emergency department

	Journals
2018	Reviewer of the Journal of Clinical Epidemiology (JCE)
2018	Reviewer of PLOS Journal
2018	Reviewer of Emergency Medicine Journal
2017	Reviewer of the Journal Healthcare Policy Journal
2017	Reviewer of BMJ Journals
2016:	Member of Editorial Advisory Board for Eurasian Journal of Emergency Medicine (EAJEM)
2015:	Reviewer for the Journal of Hospital Medicine
2015:	Reviewer for the Systematic Reviews Journal
2013:	Senior Associate Editor, Canadian Journal of Emergency Medicine
2012:	American College of Physicians Journal Club. Associate Editor
2012:	Associate Editor: American College of Physicians Journal Club / Annals of Internal Medicine
2011 - present:	Editorial board: International Journal of Emergency Medicine
2011:	Reviewer: Journal of Chronic Obstructive Pulmonary Disease
2011:	Ad Hoc reviewer: International Journal of Emergency Medicine
2009:	Ad Hoc reviewer Academic Pediatrics
2009:	Ad Hoc reviewer European Journal of Emergency Medicine
2008:	Ad Hoc reviewer for Healthcare Policy / Politiques de Santé, Longwood Publishing

2008:	Ad Hoc reviewer Critical Care
2007 - present	Healthwatch. EBM for the Public. Bi-monthly column for the Montreal Gazette, a division of CanWest Global. http://www.canada.com/montrealgazette/features/healthandfitness/healthwatch.html
2007 - 2011:	Associate Editor and Editorial Board member for Academic Emergency Medicine
2007 - 2008:	Ad hoc reviewer Journal of Quality and Safety in Healthcare (2 manuscripts)
2005 - 2009:	Associate editor and editorial board member of the Canadian Journal of Emergency Medicine Journal Club/EBM section.
2005 - 2009:	Ad hoc manuscript reviewer for the peer-reviewed journal: Canadian Medical Association Journal (CMAJ).
2004 - 2008:	Associate Editor: Primary Care Perspectives in Cardiovascular Health. A quarterly publication of TheHeart.org
2005 - 2009:	Ad hoc manuscript reviewer for the peer-reviewed journal: ACP Journal Club
2005 – 2009	Ad hoc manuscript reviewer for the peer-reviewed journal: Evidence Based Medicine
2005 – 2009	Ad hoc reviewer Annals of Emergency Medicine
2004 - 2009:	Ad hoc manuscript reviewer for the peer-reviewed journal: Canadian Journal of Emergency Medicine (CJEM).
2001 - 2009:	Research abstract reviewer, research section, Canadian Association of Emergency Physicians (CAEP) annual meeting.
2002 - 2009:	Ad hoc manuscript reviewer for the peer-reviewed journal: Academic Emergency Medicine (SAEM).
2002 - 2009:	Sentinal reader for ACP Journal Club and Evidence-based Medicine. McMaster University, Canadian Center for Health Evidence.
2002 - 2009:	Managing editor eMedicine (http://www.emedicine.com/emerg/) project; 15 chapters.
Grant Reviews	
2017	Grant Review of of the Health Services Evaluation & Interventions Research (3) (HS3) committee for the Project Grant: Fall 2017 competition. CIHR
2014:	Grant reviewer. PSI Foundation (Physicians' Services Incorporated Foundation).Ontario,
2014:	Grant reviewer, The Israel National Institute for Health Policy Research

2009 - 2011: Grant reviewer: Physicians' Services Incorporated Foundation.

2007 - 2011: Research chair and coordinator of the Research Grant Program, Canadian

Association of Emergency Physicians. Four year term. Tasks include assigning and collating reviews. 20 – 25 applications, 50+ grant reviews to

collate.

2009: Knowledge Translation Team Grant Review, CIHR and Alberta Heritage

Foundation for Medical Research

2008: Grant review, CIHR Randomized Controlled Trials

2007: External reviewer, research protocol, Canadian Heart and Stroke

Foundation

2005: External reviewer, research protocol, National Grants competition Sick Kids

Foundation.

2005: Drummond Foundation grant review.

McGill Activities 1995 - 2009:

 Lecturer in the Medico-Administrative Rotation for McGill Royal College Residency Training Program and CCFP (EM) residents in Emergency Medicine (1997 to present). Topics presented:

- Successful Discharge Planning and Emergency Department Revisits.
- Interdepartmental Protocol Development.
- Resident Supervisor/Mentor and CCFP (EM) Coordinator:
 - Monthly Journal Club Meetings/Critical Appraisal Exercise of the McGill Royal College Residency Training Program.
- Bedside Teaching.
- Lecturer in the Emergency Medicine July Lecture Series for residents of the SMBD-Jewish General Hospital:
 - "Emergency Management of Oncologic Emergencies".
- Board preparation seminar CCFP (EM) residency program. Topics Presented:
 - Orthopedic and Urologic Emergencies;
 - Environmental Emergencies;
 - · Toxicologic Emergencies;
 - Pre-exam mock orals.

Annual McGill since 2002-2009:

- Curriculum Committee: McGill University CCFP (EM) program. Dossiers:
 - Journal Club;
 - Pediatric Emergency Medicine.
- Curriculum Committee: McGill University FRCP program.
- Residency Program Committee: McGill University FRCP program.

- ACLS instructor, fourth year medical students and nursing participants, annual course.
- Lecturer of clinical emergency medicine for medical students, residents of internal medicine, family medicine and emergency medicine on clinical rotations in the department. Topics presented:
 - · Hematologic and Oncologic Emergencies;
 - Electrical Injuries;
 - Toxicology of Cardiac Medications;
 - Toxic Inhalations.

Administrative Responsibilities

- 2013 Present: Calgary Zone Emergency Department Interim Clinical and Academic Head
- 2013 Present: Member of Advisory Committee on Knowledge Engagement at University of Calgary
- 2010 2011: Alberta Health Services Emergency Clinical Network. Membership:

Core Steering Committee Performance Indicators Clinical content

2010 - 2011: Academic Steering Committee; Emergency Medicine - University of Calgary

McGill Activities

In-Hospital Protocol Development (Principal Authorship):

2008:	A Comprehensive TIA Pathway for Emergency Department Patients
2003:	SMBD-JGH Joint Emergency and Radiology Interdepartmental Policy for the Performance of Emergent Computerized Tomography during the Overnight Period.
1999:	SMBD-Jewish General Emergency Department Protocol for the Administration of Influenza and Pneumococcal Vaccines to Selected Patients.
1999:	SMBD-JGH Joint Emergency and Radiology Interdepartmental Guidelines for the Performance of Magnetic Resonance Imaging in Selected Patients.
1999:	TPA in Acute Ischemic Stroke.
1998:	Emergency Department Weight-Based Heparin Protocol.
1997:	Low Molecular Weight Heparin in Ambulatory Patients with Deep Venous Thrombosis.
1997:	Guidelines for the Ordering and Utilization of Cardiac Troponin T in the Emergency Department.
1996:	Coronary Angioplasty in Acute Myocardial Infarction.

1995: Interdepartmental Guidelines for the Management and Disposition of Patients with

Acute Musculoskeletal Injuries.

1994: Procedural Guidelines pertaining to Emergency Department patients asked to

Return for Diagnostic Imaging Studies.

1994: Guidelines for Determining the Disposition of Geriatric Patients Requiring

Hospitalization.

Continuous Quality Improvement (Ongoing Projects):

2002 - present: Chair, Emergency CQI committee.

2005: Emergency Department Patient Satisfaction Survey: Androfact.

1999: Vaccine utilization as part of the recently implemented pneumococcus and

influenza vaccination program.

1999: Door to needle time in thrombolysis.

Audits:

Return Visits within three days, primary monitor.

 Trimesterly reports to the SMBD-JGH Continuous Quality Improvement Steering Committee and the SMBD-JGH Board of Directors.

Quality Audit of Partial Thromboplastin Times in Patients receiving weight-based heparin therapy.

A report to the SMBD-JGH Committee for the Assessment of Medical Acts (CAMA).

Patient Satisfaction Questionnaire, participant.

 Implementation Committee member: SECUS, validated patient satisfaction questionnaire, Université de Montréal.

Measuring efficiency in completing diagnostic imaging for emergency department patients.

Committees:

1999 - 2006: Medical Executive Committee representative to the SMBD-Jewish General Hospital

Continuous Quality Improvement Committee.

1997 - 2004: Chairman, ED working group for the completion of the 1997 Canadian Council on

Health Services Accreditation Survey (CCAHSA).

Principal authorship of the Accreditation Standards submitted to the CCAHSA.

1997: SMBD-JGH Disciplinary Committee investigating patient complaints.

1996 - 2006: SMBD-JGH Humanization of Care Committee. Principal function: Instituting

annual Medical Grand Rounds as the inaugural event to "Humanization of Care

Week", annually since 1996.

1995: SMBD-JGH Discharge Planning Task Force.

1994: SMBD-JGH Task Force on the Care of the Frail Elderly.

Inter-Departmental Liaison:

1996 - 1999: Radiology: Performance monitoring, protocol development, troubleshooting.

Patient Relations:

1994 - 2005: Researching and responding to patient complaints as they pertain to ED evaluation and management (20 completed so far).

Consultative Roles / Expertise / Appointments	
2018	CAEP 18 Abstract Reviews Competition Member
2016:	Guidelines International Network (G-I-N) Committee Member
2016:	Voice-over slides for acute stroke on-line course.
2016:	Reviewer for O'Brien Institute for Public Health's last round of internal peer
2010.	reviewing
2015:	Recommendations editor at DynaMed.
2015:	Vice-chair of the Knowledge Mobilization Advisory Committee for TREKK
2014:	Knowledge to Action Fellowship (KTAF) program director. Program sponsored by the Section on Evidence Based Health Care, The New York Academy of Medicine and the Emergency Medicine Resident's Association.
2014:	WHO Guideline Meeting -Paediatric Emergency Triage, Assessment and Treatment (ETAT), Geneva, Switzerland.
2013 - Present	GRADE methodologist, HELPinKIDS
2013:	CanMEDS Working Group Co-Chair
2012:	ACEP Scientific Assembly. Member
2012 - Present	GRADE consultant to the International Liaison Committee on Resuscitation (ILCOR) – all task forces
2009-2012:	Technical lead / GRADE consultant National Highway Transportation Safety Agency. Three guidelines
2011 - 2012:	Planning Committee / co-applicant: Guideline International Network North America Conference Project in collaboration with the New York Academy of Medicine. e-GAPPS.
2011-2012:	Chair Canadian Association of Emergency Physicians Stroke Practice Committee: Guideline Development for Acute Stroke Care.
2011:	Guideline International Network / International Federation of Emergency Medicine collaborative initiative around Guideline Adaptation and Implementation in Sepsis
2011 – Present:	Advisory board member, PECARN (Pediatric Emergency Care Applied Research Network).

2010 - Present: GRADE working group. Teaching Evidence Assimilation for Collaborative Healthcare. Sponsored by the Section on Evidence Based Health Care. They New York Academy of Medicine. Guideline panelist American College of Chest Physicians, Antithrombotic 2009 - 2010: Guidelines – 9th edition. Chapter involvement: Stroke and DVT diagnosis. 2009: Scientific Advisory Committee: Guidelines International Network Annual Scientific Meeting, for 2010. 2009: Advisory Committee. CONCERT investigators COPD Network of Researchers. AHRQ-funded Comparative Effectiveness Research Initiative. 2008: Expert Advisory Committee. CONCERT investigators COPD Network of Researchers. Knowledge Translation Consensus Conference 2008: Steering committee, Federal Interagency Committee on Emergency Medical Services Evidence-based practice guideline project. National Highway and Transportation Safety Association, Department of Transportation, US Federal Government. Research chair, Canadian Association of Emergency Physicians. Three 2008: year term. Responsible for abstract and grant competition as well as Research Track at Annual Scientific meeting 2008: External reviewer: Randomized controlled trials, Canadian Institutes of Health Research 2008: Medicolegal expertise for Me Guy Ruel Lawyer, Quebec City. 2007: Elected chairman of the Society for Academic Emergency Medicine Evidence-Based Medicine Interest Group. Three year term. 2006: Medicolegal expertise for Tasse Barristers and Soliciters, Quebec City. 2005: External reviewer, systematic review on Emergency Crowding, Alberta Heritage Foundation for Medical Research. 2003 - present: Granted membership to the Societé des Médecins Experts de Québec. Medicolegal expertise with the Canadian Medical Protective Association 2003 - present: (CMPA) through the firm of McCarthyTétrault. 2001 - 2006: President, Examination Committee (Jury) in Emergency Medicine, College of Physicians of Quebec. Examination development and administration. 2003 - 2006: Member of the Examination Board Royal College of Physicians and Surgeons of Canada, Emergency Medicine. 2002 - 2004: Medicolegal expertise for the firms of: Prochaska, Scott & Craig, Wichita Kansas, USA The Wells Law Firm, Kansas City Missouri, USA 2001: External reviewer, research protocols, Drummond Foundation. 1999 - 2007: Medical Consultant to Conceptis Technologies Inc. Sample activities:

- a) From the ED to the Cath Lab and Beyond: Research Enhanced Clinical Management of Patients with Acute Coronary Syndromes. Online CME program.
- b) "Chest Pain in the ER" a virtual simulator CD-ROM sponsored by Merck Frosst and developed by Conceptis Technologies inc. http://www.conceptis.com/simulator/

Moderator for Medical Cybersessions

Research - Grants / Projects

Funds Requested

2018-2019

1. PROJECT A Canadian consensus-based Trauma Team

activation criteria and its impact on acute

trauma care outcomes.

INVESTIGATORS: Marcel Émond, Eddy Lang

AGENCY: CIHR

TOTAL FUNDS GRANTED \$110.000

Period 2018- 2019

Grants Obtained

2018-2019

1. PROJECT

Predicting emergency department use among

patients receiving hemodialysis care

INVESTIGATORS:

Paul Ronksley, Adeera Levin, Brenda Hemmelgarn, Braden Manns, Marcello

Tonelli, Matthew James, Pietro Ravani, Chandra Thomas, Eddy Lang

AGENCY: The Kidney Foundation of Canada

TOTAL FUNDS GRANTED \$50,000

Period 2018- 2020

2017-2018

1. PROJECT Improving Health Care Practices and

Processes Through Behavioural Change

INVESTIGATORS: Marco Bijvank, Diane Bischak, Loren

Falkenberg, Negar Ganjouhaghighi, Jo-Louise

Huq,

Mehdi Mourali, Jaana Woiceshyn;

and collaborators Michael Carter, Shelagh Coutts, Eddy Lang, Kerry McBrien, Sachin Pendharkar, Gudrun Reay, Paul Ronksley,

Stephen van Gaal, Jillian Walsh

AGENCY: HASKAYNE SCHOOL OF BUSINESS-

University of Calgary

TOTAL FUNDS GRANTED \$240,500

2. PROJECT Apixaban versus low molecular weight heparin

for treatment of catheter related thrombosis in cancer patients- A pilot study to assess feasibility of a randomized controlled trial

INVESTIGATORS: Deepa Suryanarayan, Eddy Lang

AGENCY: CRF-Seed Grant

TOTAL FUNDS GRANTED \$30.000

2016-2017

1.PROJECT:

INVESTIGATORS: A

AGENCY: PRIHS TOTAL FUNDS GRANTED: \$0

2015-2016

2.PROJECT: The Transition Navigator Trial: Evaluating a patient

navigator service to improve transition to adult health services for youth and young adults with chronic health

conditions

INVESTIGATORS: Susan Samuel, Andrew Mackie, Gina Dimitropoulos,

Alberto Nettel-Aguirre, Scott Klarenbach, Daniele Pacaud,

Eddy Lang, Gail Andrew, Greg Guilcher, Lonnie

Zwaigenbaum, Jorge Pinzon, Lorraine Hamiwka, Shannon

Scott

AGENCY: Health Outcomes Improvement Fund, Maternal Newborn,

Child and Youth Strategic Clinical Network, Alberta Health

Services (2017-2020)

TOTAL FUNDS GRANTED: \$375,000

3.PROJECT: Innovations in Transition to Adult Care: Well on Your Way

Program

INVESTIGATORS: Susan Samuel, Andrew Mackie, Gina Dimitropoulos,

Alberto Nettel-Aguirre, Scott Klarenbach, Daniele Pacaud,

Eddy Lang, Gail Andrew, Greg Guilcher, Lonnie

Zwaigenbaum, Jorge Pinzon, Lorraine Hamiwka, Shannon

Scott

AGENCY: BMO Endowed Research Award in Healthy Living, Alberta

Children's Hospital Research Institute (2017-2020)

TOTAL FUNDS GRANTED: \$350,000

4.PROJECT: The Canadian Head CT Patient Decision Aid Consensus

Study - Adaptation of two decision aids supporting adult and pediatric mild traumatic brain injury patients' decisions about head CTs: a pan-Canadian consensus meeting and rapid prototyping with input from an expert panel to produce Canadian versions of two American head CT

decision aids

INVESTIGATORS: Patrick Archambault, Isabelle Gagnon, Rob Green, Roger

Zemek, Janet Curran, Marie-Pierre Gagnon, Jocelyn Gravel, France Légaré, Marie-Christine Ouellet, Patrick Plante, Annie Leblanc, Nathalie Le Sage, Eddy Lang,

Louise Sauvé, Holly Witteman

AGENCY: Canadian Traumatic Brain Injury Research Consortium

(CTRC)

TOTAL FUNDS GRANTED: \$25,000 (2016/11 – 2018/10)

5.PROJECT: Validation of a clinical decision rule integrating the use of

biomarkers for early detection of persistent symptoms after

a MTBI

INVESTIGATORS: Le Sage N, Archambault P, Berthelot S, Chauny JM,

Clément J, De Guise E, Emond M, Frenette J, Lang E, Lee J, Mercier É, Moore L, Ouellet MC, Perry J, Cameron PA

(coll.), Swaine B (coll.)

AGENCY: CIHR

TOTAL FUNDS GRANTED: \$760,676

6.PROJECT: Coordinated Care Team for Vulnerable Patients with

Complex Care Needs

INVESTIGATORS: Fabreau G, Lang E, McBrien KA, Nguyen VT.

AGENCY: AIHS PRIHS

TOTAL FUNDS GRANTED: \$TBD

7.PROJECT: Connecting Emergency Departments with Community

services to prevent mobility losses in pre-frail & frail

Seniors (CEDeComS)

INVESTIGATORS: Emond M, Aubertin MC, Berg KO, Bissonnette L, Daoust

R, Eagles D, Elazhary N, Lang ES, Lee JS, Provencher V, Salbach N, Sirois M, Brousseau A, Carpenter CR, Costa

AP, de Wit K, Giguère A, Juneau L, Lamontagne M, Le Sage N, Melady D, Molnar FJ, Morin M, Ouellet M, Perry

JJ, Veillette N, Wilding LJ

AGENCY: CIHR
TOTAL FUNDS GRANTED: \$1,643,676

8.PROJECT: Social determinants of post-discharge readmissions,

emergency department visits, and mortality in medical

inpatients

INVESTIGATORS: Amin Ghali W, Musto R, Falvo N, Godley J, Lang ES,

Manns B, Nguyen V, Parrilla Lopez M, Rabi D, Sajobi T,

Tang K

AGENCY: CIHR - PHSI **TOTAL FUNDS GRANTED**: \$142,000

9. **PROJECT:** Pain Management from Skin-Breaking Procedures in

Neonates: Knowledge Synthesis and Practice Guidelines Shah V, Lacaze-Masmonteil T, Taddio A, Harrison D, **Lang**

ES, Ng E, Pillai Riddell R, Robson K

AGENCY: CIHR TOTAL FUNDS GRANTED: \$100,000

2014-2015

10. PROJECT: Process Improvements at Hospital Emerg

Departments.

INVESTIGATORS:

INVESTIGATORS: Marco Bijvank, Diane Bischak, Zhankun Sun and Eddy

Lang.

AGENCY: AIHŠ-PRIHS TOTAL FUNDS GRANTED: \$7,040.00

11. **PROJECT:** Reassessment of Clinical Practices for Patient Presenting

to the Emergency Department with Upper Gastrointestinal

Bleeding.

INVESTIGATORS: Lang ES, Bullard MJ, Ghosh S, Hebert MA, Innes G,

Kaplan GG, McRae AD, Novak K, Zanten SV.

AGENCY: AIHS-PRIHS TOTAL FUNDS GRANTED: \$699,000

3. PROJECT: Improving the Stewardship of Diagnostic Imaging

Resources in Alberta Emergency Departments.

INVESTIGATORS: Lang ES, McRae A, Holroyd B, Rowe B, Emery D,

Andruchow J. Bullard M. Sevick R.

AGENCY: AIHS-PRIHS
TOTAL FUNDS GRANTED: \$750.000

4. PROJECT: ACHIEVE (AmbulanCe Housed Ischemic Stroke

TrEatment with intraVEnous Thrombolysis) - Quality Improvement - Clinical Research (QuICR): Alberta Stroke

Team

INVESTIGATORS: Hill, M, Lang ES, et al.

AGENCY: QuICR CRIO

TOTAL FUNDS GRANTED: TBD

5. PROJECT: The RASET TRIAL: A Phase III, Multi-centre, Randomized

Trial to Compare Rivaroxaban with Placebo for the Treatment of Symptomatic Leg superficial Vein

Thrombosis.

INVESTIGATORS: Kearon C, Julian J, Lang ES, et al.

AGENCY: Ontario Clinical Oncology Group, Bayer Inc.

TOTAL FUNDS GRANTED: TBD

6. PROJECT: Drivers behind practice variations and barriers and

facilitator of guidelines use. Subset of study:

Reassessment of clinical practices for patients presenting to the emergency department with upper gastrointestinal

bleeding.

INVESTIGATORS: Lang ES, Nikoo S.

AGENCY: Emergency Strategic Clinical Network Summer

Studentship award - AHS

TOTAL FUNDS GRANTED: \$1400 (Summer 2015)

7. PROJECT: Understanding physician perspectives on adherence to a

clinical intervention advancing decision support tool in the

Emergency Department.

INVESTIGATORS: Lang ES, Trumble D.

AGENCY: 2015 AIHS summer studentship award

TOTAL FUNDS GRANTED: \$5600 (Summer 2015)

2013-2014

1. **PROJECT:** A Randomized, Controlled Comparison of Electrical versus

Pharmacological Cardioversion for Emergency

Department Patients with Recent-Onset Atrial Fibrillation

and Flutter (RAFF) (Not found in CIHR site)

INVESTIGATORS: Stiell I, Birnie D, Borgundvaag B, Brison R, Hohl C, Lang

E, Macle L, Perry J, Rowe B, Vadeboncoeur A, Wells G,

AGENCY: CIHR
TOTAL FUNDS GRANTED: Pending

2. **PROJECT:** D-dimer Testing, Tailored to Clinical Pretest Probability, to

Minimize Initial and Follow-up Ultrasound Testing in

Suspected Deep Vein Thrombosis: A Management Study.

The Designer D-dimer DVT Diagnosis (4D) Study.

INVESTIGATORS: Kearon C, Afilalo M, Douketis J, Kahn S, Lazo-langner A,

Rodger M, Wells P, bates S, Gafni A, Kovacs M, Le Gal G, Schulman S, Wu C, Carrier M, Julian J, Lang E, Linkins L,

Shivakumar S,

AGENCY: CIHR
TOTAL FUNDS GRANTED: \$ 424,757
AMOUNT CURRENT YEAR: \$ 220,256

3. **PROJECT**: Improving the Stewardship of Diagnostic Imaging

Resources in Alberta Emergency Departments

INVESTIGATORS: Lang E, McRae A, Holroyd B, Rowe B, Emery D,

Andruchow J, Bullard M, Sevick R

AGENCY: AIHS-PRIHS TOTAL FUNDS GRANTED: \$750,000

4. **PROJECT:** High-sensitivity troponin T: Associations with mortality and

optimal assay utilization in emergency department patients

INVESTIGATORS: McRae A, Andruchow J, Clark S, Faris, P, Graham M,

Lang E.

AGENCY: CIHR

TOTAL FUNDS GRANTED: \$ 126,466 (2013-2015)

AMOUNT CURRENT YEAR: \$84,765

5. **PROJECT:** Development and planning of a theory-based

implementation of a national wiki-based reminder system

promoting best practices in trauma care

INVESTIGATORS: Belt T, Eysenbach G, Gagnon M, Lang E, Lauzier F,

Legare F, Moore L, Risoli S, Sinuff T, Stelfox H, Turgeon

A, Witteman H

AGENCY: HSPR - CIHR

TOTAL FUNDS GRANTED: \$24,956

6. PROJECT: Needle Fears in Children undergoing Medical Procedures:

Knowledge Synthesis, Practice Guidelines, and

Dissemination Strategies.

INVESTIGATORS: Bucci L, Mcmurtry C M, Mousnanis P, Riede M, Toddio A,

Votta-Bleeker E, Chambers C, Halperin S, Ipp M, Lang E, Macdonald N, Noel M, Pillai Riddell R, Shah V, Uleryk M

AGENCY: CIHR

TOTAL FUNDS GRANTED: \$99,936

7. **PROJECT:** D-dimer testing, tailored to clinical pretest probability, to

reduce use of CT pulmonary angiography in suspected

pulmonary embolism: A management study. (PE

Graduated D-dimer [PEGeD] Study).

INVESTIGATORS: Kearon C, Afilalo M, Bates SM, Carrier M, Douketis JD,

Gafni A, Hirsch AM, Julian JA, Kahn SR, Kovacs MJ, Lang ES, Lazo-Langner A, LeGal G, Linkins LA, Rodger MA, Schulman S, Shivakumar SP, Takach LS, Wells PS, Wu

CM.

AGENCY: CIHR

TOTAL FUNDS GRANTED: \$ 329,928 **AMOUNT CURRENT YEAR**: \$ 230,507

8. PROJECT: Implementing GRADE-Based Analgesia Management

through Dedicated Emergency Department Order Sets

INVESTIGATORS: Lang ES, et al. AGENCY: AIHS-KTH

TOTAL FUNDS GRANTED: \$25,000 (2013-2014)

9. PROJECT: Empirical Validation of Emergency Department Crowding

Metrics

INVESTIGATORS: McRae A, Andruchow J, Innes G, Lang E, Rowe B, Schull

М

AGENCY: HSPR - CIHR **TOTAL FUNDS GRANTED**: \$96,353

2012-2013

1. **PROJECT:** A Multicenter prospective Cohort Study of Adverse Events

Among Patients Discharged with Sentinel Cardiovascular

Emergency Department Diagnoses

INVESTIGATORS: Calder LA, Borgundvaag B, Daoust R, Emond M, Forster

AJ, Land ES, Perry JJ, Rowe BH, Sivilotti ML, Stiell IG, Taljaard M, Thirguanasambandamoorthy V, Wells GA

AGENCY: CIHR

TOTAL FUNDS GRANTED: \$370,121 (2012-2015)

AMOUNT CURRENT YEAR: \$155,848

2. **PROJECT:** Planning the Evaluation of Medication Review in

Emergency Department Patients

INVESTIGATORS: Hohl CM, Lexchin J, Sobolev BG, Brasher P, Bryan S,

Goodland H, Green L, Lang ES, Perry JJ, Reddekopp LN,

Rowe BH, Stiell IG, Wanbon RG

AGENCY: CIHR TOTAL FUNDS GRANTED: \$24,997

3. **PROJECT:** How does Management of Chronic Obstructive Pulmonary

Disease Hospitalizations affect Paitent-centred Health

Outcomes and Cardiovascular Risk?

INVESTIGATORS: Stickland M, Leigh R, Bhutani M, Rodgers W, Wong E,

Field S, Cowie B, Edgell H, Rosychuk R, Rowe BH, Lang

E, Poulin M, Mody C,

AGENCY: AIHS CRIO TOTAL FUNDS GRANTED: \$250,000

4. PROJECT: A comparison of Electronic Health Record Use in Alberta

INVESTIGATORS: Bullard M, Ali, S, Graham T, Lang ES.

AGENCY: Canada Health Infoway TOTAL FUNDS GRANTED: \$25.000 (2012-2016)

5. PROJECT: System Transformation and Re-Engineering for Acute

Medical Services

INVESTIGATORS: Grant I, Lang ES.

AGENCY: AHFMR

TOTAL FUNDS GRANTED: \$300.000 (2012-2015)

6. PROJECT: An Analysis of Rugby Injuries Presenting for Emergency

Care.

INVESTIGATORS: Lang ES.

AGENCY: CIHR (Not found in CIHR site)

TOTAL FUNDS GRANTED: \$4 317 (2012-2013)

7. PROJECT: Use and risk factors for injury among skiers and

snowboarders

INVESTIGATORS: Hagel B, Lang ES.

AGENCY: Alberta Children's Hospital Foundation

TOTAL FUNDS GRANTED: \$49 972 (2012-2013)

8. PROJECT: Helmet use and risk factors for injury among skiers and

snowboarders

INVESTIGATORS: Hagel B, Lang ES.

AGENCY: Alberta Children's Health Research Institute

TOTAL FUNDS GRANTED: \$49 972 (2012-2014)

2011-2012

1. **PROJECT:** Risk Stratification of Adult Emergency Department

Syncope Patients to Predict Short-term Serious Adverse

Events after Discharge (RiSEDS Study)

INVESTIGATORS: Thiruganasambandamoorthy V, Lang, ES, Murray HE,

Rowe BH, Sheldon RS, Sivilotti ML, Stiell IG, Wells GA

AGENCY: CIHR

TOTAL FUNDS GRANTED: \$352 280 (2011-2013)

2. **PROJECT:** Completion of the Derivation of a Clinical Decision Rule to

Predict Mobility Decline among Independent Seniors with

Minor Injuries in the Emergency Department (Phase 1B) Daoust R, Emond M, Griffith LE, Lee JS, Perry JJ, Sirois

MJ, Verreault R, Balion CM, Lang ES, Le Sage N, Liu B,

Miran-Khan K, Moore L, Naglie G, Ouellet MC, Wilber S,

Wilding LJY, Worster A.

AGENCY: CIHR

INVESTIGATORS:

TOTAL FUNDS GRANTED: \$ 472 096 (2012-2014)

3. **PROJECT:** ED-directed Interventions to Improve Outcomes after

Asthma Exacerbations

INVESTIGATORS: Rowe BH, Bhutani M, Borgundvaag B, Lang ES, Leigh R,

Majumdar SR, McCabe C, Rosychuk RJ, Villa-Roel C.

AGENCY: CIHR

TOTAL FUNDS GRANTED: \$ 445 972

4. PROJECT: Differences in outcome for adult patients presenting with

hypoglycemia: a multicentre study

INVESTIGATORS: Rowe, B, Lang ES, et al.

AGENCY: Canadian Association of Emergency Physicians

TOTAL FUNDS GRANTED: \$11.000

5. PROJECT: Translating Emergency Knowledge for Kids (TREKK).

INVESTIGATORS: Klassen, T, Lang ES, et al.

AGENCY: Networks of Centres of Excellence (NCE)

TOTAL FUNDS GRANTED: \$1.595.000 (2011-2014)

6. PROJECT: A Study to Derive a Clinical Decision Rule to Predict Short

Term Cardiac Outcomes in Adult Syncope Patients after

ED Discharge.

INVESTIGATORS: Thiruganasambandamoorthy V, Lang ES, et al.

AGENCY: Canadian Institutes of Health Research (Not found in

CIHR site)

TOTAL FUNDS GRANTED: \$500.000 (2011-2014)

7. PROJECT: Implementation and evaluation of Electronic Clinical

Practice Guideline (eCPG) in Alberta..

INVESTIGATORS: Bullard M, Lang ES, et al.

AGENCY: Canadian Institutes of Health Research - PHSI (Not found

in CIHR site)

TOTAL FUNDS GRANTED: \$379 293 (2012-2015)

2010-2011

1. **PROJECT:** Emergency room visits and palliative care services: The

Canary in the coal mine?

INVESTIGATORS: Thomas BC, Simon J, Sinnarajah A, Hagen N, Lang E,

Carlson L, Admasu T, Bultz B.

AGENCY: Alberta Innovates Health Solutions/ Alberta Cancer

Foundation.

TOTAL FUNDS GRANTED: \$ 100 000 per year (2009-2011)

2. **PROJECT:** Determining Needs of Southern Alberta Rural

Communities for Improved Sexual Assault Services

INVESTIGATORS: Snell-Carter C, Lang E et al.

AGENCY: Alberta Rural Development Network

TOTAL FUNDS GRANTED: \$ 10 000

3. **PROJECT:** The Development of a Research Agenda in Emergency

Ultrasound (Conference Grant)

INVESTIGATORS: Lang E, McLaughlin K, McRae A AGENCY: Alberta Innovates Health Solutions

TOTAL FUNDS GRANTED: \$ 2 500

4. **PROJECT:** An Evaluation of an Atrial Fibrillation Clinic for the Follow-

up of Patients Presenting to the Emergency Department with Newly Diagnosed or Symptomatic Arrhythmia.

INVESTIGATORS: Lang E, Gillis A, Quinn R, Hone B
AGENCY: Boehringer Ingelheim (unrestricted)

TOTAL FUNDS GRANTED: \$ 5 000

5. **PROJECT:** The Canadian Emergency departments team initiative

(CETI) of mobility after an injury in seniors.

INVESTIGATORS: Emond M, Griffith LE, Lee JS, Perry JJ, Sirois MJ, Veillette

N, Verreault R, Balion CM, Daoust R, Lamontagne ME, Lang ES, Le SN, Liu B, Moore L, Morin JG, Naglie G,, Ouellet MC, Raina PS, Ryan DP, Tarride JE, Wilding LY,

Worster A.

AGENCY: CIHR

TOTAL FUNDS GRANTED: \$1,125,000 (2010-2016)

AMOUNT CURRENT YEAR: \$ 250,000

6. **PROJECT:** Efficacy and Safety Study of JNJ-32729463 Compared

With Moxifloxacin for the Treatment of Subjects Requiring

Hospitalization for Community-Acquired Bacterial

Pneumonia

INVESTIGATORS: Lang E, et al.

AGENCY: Johnson & Johnson Medical Products

TOTAL FUNDS GRANTED: \$ 15 000 (2010-2011)

6. **PROJECT:** A Phase 3b Study of Vernakalant Injection in Patients With

Recent Onset Symptomatic Atrial Fibrillation (AF) (ACT V)

INVESTIGATORS: Lang E, et al.

AGENCY: Cardiome Pharma Corp. TOTAL FUNDS GRANTED: \$ 30 000 (2010-2012)

6. **PROJECT:** Tissue Biobank Studies of the Alberta Sepsis Network

INVESTIGATORS: Lang E, et al.

AGENCY: Alberta Heritage Foundation for Medical Research

(AHFMR)

TOTAL FUNDS GRANTED: \$ 450 000 (2010-2012)

7. PROJECT: A Multifaceted Assessment of Medical Admission Units

INVESTIGATORS: Ghali W, Lang E, et al.
AGENCY: Alberta Health Services
TOTAL FUNDS GRANTED: \$ 30 000 (2011-2012)

8. **PROJECT:** Medical Assessment Units and their Impact on Emergency

Department Crowding: A Systematic Review

INVESTIGATORS: Lang E.

AGENCY: Alberta Health Services TOTAL FUNDS GRANTED: \$ 5 000 (2011-2012)

2009-2010

1. **PROJECT:** TEACH Project (Teaching Evidence Assimilation for

Collaborative Healthcare)

INVESTIGATORS: Wyer, Peter C.; LANG, Eddy S; Eskin Barnet E; Wright, S.

New York Academy of Medicine Section for Evidence-

Based Healthcare

AGENCY: AHRQ Large conference grant funding **TOTAL FUNDS GRANTED:** \$ 100 000 per year for years (2009-2011)

AMOUNT CURRENT YEAR: Favorable review June 2009 – confirmation pending

2. **PROJECT:** Prospective Evaluation of Long-term Outcomes after

Pulmonary Embolism: The ELOPE Study

INVESTIGATORS: Kahn SR, Granton JT, Hirsch AM, Aaron SD, Anderson

DR, Dennie CJ, Geerts WH, Hernandez P, Holcroft CA, Kovacs MJ, Lang ES, Mehta S, Rodger MA, Rudski LG,

Wells PS.

AGENCY: CIHR

TOTAL FUNDS GRANTED: \$ 829 330 for 3 years (2009/01 to 2012/01)

3. **PROJECT:** Achieving Knowledge Translation in Acute Coronary

Syndromes.

AGENCY: CIHR Cardiovascular System - B

TOTAL FUNDS GRANTED: \$ 100 000 per year for 2 years (2009-2010)

INVESTIGATORS: Huynh T et al. Lang E (co-investigator / KT consultant),

Afilalo M

AGENCY: Sanofi-aventis

TOTAL FUNDS GRANTED: \$409,000 for four years; 2008/10 – 2012/09

4. **PROJECT:** Safety in Home Care: Focus on Medication Management

INVESTIGATORS: Goodwin, S, Lang A, Macdonald, MT, Marck PB, Lang E AGENCY: CIHR – Partnerships for Health System Improvement

(PHSI)

TOTAL FUNDS GRANTED: \$ 299,135 for 4 years (2009-2012)

5. **PROJECT:** A Study to Develop Clinical Decision Rules for the Hospital

Admission of Patients with Acute Dyspnea.

INVESTIGATORS: Stiell I et al, Lang E (Site PI)

AGENCY: CIHR

TOTAL FUNDS GRANTED: \$ 36,000 for 3 years (2008-2009)

AMOUNT CURRENT YEAR: \$ 22,000

6. PROJECT: Selective D-Dimer Testing Compared With Uniform

D-Dimer Testing in the Diagnosis of Deep Vein

Thrombosis: A Randomized Trial.

Cline K, Kahn S, Kearon C, Lang E, Afilalo M, & Linkins L. **INVESTIGATORS:**

AGENCY: Heart and Stroke Foundation **TOTAL FUNDS GRANTED:** \$ 48,000 for 4 years (2005-2009)

7. Acute Asthma Management (MN-221) novel PROJECT:

bronchodilator

SITE INVESTIGATORS: Lang E, Afilalo M Medicinova

AGENCY:

TOTAL FUNDS GRANTED: Per patient funding

8. PROJECT: A Prospective Evaluation of the Outcomes and Quality of

Life of ED Patients with Recent-Onset Atrial Fibrilation SITE INVESTIGATORS: Stiell IG, Birnie DH, Borgundvaag B, Brison RJ, Dorian P,

Lang ES; Perry JJ, Redfearn DP, Rowe BH, Wells GA,

Wyse DG.

CIHR AGENCY:

\$ 100,000 (2009-2010) **TOTAL FUNDS GRANTED:**

2008-2009

1. PROJECT: Selective D-Dimer Testing Compared With Uniform

D-Dimer Testing in the Diagnosis of Deep Vein

Thrombosis: A Randomized Trial.

Cline K, Kahn S, Kearon C, Lang E, Afilalo M, & Linkins L. **INVESTIGATORS:**

Heart and Stroke Foundation AGENCY: \$ 48,000 for 4 years (2005-2009) **TOTAL FUNDS GRANTED:**

2. PROJECT: AMI-QUEBEC-2: Knowledge translation to reduce delays

to reperfusion therapy by primary PCI in Quebec

Huynh T et al. Lang E (co-investigator / KT consultant). **INVESTIGATORS:**

Afilalo M

AGENCY: CIHR Knowledge to Action Program

TOTAL FUNDS GRANTED: \$ 200 000 (2008-2010)

2007-2008

1. PROJECT: Knowledge Translation in Emergency Medicine. Academic

Emergency Medicine Consensus Conference

Wyer P, Lang E, Biros M. **INVESTIGATORS:**

Agency for Healthcare Research and Quality AGENCY: **TOTAL FUNDS GRANTED:** \$ 45 000 USD for 1.5 years (2007-2008)

PROJECT: Knowledge Translation in Emergency Medicine. Academic 2.

Emergency Medicine Consensus Conference

Lang E, Wyer P, Biros M. **INVESTIGATORS:**

CIHR AGENCY:

TOTAL FUNDS GRANTED: \$ 10 000 for 1.5 years (2007-2008) 3. PROJECT: Managing Patient Safety (MAPS I): Impact of Clinical,

Organizational and Patient Factors on Medical Errors and Adverse Events in the Delivery of Emergency Services.

INVESTIGATORS: Dankoff J, Afilalo M, Segal E, Lang E, Guimont C, & Soucy

N.

AGENCY: CPSI

TOTAL FUNDS GRANTED: \$ 199,710.18 for 1.5 years (2007-2008)

4. **PROJECT:** Selective D-Dimer Testing Compared With Uniform

D-Dimer Testing in the Diagnosis of Deep Vein

Thrombosis: A Randomized Trial.

INVESTIGATORS: Cline K, Kahn S, Kearon C, Lang E, Afilalo M, & Linkins L.

AGENCY: Heart and Stroke Foundation \$48,000 for 4 years (2005-2009)

2006-2007

1. **PROJECT:** Knowledge Translation in Emergency Medicine:

Establishing a research agenda and guide map for evidence uptake. Academic Emergency Medicine Consensus

Conference – Chicago IL

INVESTIGATORS: Lang E, Wyer P, Biros M. AGENCY: National Institutes of Health

TOTAL FUNDS GRANTED: \$ 10 000USD for 1.5 years (2006-2007)

2. PROJECT: Managing Patient Safety (MAPS I): Impact of Clinical,

Organizational and Patient Factors on Medical Errors and Adverse Events in the Delivery of Emergency Services.

INVESTIGATORS: Dankoff J, Afilalo M, Segal E, Lang E, Guimont C, & Soucy

N.

AGENCY: CPSI

TOTAL FUNDS GRANTED: \$ 199,710.18 for 1.5 years (2006-2007)

3. **PROJECT:** Selective D-Dimer Testing Compared With Uniform

D-Dimer Testing in the Diagnosis of Deep Vein

Thrombosis: A Randomized Trial.

INVESTIGATORS: Cline K, Kahn S, Kearon C, Lang E, Afilalo M, & Linkins L.

AGENCY: Heart and Stroke Foundation \$48,000 for 4 years (2005-2009)

2005-2006

1. **PROJECT:** Selective D-Dimer Testing Compared With Uniform

D-Dimer Testing in the Diagnosis of Deep Vein

Thrombosis: A Randomized Trial.

INVESTIGATORS: Cline K, Kahn S, Kearon C, Lang E, Afilalo M, & Linkins L.

AGENCY: Heart and Stroke Foundation \$48,000 for 4 years (2005-2009)

2. **PROJECT:** Investigation of Preventable Adverse Outcomes in the

Emergency Department.

INVESTIGATORS: Dankoff J, Afilalo M, Lang E, Guttman A, Boivin JF,

Colacone A, Soucy N, Xue X, & Léger R.

AGENCY: CMPA

TOTAL FUNDS GRANTED: \$ 50,000 for 1 year (2005-2006)

3. **PROJECT:** Antibiotics for COPD in Emergency (ACE Trial).

INVESTIGATORS: Rowe B, Aaron S, Stiell I, Johnson J, Marrie T,

Senthilselvan, & Site Investigators: (Guttman A, Afilalo M,

& Lang E).

AGENCY: CIHR (MCT 63144)

TOTAL FUNDS GRANTED: \$ 4,000 for 1 year (2005-2006)

4. **PROJECT:** Anti-Inflammatories in Relapses of Asthma (AIR/ASTHMA

Sub-Study).

INVESTIGATORS: Rowe B, & Site Investigators: (Lang E, & Afilalo M), in

collaboration with CAEP Consortium.

AGENCY: CAEP

TOTAL FUNDS GRANTED: \$ 30,625 for 1 year (2004-2005)

5. **PROJECT:** The Treatment and Outcomes of Patients Presenting With

Exacerbations of Chronic Obstructive Pulmonary Disease (COPD) to the Emergency Department (ACE Sub-Study).

INVESTIGATORS: Rowe B, & Site Investigators: (Lang E, & Afilalo M).

AGENCY: CAEP

TOTAL FUNDS GRANTED: \$ 30,000 for 1 year (2004-2005)

6. **PROJECT:** Development of a Standardized Diagnosis List for Use in

Canadian Emergency Departments.

INVESTIGATORS: Unger B, Afilalo M, Boivin JF, Guttman A, Schull M,

Bullard M, Lang E, Vandal A, Grafstein E, & Rosenthal S.

AGENCY: CIHR

Advancing Theories, Frameworks, Methods &

Measurement in Health Services Policy

TOTAL FUNDS GRANTED: \$ 149,500 for 2 years (2004-2006)

7. **PROJECT:** Clientèle, fonctionnement du département d'urgence et

intégration du réseau dans la problématique des urgences:

Analyses et études d'impact.

INVESTIGATORS: Afilalo M, Vandal A, **Lang E**, Collet JP, LeSage N, Guttman

A, Boivin JF, Rosenthal S, & Unger B.

AGENCY: FRSQ, MSSS, RRSSS

TOTAL FUNDS GRANTED: \$ 1,187,240 for 4 years (2002-2006)

8. **PROJECT:** A Cohort Study Evaluating the Safety of a Diagnostic

Strategy Involving D-Dimer and Compression

Ultrasonography in Patients With Suspected Recurrent Deep Vein Thrombosis (MDA D-Dimer/Recurrent DVT

Study).

INVESTIGATORS: Bates S, & Site Co-Investigators: (Afilalo M, Kahn S,

Blostein M, Guttman A, Hirsch A, & Lang E).

AGENCY: MRC/CIHR

TOTAL FUNDS GRANTED: \$ 8,000 for 5 years (2001-2006)

2004-2005

1. **PROJECT:** Development of a Standardized Diagnosis List for Use in

Canadian Emergency Departments.

INVESTIGATORS: Unger B, Afilalo M, Boivin JF, Guttman A, Schull M,

Bullard M, Lang E, Vandal A, Grafstein E, & Rosenthal S.

AGENCY: CIHR

Advancing Theories, Frameworks, Methods &

Measurement in Health Services Policy

TOTAL FUNDS GRANTED: \$ 149,500 for 2 years (2004-2006)

2. **PROJECT:** Clientèle, fonctionnement du département d'urgence et

intégration du réseau dans la problématique des urgences:

Analyses et études d'impact.

INVESTIGATORS: Afilalo M, Vandal A, **Lang E**, Collet JP, LeSage N, Guttman

A, Boivin JF, Rosenthal S, & Unger B.

AGENCY: FRSQ, MSSS, RRSSS

TOTAL FUNDS GRANTED: \$ 1,187,240 for 4 years (2002-2006)

3. **PROJECT:** A Cohort Study Evaluating the Safety of a Diagnostic

Strategy Involving D-Dimer and Compression

Ultrasonography in Patients With Suspected Recurrent Deep Vein Thrombosis (MDA D-Dimer/Recurrent DVT

Study).

INVESTIGATORS: Bates S, & Site Co-Investigators: (Afilalo M, Kahn S,

Blostein M, Guttman A, Hirsch A, & Lang E).

AGENCY: MRC/CIHR

TOTAL FUNDS GRANTED: \$ 8,000 for 5 years (2001-2006)

2003-2004

1. **PROJECT:** Implantation of a Vaccination Program Against Influenza

and Pneumonia for High-risk Patients Presenting to an

Emergency Department: An Evaluation Study.

INVESTIGATORS: Lang E, Afilalo M, Boivin JF, Léger R, & Colacone A. AGENCY: Direction de la santé publique de Montréal centre

TOTAL FUNDS GRANTED: \$ 15,000 for 1 year (2003)

2. **PROJECT:** Clientèle, fonctionnement du département d'urgence et

intégration du réseau dans la problématique des urgences:

Analyses et études d'impact.

INVESTIGATORS: Afilalo M, Vandal A, Lang E, Collet JP, LeSage N, Guttman

A, Boivin JF, Rosenthal S, & Unger B.

AGENCY: FRSQ, MSSS, RRSSS

TOTAL FUNDS GRANTED: \$ 1,187,240 for 4 years (2002-2006)

3. **PROJECT:** A Cohort Study Evaluating the Safety of a Diagnostic

Strategy Involving D-Dimer and Compression

Ultrasonography in Patients With Suspected Recurrent Deep Vein Thrombosis (MDA D-Dimer/Recurrent DVT

Study).

INVESTIGATORS: Bates S, & Site Co-Investigators: (Afilalo M, Kahn S,

Blostein M, Guttman A, Hirsch A, & Lang E).

AGENCY: MRC/CIHR

TOTAL FUNDS GRANTED: \$ 8,000 for 5 years (2001-2006)

4. **PROJECT:** Pulmonary Embolism Diagnosis Study (**PEDS Study**).

INVESTIGATORS: Anderson DR., Kovacs MJ, Wells PS, Rodger MA,

Kahn SR, Hirsch AM, O'Rourke K, et al., & Site

Co-Investigators: (Afilalo M, Lang E, & Guttman A).

AGENCY: CIHR

TOTAL FUNDS GRANTED: \$ 138,000 for 3 years (2001-2004)

2002-2003

1. **PROJECT:** Clientèle, fonctionnement du département d'urgence et

intégration du réseau dans la problématique des urgences:

Analyses et études d'impact.

INVESTIGATORS: Afilalo M, Vandal A, **Lang E**, Collet JP, LeSage N, Guttman

A, Boivin JF, Rosenthal S, & Unger B.

AGENCY: FRSQ, MSSS, RRSSS

TOTAL FUNDS GRANTED: \$ 1,187,240 for 4 years (2002-2006)

2. **PROJECT:** MARC 16: Community Acquired Pneumonia (CAP) in North

American Emergency Departments: Resistance and Treatment Success With Long-acting Clarithromycin

(MARC16).

INVESTIGATORS: Rowe B, CAEP Consortium, MARC 16, & Site

Co-Investigators: (Afilalo M, & Lang E).

AGENCY: Association canadienne des médecins d'urgence

TOTAL FUNDS GRANTED: \$5,000 for 1 year (2002)

3. **PROJECT:** Pulmonary Embolism Diagnosis Study (**PEDS Study**).

INVESTIGATORS: Anderson DR., Kovacs MJ, Wells PS, Rodger MA,

Kahn SR, Hirsch AM, O'Rourke K, et al., & Site

Co-Investigators: (Lang E, Afilalo M, & Guttman A).

AGENCY: CIHR

TOTAL FUNDS GRANTED: \$ 138,000 for 3 years (2001-2004)

4. **PROJECT:** The Impact of a Standardized Communication System

(SCS) Between Emergency Department and the Primary Care Network: Effects on Continuity and Quality of Care.

INVESTIGATORS: Lang E, Afilalo M, Boivin JF, , Guttman A, Colacone A,

Unger B, Tétreault M, Tremblay S, Lapierre S, Vadeboncoeur A, Hamel P, Shrier I, Moore S, Lorange M,

& Goldstein H.

AGENCY: CHSRF, FRSQ, MSSS, AMUQ, RRSSS

TOTAL FUNDS GRANTED: \$ 570,930 for 3 years (2000-2003)

2001-2002

1. **PROJECT:** A Cohort Study Evaluating the Safety of a Diagnostic

Strategy Involving D-Dimer and Compression

Ultrasonography in Patients With Suspected Recurrent Deep Vein Thrombosis (MDA D-Dimer/Recurrent DVT

Study).

INVESTIGATORS: Bates S, & Site Co-Investigators: (Afilalo M, Kahn S,

Blostein M, Guttman A, Hirsch A, & Lang E).

AGENCY: MRC/CIHR

TOTAL FUNDS GRANTED: \$ 8,000 for 5 years (2001-2006)

2. **PROJECT:** Pulmonary Embolism Diagnosis Study (**PEDS Study**).

INVESTIGATORS: Anderson DR., Kovacs MJ, Wells PS, Rodger MA,

Kahn SR, Hirsch AM, O'Rourke K, et al., & Site

Co-Investigators: (Afilalo M, Lang E, & Guttman A).

AGENCY: CIHR

TOTAL FUNDS GRANTED: \$ 138,000 for 3 years (2001-2004)

3. **PROJECT:** The Impact of a Standardized Communication System

(SCS) Between Emergency Department and the Primary Care Network: Effects on Continuity and Quality of Care.

INVESTIGATORS: Lang E, Afilalo M, Boivin JF, Guttman A, Colacone A,

Unger B, Tétreault M, Tremblay S, Lapierre S, Vadeboncoeur A, Hamel P, Shrier I, Moore S, Lorange M,

& Goldstein H.

AGENCY: CHSRF, FRSQ, MSSS, AMUQ, RRSSS

TOTAL FUNDS GRANTED: \$ 570,930 for 3 years (2000-2003)

4. **PROJECT:** Impact d'un coordonnateur des congés au département

d'urgence sur le succès des patients âgés.

INVESTIGATORS: Afilalo M, Guttman A, Guttman R, Colacone A, Lang E, &

Rosenthal S.

AGENCY: FRSQ, FASS

TOTAL FUNDS GRANTED: \$ 146,094 of \$ 456,449 recognized by FRSQ for 1 year

(2001)

2000-2001

1. **PROJECT:** The Impact of a Standardized Communication System

(SCS) Between Emergency Department and the Primary

Care Network: Effects on Continuity and Quality of Care.

INVESTIGATORS: Afilalo M, Boivin JF, Lang E, Guttman A, Colacone A,

Unger B, Tétreault M, Tremblay S, Lapierre S, Vadeboncoeur A, Hamel P, Shrier I, Moore S, Lorange M,

& Goldstein H.

AGENCY: CHSRF, FRSQ, MSSS, AMUQ, RRSSS

TOTAL FUNDS GRANTED: \$ 570,930 for 3 years (2000-2003)

2. **PROJECT:** Impact d'un coordonnateur des congés au département

d'urgence sur le succès du congé des patients âgés.

INVESTIGATORS: Afilalo M, Guttman A, Colacone A, Unger B, Lang E,

Schull M, Barnett T, & Cardin S.

AGENCY: FASS

TOTAL FUNDS GRANTED: \$ 456,449 for 2 years (1999-2001)

1999-2000

1. **PROJECT:** IMPACT Study: IMmediate Possibility to ACcess oseltamivir

Treatment.

INVESTIGATORS: Site Co-Investigators: (Afilalo M, Guttman A, & Lang E).

AGENCY: Hoffman-La Roche Ltd.

TOTAL FUNDS GRANTED: \$ 30,100 for 1 year (1999-2000)

2. **PROJECT:** An International, Multicenter, Randomized, Double-blind,

Placebo-controlled, Parallel-group Study to Assess Over 3 Months the Safety, Efficacy and Pharmaco-Economics of an 800 mg Loading Dose and Five 200 mg Maintenance Doses of GV150526 in the Treatment of Patients With a

Clinical Diagnosis of Acute Stroke.

INVESTIGATORS: Site Co-Investigators: (Minuk J, Afilalo M, & Lang E).

AGENCY: Glaxo
TOTAL FUNDS GRANTED: \$ 16,0

Glaxo Wellcome Inc.

\$ 16,000 for 1 year (1999)

3. **PROJECT:** The Effects of 2000 mg Citicoline on Clinical Outcome and

the Evolution of Lesion Volume in Human Stroke:

Randomized Placebo-controlled Trial.

INVESTIGATORS: Site Co-Investigators: (Minuk J, Afilalo M, & Lang E).

AGENCY: Interneuron Pharmaceuticals

AMOUNT: Supported by JGH ED for 1 year (1999).

4. **PROJECT:** Impact d'un coordonnateur des congés au département

d'urgence sur le succès du congé des patients âgés.

INVESTIGATORS: Afilalo M, Guttman A, Colacone A, Unger B, Lang E,

Schull M, Barnett T, & Cardin S.

AGENCY: FASS

TOTAL FUNDS GRANTED: \$ 456,449 for 2 years (1999-2001)

1998-1999

1. **PROJECT:** Qualité des soins et autres facteurs de risque de retour à

l'urgence chez les personnes âgées.

INVESTIGATORS: Pineault R, Cardin S, Afilalo M, Colacone A, Lang E,

Roberge D, & Verdon J.

AGENCY: CHSRF, FRSQ, CHUM, RRSSS, SMBD-JGH

TOTAL FUNDS GRANTED: \$ 154,400 for 1 year (1998-1999)

1992-1993

5. **PROJECT:** General support.

AGENCY: AMUQ

TOTAL FUNDS GRANTED: \$ 2,400 for 1 year (1992-1993)

6. **PROJECT:** General support. AGENCY: JGH Foundation

TOTAL FUNDS GRANTED: \$ 10,000 for 1 year (1992)

Supervised Students Awards

1. Student Awardee Name: Emily Boucher Supervisor: Dr. Eddy Lang

Project: Efficacy of calcitonin for treating acute pain associated with

osteoporotic vertebral compression fracture: an updated

systematic review

Agency: ESCN
Year: 2018
Award Amount: \$1500.00

Emergency Medicine Resident Research Projects (2001 – 2005)

1. Supervisor: Dr. E. Lang

Resident : Dr. Eleena Pearson

Project : The feasibility and impact of an ED-based vaccination program for

Influenza and Pneumococcus

Status: Complete

2. Supervisor: Dr. E. Lang, Dr. K. Martin

Resident: Dr. Christine Myers

Project: A systematic review of unenhanced helical CT in the evaluation of

renal colic

Status: Complete

3. Supervisors: Dr. E. Lang, Dr. S. Kahn

Resident: Dr. Carine Haggar

Project: Evaluation of an ED-Based Outpatient Treatment Protocol for

Venous Thromboembolism

Status: Partially completed

4. Supervisor : Dr. E. Lang, Dr. S. Kahn

Resident: Dr. Tim Josephson

Project : A comprehensive evaluation of patient perception and satisfaction

in an ED-Based Outpatient Treatment Protocol for Venous

Thromboembolism

Status: Complete

Publications in Peer-Reviewed Journals

Peer-Reviewed Publications

<u>Published</u> (organized by publication date)

- Akl EA, Welch V, Pottie K, Eslava-Schmalbach J, Darzi A, Sola I, Katikireddi SV, Singh J, Murad MH, Meerpohl J, Stanev R, Lang E, Matovinovic E, Shea B, Agoritsas T, Alexander PE, Snellman A, Brignardello-Petersen R, Gloss D, Thabane L, Shi C, Stein AT, Sharaf R, Briel M, Guyatt G, Schünemann H, Tugwell P. GRADE Equity Guidelines 2: Considering health equity in the GRADE guideline development process. J Clin Epidemiol. 2017 May 9. pii: S0895-4356(17)30470-5. doi: 10.1016/j.jclinepi.2017.01.017.
- 2. Welch VA, Akl EA, Pottie K, Ansari MT, Briel M, Christensen R, Dans A, Dans L, Eslava-Schmalbach JH, Guyatt G, Hultcrantz M, Jull J, Katikireddi SV, **Lang E**, Matovinovic E, Meerpohl JJ, Morton R, Mosdøl A, Murad MH, Petkovic J, Schünemann H, Sharaf R, Shea B, Singh JA, Solà I, Stanev R, Stein AT, Thabane L, Tonia T, Tristan M, Vitols S, Watine J, Tugwell P. GRADE Equity Guidelines 3: Health equity considerations in rating the certainty of synthesized evidence. J Clin Epidemiol. 2017 Apr 4. pii: S0895-4356(17)30340-2. doi: 10.1016/j.jclinepi.2017.01.015.
- 3. Eagles D, Perry JJ, Sirois MJ, **Lang E**, Daoust R, Lee J, Griffith L, Wilding L, Neveu X, Emond M. Timed Up and Go predicts functional decline in older patients presenting to the emergency department following minor trauma†. Age Ageing. 2017 Mar 1;46(2):214-218. doi: 10.1093/ageing/afw184.
- 4. Shannon I.A. Parker, Karen M. Benzies, K. Alix Hayden, **Eddy S. Lang**. Effectiveness of interventions for adult peripheral intravenous catheterization: A systematic review and meta-analysis of randomized controlled trials. International Emergency Nursing. Volume 31, March 2017, Pages 15-21. http://dx.doi.org/10.1016/j.ienj.2016.05.004
- 5. Daoust R, Sirois MJ, Lee JS, Perry JJ, Griffith LE, Worster A, **Lang E**, Paquet J, Chauny JM, Émond M. Painful Memories: Reliability of Pain Intensity Recall at 3 Months in Senior Patients. Pain Res Manag. 2017;2017:5983721. doi: 10.1155/2017/5983721. Epub 2017 Feb 2.

- 6. Noreen Kamal, Jessalyn K. Holodinsky, Caroline Stephenson, Devika Kashayp, Andrew M. Demchuk, Michael D. Hill, Renee L. Vilneff, Erin Bugbee, Charlotte Zerna, Nancy Newcommon, Eddy Lang, Darren Knox, Eric E. Smith. Improving Door-to-Needle Times for Acute Ischemic Stroke: Effect of Rapid Patient Registration, Moving Directly to Computed Tomography, and Giving Alteplase at the Computed Tomography Scanner. Circulation: Cardiovascular Quality and Outcomes. January 2017, Volume 10, Issue 1
- P. Daniel Patterson, J. Stephen Higgins, Eddy S. Lang, Michael S. Runyon, Laura K. Barger, Jonathan R. Studnek, Charity G. Moore, Kathy Robinson, Dia Gainor, Allison Infinger, Patricia M. Weiss, Denisse J. Sequeira, and Christian Martin-Gill. Evidence-Based Guidelines for Fatigue Risk Management in EMS: Formulating Research Questions and Selecting Outcomes. Pages 1-8 | Received 24 Jun 2016, Accepted 16 Jun 2016, Published online: 18 Nov 2016. http://dx.doi.org/10.1080/10903127.2016.1241329
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Books and Book Chapters

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- 2014: Chapter name: Vertebrobasilar Atherothrombotic Disease. EMedicine Medscape. Author: Dr, Eddy Lang, coauthors: Dr. Ryan Wilkie and Dr. Marc Afilalo, Sep 2014.
- 2011: Research Funding and Other Resources. The Royal College of Physicians and Surgeons of Canada Resident Research Guide 2011.
- 2011: Harvey BJ, Lang ES, Frank JR (Editors). The Research Guide: A Premier for Residents, other Health Care Trainees, and Practitioners. Royal College of Physicians and Surgeons of Canada. Ottawa ON, September 2011.
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- 2009: Chapter author or co-author. The Textbook of Evidence- Based Emergency Medicine. Chapters: Knowledge Translation, a Primer for Emergency Physicians (lead author), Deep Vein Thrombosis (first author) Approach to Chest Pain (co-author), Ventricular and Supraventricular Tachycardias.
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Technical Reports

 Canadian Health Services Research Foundation Research Report. The Impact of a Standardized Information System Between the Emergency Department and the Primary Care Network: Effects on Continuity and Quality of Care. Dr. Marc Afilalo, Dr. Eddy Lang, Dr. Jean François Boivin

Conference Presentations

2017

1. Eddy Lang. Choosing Wisely for Emergency Medicine: You Mean I Wasn't? Western Emergency Department Operations Conference 2017: Field of Dreams? The Precarious Path to the No Wait ED. Saskatoon, Sask. April 2017.

2016

 Ian Blanchard, Alka Patel, Dan Lane, Amy Couperthwaite, Dirk Chisholm, Dean Yergens, Diane Lorenzetti, Gerald Lazarenko, Eddy Lang, Christopher Doig, William Ghali, Alberta Health Services, University of Calgary. Systematic review of the association between EMS time factors and survival. 2017 NAEMSP.

2016

- 2. Ian E. Blanchard, Nathan Charlton, Andrew MacPherson, Howard Mell, Christine Neilson, Eddy S. Lang, David Zideman, Eunice Singletary, Alberta Health Services and University of Calgary. First aid and first responder treatment of asthmatics having difficulty breathing with bronchodilators: A systematic review using GRADE methodology. 2016 NAEMSP.
- 3. Ian E. Blanchard, Jae-Hyug Woo, Richard N. Bradley, David Lightfoot, Eddy Lang, Eunice Singletary, David Zideman, Alberta Health Services and University of Calgary. 2016 NAEMSP.
- 4. Ian E. Blanchard, Emmy De Buck, Jeff Woodin, Eddy Lang, David Zideman, Eunice Singletary, Alberta Health Services and University of Calgary. Wet vs. dry burn dressings in the first aid setting: A systematic review using GRADE methodology. 2016 NAEMSP.

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- 6. Kline JA, Lang ES, Tabas J, Kuppermann N. Knowledge Translation Workshop: Stop the Madness: Reducing Unnecessary Radiation in Pediatric, Pulmonary Embolism and Trauma Patients ACEP scientific assembly, Chicago, Oct 27 2014.
- 7. Lang E. rTPA après trois heures ? 31e Congrès scientifique de médecine d'urgence AMUQ, Montreal, QC. October 21 2014

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- 9. Pat A, Liu YS, Brown N, Ng M, Pytka S, McRae A, Lang E. The epidural blood patch is an under-utilized treatment for post-dural puncture headache in the emergency department. Oral presentation at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):33.
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- 12. Lang ES. The Troponin Confusion Update on Chest Pain Risk-Stratification Literature. Oral presentation at CAEP Annual conference, Ottawa, June 4 2014.
- 13. Lang ES. Mining for Gold instead of Scooping Poop: How to make the most of chart review and other retrospective studies. University of Saskatchewan EM research day, May 28 2014.
- 14. Lang ES, Wyer P, Brown M, Seupaul R. Beyond Google: Information Mastery at the Point of Care in the Era of Evidence Syntheses: an E-classroom Experience. SAEM 2014 Annual meeting, Dallas May 14 2014.
- 15. Lang ES. Knowledge translation. Rio de Janeiro, 2104.

- 16. Hall C, Lang E. Impact of an Emergency Department Care Coordinator on Hospital Admission and ED Utilization among seniors. ACEP annual meeting, Seattle WA, Oct 17 2013.
- 17. Lang ES. Evidence Based Clinical Practice Course Workshop. McMaster University Faculty Workshop. Hamilton ON, Jun 6 2013.
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- 27. Lang ES. Bleeding Management in the Era of Novel Oral Anticoagulants and High Sensitivity Troponin, Boon or Bonanza for EM. Rural Emergency Physician Conference. Banff AB, Jan 27 2013.
- 28. Lang ES. High-sensitivity Troponin: Highly useful of highly confusing? Rural Emergency Physician Conference, Banff AB, Jan 26 2013

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- 30. Innes GD, McRae A, Holroyd B, Rowe B, Mercuur L, Guebert N, Wang D, Scarlett J, Lang ES. Impact of a Provincial Overcapacity Protocol on Emergency Department Operations in 14 Centers.
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- 73. Lang ES, Clement CM, Brison RJ, Rowe BH, Borgundvaag B, Langhan T, Magee K, Stenstrom R, Perry JJ, Birnie D, Wells GA, Xue X, Innes G, Stiell IG. Are Emergency Physicians Initiating Long-Term Anticoaguation in Discharged Patients with Atrial Fibrillation and High CHADS Scores? Acad Emerg Med 2010;17:S467 (abstract). Presented at the Society for Academic Emergency Medicine, Phoenix, Arizona, June 2010 Presented at the Canadian Association of

- Emergency Physicians Annual Scientific Meeting, Montreal, Canada, Can J Emerg Med 2010:12(3)245 (abstract).
- 74. Stiell IG, Clement CM, Brison RJ, Rowe BH, Borgundvaag B, Langhan T, Lang E, Magee K, Stenstrom R, Perry JJ, Birnie D, Wells GA. Variation in ED Management of Recent-Onset Atrial Fibrillation and Flutter (RAFF). Acad Emerg Med 2010;17:S362 (abstract). Presented at the Society for Academic Emergency Medicine, Phoenix, Arizona, June 2010 Presented at the Canadian Association of Emergency Physicians Annual Scientific Meeting, Montreal, Canada, Can J Emerg Med 2010;12(3)242 (abstract).
- 75. Langhan T, Lang ES, Clement CM, Brison RJ, Rowe BH, Borgundvaag B, Magee K, Stenstrom R, Perry JJ, Birnie D, Wells GA, Xue X, Innes G, Stiell IG. Predictors of Hospitalization in Patients Presenting to the Emergency Department with Recent-Onset of Atrial Fibrillation. Presented at the Canadian Association of Emergency Physicians Annual Scientific Meeting, Montreal, Canada, Can J Emerg Med 2010;12(3)235 (abstract).

2006-2009

Lang E, Afilalo M, Colacone A, Guttman A, Rowe B, Willis V, Ciolofan C, Penes M. Does Emergency Department Crowding Affect the Quality of Care Provided to Patients with Acute Asthma Exacerbation?

- 76. Oral presentation at the Annual Meeting of the Society for Academic Emergency Medicine (SAEM). May 2007, Chicago, Illinois.
- 77. Oral presentation at the Canadian Association of Emergency Physicians (CAEP) 2008 Annual Scientific Meeting. June 2008. Ottawa, Ontario.
- 78. Oral presentation at L'Association des médecins d'urgence du Québec (AMUQ) Annual Conference. November 2008, Québec City, Québec. Awarded second place.

Unger B, Afilalo M, Lang E, Segal E, Colacone A, Xue X, Soucy N. Resource Utilization by the Very Elderly in the Emergence Department.

- 79. Presented as a poster at the Society for Academic Emergency Medicine (SAEM). May 2008, Washington, DC.
- 80. Presented as a poster at the Canadian Association of Emergency Physicians (CAEP) 2008 Annual Scientific Meeting. June 2008. Ottawa, Ontario.
- 81. Presented as an oral presentation at L'Association des médecins d'urgence du Québec (AMUQ) Annual Conference. November 2008, Québec City, Québec.

Unger B, Afilalo M, Lang E, Segal E, Colacone A, Xue X, Soucy N. Distribution of Chief Complaints Using the Canadian Emergency Department Information System Chief Complaint List.

- 82. Presented as a poster at the Canadian Association of Emergency Physicians (CAEP) 2008 Annual Scientific Meeting. June 2008. Ottawa, Ontario.
- 83. Oral presentation at L'Association des médecins d'urgence du Québec (AMUQ) Annual Conference. November 2008, Québec City, Québec.

Lang E, Wyer PC, Huckson S, Biros M, Adams J, Tselios C, Afilalo M, Sinert R, Gaddis G. The Development Of A Consensus-Based Guide Map For Knowledge Translation In Emergency Medicine

84. Presented at the Guidelines International Network 4th Conference. August 2007, Toronto,

Lang E, Marc Afilalo, Antoinette Colacone, Alex Guttman, Brian Rowe, Virginia Willis, and Mihai Penes. Does Emergency Department Crowding Affect the Quality of Care Provided to Patients with Acute Asthma Exacerbation?

- 85. Accepted for oral presentation at the Association des Medecins d'Urgence annual meeting in 2008
- 86. Accepted for oral presentation at the Canadian Association of Emergency Physicians meeting in 2008
- 87. Accepted for oral presentation at the Annual Meeting of the Society for Academic Emergency Medicine (SAEM). May 2007, Chicago, Illinois.

Lang E, Afilalo M, Vandal AC, Boivin JF, Xue X, Colacone A, Léger R, Shrier I, & Rosenthal S. Impact of an Electronic Link Between the Emergency Department and Family Physicians: A Randomized Controlled Trial.

88. Accepted for oral presentation at the Canadian Association for Health Services & Policy Research (CAHSPR). September 2006, Vancouver, British Colombia.

Lang E, Kovacs G, Stiell I, Afilalo M, Kahn SR, Dreyer J, Snyder B, Anderson D. Computerized Tomographic Pulmonary Angiography Compared With Ventilation Perfusion Lung Scanning as Initial Diagnostic Modality for Patients With Suspected Pulmonary Embolism: A Randomized Trial.

- 89. Accepted for oral presentation at the International Conference on Emergency Medicine (ICEM). June 2006, Halifax, Québec.
- 90. Accepted for oral presentation at the Annual Meeting of the Society for Academic Emergency Medicine (SAEM). May 2006, San Francisco, California.

Rowe BH, Tyler L, Blitz S, Mackay D, Lang E, Walker A, Ross S, Sivilotti M, Borgundvaag B. Prospective Multicenter Study of Treatment and Relapse Following Emergency Department Discharge for Acute Asthma.

- 91. Submitted to be presented at the International Conference on Emergency Medicine (ICEM). June 2006, Halifax, Québec.
- 92. Accepted for oral presentation at the Annual Meeting of the Society for Academic Emergency Medicine (SAEM). May 2006, San Francisco, California.

Afilalo M, Lang E, Tselios C, Guttman A, Colacone A, Kahn S, Hirsch A, Xue X, Pleasance S, Anderson D. Length of Stay Considerations When Selecting An Imaging Strategy for High-risk Patients With Suspected Pulmonary Embolism: An Analysis of the Pulmonary Embolism Diagnostic Study.

- 93. Accepted for oral presentation at the International Conference on Emergency Medicine (ICEM). June 2006, Halifax, Québec. (1st Author: Lang E).
- 94. Accepted for oral presentation at the Annual Meeting of the Society for Academic Emergency Medicine (SAEM). May 2006, San Fransisco, California. (1st Author: Afilalo M).

Venughopal R, Lang E, Doyle K, Sinclair D, Afilalo M, Colacone A, Xue X. A Multifaceted Workshop for Improving Productivity and Workflow Efficiency Skills in Emergency Medicine Trainees.

95. Accepted for presentation at the Annual Meeting of the Society for Academic Emergency Medicine (SAEM). May 2006, San Francisco, California.

Soucy N, Xue X, Unger B, Lang E, Colacone A, Léger R, Rosenthal S, Afilalo M. Can Emergency Department Utilization Be Predicted?

- 96. Presented at the Society for Academic Emergency Medicine (SAEM) 2005 Annual Meeting. May 2005, New York City, New York.
- 97. Presented at the Canadian Association of Emergency Physicians (CAEP) 2005 Annual Scientific Meeting. May-June 2005, Edmonton, Alberta.

Lang E, Léger R, Colacone A, Xue X, Guttman A, Pearson E, Afilalo M. Temporal Changes in Vaccine Uptake of an ED-based Pneumococcal and Influenza Vaccination Program for Unprotected High-risk Patients.

98. Presented at the Canadian Association of Emergency Physicians (CAEP) 2005 Annual Scientific Meeting. May-June 2005, Edmonton, Alberta.

Lang E, Wyer PC, Guttman A, Poitras J, Colacone A, Xue X, Hayword R, Afilalo M. The Effects of an Evidence-based Emergency Workshop on the Application of Pre-appraised Resources in Clinical Practice.

- 99. Presented at SAEM 2004 Annual Meeting. May 2004, Orlando, Florida.
- 100. Presented at CAEP & AMUQ 2004 Annual Meeting. April 2004, Montreal, Quebec.

Alam N, Lang E, Ross J, Turner J, Serero D, Colacone A, Xue X, Afilalo M. Evaluation of a Dedicated Teaching Shift Involving Direct Bedside Observation of Trainees by Attending Staff.

- 101. Presented at SAEM 2004 Annual Meeting. May 2004, Orlando, Florida.
- 102. Presented at CAEP & AMUQ 2004 Annual Meeting. April 2004, Montreal, Quebec.

Lang E, Afilalo M, Boivin JF, Léger R, Colacone A, Giguère C, Xue X, Vandal A, Rosenthal S, Unger B. Linking the Emergency Department With Primary Care Physicians: Impact on Continuity of Care. Impact d'un système de communication standardisé (SCS) entre le département d'urgence et le réseau de soins de santé primaire (RSSP) sur la continuité des soins ; Résultats d'une étude randomisée. Sir Mortimer B. Davis – Jewish General Hospital, Emergency Department, McGill University, Montreal, Quebec.

- 103. Presented at ACFAS 72nd Congress. May 2004, Montreal, Quebec.
- 104. Presented at CAEP 2003 Annual Scientific Meeting. June 2003, Winnipeg, Manitoba.
- 105. Presented at SAEM 2003 Annual Meeting. May 2003, Boston, Massachusetts.
- 106. Presented at the 19th Annual Congress of AMUQ. October 2002, Montreal, Quebec. Awarded second prize.

Afilalo M, Lang E, Boivin JF, Léger R, Colacone A, Giguère C, Xue X, Vandal A, Rosenthal S, Unger B. Do Electronic Linkages Between the Emergency Department and Primary Care Physicians Reduce Resource Utilization in the Emergency Department? Results of a Randomized Controlled Trial. Un système de communication standardisé (SCS) entre le département d'urgence (DU) et le réseau de soins de santé primaire (RSSP) apporte-t-il une diminution d'utilisation des ressources au

- DU ; Résultats d'une étude randomisée. Sir Mortimer B. Davis Jewish General Hospital, Emergency Department, McGill University, Montreal, Quebec.
- 107. Presented at CAEP 2003 Annual Scientific Meeting. June 2003, Winnipeg, Manitoba.
- 108. Presented at SAEM 2003 Annual Meeting. May 2003, Boston, Massachusetts.
- 109. Presented at the 19th Annual Congress of AMUQ. October 2002, Montreal, Quebec.

Lang E, Afilalo M, Boivin JF, Léger R, Colacone A, Giguère C, Xue X, Vandal A, Rosenthal S, Unger B. Family Physician's Perception of a Standardized Communication System (SCS) That Delivers Computer-based Emergency Department (ED) Patient Information to Their Office. *Perception qu'ont les médecins du réseau de soins de santé primaire (RSSP) vis-à-vis un système de communication standardisé (SCS) entre le département d'urgence (DU) et le RSSP.* Sir Mortimer B. Davis – Jewish General Hospital, Emergency Department, McGill University, Montreal, Quebec.

- 110. Presented at CAEP 2003 Annual Scientific Meeting. June 2003, Winnipeg, Manitoba.
- 111. Presented at the 19th Annual Congress of AMUQ. October 2002, Montreal, Quebec.

Meyers C, Lang E, Martin J, Dankoff J, Moore S, Afilalo M. Diagnostic Accuracy of Helical Computed Tomography in the Diagnosis of Renal Colic in the Emergency Department: A Meta-analysis. Sir Mortimer B. Davis - Jewish General Hospital, Emergency Department, McGill University, Montreal, Quebec. Canadian Journal of Emergency Medicine. March 2002; 4(2): 126.

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Pearson E, Lang E, Colacone A, Goulet M, Rahmani S, Virgona M, Trudel N, Afilalo M. Successful Implementation of a Combined Pneumococcal and Influenza Vaccination Program in a Canadian Emergency Department. *Implantation réussie d'un programme de vaccination antigrippale et antipneumococcique dans un département d'urgence canadien.* Sir Mortimer B. Davis - Jewish General Hospital, Emergency Department, McGill University, Montreal, Quebec. Canadian Journal of Emergency Medicine, March 2002; 4(2): 125.

- 113. Presented at the 19th Annual Congress of AMUQ. October 2002, Montreal, Quebec.
- 114. Presented at SAEM 2002 Annual Meeting. May 2002, St-Louis, Missouri.
- 115. Presented at CAEP 2002 Annual Scientific Meeting. April 2002, Hamilton, Ontario.

Lang E, Kahn SR, Josephson T, Tselios C, Colacone A, Pike J, Robitaille Ch, Goulet M, Afilalo M. An Emergency Department-based Outpatient Treatment Program for Deep Vein Thrombosis: A Prospective Evaluation of Safety and Patient Satisfaction. *Protocole de traitement hors-hospitalier de la thrombophlébite profonde basée à l'urgence : Une évaluation prospective des aspects sécuritaires et de la satisfaction des patients*. Sir Mortimer B. Davis – Jewish General Hospital, Emergency Department, McGill University, Montreal, Quebec. Canadian Journal of Emergency Medicine, March 2002; 4(2): 135.

- 116. Presented at SAEM 2002 Annual Meeting. May 2002, St-Louis, Missouri.
- 117. Presented at CAEP 2002 Annual Scientific Meeting. April 2002, Hamilton, Ontario.
- 118. Presented at the 18th Annual Congress of AMUQ. October 2001, Quebec City, Quebec.

Afilalo M, Lang E, Colacone A, Boivin JF, Robitaille Ch, Rosenthal S, Unger B, Goldstein H, Rouleau Y, Tremblay S, Léger R, Tselios C. *Impact d'un système de communication standardisée entre les*

départements d'urgence et le réseau de soins de santé primaire ; Effet sur la continuité et la qualité des soins.

119. Presented at the 18th Annual Congress of AMUQ. October 2001, Quebec City, Quebec.

Guttman A, Guttman R, Colacone A, Robitaille C, Lang E, Rosenthal S, Afilalo M. The Impact of a Nurse Discharge Coordinator on the Successful Discharge of Elder Patients From the Emergency Department. *Impact d'une infirmière coordinatrice des congés au département d'urgence (DU) sur le succès des congés des patients âgés.* Sir Mortimer B. Davis - Jewish General Hospital, Emergency Department, McGill University, Montreal, Quebec. Journal of Emergency Medicine, April 2001; 3(2): 121-122.

- 120. Presented at the Health Transition Fund, Sharing and Learning. April 2001, Montreal, Quebec.
- 121. Presented at the CAEP 2001 Congress. March 2001, Calgary, Alberta.
- 122. Presented at the SAEM 2001 Congress. 2001, Atlanta, Georgia.
- 123. Presented at the Carrefour de l'innovation. November 2001, Montreal, Quebec.
- 124. Presented at the 2001 Annual Congress of the OIIQ. October 2001, Quebec City, Quebec.
- 125. Presented at the 18th Annual Congress of AMUQ. October 2001, Quebec City, Quebec. Awarded second prize.

Afilalo M, Lang E, Boivin JF, Colacone A, Robitaille C, Rosenthal S, Unger B, Goldstein H, Rouleau Y, Tremblay S, Léger R, Tselios C. Communicating Clinical Information Between the Emergency Department and Family Physicians: A Qualitative Analysis of Current Practices and Suggestions for Improvement. Sir Mortimer B. Davis - Jewish General Hospital, Emergency Department, McGill University, Montreal, Quebec. Canadian Journal of Emergency Medicine, April 2001; 3(2): 146.

126. Presented at the CAEP 2001 Congress. March 2001, Calgary, Alberta.

Afilalo M, Unger B, Colacone A, Boivin JF, Lang E, Guttman A, Robitaille C, Léger R, Stiell I, Rosenthal S, Sheridan M, Tselios C. Development and Evaluation of a Chief Complaint Classification System for Comparing Emergency Department Clienteles. *Évaluation d'un système de classification des motifs de visite pour la comparaison des clientèles des départements d'urgence*. Sir Mortimer B. Davis - Jewish General Hospital, Emergency Department, McGill University, Montreal, Quebec. Canadian Journal of Emergency Medicine, April 2001; 3(2): 121.

- 127. Presented at the CAEP 2001 Congress. March 2001, Calgary, Alberta.
- 128. Presented at the 18th Annual Congress of AMUQ. October 2001, Montreal, Quebec. Awarded second prize.

Afilalo M, Cardin S, Colacone A, Collet JP, Tselios C, Lang E, Kohn R, Grad W, Schull M, Guttman A, Dankoff J. Intervention to Decrease Emergency Department Overcrowding: Impact on Emergency Department Return Visits and Hospital Readmissions. Sir Mortimer B. Davis - Jewish General Hospital, Emergency Department, McGill University, Montreal, Quebec.

- 129. Presented at the 2000 International Congress of Emergency Medicine. May 2000, Boston, Massachusetts.
- 130. Presented at the CAEP & AMUQ 1999 Congress. October 1999, Quebec City, Quebec.

Lang E, Afilalo M, Colacone A, Dankoff J, Cardin S, Tselios C, Grad W, Kohn R, Schull M. A Comprehensive Assessment of Avoidability in a Population of Emergency Department Revisiters. Sir Mortimer B. Davis - Jewish General Hospital, Emergency Department, McGill University, Montreal, Quebec.

- 131. Presented at the 2000 International Congress of Emergency Medicine. May 2000, Boston, Massachusetts.
- 132. Presented at the CAEP & AMUQ 1999 Congress. October 1999, Quebec City, Quebec.

Lang E, Afilalo M, Dankoff J, Guttman A, Colacone A, Stern E, Tselios C. The Prognostic Significance of Moderate Hyperamylasemia in the Evaluation of the Emergency Department Patient. Clinical and Investigative Medicine, 1993; 16(4): B41.

133. Presented at the 1993 Annual Meeting of the Royal College of Physician and Surgeons of Canada. 1993, Vancouver, BC.

Conference Publications

2018

 Pain Management Strategies for Lumbar Puncture in Neonates: A Systematic Review", has been accepted for the Pediatric Academic Societies (PAS) 2018 Meeting, May 5 - 8, in Toronto, Canada.

- Cross E, Bhutani M, Majumdar SR, Rosychuk RJ, McCabe C, Lang E, Leigh R, Villa-Roel C, Rowe BH. Action plans in patients presenting to emergency departments with asthma exacerbations. Poster presented at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):105.
- 2. Brown N, Ng M, Lang E, Pytka S, Pat A, Liu YS, McRae A. Lumbar puncture practices by emergency physicians: a multicenter study. Poster presented at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):98.
- 3. Jones S, Bastian J, Wang D, McRae A, Lang E. The use of electronic health records for emergency department quality improvement evaluations in Calgary. Poster presented at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):94.
- 4. Innes G, Lang E, Wang D, McRae A. Region-wide variability of operational performance and utilization behaviour for emergency physicians. Poster presented at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):93.
- 5. Innes G, McRae A, Wang D, Lang E. Impact of a new ED on regional ED and urgent care utilization and wait times (Build it and they will come). Poster presented at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):92.
- Harris DR, Lang E. CAEP Stroke Practice Committee Position Statement on thrombolysis for acute ischemic stroke. Poster presented at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):91.

- 7. Clinkard D, Stiell IG, Clement CM, Brison RJ, Rowe BH, Dorian P, Borgundvaag B, Redfearn D, Eagles D, Langhan T, Lang E, Magee K, Stenstrom R, Rose S, Wyse G, Perry JJ, Birnie D, Wells G, McRae A. Geographic variation in sedation choice for electrical cardioversion in Canadian academic emergency departments. Poster presented at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):82.
- 8. Allen RA, BEng, Tay JK, Saude EJ, Junghans T, Lang E. Bridging the pain gap between emergency department discharge and community care: a pilot evaluation of the Calgary 'Opioids For Home' program. Poster presented at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):77.
- Moncrieff K, Kruck C, Knisley L, Goulard D, Sinclair D, Klassen T, Lang E. Referral patterns for pediatric emergencies: an assessment of knowledge needs for the Translating Emergency Knowledge for Kids (TREKK) Network. Moderated poster presentation at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):75.
- Jervis A, Jones S, Wang D, Lang E. Variability of CTAS scoring in two tertiary care centres in Calgary. Moderated poster presentation at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):72.
- 11. Curry G, Innes G, McRae A, Wang D, Baker L, Mercuur L, Lonergan K, Rich T, Lang E. An emergency physician multi-measure performance profile for promoting reflections on practice and promoting regression to the mean through peer comparison. Moderated poster presentation at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):68.
- 12. Lee JS, Sirois M, Neveu X, Perry XX, Worster A, Daoust R, Lang E, Emond M. Return to the ED after discharge following minor injury: results from 1436 patients in the Canadian Emergency Trauma Initiative (CETI) observational cohort study. Moderated poster presentation at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):65.
- 13. Innes G, McRae A, Wang D, Mercuur L, Curry G, Lang E. Determinants of emergency physician productivity and utilization. Moderated poster presentation at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):64.
- 14. Clinkard D, Stiell IG, Clement CM, Brison RJ, Rowe BH, Dorian P, Borgundvaag B, Redfearn D, Langhan T, Lang E, Magee K, Rose S, Stenstrom R, Eagles D, Wyse G, Perry JJ, Birnie D, Wells G, McRae A. Predictors of adverse events associated with sedation choice in electrical cardioversion. Moderated poster presentation at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):59.
- Emond M, Sirois M, Lee JS, Perry JJ, Lang E, Worster A, Daoust R, LeSage N. Derivation of predicting tools of functional decline in independent seniors with minor injuries in the ED. Moderated poster presentation at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):59.
- 16. Innes G, McRae A, Wang D, Lang E. Why are fast physicians fast? Moderated poster presentation at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):58.
- 17. Lee JS, Sirois M, Neveu X, Perry JJ, Worster A, Daoust R, Lang E, Emond,M. Availability of needed services for older ED patients after discharge following minor injury: results from 1436 patients in the Canadian Emergency Trauma Initiative (CETI) observational cohort study. Moderated poster presentation at CAEP Annual conference, Ottawa June 2014. CJEM 2014:16(S):57.

- 18. Lang ES. General Surgery Consultations in the Emergency Department: A Multicenter Analysis of the Appropriateness and Timing of Surgical Referrals. Moderated poster presentation at CAEP Annual conference, Ottawa June 1, 2014. CJEM 2014:16(S):56.
- 19. Curry G, Innes G, McRae A, Wang D, Baker L, Mercuur L, Lonergan K, Rich T, Lang E. An Emergency Physician Multi-Measure Performance Profile for Promoting Reflections on Practice and Promoting Regression to the Mean through Peer Comparison. Moderated poster presented at CAEP Annual conference, Ottawa, June 3 2014.
- 20. Aghajafari F, Powelson S, McClurg C, Edworthy SM, Lang E. The Effect of a Revised Approach to teaching Evidence Based Medicine on Medical Student Performance. Abstract presented at the 6th Ottawa 12th Canadian Conference on Medical Education. Ottawa ON, Apr 28 2014.

- Lalli P, Gill J, Wang D, Mercuur L, Lang ES, McRae A. An expedited oral contrast protocol for suspected appendicitis does not lead to missed cases requiring surgery. Poster at CAEP meeting. Vancouver BC, Jun 1 2013. CJEM 2013:15(S):68.
- 22. Berthelot S, Stelfox HT, Lang ES, Quan H. Development of a new indicator measuring inhospital mortality of patients with emergency-sensitive conditions. Poster at CAEP meeting. Vancouver BC, Jun 1 2013. CJEM 2013:15(S):61.
- 23. Gill J, Lalli P, Wang D, Mercuur L, Lang ES, McRae A. The Calgary multifaceted intervention for suspected appendicitis reduces ED length of stay and time to surgery. Poster at CAEP meeting. Vancouver BC, Jun 1 2013. CJEM 2013:15(S):54.
- 24. Jones S, Bastian J, McRae A, Wang D, Lonergan K, Lang ES. Gender-specific differences in the prevalence and emergency department management of anaphylaxis: a multi-centre study. Poster at CAEP meeting. Vancouver BC, Jun 1 2013. CJEM 2013:15(S):48.
- 25. McRae A, Crowder K, Jones T, Innes G, Clark S, McMeekin J, Wang D, Lonergan K, Graham M, Lang ES. High-sensitivity troponin implementation for patients with suspected ACS increases the rule-out rate while reducing revisits resulting in admission. Moderated electronic poster presentation at CAEP meeting. Vancouver BC, Jun 1 2013. CJEM 2013:15(S):45.
- 26. Crowder K, Jones T, Wang D, Clark S, Innes G, Lang ES, McMeekin J, Lonergan K, Graham M, McRae A. The effect of implementing high-sensitivity troponin testing on operational efficiency in three large urban emergency departments. Moderated electronic poster presentation at CAEP meeting. Vancouver BC, Jun 1 2013. CJEM 2013:15(S):44.
- 27. Kim JJ, Rich T, Lonergan K, Wang D, McRae A, Lang ES. An elder-friendly electronic hip fracture order set reduces the use of medications associated with delirium. Moderated poster presentation at CAEP Meeting. Vancouver BC, Jun 1 2013. CJEM 2013:15(S):37.
- 28. Jones S, McRae A, Bastian J, Lonergan K, Wang D, Lang ES. Evaluating missed opportunities in identification of traumatic intracranial hemorrhage in the emergency department: a novel safety strategy? Results from a multi-centre study. Moderated poster presentation at CAEP meeting. Vancouver BC, Jun 1 2013. CJEM 2013:15(S):26.

Reviews

1. **Lang E**. Shared Decision-Making in patients with low-risk chest pain: a prospective randomized pragmatic trial. July 2016. Manuscript ID BMJ.2016.034721

- 2. **Lang E.** Public Access Defibrillators: Latest Evidence and Recommendations. Perspectives in Cardiology. June/July 2008, Volume 24, Number 6
- 3. **Lang E.** Basic Life Support and Advanced Cardiac Life Support: An Update. Perspectives in Cardiology. February 2008, Volume 24, Number 2
- 4. **Lang E.** La traumatologie en gériatrie : les enjeux d'un défi unique. MedActuel FMC, 2005, vol. 5, n° 5 (mars).
- 5. **Lang E.** L'information, preuves à l'appui : Les niveaux de preuves. (5th in a series of related articles). FMC MedActuel, February 2003; 3(2).
- 6. **Lang E.** L'information, preuves à l'appui : La formulation d'une question clinique précise. MedActuel FMC. January/February 2002.
- 7. **Lang E**. « La médecine, preuves à l'appui » : Un changement fondamental dans le raisonnement clinique ou de nouveaux termes pour d'écrire d'anciens concepts? MedActuel FMC. November/December 2001.

Abstracts

- 1. Emergency Physician Use of a Provinical Interoperable Electronic Health Record. Tim A.D. Graham, Mark Ballermann, Denise Parsons, Gabriella Mercuur, Eddy Lang, Michael Bullard, Pat San Agustin, Samina Ali
- 2. Pain Management Strategies for Lumbar Puncture in Neonates: A Systematic Review. Eddy Lang, Rebecca Pillai Riddell, C.Psych. Ng, Eugene. Vibhuti Shah