





## COMPETENCY: Use of the Life Pulse High Frequency Ventilator

PERFORMANCE CRITERIA	COMPETENCY							
	SELF-ASSESSMENT		ACTION PLAN	TARGET DATE	EVALUATION			COMP. VERIF.
	Competent	Needs More Experience	Specify: * Clinical * Skills Lab * Classroom Experience		Post-Test	Verbal Review	Return Demonstration	Date & Evaluator or Preceptor Initials
<p><b>5. Control Section</b></p> <p>Explain why the default settings were selected</p> <p>Describe the start-up procedure:</p> <ol style="list-style-type: none"> <li>1. Starting “recipe”</li> <li>2. Pulse interruptions</li> <li>3. How to choose a background CV rate</li> </ol>								
<p><b>6. Monitor Section</b></p> <p>Explain Servo pressure and how and why it changes</p> <p>Discuss the differences between the HFV pressure displays and the CV pressure settings</p> <p>Demonstrate how to adjust alarm limits around MAP and Servo pressure</p>								
<p><b>7. Patient Management</b></p> <p>Discuss how to manage ventilation and oxygenation</p> <p>Demonstrate how to make changes on CV and HFV</p> <p>Explain why different parameters would be changed</p> <p>* HFV = Ventilation ; CV = Oxygenation</p>								

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<p><b>8. Alarms</b></p> <p>Differentiate between alarms caused by the Life Pulse and alarms caused by the patient</p> <p>Differentiate between alarms that stop the Life Pulse and those that allow it to continue operating</p> <p>Explain the “Tubes, Tubes, Tubes” theory (95% of all alarms are caused by a kinked, disconnected, or obstructed tube)</p> <p>Explain under what conditions the Servo pressure will lock</p>								
<p><b>9. Humidification</b></p> <p>Trace the gas flow through the cartridge and circuit</p> <p>Explain the feedback control system that regulates humidification and temperature of inhaled gas</p> <p>Describe over-, under-, and proper humidification</p> <p>Review appropriate temperature settings (leave the Circuit Temp at 40°; lower the Cartridge Temp as necessary to reduce over-condensation)</p>								
<p><b>10. Suctioning</b></p> <p>Demonstrate the method of suctioning the patient</p>								

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<p><b>11. Weaning</b></p> <p>Explain how to transition a patient from the Life Pulse to CV or to a nasal CPAP</p> <p>Discuss why one should avoid weaning too fast</p> <p>Describe how to make the transition from the Life Pulse to CV as smooth as possible</p>								
<p><b>12. Patient Selection Criteria</b></p> <p>Identify specific patient ages and weights for treatment with the Life Pulse</p> <p>Describe indications for using the Life Pulse:</p> <p>Airleaks – prevention and treatment</p> <p>Excessive secretions</p> <p>Hemodynamic compromise caused by other ventilators</p> <p>Non-homogenous lung diseases</p> <p>When HFOV or CV are failing</p>								
<p><b>13. Support</b></p> <p>Recite the Bunnell Hotline number (800-800-4358)</p> <p>Recite the Bunnell website (www.bunl.com)</p>								