
Transitions to LIVE

Research Study



**Dr. Reshma Amin,
Principle Investigator, TtLIVE Research Study**

Dr. Amin is a physician at the Hospital for Sick Children in Toronto where she holds the position of Director of Sleep Medicine and Long Term Ventilation Program providing ventilatory support to over 400 children in the province of Ontario. Dr. Amin is also a Senior Associate Scientist in Child Health Evaluative Sciences at the SickKids Research Institute and an Associate Professor of Pediatrics and Health Policy, Management and Evaluation at the University of Toronto. She is also the Director of the provincial Long-term In-Home Ventilator Engagement (LIVE) Program.

Dr. Amin, you are the Principle Investigator of a research study called TtLIVE. Can you tell us about the TtLIVE study?

The TtLive study is the Transitions to Long-term In Home Ventilator Engagement Study. It is a multi-center randomized controlled trial occurring in Ontario, Canada. Children or adults going home with a ventilator (i.e. a breathing machine) for the first time are eligible to participate. Participants in the study will receive a virtual care platform for care management or usual standard of care for 12 months.

How many hospitals in Ontario are participating in the TtLIVE study?

We are very fortunate to be partnering with 8 hospitals (4 pediatric and 4 adult).

- The Hospital for Sick Children
- Sunnybrook Health Sciences Center
- West Park Healthcare
- The Ottawa Hospital
- London Health Sciences Center
- Children's Hospital of Eastern Ontario
- Children's Hospital-London Health Sciences Centre
- McMaster Children's Hospital

In addition, we are excited to be collaborating with the Ontario Ventilator Equipment Pool.

What do you hope to better understand from this research study? How will this benefit ventilator-assisted individuals?

eHealth or virtual care is an opportunity to bring the right people with the right expertise at the right time into the homes of individuals using ventilators. This is a potential way to overcome the challenges of distance, time and communication gaps for these individuals with complex care needs. We want to understand if a virtual care platform can decrease Emergency Room visits and hospital admissions, decrease caregiver burden and improve patient and family health related quality of life. We also want to know if virtual care is cost-effective for the healthcare system.

We hope to learn how virtual care can be effectively used to support patients and families with ventilators at home both during the pandemic as well as beyond.

How many participants do you hope to recruit?

We are hoping to recruit 440 individuals newly going home with a ventilator throughout Ontario.

What can a research participant expect during the TtLIVE study?

The first thing to mention is that with participation in the study, there are no in-person study visits. Everything can be done from the comfort of your home. If you are in the intervention group (ie ½ of participants that receives the virtual care platform), there is a research team member that helps you download the app onto your phone or computer and they walk you through how to use it. Your clinical team also connects with you to discuss how they will be communicating with you and vice versa for the virtual care platform. For the study evaluation, there are a series of questionnaires that are completed for all study participants over the phone or online.

Whom do I contact for more information?

If you are interested in hearing more about the study, please contact the study's Program Manager Munazzah Ambreen at (416) 434-2542 or Munazzah.ambreen@sickkids.ca.

The full *Transitions to Long-term In Home Ventilator Engagement Study* protocol may be viewed in *Trials* at: <https://rdcu.be/cGy5E>.

Hello From The Transition to Long-Term In Home Ventilator Engagement (TtLIVE) Study!



What is TtLIVE?

TtLIVE is a multi-center randomized controlled trial that launched March 2021 to evaluate the impact of an eHealth intervention compared to usual care.



Who Are We?

@DrReshmaAmin, @ProfLouiseR, and @AndreaGershon are the P.I.s of the study.

The study sites include:

- The Hospital for Sick Children
- Sunnybrook Health Sciences Center
- WestPark Healthcare Center
- London Health Science
- Children's Hospital London Health Sciences Centre
- McMaster Children's Hospital
- The Ottawa Hospital
- Children's Hospital of Eastern Ontario
- The Ontario Ventilator Equipment Pool,
- Kingston General Hospital



What is the eHealth Intervention?

The intervention includes virtual clinic visits, patient-facing virtual care plans, surveillance questionnaires for symptoms and ventilator issues, remote ventilator monitoring, two way communication via text, phone or video with patients, families and the healthcare team as well as an educational resource library



Who Can Participate in the Study?

Any child or adult in Ontario that is going to be using a ventilator at home for the first time.



What is the Study Measuring?

The study is evaluating the impact of using an eHealth intervention for 12 months on healthcare utilization and costs, the patients and family and healthcare providers.



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