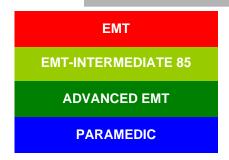


EMS System for Metropolitan Oklahoma City and Tulsa 2018 Medical Control Board Treatment Protocols



Review and Approval 3/14/18, Effective 6/1/18, replaces all prior versions

3K – NON-INVASIVE POSITIVE PRESSURE VENTILATION (NIPPV) ADULT



Indications:

- 1. Dyspnea Uncertain Etiology Adult.
- 2. Dyspnea Asthma Adult.
- 3. Dyspnea Chronic Obstructive Pulmonary Disease (COPD) Adult.
- 4. Dyspnea Congestive Heart Failure (CHF) Adult.
- 5. Acute Allergic Reactions Adult (Dyspnea).
- 6. Water Submersion Event Adult (Dyspnea).

Contraindications:

- 1. Apnea.
- 2. Pediatric dyspnea.
- 3. Adult dyspnea of lesser severity able to be managed without NIPPV.
- 4. Adult dyspnea of greater severity requiring invasive airway management.
- 5. Altered mental status preventing patient cooperation with NIPPV.
- 6. Active or suspected impending emesis.
- 7. High risk of aspiration/Impaired gag reflex.
- 8. Facial trauma/features impairing a tight NIPPV mask-face seal.



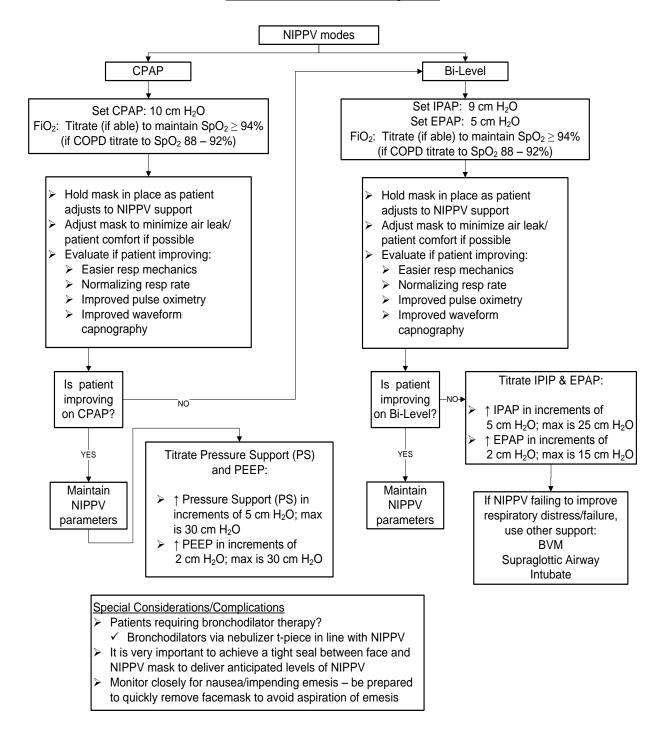
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* EMS SECTION

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Bi-Level/CPAP Ventilation Algorithm





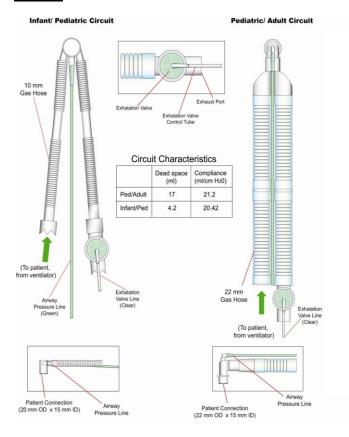
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Technique (ZoLL Model 731):

Circuits:



- 1. 731 ventilator circuits feature a low dead space design that minimizes CO2 rebreathing.
- 2. Note: dead space (circuit and HME) should never be greater than <u>25%</u> of the patient's tidal volume (set or spontaneous.
- 3. The 2 standard ventilator circuits cover the range of patient from infant through adult.
 - Pediatric/adult patients 20 kg through adult, minimum tidal volume 200mL;
 - Infant/pediatric 5 through 30 kg, maximum tidal volume 300 mL.***DO NOT USE FOR NIPPV

Connections - check the ventilator for proper operation before connecting to patient:

<u>Step 1</u>: Connect ventilator circuit (use test lung whenever possible) oxygen hose to 55 psi regulated output.



Clear hose to exhalation valve

Patient circuit corrugated tubing to gas



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Step 2: Power



Step 3: Changing a Primary Parameter:

- Unit performs a Self-Check and AUTO-CAL of the internal transducers.
- 731 then begins operation using the default settings.
- AUTO-CAL is performed every 5 minutes thereafter or when an altitude or temperature change is detected.
- Start-up settings may be changed during operation at any time.

Factory Defaults:

FiO2: 21%
High PIP Limit: 35 cm H2O
PEEP: 5 cm H2O
Vt: 450 ml
BPM: 12
I:E 1:3
Mode: AC (V)

3. Confirm by Press select "√" to accept new value



- 1. Current value is highlighted.
- 2. Turn rotary encoder to desired value.
 - Adult
 - > Pediatric
 - ➢ NIPPV
 - Custom (Cardiac Arrest)
 - Last setting

Remember: "Touch, Turn, Confirm"™