**SETUP PROCEDURE**

Follow the steps below to apply the Proportional Assist™ Ventilation Plus (PAV™+) software option from the New Patient Setup screen or current ventilation screens as indicated. For a complete description of the setup procedure, ventilatory parameters and patient parameters, please see the PAV™+ option addendum in the Puritan Bennett™ 840 Ventilator Operator’s and Technical Reference Manual.

**FOR A PATIENT CURRENTLY BEING VENTILATED**

1. Ensure that the patient is being ventilated with an adult-size breathing circuit.

2. Touch the Vent Setup button on the lower screen; then proceed to Step 5. (see next column)

**TO SET UP A NEW PATIENT**

1. Run or ensure that Short Self-Test (SST) has been run with an adult-size circuit. When SST is complete, the ventilator automatically transitions from SST to the New Patient Setup screen.

2. Touch the New Patient Setup button.

3. Verify that you are using an Adult circuit, and enter the patient’s body weight by touching the IBW* button and turning the knob to the desired weight setting. Touch the Continue button.

4. Touch the Mode button. Turn the knob to select Spont Mode.

5. Touch the Spontaneous Type button. Turn the knob to select PA (proportional assist breath type). Note: for the PA breath type to be available:
   - The patient’s ideal body weight (IBW) must be at least 25 kg
   - The tube I.D. must be at least 6.0 mm

6. Touch the Continue button. Default settings applicable to Spont and PA appear in the Sandbox portion of the lower screen.

7. Enter the tube type and tube size:
   - Type: ET or TRACH
   - Size: 6.0 mm to 10.0 mm tube I.D.

8. Set the following alarms
   - High inspired spontaneous tidal volume alarm (↑ VTI SPONT)
   - High inspiratory pressure limit alarm (↑ PPEAK)

9. Press Accept to apply the new settings.

10. Adjust all other alarm settings as appropriate or as necessary.
NOTE
• For PAV™+ only, ESENS represents the measured flow in L/min (not % of peak flow, as in Pressure Support breath types) at which the ventilator declares end of inspiration.
• When selecting the appropriate %Support level, consider the following during initial setup and subsequent adjustments:
  – Wait a minimum of 10 to 15 breaths for the algorithm to stabilize the patient’s response to the new %Support setting before changing other settings.
  – Higher levels of support may prove uncomfortable to the patient, which may result in increased agitation. Be cautious when choosing %Support values higher than 80%.
  – Use the work of breathing (WOB) bar as a guide. Adjust the %Support setting to maintain the patient’s WOB (WOBₜₚ) within the “green” region. If the WOBₜₚ indicator is to the left or the right of the green region, the patient is being, respectively, over supported or under supported by the ventilator.
  – These suggestions should not replace sound clinical practice.

MONITORED DATA
The PAV™+ software option displays the following monitored data:

<table>
<thead>
<tr>
<th>Symbol</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>$C_{PAV}$</td>
<td>PAV™ software lung compliance*</td>
</tr>
<tr>
<td>$E_{PAV}$</td>
<td>PAV™ software lung elastance*</td>
</tr>
<tr>
<td>$PEEP_{I}$</td>
<td>Intrinsic PEEP</td>
</tr>
<tr>
<td>$R_{PAV}$</td>
<td>PAV™ software patient resistance</td>
</tr>
<tr>
<td>$R_{TOT}$</td>
<td>Estimated total resistance*</td>
</tr>
<tr>
<td>$V_{TI,SPONT}$</td>
<td>Spontaneous inspired tidal volume</td>
</tr>
<tr>
<td>$f/V_{i}/kg$</td>
<td>Normalized rapid shallow breathing index (RSBI)</td>
</tr>
</tbody>
</table>

* If the estimated value of CPAV, EPAV, RPAV or RTOT violates expected (IBW-based) limits, parentheses around the value indicate that the value is questionable. If the estimated value exceeds its absolute limit, the limit value flashes in parentheses.