

Lisa A. Calder MD MSc FRCPC

EDUCATION

Diplomas

- Master of Science, Epidemiology, University of Ottawa, Ottawa, Ontario 2007
- Doctor of Medicine, University of Western Ontario, London, Ontario May 2000
- Bachelor of Science with Honours, Life Sciences, Queen's University, Kingston, Ontario May 1995

Certificates

- Patient Safety Leadership Fellow, American Hospital Association, May 2010
- Canadian Patient Safety Officer Course, Canadian Patient Safety Institute, 2009
- Clinician Investigator Program, Royal College of Physicians of Canada, 2006
- Fellow of the Royal College of Physicians of Canada, 2005-present
 - Emergency Medicine Residency Program, University of Ottawa, Ontario 2000-2005
 - Chief resident 2002-2003
- Independent licentiate of the College of Physicians and Surgeons of Ontario, 2005-present
- Licentiate of Medical Council of Canada, 2001

APPOINTMENTS

- 2008-present Associate Scientist, Ottawa Hospital Research Institute, University of Ottawa
- 2007-present Assistant Professor, Department of Emergency Medicine, University of Ottawa
- 2005-present Active Attending Staff, Department of Emergency Medicine, The Ottawa Hospital
- 2005-2008 Clinical Investigator, Ottawa Health Research Institute, University of Ottawa
- 2005-2007 Consultant Staff, Department of Emergency Medicine, Children's Hospital of Eastern Ontario

AWARDS

- New Investigator Award, Intramural funding: Ottawa Hospital Research Institute/Emergency Physician Associates 2008-present
- University of Ottawa Department of Emergency Medicine Teacher of the Year Award, 2008
- Canadian Association of Emergency Physicians Resident Leadership Award, 2003
- Canadian Association of Emergency Physicians Resident Research Award, 2003
- University of Ottawa Department of Emergency Medicine Resident Research Award, 2003 & 2004
- Class of 1917 Award (proficiency in all 4 years of Medicine), University of Western Ontario, 2000
- Class of '43B Award (highest final standing in Clinical Methods), University of Western Ontario, 1998

RESEARCH FUNDING

Principal Investigator

1. Physicians Services Incorporated Foundation, 2010
Improving the Safety of Patients who Present to the Emergency Department with Respiratory Distress: an Analysis of Adverse Events
2. University of Ottawa Department of Emergency Medicine, 2010
Improving the Safety of Patients who Present to the Emergency Department with Respiratory Distress: an Analysis of Adverse Events
3. University of Ottawa Department of Emergency Medicine, 2010
A general consensus map of the disposition decision in the emergency department
4. Society of Academic Emergency Medicine, 2009
Emergency Medicine Patient Safety Fellowship
5. University of Ottawa Department of Emergency Medicine, 2006
A Systematic Literature Review of Patient Safety Interventional Studies in Emergency Medicine
6. University of Ottawa Department of Emergency Medicine, 2005
Adverse Events in High Acuity Areas of the Emergency Department: A Prospective Cohort Study
7. Canadian Association of Emergency Physicians, 2005
Adverse Events after Discharge from High Acuity Areas of the Emergency Department: A Prospective Cohort Study.
8. University of Ottawa Department of Postgraduate Medical Education, 2003
Approaching the next frontier: bringing ultrasound training to emergency medicine residents
9. Canadian Association of Emergency Physicians, 2002-2003
National survey of Canadian emergency physicians: How do you manage traumatic corneal abrasions?

Co-investigator

1. Canadian Institutes of Health Research (CIHR), 2007-2010
A study to develop clinical decision rules for the hospital admission of patients with acute dyspnea
2. Canadian Institutes of Health Research (CIHR), 2007-2009
(PERIL): paramedics and elders at risk for Independence loss: A study to derive a prediction tool using paramedic observations to assess elders' home environments for risks of failed discharge

Research Certificates

1. Review of OHRI Standard Operative Procedures– Hope Senechal, 2010
2. International Conference on Harmonisation -Good Clinical Practice training, 2009
3. Tutorial for the Tri-Council Statement: Ethical Conduct for Research Involving Humans, 2008
Online course, Interagency Advisory Panel on Research Ethics, Government of Canada

PUBLICATIONS

Articles in Peer-Reviewed Journals

1. *L Calder, A Forster, M Nelson, J Leclair, J Perry, C Vaillancourt, G Hebert, AA Cwinn, G Wells, I Stiell.* "Adverse events in high acuity areas of the emergency department: a prospective cohort study." Canadian Journal of Emergency Medicine. 2010; 12(5): 421-430.
2. EP Hess, JJ Perry, *LA Calder*, V Thiruganasambandamoorthy, VL Roger, GA Wells, IG Stiell. "Sex differences in clinical presentation, management and outcome in emergency department patients with chest pain". Canadian Journal of Emergency Medicine. 2010; 12(5): 405-413.
3. EP Hess, JJ Perry, *LA Calder*, V Thiruganasambandamoorthy, R Body, A Jaffe, GA Wells, IG Stiell. "Prospective validation of a modified thrombolysis in myocardial infarction risk score in emergency department patients with chest pain and possible acute coronary syndrome." Academic Emergency Medicine. 2010; 17(4): 368-375.
4. M Cwinn, AJ Forster, AA Cwinn, G Hebert, *L Calder*, IG Stiell. "Prevalence of information gaps for seniors transferred from nursing homes to the emergency department." Canadian Journal of Emergency Medicine. 2009;11(5):462-471.
5. *L Calder*, S Balasubramanian, D Fergusson. "Topical non-steroidal anti-inflammatory drugs for corneal abrasions: meta-analysis of randomized trials." Academic Emergency Medicine. 2005; 12(5): 467-473.
6. C Rosenczweig, *L Calder*. "National review course in emergency medicine." Canadian Journal of Emergency Medicine. 2005; 7(6):429.
7. *L Calder*, S Balasubramanian, I Stiell. "A lack of consensus on how to treat corneal abrasions: Results of a national survey." Canadian Journal of Emergency Medicine. 2004; 6(6): 402-407.
8. ID Graham, *LA Calder*, PC Hébert, AO Carter, JM Tetroe. "A comparison of clinical practice guideline appraisal instruments." International Journal of Technology Assessment in Health Care. 2000; 16(4): 1024-1038.
9. PC Hébert, G Wells, C Martin, M Tweeddale, J Marshall, M Blajchman, G Pagliarello, D Sandham, I Schweitzer, D Boisvert, *L Calder*. "Variation in red cell transfusion practice in the intensive care unit: a multicentre cohort study." Critical Care. 1999; 3(2): 57-63.
10. PC Hébert, GA Wells, C Martin, M Tweeddale, J Marshall, M Blajchman G Pagliarello, I Schweitzer, *L Calder*. "A Canadian survey of transfusion practices in critically ill patients." Critical Care Medicine. 1998; 26(3): 482-7.
11. *L Calder*, PC Hébert, AO Carter, ID Graham. "Review of published recommendations and Guidelines for the transfusion of allogeneic red blood cells and plasma." Canadian Medical Association Journal. 1997; 156 (11suppl): S1-S8.
12. PC Hébert, I Schweitzer, *L Calder*, M Blajchman, A Giulivi. "Review of the clinical practice literature on allogeneic red blood cell transfusion." Canadian Medical Association Journal. 1997; 156 (11suppl): S9-S26.

Publications (cont'd)

13. *LA Calder*. "The impact of women on women's health research: An interview with Dr. Ruth Wilson." Health Care for Women International. 1997; 8(4): 395-405.

Master of Science Thesis

LA Calder. Adverse events among patients registered in high acuity areas of the emergency department: a prospective cohort study. University of Ottawa Press 2007.

Book Chapters and Reports

1. *L Calder*. Corneal Abrasion. In: S Thomas, ed. Emergency Department Analgesia: An Evidence-based Guide. Cambridge: Cambridge University Press, 2008; 184-7.
2. D Gregory, J Worthington co-chairs. Domain 6: Recognize, Respond to and Disclose Adverse Events. In: Frank JR, Brien S, (Editors) on behalf of The Safety Competencies Steering Committee. The Safety Competencies: Enhancing Patient Safety Across the Health Professions. Ottawa, ON: Canadian Patient Safety Institute, 2008.

Abstracts

Presented at International Conferences

1. *L Calder*, A Forster, JJ Perry, C Vaillancourt, IG Stiell. Does emergency physician disposition decision making have an impact on adverse events? Accepted: International Society for Quality in Healthcare, Paris, October 2010.
2. *L Calder*, A Forster, JJ Perry, C Vaillancourt, IG Stiell. Does emergency physician disposition decision making have an impact on adverse events? National Patient Safety Congress, Orlando, May 2010.
3. JS Lee, RP Verbeek, MJ Schull, PM Macintyre, LJ Morrison, *LA Calder*, IG Stiell, BR Rowe, SM Sookram, G Naglie, AJ Kiss, DP Ryan. Paramedics assessing elders at risk for independence loss—the PERIL clinical prediction rule. Pre-Hospital Emergency Care. 2010;14 (Suppl 1):5.
4. EP Hess, JJ Perry, *LA Calder*, V Thiruganasambandamoorthy, R Body, A Jaffe, GA Wells, IG Stiell. Prospective validation of a modified TIMI risk score in emergency department patients with chest pain. American Heart Association. 2009; 120:S1444.
5. JS Lee, RP Verbeek, MJ Schull, P Macintyre, LJ Morrison, *L Calder*, IG Stiell, BH Rowe, S Sookram, A Kiss, D Ryan, G Naglie. Paramedics assessing elders at risk for independence loss (PERIL) – derivation of a clinical decision rule. J Nutr Health Aging. 2009;13(s1):s360.
6. E Hess, J Perry, *L Calder*, V Thiruganasambandamoorthy, G Wells, I Stiell. Gender differences in clinical presentation and outcomes in ED patients with nontraumatic chest pain. Academic Emergency Medicine. 2009;16(s1):s83.
7. E Hess, J Perry, *L Calder*, V Thiruganasambandamoorthy, G Wells, I Stiell. How accurate are emergency physicians in predicting the development of an adverse cardiac event within 30 days? Academic Emergency Medicine. 2009;16 (s1):s110.
8. *L Calder*, IG Stiell, A Forster. Adverse events more common among patients admitted from high-acuity areas of the emergency department. Academic Emergency Medicine. 2006; 13(5S1):S149.
9. M Cwinn, A Cwinn, AJ Forster, G Hebert, *L Calder*, L Nesbitt, IG Stiell. Prevalence of information gaps for seniors transferred from nursing homes to the emergency department. Academic Emergency Medicine. 2006; 13(5S1):S132.

Presented at National Conferences

1. *L Calder*, A Forster, JJ Perry, C Vaillancourt, I Stiell. Does emergency physician disposition decision making have an impact on adverse events? Accepted: Halifax 10: The Canadian Healthcare Safety Symposium, Halifax, October 2010.
2. *L Calder*, LK Carr, AJ Forster, IG Stiell, JJ Perry, C Vaillancourt, JC Brehaut. Breaking New Ground: Mapping out the disposition decision for high acuity emergency patients. Accepted: Halifax 10: The Canadian Healthcare Safety Symposium, Halifax, October 2010.
3. *L Calder*, AJ Forster, IG Stiell, LK Carr, JC Brehaut, JJ Perry, C Vaillancourt, P Croskerry. "Gut" versus Guidelines: How do emergency physicians make clinical decisions? Accepted: Halifax 10: The Canadian Healthcare Safety Symposium, Halifax, October 2010.
4. *L Calder*, A Forster, JJ Perry, C Vaillancourt, I Stiell. Does emergency physician disposition decision making have an impact on adverse events? Canadian Journal of Emergency Medicine 2010; 12(3):245.
5. *L Calder*, T Arnason, I Stiell, A Forster. Emergency physicians make discharge decisions based on clinical judgement rather than evidence. Canadian Journal of Emergency Medicine. 2009; 11(3):289.
6. E Hess, J Perry, *L Calder*, V Thiruganasambandamoorthy, G Wells, I Stiell. Gender differences in clinical presentation and outcomes in ED patients with nontraumatic chest pain. Canadian Journal of Emergency Medicine. 2009; 11(3):266.
7. E Hess, J Perry, *L Calder*, V Thiruganasambandamoorthy, G Wells, I Stiell. How accurate are emergency physicians in predicting the development of an adverse cardiac event within 30 days of the emergency department visit? Canadian Journal of Emergency Medicine. 2009; 11(3):277.
8. JS Lee, RP Verbeek, A Kiss, P Macintyre, MJ Schull, LJ Morrison, *L Calder*, IG Stiell, BH Rowe, S Sookram, DP Ryan, G Naglie. Paramedics assessing elders at risk of independence loss (PERIL): nontransportation rates of older clients in 3 EMS systems. Canadian Journal of Emergency Medicine. 2009; 11(3): 263.
9. *L Calder*, A Forster, I Stiell. Adverse events related to emergency department care. Presented as poster at Halifax 6: The Canadian Healthcare Safety Symposium, October 2006.
10. *LA Calder*, IG Stiell, A Forster. Adverse events related to emergency department care. Canadian Journal of Emergency Medicine. 2006; 8(3):180.
11. *L Calder*, S Balasubramanian, I Stiell. Survey of Canadian emergency physicians' management of traumatic corneal abrasions. Canadian Journal of Emergency Medicine. 2003; 5(3):205.
12. PC Hébert, I Schweitzer, GA Wells, G Pagliarello, C Martin, M Tweeddale, *L Calder*. A survey of red cell transfusion practices in Canadian critical care practitioners. Clinical and Investigative Medicine. 1994; 17(4):130.

SCHOLARLY AND PROFESSIONAL ACTIVITIES

Professional Society Memberships

- Society of Academic Emergency Medicine *2004-present*
- Canadian Association of Emergency Physicians *2000-present*
- Ontario Medical Association *1996-present*
- Canadian Medical Association *1996-present*

International Invited Presentations

- ICRE (International Conference for Residency Education), Ottawa, "Do you know what is going on? Situation Awareness as a Critical Human Factor in Patient Safety", September 2010.
- ICRE (International Conference for Residency Education), Ottawa, "Building Patient Safety Culture through Education on Patient Safety Competencies: A New Challenge", September 2010.
- Emergency Physicians Insurance Corporation Annual Meeting, Las Vegas, "SAEM/EMPSF Emergency Medicine Patient Safety Fellowship: Understanding Disposition Decision Making", September 2009.
- 11th International Conference on Emergency Medicine, Halifax, "Adverse Events Related to Emergency Department Care", June 2006
- Society for Academic Emergency Medicine Conference, San Francisco, California, "Adverse Events More Common among Patients Admitted from High-acuity Areas of the Emergency Department", May 2006
- Society for Academic Emergency Medicine Conference, Orlando, Florida, "Motor Vehicle Collision Characteristics Associated with Brain Injury in Mild Head Injury Patients", May 2004
- Toxicology Rounds, Good Samaritan Health Care Center, Phoenix, Arizona, "Iron Toxicity", March 7, 2003
- Toxicology Rounds, Good Samaritan Health Care Center, Phoenix, Arizona, "The Brown Recluse Spider", February 21, 2003

National Invited Presentations

- "Resident Research Fellowships", Canadian Association of Emergency Physicians Conference, June 2008
- "Tips for Preparing for the Examination", Canadian Association of Emergency Physicians Conference, June 2008

Local Invited Presentations

- University of Ottawa Department of Emergency Medicine Research Day, "Does Emergency Physician Disposition Decision Making have an Impact on Adverse Events?", June 2010
- National Capital Conference on Emergency Medicine, "Top 10 Articles of 2009", February 2010
- Emergencies for Emergency Physicians Conference, The Ottawa Hospital, "Patient Safety: Adverse Events in the ED", February 2006
- Emergencies for Emergency Physicians Conference, The Ottawa Hospital, "Where are the Briquettes? Evidence-based Use of Activated Charcoal" February 2005
- The Ottawa Hospital Emergency Nursing In-service "Adverse Events after Discharge from High Acuity Areas of the ED" Civic and General campuses, September, November 2004
- Arnprior District Hospital Grand Rounds "Evidence-based Use of Activated Charcoal", September 2004
- University of Ottawa Department of Emergency Medicine Research Day, "Are Topical Non-steroidal Anti-inflammatory Drugs Effective for Traumatic Corneal Abrasions? A Meta-analysis", June 2004
- University of Ottawa Department of Emergency Medicine Research Day, "Canadian Survey of Emergency Physicians' Management of Traumatic Corneal Abrasions", June 2003

Local Presentations (cont'd)

- Intensive Care Unit Rounds, The Ottawa Hospital, "Approach to the Poisoned Patient", August 2003
- Emergencies for Emergency Physicians Conference, The Ottawa Hospital, "Keeping Pace with the Electronic Age: ICDs and Pacemakers in the ED", February 2003

Reviewer for Peer-reviewed Publications or Grants

- Academic Emergency Medicine, 2009-present
- Canadian Association of Emergency Physicians, 2008-present
- Annals of Emergency Medicine 2005-present
- Clinical Investigative Medicine, 2009-present

Teaching and Supervisory Experience

- Monthly Emergency Medicine Research Fellow supervision meetings, Ottawa Hospital Research Institute, Clinical Epidemiology Unit 2008-present
- Resident Research Project Supervisor, Dr. Tim Dalseg 2010-present, Dr. Erin O'Connor 2010-present, Dr. Lindsay Carr 2010-present, Dr. Brandy Bursey 2010-present, Dr. Alexis Haligua 2009-present, Dr. Sarah Addelman 2009-2010, Dr. Cory Brulotte, 2007-2008
- Summer research student supervision, Austin Gagne 2010, Sarah Tierney 2010, Trevor Arnason 2009, 2008, Melanie Espina 2006, Jason Leclair 2005, and Sowmya Balasubramanian 2002
- Student and resident supervision each shift in Emergency Department, The Ottawa Hospital 2005-present
- Research assistant training and supervision, Laura Carr 2009-present, Melanie Courtney 2004-5
- Resident Mentor, Dr. Lisa Fischer 2009-present, Dr. Melanie Sohn 2007-2008, Dr. Soraya Davoudi 2005-2006
- Co-chair, Journal Clubs, Department of Emergency Medicine, University of Ottawa, 2006-present
- Academic Half-day Presentations to residents, Department of Emergency Medicine, University of Ottawa:
 - "Trauma", July 2008
 - "Traumatic Peripheral Vascular Injuries", April 2008
 - "Traumatic Spinal Cord Injuries", April 2008
 - " Shock", September 2007, August 2008, December 2009, September 2010
 - "Patient Safety", April 2006, August 2007, July 2008, September 2009, October 2009
 - "Royal College Emergency Medicine Examination Preparation", August 2005
 - "Spot Diagnosis", July 2004, January 2005, June 2005
- Grand Rounds, Department of Emergency Medicine, University of Ottawa:
 - "Understanding Disposition Decision Making in the ED: Results of a One Year Patient Safety Fellowship", June 2010
 - "Adverse Events in the ED: How are we doing and where are we going", January 2008
 - Morbidity and Mortality Rounds, December 2005, March 2008

Teaching (cont'd)

- “Adverse Events after Discharge from High Acuity Areas of the ED” September 2004
- “Lessons in Toxicology from Arizona”, September 2003
- “Emergency! Controversy in Prehospital Medicine”, January 2003
- Morbidity & Mortality Rounds, “Lithium toxicity”, December 2002
- “Keeping Pace with the Electronic Age: ICDs and Pacemakers in the ED”, May 2002
- “A Case of Unstable C-spine Fracture and Spinal Cord Injury after Minor Trauma”, November 2001
- Emergency Focused Ultrasound Instructor: University of Ottawa Focused Ultrasound Course, November 2005, February, March 2006
- ATLS Instructor University of Ottawa: November 2003, January, May, September, December 2004, February 2006, November 2007, May 2009
- ACLS Instructor University of Ottawa: April, June, October 2003, April, May, November 2004, August, November 2005, May 2006, June 2007, August 2009

Teaching Award Nominations:

- University of Ottawa, Department of Emergency Medicine, EM teacher of the Year, 2005-2006
- University of Ottawa, Department of Emergency Medicine, Resident Educator of the Year, 2003-2004

Courses and Meetings Attended

- National Patient Safety Congress, May 2010
- Canadian Patient Safety Institute, Canadian Patient Safety Officer Course 2009
- American Hospital Association Leadership Summit July 2009
- Halifax 6: The Canadian Healthcare Safety Symposium, October 2006
- International Congress on Emergency Medicine, June 2006
- Resuscitation Outcomes Consortium Meeting, November 2005
- American Heart Association Resuscitation Science Symposium, November 2005
- National Review Course, October 2004
- SAEM Conference May 2004, 2006, 2007, 2008, 2009
- University of Ottawa Department of Emergency Medicine Ultrasound Course, February 2004
- ATLS Instructor Course, May 2003 Update, September 2004
- ACLS Instructor Course, March 2003
- CAEP Conference, 2002, 2003, 2004, 2006, 2008, 2010
- Chair of Patient Safety Track, CAEP 2008
- National Capital Conference on Emergency Medicine 2010
- Emergencies for Emergency Physicians Conference, Ottawa, 2000-2004, 2006
- ATLS May 2001

Courses and Meetings Attended (cont'd)

- ACLS Refresher Course, 2001, Provider Course, 2000
- A Practical Day in Emergency Medicine Course, Toronto, October 2000

Committees

- The Ottawa Hospital - Women Physician Leadership Committee 2010-present
- The Ottawa Hospital Department of Emergency Medicine Clinical Practices Committee 2008-present
- Canadian Association of Emergency Physicians Conference Track Chair Committee 2008
- The Ottawa Hospital Patient Safety Center Grant Selection Committee 2008
- Canadian Patient Safety Institute. The Safety Competencies 2007
- The Ottawa Hospital Patient Safety Committee, 2005-2007
- Royal College of Physicians and Surgeons of Canada. CanMEDS Phase IV Scholar Working Group, 2004
- Emergencies for Emergency Physicians Conference Planning Committee 2003
- University of Ottawa Department of Emergency Medicine Resident Selection Committee, 2003, 2004, 2005
- Division of Emergency Medicine Academic Half Day Planning Committee, 2002-2003
- Royal College Emergency Medicine Residency Program Committee, University of Ottawa (as chief resident), 2002-2003
- Division of Emergency Medicine Education Committee, Ottawa Hospital, 2000-2003
- Advisory Committee on Gender and Equity Issues, University of Ottawa, 2002-2003