



Canada's Capital University

**Subject:** Invitation to participate in a research project on Drone delivered Automatic External Defibrillators (AEDs) for Out of Hospital Cardiac Arrest (OOHCA) with Older Adults

2021-09-10

Hello,

My name is Lauren Tierney and I am a Master's student in the Department of Industrial Design at Carleton University. I am working on a research project under the supervision of Prof. Chantal Trudel and Dr. Jeremy Laliberte.

I am writing to you today to invite you to participate in a study entitled "Drone Delivery of AEDs for Pre-Hospital Cardiac Arrest: A Human Factors Analysis". This study aims to evaluate the bystander experience of a simulated drone delivered Automatic External Defibrillators (AED) for out of hospital cardiac arrest (OOHCA). Understanding people's experiences with these novel health delivery technologies will help inform the design of drone delivered AEDs for OOHCA. This first phase of the study intends to evaluate your eligibility, study group, baseline demographics, and baseline knowledge pertaining to First Aid, CPR & AED Training, telephone use, and drones.

To be eligible for this survey, you must be aged 60 years or older, speak/understand fluent English, and you must be a primary decision maker (that is, able to make decisions for yourself).

This first phase of the study involves your participation in:

1. a short (10-25 minute) survey completed online

If you should meet the study eligibility, you may be contacted to participate in:

1. a simulation of a drone delivery of an AED simulation at the Ottawa L5 Connected and Autonomous Vehicle test facility
2. a short interview (20-30 minutes) after the simulation session.
3. other follow up research

This study is run through Carleton University; external stakeholder groups are not involved in the running of this study, and will not have access to your personal data or information.

You will have the right to skip questions in the survey that you do not want to

## Appendix A

answer and end your participation in the study at any time, for any reason, up until 1 week after the survey. If you choose to withdraw, all the information you have provided will be destroyed.

No compensation will be given.

All research data will be encrypted and password-protected. All data and project documents will be stored in Citrix Sharefile. This service is hosted at Carleton University and all of the research data is securely stored in Carleton's data centres. Only the research team has an account to this folder and will have access to the data. With this system, the data, while in transit, is encrypted. It is not encrypted at rest in the system. The data is protected by password and two-factor authentication for all users. Any hard copies of data including any handwritten notes or USB keys, etc., will be transcribed or scanned and stored in Citrix Sharefile. The hardcopies will be immediately destroyed. Research data will only be accessible by the researcher, research assistants, and the research supervisors. Data may be shared with other researchers working in drone healthcare delivery to support future work.

This research has been cleared by Carleton University Research Ethics Board (CUREB-B) (B) Clearance #116078

Should you have any ethical concerns with the study, please contact the REB Chair, Carleton University Research Ethics Board-B (by email: [ethics@carleton.ca](mailto:ethics@carleton.ca)). For all other questions about the study, please contact the researcher.

If you would like to participate in this research project, or have any questions about the research, please contact me at:

**[laurenttierney@cmail.carleton.ca](mailto:laurenttierney@cmail.carleton.ca)**

Sincerely,

Lauren Jamie Tierney