



DALHOUSIE  
UNIVERSITY

***Dalhousie University***  
***Department of Emergency Medicine***  
***Division of EMS***

**17<sup>th</sup> Annual**  
**RESEARCH DAY**  
**October 20<sup>th</sup>, 2025**  
**SUMMARY REPORT**

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## OVERVIEW

The **17<sup>th</sup> Annual EMS Research Day** was held on Monday, October 20<sup>th</sup>, 2025. Thank you to the presenters and attendees for making this such a successful event. This event is hosted annually by Dalhousie University, Department of Emergency Medicine, Division of EMS, in partnership with EHS Nova Scotia and EHS Ambulance Operations (Emergency Medical Care Inc.).

The event featured a keynote address by Jennifer Greene, ACP, EHS paramedic and Knowledge Translation Specialist with the Division of EMS, Department of Emergency Medicine, Dalhousie University. Jennifer Greene's keynote talk was followed by 11 research presentations (5 projects presented by paramedics).

Each research presentation was judged by a panel of four judges, and two awards were handed out:

The **Top EMS Research Award** went to **Mohammad Sultan, PhD, MD**, a 2<sup>nd</sup> year Royal College Resident "Evaluating the Impact of Critical Care Paramedics Performing Intubations in the Emergency Department: A Prospective Observational Study."

The **Dr. Ron Stewart Top Paramedic EMS Research Award** went to **Mike Janczyszyn, ACP** "Optimizing Deployment of Automated External Defibrillators for Out-of-Hospital Cardiac Arrest: A Province-wide Approach."

## ATTENDANCE

**EMS Research Day** was advertised via email, fax, physical postings, the Department of Emergency Medicine, Division of EMS website, Facebook, Instagram, and Twitter accounts. The registration for EMS Research Day was on Microsoft Forms.

There were 179 registered attendees in person and online via Zoom. The audience was a mix of paramedics, communication officers, students, residents, physicians, nurses, health administrators, and others with an interest in EMS research from Nova Scotia, New Brunswick, PEI, Ontario, and Quebec. EHS paramedics were provided with a certificate of attendance for CEU credits.



**Save the Date**  
**17<sup>th</sup> ANNUAL EMS RESEARCH DAY**  
**Monday, October 20<sup>th</sup>, 2025**  
**Option to Attend In-Person**  
**Or Virtually**

*Dr. Edward J Cain Distinguished Scholar Keynote Speaker*

**Jennifer Greene**

ACP, MSc (C)

**Knowledge Translation Specialist, Division of EMS, Department of Emergency Medicine, Dalhousie University**  
**ACP, EHS Ambulance Service**



Jen Greene has worked in EMS research since 2011 and in paramedicine since 2007. She serves as the Dalhousie University Division of EMS Knowledge Translation Specialist, where it is her mission to get the evidence straight and get the evidence used. To enrich her ability to contribute to this mission, she is completing a Master's degree in Community Health and Epidemiology. Jen takes her knowledge of the current science to the field as an ACP, Operations Lead and Field Training Paramedic. She translates the research directly into practice as an evidence consultant for the EHS Clinical Practice Guidelines and as the program coordinator for the Prehospital Evidence Based Practice Program.

Jen is committed to advancing the paramedic profession and was one of the core group members who established the Nova Scotia Paramedic Professional Association. Through her dedication to professionalism, she was awarded the 2024 PAC Excellence in Leadership and Advocacy Award.

Jen's 2025 keynote address will be a heartfelt walk through her experience with professional development, the importance of evidence-based practice, and how to be part of the change you want to see.



**17<sup>th</sup> Annual**  
**EMS Research Day**

Monday, October 20<sup>th</sup>, 2025  
All Presentations will be In-Person  
Option to Attend Virtually

**1<sup>st</sup> CALL FOR ABSTRACTS**

The organizing committee is accepting abstracts for presentation at our  
**17<sup>th</sup> Annual EMS Research Day**

You are invited to submit abstracts NO LATER THAN  
**Midnight on August 31, 2025**

Only Completed EMS/Paramedic Services Research Projects formats will be considered for presentation.

Please submit abstracts (Word Format only) to: [gms@dal.ca](mailto:gms@dal.ca)

Each abstract must contain:

1. Introduction
2. Methods
3. Results
4. Conclusions

- Only EMS relevant topics will be considered, due to the volume of applications.
- Abstracts must be **typed (using 12-point Times New Roman font), single-spaced.**
- The maximum length for abstracts is 300 words and **text should be left-justified.**
- Abbreviations should be kept to a minimum and defined when first used.
- Paramedic presenters will be given certificates for re-licensure credit.

**Any questions or concerns?**  
**Please Email [gms@dal.ca](mailto:gms@dal.ca)**





**EMS Research Day**  
Dalhousie University,  
Department of Emergency Medicine,  
Division of EMS

**Keynote Speaker**

**Jennifer Greene,** ACP, MSc (c)

*Knowledge Translation Specialist, Division of EMS, Department  
of Emergency Medicine, Dalhousie University  
ACP, EHS Nova Scotia*

**Register today!**

To attend, please register for FREE here:  
[https://forms.office.com/r/HwJpdSMJJg?  
origin=lprLink](https://forms.office.com/r/HwJpdSMJJg?origin=lprLink)



For additional information, contact:  
Melissa MacDougall (902)943-1043 [ems@dal.ca](mailto:ems@dal.ca)

**Monday, October 20, 2025**  
*Royal Bank Theatre, QEII*  
*1796 Summer Street, Halifax, NS*  
*12:30 – 4:30 PM*

## **PRESENTERS**

### **MASTER OF CEREMONIES**

Dominic Lajeunesse, Primary Care Paramedic, kept the day interesting and running smoothly as Master of Ceremonies.

**Thank you, Dominic, for doing such a great job!**

### **WELCOME FROM THE DEPARTMENT OF EMERGENCY MEDICINE**

Dr. Simon Field MD, MSc, Department Head for the Department of Emergency Medicine, Dalhousie University, welcomed the audience on behalf of the Department of Emergency Medicine.



### **WELCOME FROM THE DEPARTMENT OF EMERGENCY MEDICINE, DIRECTOR FOR THE DIVISION OF EMS**



Dr. Mary-Lynn Watson, MD welcomed the audience on behalf of the Dalhousie University Department of Emergency Medicine, Division of Emergency Medical Services.

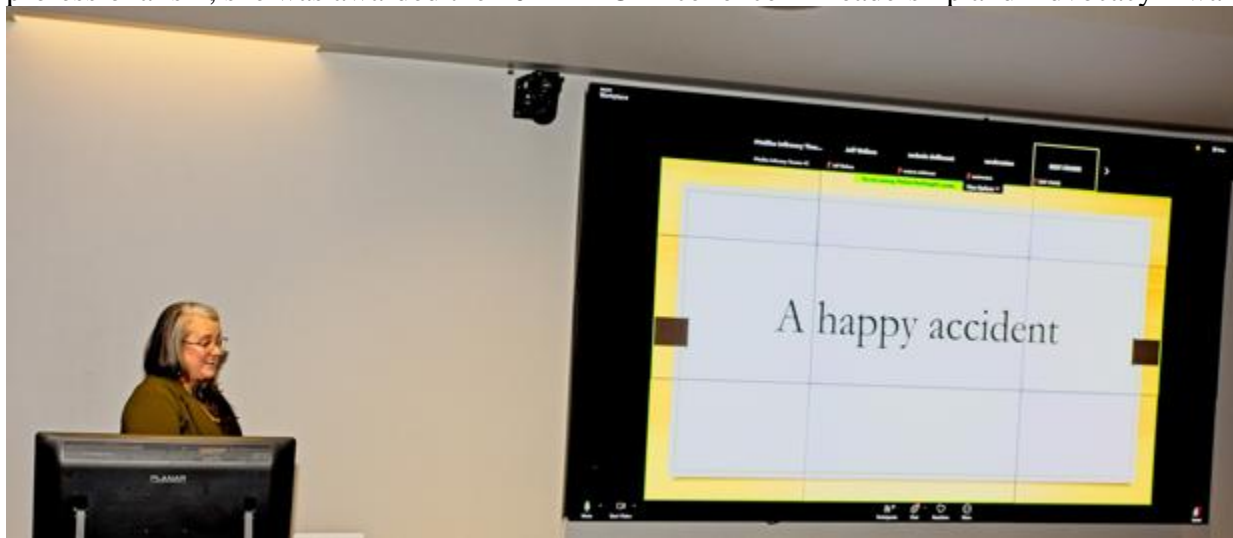
## DR. EDWARD J CAIN KEYNOTE ADDRESS

Jennifer Greene delivered the keynote address entitled *“Being the Change You Want to See”*.



Jennifer Greene has worked in EMS research since 2011 and in paramedicine since 2007. She serves as the Dalhousie University, Division of EMS Knowledge Translation Specialist, where it is her mission to get the evidence straight and get the evidence used. To enrich her ability to contribute to this mission, she is completing a Master's degree in Community Health and Epidemiology at Dalhousie University. Jen takes her knowledge of the current science to the field as an ACP, Operations Lead and Field Training Paramedic. She translates the research directly into practice as an evidence consultant for the EHS Clinical Practice Guidelines and as the program coordinator for the Prehospital Evidence Based Practice program.

Jen is committed to advancing the paramedic profession and was one of the core group members who established the Nova Scotia Paramedic Professional Association. Through her dedication to professionalism, she was awarded the 2024 PAC Excellence in Leadership and Advocacy Award.





## RESEARCH PRESENTERS

After the keynote address, there were 11 presentations by paramedics, physicians and other researchers from Nova Scotia, New Brunswick, and PEI. There was a mix of study topics presented. In addition to the oral presentations, there were networking opportunities during registration and the break.

## RESEARCH PRESENTATIONS

2025 EMS Research Day Schedule		
1250-1255	Introductions and Opening Remarks Welcome from Dalhousie Division of EMS	<b>Dominic Lajeunesse, ACP</b> <b>Mary-Lynn Watson, MD</b>
1255-1300	Welcome from Dalhousie Department of Emergency Medicine	<b>Simon Field, MD, MSc</b>
1300-1305	Welcome on behalf of EHS Introduction of Keynote Speaker	<b>Andrew Travers, MD</b> <b>MSc</b>
1305-1345	<b>Dr. Edward J Cain Distinguished Scholar Keynote</b> <b><i>“Being the Change You Want to See”</i></b>	<b>Jennifer Greene, BSc</b> <b>ACP, MSc (c)</b>
1345-1355	The Use of Situational Judgement Tests for Paramedic Selection and Education in Canada: A Cross-Sectional Survey	<b>Ryan Tingley, PCP, BSc</b>
1355-1405	Evaluating the Impact of Critical Care Paramedics Performing Intubations in the Emergency Department: A Prospective Observational Study	<b>Mohammad Sultan PhD, MD</b>
1405-1415	A Preliminary Analysis of Cardiac Arrest Diagnostic Accuracy of Ambulance Telecommunicators in Nova Scotia	<b>Judah Goldstein PCP, PhD</b>
1415-1425	Eight Minutes isn't Feasible: Analysis of Geo-Specific Response Time Benchmarks for Rural Paramedic Services	<b>Matthew Leyanaar, PhD</b>
1425-1435	Reflections on Rob Sandeski	<b>George Kovacs, MD &amp; Sean Teed, CCP, MEd</b>
1435-1500	<b>BREAK</b>	
1500-1505	Welcome on behalf of EMC	<b>Matt Crossman, COO</b>
1505-1515	Paramedics Providing POCUS for Difficult Intravenous Access in the Emergency Department	<b>Ryan Fitzpatrick, CCP</b>
1515-1525	The Epidemiology of Major Traumatic Fall Injuries in Nova Scotia: A Retrospective Evaluation	<b>Darby Green, MSc</b>
1525-1535	Optimizing Deployment of Automated External Defibrillators for Out-of-Hospital Cardiac Arrest: A Province-wide Approach	<b>Mike Janczyszyn, ACP</b>
1535-1545	Closing the Gap in Hemorrhage Control: A Novel Education Intervention for Firefighters	<b>Kenzie MacLean, BA, PCP and Wade Young</b>
1545-1555	The Influence of Pre-intubation Checklists on Definitive Airway Aans Hypoxia or Hypotension on the 1st Attempt (DASH-1A) in a Critical Care Transport Setting	<b>Benjamin Rittenberg, MSc</b>
1555-1605	The Association of Emergency Medical Services Utilization by Patients with Palliative or End of Life Care Needs with Metropolitan Influence Zone	<b>Kaleigh McLeod, PCP, BSc</b>



1605-1615	A Population-based Analysis of Prognostic Factors Associated with Survival in Adult Traumatic Cardiac Arrest Patients	<b>Robert Green, MD</b>
1615-1630	Judges Deliberation, Awards Presentation, and Closing Remarks	<b>Dave Hung, MD</b> <b>Judges</b> <b>Organizing Committee</b>

## JUDGES

Judging was conducted by a four-person panel: Jennifer Greene, Dr. Matthew Leyanaar, Izabella Opra, and Dr. Mary-Lynn Watson.

Each judge was provided with instructions and a score sheet for every research project that was presented. Each presented study was independently scored on:

### 1. Content:

- Objectives
- Background
- Methods
- Results
- Discussion
- Implications
- Limitations
- Conclusions
- Overall presentation

and

### 2. Contribution to EMS:

- Relevance
- Originality of the study
- Potential contribution to EMS literature and EMS practice
- Overall quality of the study

All projects were considered for the **Top EMS Research Project Award**, and three paramedic projects were considered for the **Dr. Ron Stewart Award for Most Significant Research by a Paramedic**.

## AWARDS

### TOP EMS RESEARCH PROJECT AWARD

The **Top EMS Research Project Award** was awarded to Dr. Mohammad Sultan for “Evaluating the Impact of Critical Care Paramedics Performing Intubations in the Emergency Department: A Prospective Observational Study.”



*Left to right: Dr. Mary-Lynn Watson & Dr. Mohammad Sultan*

### DR. RON STEWART AWARD FOR MOST SIGNIFICANT RESEARCH BY A PARAMEDIC

The **Dr. Ron Stewart Award for Most Significant Research by a Paramedic** was awarded to **Mike Janczyszyn** “Optimizing Deployment of Automated External Defibrillators for Out-of-Hospital Cardiac Arrest: A Province-wide Approach.”



*Left to right: Dr. Dave Hung & Mike Janczyszyn*

## SPONSORSHIP

Dalhousie University, Division of EMS Research Day received financial contributions and support from **Emergency Medical Care Inc., Zoll/ Braemed Ltd, ESO, Class Publishing, and Emergency Health Services.**

Without this valuable support, we would not be able to present this important day of knowledge translation to the EMS community.



THANK YOU VERY MUCH TO OUR SPONSORS FOR HELPING  
MAKE DALHOUSIE UNIVERSITY, DIVISION OF EMS  
RESEARCH DAY 2025 POSSIBLE

