

CAREvent[®] MCVS

Mass Casualty Ventilation System



"Providing the greatest good for the greatest number of patients"



MEDICAL TECHNOLOGIES INC

"INNOVATION IN RESUSCITATION"

CAREvent[®] MCVS

The effects of a respiratory pandemic or mass casualty situation will stretch the resources of every healthcare facility and their staff. In the event of a major pandemic most healthcare facilities will be drastically under equipped to meet the patient requirements for mechanical ventilation.

A mass casualty scenario such as the release of a toxic substance or other natural or man made disaster could see local resources stretched to the limit.

In an influenza, avian flu or SARS type epidemic hospitalization rates are projected to be in the 5% of the population range and ventilator support being required by 7.5% of these patients for an average of 9.5 days. In the USA alone this could mean:

- **118 million clinically ill patients!**
- **15 million patients hospitalized!**
- **1.1 million requiring mechanical ventilation!**

To deal with this projected shortage, stockpiling of ventilators at the Federal/State/Province Health Authority levels has either been established or is in progress. However, even with this stockpiling of ventilators, there will undoubtedly be an insufficient quantity of ventilators to meet the ventilation needs of every patient. In addition, as highly skilled, front line healthcare providers may be the first casualties of any pandemic before it is recognized, there will also likely be a significant shortage of qualified staff available to run them.

There has been a focus on the lack of oxygen to run pneumatically ventilators, due to supplies being exhausted and additional stocks being unavailable from the manufacturers. Battery powered ventilators have therefore been proposed for stockpiling. While not requiring oxygen as a power source these products will require a significant support mechanism to ensure that they are constantly fully charged and in a ready state for any emergency. However, one readily available, renewable, in-hospital resource appears to have been overlooked -

Piped Medical Air.

Every hospital has a compressor to generate medical air for use in the hospital. These compressors are electrically driven. An acute care facility must have a secondary, back up compressor. In a power outage, hospitals also have generators so that these compressors would never be out of service. Medical air outlets are provided at the bedside in all patient areas. Why not then power simple, low cost pneumatic ventilators with medical air?

The CAREvent[®] MCVS systems provides automatic ventilation in the form of simple to use, hand held automatic ventilators coupled to a 7 outlet manifold which can be supplied from one medical air outlet. The CAREvent EMT[®] ventilators supplied with this system are, pneumatically powered time cycled, pressure limited devices which can be attached to an ET tube or any other airway adjunct including a facemask. A 3 foot patient ventilation circuit is also available to allow for less weight on the ET tube and a built in "Gurney Clip" allows for the attachment of the ventilator to the hand rail of the gurney.

If required. Breathing air filters, HMEs and airway pressure manometers are also available to reduce the risk of airborne contamination from exhaled air, provide heat and humidification to the patients airway and to allow the healthcare provider to monitor the airway pressure.

The 6 position slider control provides a range of tidal volume and ventilation rate settings calibrated in line with the current resuscitation guidelines. A manual override button allows the healthcare provider to assist the patients spontaneous respirations The 25 foot manifold supply hose and 25 foot supply hoses for each ventilator allow for this device to be positioned in the center of the ER or other patient area to ventilate up to 7 patients simultaneously!

Ideal for short to medium term ventilation of the respiratory impaired patient and easily set up by any level of healthcare provider using the simple instructions on the user card, the CAREvent EMT[®] and MCV manifold are a simple, cost effective option for pandemic/mass casualty ventilation.

SPECIFICATIONS

CAREvent[®] MCVS System - c/w 25 ft manifold supply hose, manifold with 7 x DISS check valve outlets. 7 x 25 ft ventilator supply hoses, 7 x Single use patient circuits with airway pressure gauge and 7 x CAREvent EMT[®] Automatic Transport Resuscitators in a soft pack storage case

Ordering Information:

01CV0500-MCV CAREvent[®] EMT - Manual and automatic transport ventilator c/w with 25 Foot Supply Hose
01OR6302-MCV Multi-Patient Unit (Services up to 7 Patients) c/w with 8 X 25 Foot Supply Hoses

O-TWO MEDICAL TECHNOLOGIES INC. **"INNOVATION IN RESUSCITATION"**

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