



DRAFT for Review and Action 5/11/22, Effective 5/11/22, 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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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.







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