

## Mechanical Ventilation: Airway Pressure Release Ventilation (Respiratory Therapy)

### Checklist

	S = Satisfactory      U = Unsatisfactory      NP = Not Performed			
Step	S	U	NP	Comments
Performed hand hygiene before patient contact. Donned appropriate PPE based on the patient’s need for isolation precautions or risk of exposure to bodily fluids.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Introduced self to the patient.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Verified the correct patient using two identifiers.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Observed the patient for signs of ARDS.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Before initiating mechanical ventilator, checked the system microprocessor or ventilation system. Performed a short self-test as appropriate.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Verified the authorized practitioner’s order for the initiation of mechanical ventilation.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Used a TCAV protocol to guide ventilator settings and strategy when using APRV.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Step	S	U	NP	Comments
Performed hand hygiene and donned gloves. Donned additional PPE based on the patient's need for isolation precautions or the risk of exposure to bodily fluids.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Explained the procedure to the patient and ensured that he or she agreed to treatment.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
<p>Transitioned the patient to APRV from conventional ventilator settings.</p> <ol style="list-style-type: none"> <li>1. Set P high by using the measured plateau pressure of the volume-controlled mode or the set peak airway pressure of the pressure-controlled mode to obtain an expired minute ventilation that was several liters per minute less than when on a conventional mode of ventilation.</li> <li>2. Set P low at 0 cm H<sub>2</sub>O.</li> <li>3. Set T high from 3 to 6 seconds and adjusted according to the patient's needs.</li> <li>4. Set T low from 0.5 to 0.8 seconds as determined by analysis of the expiratory gas flow curve.</li> </ol>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Step	S	U	NP	Comments
<p>Transitioned the patient who was newly intubated to APRV.</p> <ol style="list-style-type: none"> <li>1. Set P high to a maximum of 30 cm H<sub>2</sub>O.</li> <li>2. Set P low at 0 cm H<sub>2</sub>O.</li> <li>3. Set T high from 3 to 6 seconds and adjusted according to the patient's needs.</li> <li>4. Set T low from 0.5 to 0.8 seconds.</li> <li>5. Set FIO<sub>2</sub> for the desired PaO<sub>2</sub> or SaO<sub>2</sub> level.</li> </ol>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
<p>Transitioned the patient to APRV from HFOV.</p> <ol style="list-style-type: none"> <li>1. Set P high with MAP on HFOV <i>plus</i> 2 to 4 cm H<sub>2</sub>O.</li> <li>2. Set P low at 0 cm H<sub>2</sub>O.</li> <li>3. Set T high from 3 to 6 seconds and adjusted according to the patient's needs.</li> <li>4. Set T low from 0.5 to 0.8 seconds (acute restrictive lung disease) or from 0.8 to 1.5 seconds (acute obstructive lung disease).</li> </ol>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
<p>Adjusted settings based on the patient's release and spontaneous VT, SpO<sub>2</sub>, ETco<sub>2</sub>, ABG values, expiratory gas flow pattern, and clinical status.</p>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
<p>Evaluated the patient's readiness for weaning and proceeded with the "drop" and "stretch" method for weaning.</p>	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Step	S	U	NP	Comments
Ensured that all ventilator alarms were on and set appropriately.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Monitored the patient's ventilator waveforms, SpO <sub>2</sub> , ETco <sub>2</sub> , exhaled minute volume, release and spontaneous VT and hemodynamic status.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Observed the patient for signs or symptoms of pain. If pain was suspected, reported it to the authorized practitioner.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Removed PPE and performed hand hygiene.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	
Documented the procedure in the patient's record.	<input type="radio"/>	<input type="radio"/>	<input type="radio"/>	

Learner: \_\_\_\_\_ Signature: \_\_\_\_\_

Evaluator: \_\_\_\_\_ Signature: \_\_\_\_\_

Date: \_\_\_\_\_