

Respiratory MICU Ventilator Weaning Protocol

A UMC Health System Performance Improvement Initiative for use in <u>MICU</u> where patients requiring ventilator weaning receive care.

- 1. DAILY SCREENING: (All of the following conditions must be met)
 - a. $Fi0_2 \le 40\%$
 - b. $PEEP \le 5 cmH_20$)
 - c. Adequate cough during suctioning (intact airway reflexes)
 - d. Minimal vasopressor agents (dopamine ≤ 5 mcg/kg/min acceptable)
 - e. Minimal sedative agents (intermittent dosing acceptable)
 - f. Acceptable nutritional status
- 2. Trial of spontaneous breathing:

PERFORM CUFF LEAK TEST PRIOR TO PLACING ON CPAP

CPAP 5 with PS of 5 cmH20 for 2 hours

- 3. Trial will be stopped if ANY of the following conditions are observed:
 - a. RR > 35 breath/minute for > 5 minutes
 - b. $Sa0_2 < 90\%$
 - c. HR > 140 beats/minute
 - d. Sustained increase or decrease in HR by ≥ 20%
 - e. Systolic BP > 180 mmHg or < 90 mmHg
 - f. Increased anxiety
 - g. Diaphoresis
- If any of the above condition are observed the trial is considered unsuccessful go back to previous ventilator settings
- If any of the above condition are not observed the trial is considered successful; obtain:
 - a. Rapid Shallow Breathing Index (spontaneous RR/Vt) should be <105
 - b. Weaning Parameters
- Physician will be notified after the 2 hours of spontaneous breathing trial, and a decision for extubation will be discussed.

NOTE: If the trial is stopped, the patient will be reassessed for weaning tolerance the <u>next morning</u>. Once the MICU weaning is ordered, the patient will be assessed **DAILY** for weaning tolerance until extubated.