

**Ian Blanchard**  
**403-669-2551**

**EMPLOYMENT and VOLUNTEER HISTORY:**

**April, 2017 – Present**

**Research Lead, Alberta Health Services (AHS), Emergency Medical Services (EMS)**  
**Office of the Chief Paramedic**  
Calgary, Alberta, Canada

**January, 2012 – Present**

**Adjunct Assistant Professor, University of Calgary, Department of Community Health Sciences**  
Calgary, Alberta, Canada

**May, 2013 – 2017**

**Task Force Member, International Liaison Committee on Resuscitation (ILCOR), Heart and Stroke Foundation of Canada**  
International, represented Canada

**September, 2009 – 2017**

**Senior Performance Strategist, Alberta Health Services (AHS), Emergency Medical Services (EMS)**  
Calgary, Alberta, Canada

**February, 2009 – August, 2009**

**Research Associate, University of Calgary**  
Calgary, Alberta, Canada

**February, 2004 – February, 2009**

**Quality Assurance Strategist, The City of Calgary EMS**  
Calgary, Alberta, Canada

**April, 2002 – February, 2004**

**Paramedic, The City of Calgary EMS**  
Calgary, Alberta, Canada

**April, 2002 – April, 2004**

**Paramedic, Banff EMS**  
Banff, Alberta, Canada

**February, 2002**

**Paramedic, Foothills Medical Services**  
Okotoks, Alberta, Canada (Contract in the Canadian Arctic )

**December, 1998 – June, 2000**

**Paramedic, Greater Manchester Ambulance Service**  
Manchester, United Kingdom

**June, 1997 – November, 1998**

**Student Paramedic (Ambulance Technician), Greater Manchester Ambulance Service**  
Manchester, United Kingdom

**April, 1995 – April, 1996**

**Program Director, Lakehead University Emergency First Response Team (LUEFRT)**

Thunder Bay, Ontario, Canada

**EDUCATION:**

**University of Calgary, Calgary, Alberta, Canada**

**Cumming School of Medicine, Department of Critical Care**

**September, 2016 – Present**

PhD – Medical Science

**University of Calgary, Calgary, Alberta, Canada**

**Faculty of Medicine, Department of Community Health Sciences**

**September, 2005 – 2009**

Master of Science – Epidemiology

**Holland College, Charlottetown, PEI, Canada**

**January, 2001 – November, 2001**

Diploma Paramedicine Level Three

Jean Yves Dubois Award for Innovation

**Ladybridge Hall Training Centre, Bolton, Manchester, United Kingdom**

**November, 1998 – February, 1999**

Institute of Health and Care Development Paramedic Training

**Ladybridge Hall Training Centre, Bolton, Manchester, United Kingdom**

**June, 1997 – September, 1997**

Institute of Health and Care Development Basic Ambulance Aid and Emergency Driving

**Lakehead University, Thunder Bay, Ontario, Canada**

**September, 1992 – May, 1996**

Bachelor of Science (BSc.)

Honours Bachelor of Outdoor Recreation (HBOR)

Certificate Tourism and Recreation Resources Management

**Emergency Medical Services Training Academy, Côte Saint Luc, Quebec, Canada**

**May, 1994 – August, 1994**

Emergency Medical Technician – Basic

**PROFESSIONAL REGISTRATION:**

Emergency Medical Technologist – Paramedic, Alberta College of Paramedics

**COMMITTEES AND NETWORKS:**

Co-Chair AHS EMS Research Committee 2009 to present

Co-Chair (First paramedic co-chair) Canadian EMS Research Network/Réseau Canadien de Recherche en Soins Préhospitaliers (CERN/RCSRSP) 2015-2017

Member Canadian Safety and Security Program, Paramedic Community of Practice 2014 to present

Member Emergency Strategic Clinical Network Scientific Advisory Council – 2016 to present

Ian Blanchard CV

## PEER REVIEW ACTIVITIES:

2015 to 2016 Decision Editor Canadian Journal of Emergency Medicine  
2014 to present *ad hoc* reviewer Prehospital Emergency Care  
2014 to present *ad hoc* reviewer Canadian Journal of Emergency Medicine

## RESEARCH FUNDING and SCHOLARSHIPS:

2017 Izaak Walton Killam Doctorial Scholarship \$33,000 per year for two years  
2016 Strategy for Patient Oriented Research (SPOR) Studentship \$30,000

### Principle Investigator

*Community Paramedic Point of Care Testing*

Defense Research and Development Canada, Canadian Safety and Security Program: \$87,000

### Co-Principal Investigator

*EMS Systems and Paramedic Care*

EMS Foundation: \$100,000 over four years to pay for two student stipends

### Investigator

*Canadian Research Outcomes Consortium*

Heart and Stroke Foundation of Alberta, Nunavut and NWT: \$40,000

### *The Canadian National EMS Research Agenda*

Defense Research Development Canada: \$33,940.00

Canadian Institutes of Health Research: \$16,667.00

NS Health Research Foundation: \$20,080.00

EMS Chiefs of Canada: \$10,000.00

Paramedic Association of Canada: \$10,000.00

Calgary EMS Foundation: \$10,000.00

**Project Total: \$100,687.00**

## PUBLICATIONS:

**Blanchard IE**, Ahmad A, Tang KL, Ronksley PE, Lorenzetti D, Lazarenko G, Lang ES, Doig CJ, and Stelfox HT (2017). *The effectiveness of prehospital hypertonic saline for hypotensive trauma patients: a systematic review and meta-analysis*. BMC Emerg Med. 17(1):35.

Role: Lead investigator. Concept, study design, methodology, analysis, manuscript, and knowledge translation.

Morrison LJ, de Caen A, Bhanji F, Bigham BL, **Blanchard IE**, Brooks SC, Guerguerian AM, Jensen JL, Travers AH, Vaillancourt C, Welsford M, Woolfrey K (2016). What is new in the 2015 American Heart Association guidelines, what is recycled from 2010, and what is relevant for emergency medicine in Canada. *Canadian Journal of Emergency Medicine*. 18(3):223-9, May.

Role: Investigator. Creation of First Aid section, manuscript, and knowledge translation.

Jensen JL, **Blanchard IE**, Bigham BL, Carter A, Brown R, Socha D, Brown LH, Travers AH, Craig AM, Morrison LJ (2015). The Canadian National EMS Research Agenda: Impact and Feasibility of Implementation of Previously Generated Recommendations. *Canadian Journal of Emergency Medicine* 17(5):484-90, Sep.

Role: Lead investigator. Concept, study design, methodology, analysis, manuscript, and knowledge translation.

Brown LH and **Blanchard IE** (2015). Sustainable Emergency Medical Service Systems: How Much Energy do we Need? *Am J Emerg Med.* 33(2):190-6, Feb.

Role: Co-Principle Investigator. Concept, study design, methodology, analysis, manuscript, and knowledge translation.

Minhas R, Vogelaar G, Wang D, Almansoori W, Lang E, **Blanchard IE**, Lazarenko G, McRae A (2015). A Prehospital Treat and Release Protocol for Supraventricular Tachycardia. *Canadian Journal of Emergency Medicine* 17(4):395-402, Jul.

Role: Investigator. Created initial concept. Input into study design, methodology, analysis, manuscript, and knowledge translation.

Zideman DA, Singletary EM, De Buck ED, Chang WT, Jensen JL, Swain JM, Woodin JA, **Blanchard IE**, Herrington RA, Pellegrino JL, Hood NA, Lojero-Wheatley LF, Markenson DS, Yang HJ, First Aid Chapter Collaborators, Arnold LK, Bradley RN, Caracci BC, Carlson JN, Cassan P, Chalkias AF, Charlton NP, DeVoge JM, Dieltjens TA, Evans TR, Ferguson JD, Fringer RC, Hafner CM, Han KH, Handley AJ, Kitch BB, Koehler DN, Kule A, MacPherson AI, Meyran D, Nemeth MA, Patocka C, Pauwels NS, Reilly MJ, Rusk RC, Schunder-Tatzber S, Seitz SR, Shenefelt RM, Wang CH, Woo JH (2015). Part 9: First aid: 2015 International Consensus on First Aid Science with Treatment Recommendations. *Resuscitation.* 95:e225-61, Oct.

Role: Investigator. Creation of Bleeding Control, Bronchodilator, and Burn Dressing sections, manuscript, and knowledge translation.

Singletary EM, Zideman DA, De Buck ED, Chang WT, Jensen JL, Swain JM, Woodin JA, **Blanchard IE**, Herrington RA, Pellegrino JL, Hood NA, Lojero-Wheatley LF, Markenson DS, Yang HJ (2015). First Aid Chapter Collaborators. Part 9: First aid: 2015 International Consensus on First Aid Science with Treatment Recommendations. *Circulation.* 132(16 Suppl 1):S269-311, Oct 20.

Role: Investigator. Creation of Bleeding Control, Bronchodilator, and Burn Dressing sections, manuscript, and knowledge translation.

Jensen JL, Bigham BL, **Blanchard IE**, Dainty K, Socha D, Carter AJE, Lawrence B, Travers AH, Craig A, Brown R, Morrison LJ (2013). The Canadian National EMS Research Agenda: A Mixed Methods Consensus Study. *Canadian Journal of Emergency Medicine* 1;15(2): 73-82.

Role: Lead investigator. Concept, study design, methodology, analysis, manuscript, and knowledge translation.

Dainty KN, Jensen JL, Bigham BL, **Blanchard IE**, Brown LH, Carter AJE, Socha D, Morrison LJ (2013). Developing a Canadian EMS Research Agenda: A Baseline Study of Stakeholder Opinions. *Canadian Journal of Emergency Medicine* 1;15(2)73-82.

Role: Investigator. Initial concept, sample selection, manuscript, and knowledge translation.

Patel AB, Waters NG, **Blanchard IE**, Doig CJ, Ghali WA (2012). A Validation of Ground Ambulance Pre-Hospital Times Modeled Using Geographic Information Systems. *International Journal of Health Geographics* 11:42.

Role: Investigator. Methodology, data consultation, interpretation of results, and manuscript editing.

Brown LH and **Blanchard IE** (2012). Energy, Emissions, and Emergency Medical Services: Policy Matters. *Energy Policy* Vol. 46, pgs 585-593.

Role: Co-Principle Investigator. Concept, study design, methodology, analysis, manuscript, and knowledge translation.

Jensen JL, **Blanchard IE**, Bigham BL, Dainty KN, Socha D, Carter A, Brown LH, Craig AM, Travers AH, Brown R, Cain E, Morrison JL (2011). Methodology for the Development of a Canadian National EMS Research Agenda. *BMC Emergency Medicine.* 11:15.

Role: Lead investigator. Concept, study design, methodology, analysis, manuscript, and knowledge translation.

**Blanchard, IE**, Hagel, BE, Anton, AR, Zygun, DA, Kortbeek, JB, Powell, DG, Williamson, TS, Fick, GH, Innes, GD, Doig, CJ (2011). Emergency Medical Services Response Time and Mortality in an Urban Setting. *Prehospital Emergency Care;* 16:1, 142-151.

Role: Student. Concept, study design, methodology, analysis, manuscript, and knowledge translation.

**Blanchard, IE** and Brown, L. (2011). Carbon Footprinting of North American Emergency Medical Services Systems. *Prehospital Emergency Care;* 15:1, 23-29.

Role: Co-Principle Investigator. Concept, study design, methodology, analysis, manuscript, and knowledge translation.

**Blanchard, IE** and Brown, L. (2009). Carbon Footprinting of EMS Systems: Proof of Concept. *Prehospital Emergency Care*; 13:4, 546-549.

Role: Co-Principle Investigator. Concept, study design, methodology, analysis, manuscript, and knowledge translation.

### Book Chapter

**Blanchard IE** and Williamson TS (2017). Research Chapter. *Wilderness Emergency Medical Services*. Wolters-Kluwer publishing.

Role: Author. Initial chapter planning, creation of initial draft and revision of subsequent drafts, and coordination of editing.

**Blanchard IE**, Jensen JL, Tavares W, Andrusiek D (2015). Research and Quality Chapter. *Nancy Caroline Emergency Care in the Streets Canadian Edition*. Jones and Bartlett publishing.

Role: Lead Author. Initial chapter planning, coordination of writing, senior editing, and initial draft of multiple sections.

### Oral Presentations

**Blanchard IE**, Ahmad A, Tang KL, Ronksley PE, Lorenzetti D, Lazarenko G, Lang ES, Doig CJ, and Stelfox HT (2018). The effectiveness of prehospital hypertonic saline for hypotensive trauma patients: a systematic review and meta-analysis. Accepted for oral presentation at the National Association of EMS Physicians Annual General Meeting; San Diego, California.

Role: Presenter. Creation of presentation materials.

**Blanchard IE**, Lane D, Williamson TS, Hagel B, Vogelaar G, Dean S, Niven D, Lang ES, Doig CJ (2018). The Epidemiology of Mortality in Patients Transported by Emergency Medical Services (EMS). *Prehospital Emergency Care, in-press*.

Role: Presenter. Creation of presentation materials.

**Blanchard IE** and Lazarenko G (2016). Alberta Health Services Treat and Refer. Canadian Pre-Conference, National Association of EMS Physicians Annual General Meeting, San Diego, California.

Role: Co-Presenter. Concept, creation of presentation materials.

**Blanchard IE** (2015). The Alberta Health Services Emergency Medical Services System. Plenary session at the Cape Breton Annual Paramedic Conference, Cape Breton, Nova Scotia.

Role: Presenter. Concept, creation of presentation materials.

**Blanchard IE** (2015). EMS Mythbusting. Plenary session at the Cape Breton Annual Paramedic Conference, Cape Breton, Nova Scotia.

Role: Presenter. Concept, creation of presentation materials.

**Blanchard IE** (2015). Consensus on Science and Treatment Recommendation for First Aid Bleeding Control. Plenary session, International Liaison Committee on Resuscitation, Dallas, Texas.

Role: Presenter. Creation of presentation materials.

**Blanchard IE** (2015). Consensus on Science and Treatment Recommendation for First Aid Bleeding Control. First Aid Task Force session, International Liaison Committee on Resuscitation, Dallas, Texas.

Role: Presenter. Creation of presentation materials.

**Blanchard IE** (2013). Alberta Health Services Emergency Medical Services Research. Plenary sessions at the Annual Edmonton Paramedic Educational Sessions, Edmonton, Alberta.

Role: Presenter. Concept, creation of presentation materials.

**Blanchard IE** (2013). Emergency Medical Services Research. Plenary session at the Alberta College of Paramedics Annual General Meeting, Edmonton, Alberta.

Role: Presenter. Concept, creation of presentation materials.

**Blanchard IE** (2013). Transfer of Non Urgent Emergency Medical Services 9-1-1 Callers to a Telephone Nurse Assessment Service (TNAS). Presented orally at the National Association of EMS Physicians Annual General Meeting; Naples, Florida.  
Role: Presenter. Creation of presentation materials.

**Blanchard IE, Jensen JL, Bigham BL**(2013). From Global to Local, National Research Agendas. Co-speaker plenary session at the National Association of Emergency Medical Services Physicians Annual General Meeting; Naples, Florida.  
Role: Co-Presenter. Concept, creation of presentation materials.

**Blanchard IE** (2013). Alberta Emergency Medical Services Research. Canadian Pre-Conference, National Association of Emergency Medical Services Physicians Annual General Meeting; Naples, Florida.  
Role: Presenter. Concept, creation of presentation materials.

**Blanchard IE** (2011). Emergency Medical Services and Response Time. Concurrent session speaker at Horizon Provincial EMS Conference; St. John's, Newfoundland.  
Role: Presenter. Concept, creation of presentation materials.

**Blanchard IE** (2010). EMS Research and the Critically Important Role of the Paramedic. Keynote speaker at the 2<sup>nd</sup> annual EMS Research Day; Halifax, Nova Scotia.  
Role: Presenter. Concept, creation of presentation materials.

**Blanchard IE** (2010). Emergency Medical Services Response Time and Mortality in an Urban Setting: Does a Faster Response Save Lives? Presented orally at the National Association of EMS Physicians Annual General Meeting; Phoenix, Arizona.  
Role: Presenter. Creation of presentation materials.

**Blanchard IE** (2009). Emergency Medical Services Response Time and Mortality in an Urban Setting: Does a Faster Response Save Lives? Presented orally at the Snyder Critical Care Research Day; Calgary, Alberta.  
Role: Presenter. Creation of presentation materials.

**Blanchard IE** (2008). Knowledge Translation and Rapid Sequence Intubation – The City of Calgary EMS experience. Presented orally at "Stats in the City" an educational seminar series for municipal researchers; Calgary, Alberta.  
Role: Presenter. Concept, creation of presentation materials.

**Blanchard IE** (2007). Impact of Mandatory Non-Transport Reporting on Paramedic Non-Transportation Rates in a Large Urban EMS System: A Patient Safety Initiative. Presented orally at the biennial City of Calgary research conference; Calgary, Alberta.  
Role: Presenter. Concept, creation of presentation materials.

## Abstracts

**Blanchard IE, Ahmad A, Tang KL, Ronksley PE, Lorenzetti D, Lazarenko G, Lang ES, Doig CJ, and Stelfox HT** (2018). *The effectiveness of prehospital hypertonic saline for hypotensive trauma patients: a systematic review and meta-analysis. Prehospital Emergency Care, in-press.*  
Role: Lead investigator and Presenter. Created abstract and presentation.

**Blanchard IE, Lane D, Williamson TS, Hagel B, Vogelaar G, Dean S, Niven D, Lang ES, Doig CJ** (2018). The Epidemiology of Mortality in Patients Transported by Emergency Medical Services (EMS). *Prehospital Emergency Care, in-press.*  
Role: Lead investigator and Presenter. Created abstract and presentation.

**Blanchard IE, Kozicky R, Dalgarno D, Goulder S, Williamson TS, Biesbrook S, Page L, Leaman K, Snozyk S, Redman L, Spackman K, Doig CJ, Lang ES, and Lazarenko G** (2018). *Community Paramedic Point of Care Testing: Validity and Usability of Two Commercially Available Devices.*  
Role: Co-Principle investigator and Presenter. Created abstract and presentation.

**Blanchard IE**, Bradley R, Woo JH, Lightfoot D, Lang E, Zideman, D, Singletary E on Behalf of the ILCOR First Aid Task Force (2016). Traditional Bleeding Control Strategies: A Systematic Review Using GRADE Methodology. *Prehospital Emergency Care*, 20:1, 137-173.

Role: Investigator and Presenter. Created abstract and poster.

**Blanchard IE**, Charlton N, Macpherson A, Mell H, Neilson C, Lang E, Zideman, D, Singletary E on Behalf of the ILCOR First Aid Task Force (2016). First Aid and First Responder Treatment of Asthmatics having Difficulty Breathing with Bronchodilators: A Systematic Review Using GRADE Methodology. *Prehospital Emergency Care*, 20:1, 137-173.

Role: Investigator and Presenter. Created abstract and poster.

**Blanchard IE**, De Buck E, Woodin J, Lang E, Singletary E, Zideman, D on Behalf of the ILCOR First Aid Task Force (2016). Wet Versus Dry Dressings in the First Aid Setting: A Systematic Review Using GRADE Methodology. *Prehospital Emergency Care*, 20:1, 137-173.

Role: Investigator and Presenter. Created abstract and poster.

**Blanchard IE**, Patel A, Lane D, Couperthwaite A, Chisholm D, Yergins D, Lazarenko G, Lorenzetti D, Lang E, Doig CJ, Ghali B (2016). A Systematic Review on the Association Between EMS Response Time and Survival. *Prehospital Emergency Care*, 20:1, 137-173.

Role: Lead investigator and Presenter. Created abstract and poster.

Woods D, **Blanchard IE**, Almansoori A, Vogelaar G, Williamson TS, Lazarenko G (2016). The Clinical Course and Outcomes of Patients Identified as a Medical Priority Dispatch System (MPDS) Card 10 (Chest Pain). *Prehospital Emergency Care*, 20:1, 137-173.

Role: Investigator and Presenter. Created abstract and poster.

Hallihan G, **Blanchard IE**, Plato M, Lazarenko G, Wilkins M, Wiley K, Clayden N, Jones J, Caird JK (2016). Human Factors Evaluation of a New Ambulance Patient Compartment. *Prehospital Emergency Care*, 20:1, 137-173.

Role: Investigator and Presenter. Created abstract and poster.

Hallihan G, Caird J, Wilkins M, Wiley K, Clayden N, Plato M, **Blanchard IE** (2014). Human Factors Evaluation of a New Ambulance Patient Compartment. *2014 International Symposium on Human Factors and Ergonomics in Health Care*.

Role: Investigator. Reviewed abstract and poster.

Jensen JL, **Blanchard IE**, Bigham BL, Carter AJE, Brown R, Socha D, Brown LH, Travers AH, Craig A, Morrison LJ (2013). The Canadian National EMS Research Agenda: a survey to determine the impact and feasibility of implementing the recommendations. *Canadian Journal of Emergency Medicine*, s1:s5

Role: Investigator. Reviewed abstract and poster.

**Blanchard IE**, Brown R, Jensen JL, Bigham BL, Travers AH, Carter AJE, Morrison LJ (2013). Barriers, facilitators, recommendations and priorities for EMS research: a scoping review of research agendas. *Canadian Journal of Emergency Medicine*, s1:s55.

Role: Investigator. Created abstract

**Blanchard IE**, Vogelaar GV, Andruski L, Osterreicher L, Huang J, Trumbley J, Almansoori W, Williamson T, Anton A (2013). Transfer of Non Urgent Emergency Medical Services 9-1-1 Callers to a Telephone Nurse Assessment Service (TNAS). *Prehospital Emergency Care*, 17 (1) 121.

Role: Co-Principle Investigator and Presenter. Created abstract and presentation.

Minhas R, Vogelaar G, Wang D, Almansoori W, Lang E, **Blanchard IE**, Lazarenko G, McRae A (2013). Evaluation of an emergency medical services treat-and release protocol for out-of-hospital patients presenting with supraventricular tachycardia. *Canadian Journal of Emergency Medicine*; 15 Suppl 1.

Role: Investigator and Presenter. Reviewed abstract and poster.

**Blanchard IE**, Brown R, Jensen JL, Bigham BL, Carter AJE, Travers AH, Morrison LJ (2013). Barriers, facilitators, recommendations and priorities for EMS research: a scoping review of research agendas. *Prehospital Emergency Care*, 17 (1) 121.

Role: Lead Investigator. Created abstract and poster.

Linton K, **Blanchard IE**, Doig C, Dowling S, Moir G, Zuege D, Henderson E (2013). The Impact of Ventilator-Associated Pneumonia Among Prehospital Intubated Patients. Community and Hospital Infection Control Association National Education Conference proceedings.

Role: Investigator. Reviewed abstract and poster.

Jensen JL, Bigham BL, **Blanchard IE**, Dainty KN, Socha D, Carter AJE, Brown LH, Craig AM, Travers AH, Brown R, Morrison LJ (2012). The Canadian National EMS Research Agenda: A Mixed Methods Consensus Study. *Canadian Journal of Emergency Medicine*, 14 (s1).

Role: Lead Investigator. Reviewed abstract and presentation.

Dainty KD, Jensen JL, Bigham BL, **Blanchard IE**, Socha D, Morrison LJ and Canadian EMS Research Agenda Investigator Team (2012). Developing a Canadian EMS Research Agenda: A Baseline Study of Stakeholder Opinions. *Prehospital Emergency Care*, 16 (1) 184.

Role: Investigator. Reviewed abstract and poster.

McRae AD, Wang D, **Blanchard IE**, Almansoori W, Anton A, Lang E, Innes G (2012). A TIME flow study to establish determinants of the EMS offload interval: implications for evaluation of EMS operational efficiency. *Canadian Journal of Emergency Medicine*; 14 Suppl 1.

Role: Investigator. Reviewed abstract and presentation.

McRae AD, Wang D, **Blanchard IE**, Almansoori W, Anton A, Lang E, Innes G (2012). UPSTREAM relief: benefits on EMS offload delay of a provincial ED overcapacity protocol aimed at reducing ED boarding. *Canadian Journal of Emergency Medicine*; 14 Suppl 1.

Role: Investigator. Reviewed abstract and presentation.

**Blanchard, IE** and Brown, L (2011). Quality of the Data Informing Carbon Footprinting of Emergency Medical Services Systems. *Prehospital Emergency Care*; 15(1), 109.

Role: Co-Principle Investigator and Presenter. Created abstract and poster.

**Blanchard, IE** and Brown, L (2011). The Energy Burden of Emergency Medical Services Activities. *Prehospital Emergency Care*; 15(1), 122.

Role: Co-Principle Investigator and Presenter. Created abstract and poster.

James SL, Vogelaar, GA, **Blanchard, IE**, Vernon, L, Williamson, TS, Anton, AR. (2011). Changes in Bystander Cardiopulmonary Resuscitation Rates over Time in a Large Urban Emergency Medical Services System. *Prehospital Emergency Care*; 15(1), 127.

Role: Lead Investigator. Reviewed abstract and presentation.

**Blanchard, IE**, Anton, A, Hagel, B, Innes, G, Kortbeek, J, Powell, D, Zygun, D, Doig, C. (2009). Emergency Medical Services Response Time and Mortality in an Urban Setting: Does a faster response save lives? *Prehospital Emergency Care*; 14(S1), 6.

Role: Student and Presenter. Created abstract and presentation.



**Blanchard, IE** and Brown, L. (2009). Carbon Footprinting in North American EMS Operations: Developing Preliminary Emission Benchmarks. *Prehospital Emergency Care*; 14(S1), 52.

Role: Co-Principle Investigator and Presenter. Created abstract and poster.

**Blanchard, IE**, Klein-Swornink, H, Vogelaar, G, Clayden, D, Anton, A. (2008). Adult Prehospital Rapid Sequence Intubation Process Map: A Clinical Management Tool. *Prehospital Emergency Care*; 13(1), 126.

Role: Lead Investigator and Presenter. Created abstract and presentation.

**Blanchard, IE** and Brown, L. (2008). Carbon Footprinting of EMS Systems: Proof of Concept. *Prehospital Emergency Care*; 13(1), 129.

Role: Co-Principle Investigator and Presenter. Created abstract and poster.

Anton, A, **Blanchard, IE**, Williamson, T, Clayden, D, Klein-Swornink, H. (2007). Impact of Mandatory Non-Transport Reporting on Paramedic Non-Transportation Rates in a Large Urban EMS System: A Patient Safety Initiative. *Prehospital Emergency Care*; 11 (1), 115.

Role: Lead Investigator and Presenter. Created abstract and presentation.

## Reports

Jensen JL, **Blanchard IE**, Bigham BL, Carter A, Brown R, Socha D, Brown LH, Travers AH, Craig AM, Morrison LJ. (2013).

Canadian National EMS Research Agenda. EMS Chiefs of Canada. Available at:

<http://www.paramedicchiefs.ca/docs/nra/national-research-agenda-non-interactive.pdf>

Role: Lead investigator. Concept, study design, methodology, analysis, report, and knowledge translation.

de Grood J, Wong H, Polachek A, Raissi A, Stromer J, Zwicker K, Ghali WA, **Blanchard IE**. (2013) Broad Overview of the Research Informing Aspects of Emergency Medical Services. Found in Appendix 5: Review of Operations of Ground Emergency Medical Services in Alberta. Health Quality Council of Alberta. Available at:

[https://d10k7k7mywg42z.cloudfront.net/assets/5373e04e4f720a7dd40000e9/Review\\_of\\_the\\_Operations\\_of\\_Ground\\_EMS\\_in\\_Alberta\\_Final\\_Report.pdf](https://d10k7k7mywg42z.cloudfront.net/assets/5373e04e4f720a7dd40000e9/Review_of_the_Operations_of_Ground_EMS_in_Alberta_Final_Report.pdf)

Role: Principle investigator. Concept, study design, methodology, analysis, report, and knowledge translation.