O2 e700 Ventilator Protocol



The following guidelines are recommended for the intended use the e700 is a time-cycled, volume-constant and pressure-controlled emergency and transport ventilator designed for use in the pre-hospital, intrahospital, inter-hospital and transport settings. It is intended for use with Adult, child, infant patients with a tidal volume from 50 ml upwards who are in respiratory and/or cardiac arrest or respiratory distress and who require the ventilatory support.

Contraindications:

- 1. Patients under 5kg
- 2. Patients tidal volume under 50ml

Procedures:

- 1. Determine the need for ventilation or assisted ventilation
- 2. Establish airway
- 3. Paramedic shall perform endotracheal intubation if sedation is required see RSI protocol
- 4. Assemble the components of the O2 e700 vent assure proper working order.
 - Select vent mode which are (Assist Control Ventilation). In this mode the ventilator can deliver volume ventilation.
 - SIMV (Synchronized Intermittent Mandatory Ventilation). In this mode the ventilator will deliver volume ventilation.
 - BiLVL (Biphasic Positive Airway Pressure) BiLVL mode is similar to SIMV but comes with pressure ventilation.
 - CPAP (Continuous Positive Airway Pressure) In CPAP mode, the ventilator will deliver a continuous flow rate to generate airway pressure and use the control valve to maintain CPAP levels.
 - CPR mode The CPR mode consists of timed chest compression audible prompts coupled with automatically delivered breaths for both intubated and mask ventilated patients.
- 5. Determine the proper tidal volume for the patient. Use following equation for adults and pediatric patients for ideal body weight. Tidal Volume; amount of air delivered in a single breath measured in ml. Average adult Vt is 6-8 ml/kg based on ideal body weight. Ideal Body Weight is based on gender and height. Male: 52 kg + 1.9 kg per inch over 5 feet Female: 49 kg + 1.7 kg per inch over 5 feet.
 - Example for 6' male 52kg + 22.8 = 74.8 x 8 = 598.4 tidal volume
 - Example for 5'5" female 49kg + 8.5 = 57.5 x 8 = 460 tidal volume
- 6. Set desired breaths per minute on the ventilator control module
 - Intubated Adults 8-10 per minute
 - Intubated Pediatrics 16-20 minute
- 7. Attach the O2 e700 circuit to vent and to endotracheal tube.

