

(place patient label here)

Patient Name: \_\_\_\_\_



**PROVIDER ORDERS**

**Order Set Directions:**

- > (✓)- Check orders to activate; Orders with pre-checked box  will be followed unless lined out.
- > Initial each place in the pre-printed order set where changes such as additions, deletions or line outs have been made
- > Initial each page and Sign/Date/ Time last page

Diagnosis: \_\_\_\_\_

Allergies with reaction type: \_\_\_\_\_

**ICU Ventilator Management Protocol**

**Version 1 5/23/14**

- After provider order for initiation of a protocol, nursing may place orders found within the protocol using the Policy/Protocol - No Esign Req order source.

**Respiratory**

- Ventilator settings: Initial Settings as ordered by provider or per Ventilator Initiation Standing Order

Oxygenation Goal: PaO<sub>2</sub> 55-80 mmHg or SpO<sub>2</sub> 88-95%

- Use the incremental FiO<sub>2</sub>/PEEP combination below to achieve the Oxygenation goal

- Higher FiO<sub>2</sub>/Lower PEEP :

- FiO<sub>2</sub> 0.3/PEEP 5;
- FiO<sub>2</sub> 0.4/PEEP 5;
- FiO<sub>2</sub> 0.4/PEEP 8;
- FiO<sub>2</sub> 0.5/PEEP 8;
- FiO<sub>2</sub> 0.5/PEEP 10;
- FiO<sub>2</sub> 0.6/PEEP 10;
- FiO<sub>2</sub> 0.7/PEEP 10;
- FiO<sub>2</sub> 0.7/PEEP 12;
- FiO<sub>2</sub> 0.7/PEEP 14;
- FiO<sub>2</sub> 0.8/PEEP 14;
- FiO<sub>2</sub> 0.9/PEEP 14;
- FiO<sub>2</sub> 0.9/PEEP 16;
- FiO<sub>2</sub> 0.9/PEEP 18;
- FiO<sub>2</sub> 1.0/PEEP 18-24

Plateau Pressure (Pplat) Goal: less than or equal to 30 cm H<sub>2</sub>O

- Monitor Pplat (inspiratory pause) a minimum of every 4 hours and after each change in PEEP or tidal volume
- If Pplat is greater than 30 mm H<sub>2</sub>O: decrease tidal volume by 1 milliliter/kilogram increments to a minimum 4 milliliters/kilogram
- If Pplat less than 25 cm H<sub>2</sub>O and tidal volume is less than 6 milliliters per kilogram: increase tidal volume by 1 milliliter/kilogram until Pplat is greater than 25 cm H<sub>2</sub>O or tidal volume is equal to 6 milliliters/kilogram
- If Pplat is less than 30 mm H<sub>2</sub>O and breath stacking occurs: may increase tidal volume by 1 milliliter/kilogram increments to a maximum of 8 milliliters/kilogram if Pplat remains less than or equal to 30 cm H<sub>2</sub>O

pH Goal: 7.30-7.45

- Acidosis Management (pH less than 7.30): If pH 7.15-7.30: increase respiratory rate until pH is greater than 7.30 or PaCO<sub>2</sub> is less than 25 (maximum respiratory rate 35)  
If pH is less than 7.15: increase respiratory rate to 35. If pH remains less than 7.15 Notify Provider and consider giving sodium bicarbonate
- Alkalosis Management (pH greater than 7.45): If respiratory rate 30-35 decrease respiratory rate by 5. If respiratory rate 25-30 decrease respiratory rate by 4. If respiratory rate 20-25 decrease respiratory rate by 3

- Blood gas, arterial prn and 30 minutes after each ventilator change