

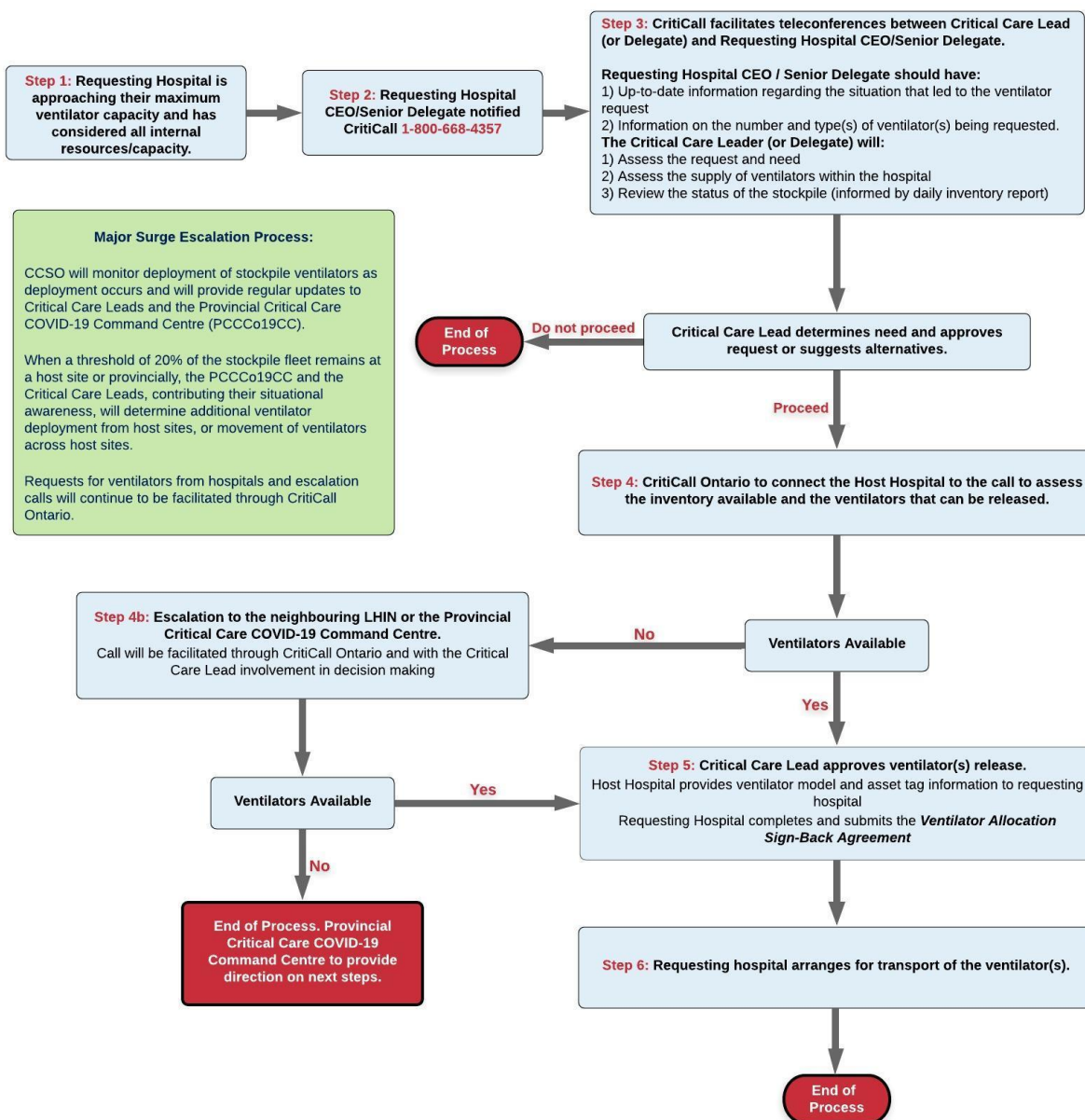
Ontario's Critical Care Ventilator Stockpile: COVID-19 Pandemic Process Addendum

This document is an addendum to the [Ontario Critical Care Ventilator Stockpile Guidance Document \(February 2021\)](#) produced by Critical Care Services Ontario (CCSO).

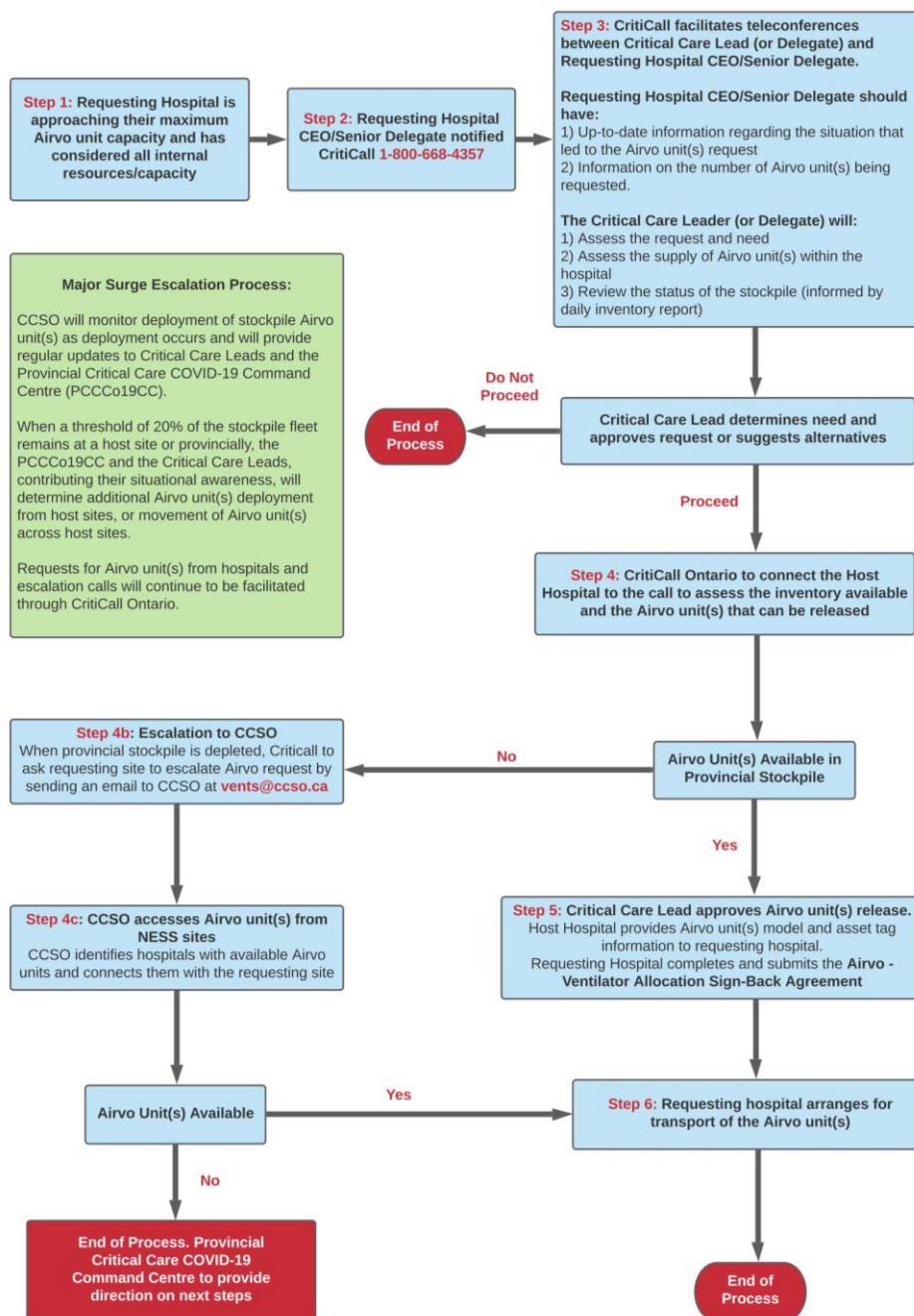
Key Messages:

- Ontario's provincial ventilator stockpile distribution was determined to align with LHIN boundaries in 2009. For anticipated increasing requests and use of ventilators from the stockpile as a result of the COVID-19 pandemic, the LHIN geographies and current host hospitals will continue to be used for distribution decisions as resources are available at a local level. The situation may arise when escalation threshold levels are reached and decisions to move ventilators outside current distribution patterns or to other host sites may be made. Decisions of this nature will be escalated and reviewed among the impacted Critical Care Clinical leads or regional Critical Care lead, or the Provincial Critical Care Command Centre, as per circumstance.
- As is consistent with critical care surge principles, all hospitals requesting ventilators from the Provincial Ventilator Stockpile **must first prioritize the use of any ventilators and airvo units in their hospital. Additional ventilator and airvo unit resources should be considered from outside of critical care units** (i.e., ventilators in PACU, ER, transport vents, possibly anaesthetic gas machines (AGMs - if planned for inclusion in hospital's pandemic plan) prior to initiating a local /regional level or a provincial level request for resources from the provincial stockpile. Any ventilators and airvo units within a hospital's current fleet, inside and outside the critical care unit, should be identified and put into service before accessing ventilators from the provincial stockpile.
- **All requests from hospitals for provincial stockpile ventilators must be facilitated through CitiCall Ontario at 1-800-668-4357.**
- **All hospitals, including host hospitals, must follow the same process to access resources from the Provincial Ventilator Stockpile.**
 - This is to ensure that an up-to-date ventilator inventory is maintained and critical care resources are sustained across the province.
- **Escalation:**
 - CCSO will monitor the deployment of stockpile ventilators and airvo units as deployment occurs and will provide regular updates to Critical Care Leads and the Provincial Critical Care COVID-19 Command Centre (PCCCo19CC).
 - When approaching a threshold of 20% of the stockpile fleet at a host site or provincially, the PCCCo19CC and the Critical Care Leads will contribute their situational awareness to determine additional ventilator deployment from host sites and/or movement of ventilators across host sites.
 - Requests for ventilators and airvo units from hospitals and escalation calls will continue to be facilitated through CitiCall Ontario.

Procedure for Requesting a Ventilator from the Provincial Stockpile: Pandemic Response



Procedure for Requesting an Airvo Unit from the Provincial Stockpile: Pandemic Response



Additional Information for Requesting a Ventilator from the Provincial Stockpile

Step 1: Before a requesting hospital initiates a request for an additional ventilator(s) from the provincial stockpile, **the hospital is required to have engaged in the following:**

- **Explored all available internal ventilator and/or airvo unit resources to support ventilated or non-ventilated patients including access to transport vents, or anesthesia gas machines, or high flow oscillation units.**
- Leveraged any **donated ventilators** from community partners (colleges, universities, private surgery practices, etc.)
- If all internal resources have been considered and the need for additional ventilators and airvo units still exists, the requesting hospital CEO/senior delegate should **contact CritiCall Ontario at 1-800-668-4357** and follow the ventilator/airvo unit request process outlined above.

Step 3: Requesting hospitals should have information on the type of ventilator being requested from the stockpile. Not all ventilator types or airvo units may be available in all areas of the province. Models included in the ventilator stockpile are:

Provincial Stockpile Ventilator Models
Airvo 2
BOMImed Hamilton T1
Covidien Puritan Bennett 840
Draeger Evita XL
Draeger V500
GE Carescape R860
Getinge Servo-N
Getinge Servo-U
Trudell AVEA
Trudell BellaVista 1000

Step 5: Requesting hospitals must submit the [Ontario Ventilator Stockpile Allocation Sign-Back Agreement for Requesting Hospitals](#)

- A copy of this form is included in the appendix for reference

Step 6: Accountabilities of the requesting hospital once the transfer has been approved

- Requesting hospitals are responsible for arranging transport for the ventilators or airvo units accessed from the provincial stockpile.
- Requesting hospitals are accountable for completing a respiratory therapy and biomedical check when the ventilator or airvo unit is received (the ventilator or airvo unit will have also been checked by the host hospital before the unit was transported). This form can be found on the CCSO website using the following link: <https://criticalcareontario.ca/resources/?resource-category=ventilator-stockpile>

- When patient disposition indicates the ventilator or airvo unit is no longer required for that patient encounter at the requesting site, but because ongoing increased volumes or pressures in critical care capacity in the imminent future indicate use of the ventilator or airvo unit, the ventilator or airvo unit may remain at the site until active use of the ventilator or airvo unit is completed. CCSO may request status updates at any time.
- When the ventilator or airvo unit is no longer required at the requesting hospital for patient care:
 - The ventilator or airvo unit should be returned to the host hospital site with an update provided to CCSO via email (vents@ccso.ca) with the following information:
 - i. Ventilator model or Airvo Unit
 - ii. Ministry asset tag number
 - iii. Contact name and phone number for the biomedical department where the ventilator is stored.
 - Requesting hospitals will also need to complete a biomedical check when the ventilator is returned to the host hospital so that it is ready for redeployment. This form can be found on the CCSO website using the following link:
<https://criticalcareontario.ca/resources/?resource-category=ventilator-stockpile>
- Any subsequent requests to access ventilators or airvo units from the provincial stockpile after it has been placed into storage or returned to the host hospital will need to follow the procedure outlined above for requesting a ventilator or airvo unit.

Role of Ontario's Provincial Ventilator Stockpile

Critical Care Services Ontario (CCSO) is committed to the improvement of critical care services across Ontario. CCSO's mandate is to work closely with health service providers to implement programs that improve access, quality, and integration of critical care services to meet the needs of critically ill patients. CCSO oversees the release and distribution of the ventilators from the provincial stockpile and assists in coordinating information related to repair needs.

When a hospital experiences a surge in demand for critical care capacity, and the number of patients requiring critical care services increases, the hospital's *Surge Capacity Management Plan* is put into action. These plans are centered on common elements and principles which are aimed at ensuring all hospitals have a standardized surge response process. Surge response plans allow hospitals to escalate through a seamless, coordinated response from one level of surge to the next.

A subset of the *Ontario Surge Capacity Management Plan* is the provincial ventilator stockpile which is intended to help hospitals manage unexpected increases in demand for critical care ventilation resources, ensuring that all patients receive appropriate treatment in a timely manner.

In circumstances when hospitals have physical bed capacity, but insufficient ventilators to support critical care patients requiring mechanical ventilation, hospitals can access ventilators for temporary periods of time from the province's stockpile. This *Ontario's Ventilator Stockpile Guidance Document* outlines the process and associated procedures for accessing the provincial ventilator stockpile.

Appendix:

Ontario Ventilator Stockpile Allocation Sign-Back Agreement for Requesting Hospitals

**Ontario Ventilator Stockpile Allocation Sign-Back Agreement for Requesting Hospital**

To be completed by each hospital site requesting ventilator(s)

On behalf of the hospital, I acknowledge that our organization will receive Choose a number ventilator(s) and supporting equipment.

Legal Name of Health Service Provider/Hospital Corporation:

Hospital Site Name:

Contact Number:

Email:

Unit Type: ☐ Adult ICU ☐ Paediatric ICU ☐ Neonatal ICU

Ventilator Type Provided to Hospital Site	Number Approved	Asset Tag Number(s)
BOMImed - Hamilton T1		
Draeger Evita XL		
Draeger v500		
GE Carescape R860		
Getinge Servo-U (Adult)		
Getinge Servo-N (Neonatal)		
Medtronic PB840		
Trudell AVEA		
Trudell BellaVista 1000		
TOTAL		

On behalf of the hospital identified above, I agree that this/these ventilator(s) and supporting equipment must be utilized in accordance with and subject to the criteria and terms outlined herein. This allocation will be subject to audit, report back and reconciliation.

CEO/Delegate Name (at Requesting Hospital)

Signature (Not Required)

Email/Phone Contact

Date

Please ensure this form is completed and returned to the following:

1. Local Host Hospital
2. CitiCall By Fax: (905) 388-6377 and by email: Vent_Distribution@criticalcall.org
3. CCSO via email: vents@ccso.ca