



Executive Summary



→ Transport Ventilators

Introduction

Ventilators are a lifeline for patients who are unable to breathe on their own. Whether the cause is trauma, illness, surgery, or chronic disease, the need for mechanical breathing support spans all ages—from newborns to adults. At North Bay Regional Health Centre (NBRHC), these machines are used across high-acuity units such as the Neonatal Intensive Care Unit, Critical Care Unit, and Emergency Department, and are especially important when transporting patients to and from specialized facilities.

Current Challenges

A number of ventilators currently in use at NBRHC are aging beyond their intended service lifespan. They require increasingly frequent maintenance, and in some cases, sourcing replacement components has become difficult, leading to longer downtimes.

Current systems lack advanced functionality, such as adaptive ventilation and are not suitable for streamlined use across diverse patient populations. Their limitations are particularly pronounced during patient transfers, where the need for stable and uninterrupted respiratory support is non-negotiable.

Having multiple types of ventilators in circulation creates greater inefficiency as staff must be trained on a variety of interfaces and protocols, which complicates workflows.

The Solution

To ensure continuous, responsive respiratory care for patients across all ages and care settings, NBRHC will acquire five (5) advanced, all-in-one transport ventilators that meet current clinical needs and align with future standards in care delivery.

The Project

Our new systems will be compact and transport-ready, designed to deliver both invasive and non-invasive ventilation. Each unit can be quickly adjusted to support adult, paediatric, or neonatal patients without the need to switch equipment, allowing for greater flexibility and efficiency across clinical settings.

Standardizing ventilator equipment across departments also simplifies training, improves staff readiness, and supports more coordinated response times. The total cost of this project is estimated to be \$272,500, which includes five ventilators priced at \$51,500 each and \$15,000 dedicated to staff training and system implementation.

“These new ventilators will improve our ability to treat critically ill patients both in the hospital and during transport, ensuring continuous high-quality care.”

Rhonda Contant
Respiratory Therapist



The Impact

These ventilators will strengthen the quality and continuity of respiratory care across NBRHC.

With one unified system across departments, healthcare teams can respond faster and more confidently in high-pressure situations.

The machines' versatility ensures that patients of every age and diagnosis receive consistent, safe respiratory support—whether at the bedside or in transit.

By replacing outdated equipment with a future-ready solution, we are directly addressing both current pressures and long-term needs in respiratory care.

Conclusion

This investment reflects NBRHC's ongoing commitment to delivering safe, modern care, close to home. By standardizing ventilator equipment across key departments, we are equipping our clinical teams with the tools they need to respond effectively, protect patient safety, and maintain high standards of care at every stage of the patient journey.