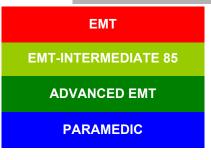


EMS System for Metropolitan Oklahoma City and Tulsa 2025 Medical Control Board Treatment Protocols



Approved 9/04/24, Effective 1/15/25, replaces all prior versions

3K – NON-INVASIVE POSITIVE PRESSURE VENTILATION (NIPPV) ADULT & INTER- FACILITY PEDIATRIC



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).
- 7. Pediatric Dyspnea Inter-Facility Continuation of Care.

Contraindications:

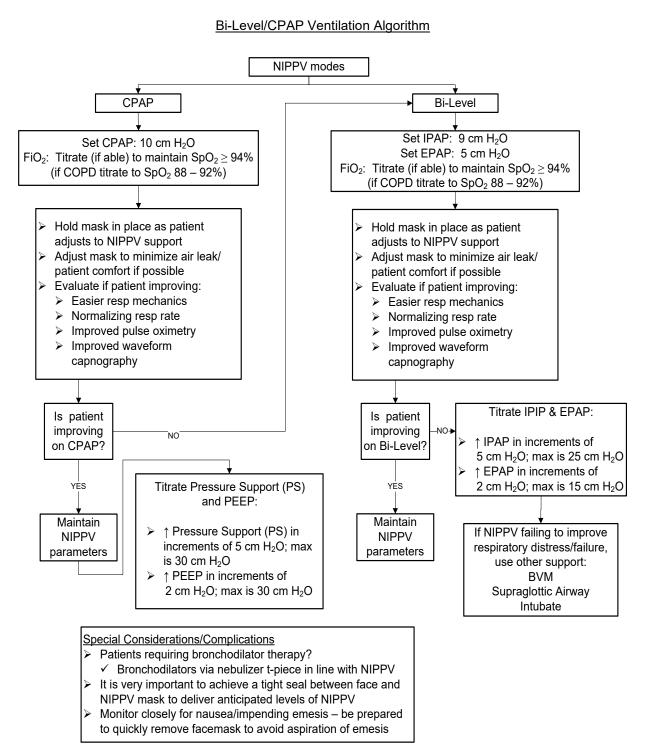
- 1. Apnea.
- 2. Pediatric dyspnea- Non-Inter-Facility/Non-Continuation of Care.
- 3. Adult dyspnea of lesser severity able to be managed without NIPPV.
- 4. Adult dyspnea of greater severity requiring invasive airway management.
- 5. Altered mental status preventing patient cooperation with NIPPV.
- 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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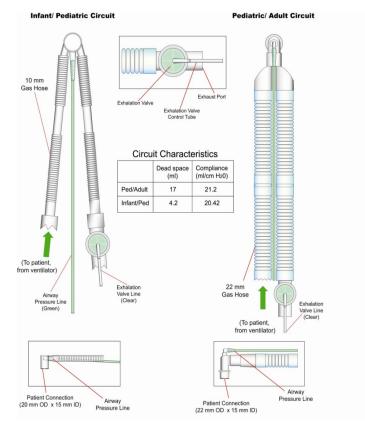


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PROTOCOL 3K: Non – Invasive Positive Pressure Ventilation (NIPPV) - Adult & Inter-Facility Pediatric, cont.

Technique (ZoLL Z Vent):

Circuits:



- 1. Zoll Z 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.

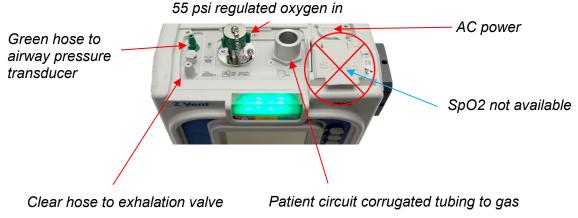
Pediatric/adult – patients 20 kg through adult, minimum tidal volume 200mL.

Ventilator use in pediatrics restricted to inter-facility transport only.

Infant/pediatric – 5 through 30 kg, maximum tidal volume 300 mL. ***Ventilator use in pediatrics restricted to inter-facility transport only.***

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.





3. Press select

new value

" $\sqrt{}$ " to accept

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PROTOCOL 3K: Non - Invasive Positive Pressure Ventilation (NIPPV) - Adult & Inter-Facility Pediatric, cont.

Step 2: Power



Step 3: Changing a Primary Parameter:

- Unit performs a Self-Check and AUTO-CAL of the internal transducers.
- Zoll Z 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)

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

Remember: "Touch, Turn, Confirm"™