BVM Ventilation

Procedure

Douglas County KS EMS System

November 2022

Approved Provider: EMR, EMT, AEMT, Paramedic

Reference Protocols: Breathing Difficulty, CAPE, CHF

Indications

Patients who need assistance with ventilations

- Hypoxia without response to supplemental o2
- Hypercapnia such as COPD or resp acidosis
- Apnea
- AMS with inability to protect airway
- RR < 8/min or > 40/min
- Any patient exhibiting signs and symptoms of respiratory distress in whom other measures have failed

Contraindications

None

Procedure (Fig. 1)

- Select and assemble equipment
- Attach to oxygen supply set at 25lpm
- Ensure full inflation of reservoir bag
- Apply and maintain face to mask seal
- Pointed end of mask over bridge of patient's nose
- Base of mask should rest between patient's lower lip and chin
- Use E-C technique (see Fig. 1)
- Place thumb and index finger form a C around the mask
- Place 2 or 3 fingers under the mandible and bring the chin into the mask to obtain a seal
- Ventilations should be slow and rhythmic with sufficient volume to observe chest rise
- Rate should be 1 breath every 6 seconds (ETCO2 maintained 35-45)

Airway Stack (Remove ResQPod when not in cardiac arrest or after ROSC)

- Airway Device (ET, Igel, Mask)
- ResQPod
- ETCO2 filter line set
- Accuvent sensor
- Viral filter
- BVM

Precautions

- Rapid forceful ventilations may force air into the esophagus and induce vomiting
- Over inflation of the lungs may result in lung trauma such as pneumothorax

Documentation

- Indications for procedure
- Response to procedure

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Notes

- As soon as possible an appropriate airway adjunct (OPA or NPA) should be placed When possible, Two-Person BVM should be used

Fig. 1



1-hand technique for BVM



2-hand technique for BVM