At Barlow Respiratory Hospital, we provide the highest quality respiratory care. Our expert team of Barlow Physicians, Nurses and Therapists draw upon more than a century of respiratory health expertise. We are considered a leader in ventilator weaning, and specialize in serving patients with chronic critical illness and complex respiratory conditions who are dependent on a ventilator to take their next breath.

**THERAPIST-IMPLEMENTED PATIENT-SPECIFIC (TIPS©) PROTOCOL 2.0**

**DAILY WEANING EVALUATION (DWE)**

*Do NOT proceed to weaning trials if any ONE of the following is present:*

- Hemodynamic instability
- Systolic blood pressure < 90 mmHg
- Respiratory rate > 35 BPM
- FiO2 > 0.5 or PEEP > 8
- Vasopressor infusion used to stabilize blood pressure
- Pulse < 50 or > 130 BPM or increase from baseline > 20
- O2 saturation < 90%
- Prominent accessory muscle use
- Temp > 100.4
- Spontaneous tidal volume < 0.25 L

**A: SBT TRIALS**

1. SBT as tolerated return to original ventilator settings after 4 hour trial
2. SBT as tolerated up to 8 hours, then return to prior ventilator settings
3. SBT as tolerated up to 12 hours, then return to prior ventilator settings
4. SBT as tolerated up to 16 hours, then return to prior ventilator settings
5. SBT as tolerated up to 20 hours, then return to prior ventilator settings
6. SBT as tolerated up to 24 hours

**B: CPAP/PS TRIALS**

1. AC to CPAP 5 w/ PS 20 not to exceed 10-12 hours
2. CPAP w/ PEEP 5 / PS 18 not to exceed 10-12 hours
3. CPAP w/ PEEP 5 / PS 16 not to exceed 10-12 hours
4. CPAP w/ PEEP 5 / PS 14 not to exceed 10-12 hours
5. CPAP w/ PEEP 5 / PS 12 not to exceed 10-12 hours
6. CPAP w/ PEEP 5 / PS 10 for 10-12 hours

**C: SIMV/PS TRIALS**

*Reduction of SIMV: up to 3 steps per day at Q3h intervals*

1. AC to SIMV 10 / PS 20
2. SIMV 8 / PS 20
3. SIMV 6 / PS 20
4. SIMV 4 / PS 20
5. SIMV 4 / PS 18
6. SIMV 4 / PS 16
7. SIMV 4 / PS 14
8. SIMV 4 / PS 12
9. SIMV 4 / PS 10
10. 1 hour
11. 2 hours ≠ (ABG result to MD)
12. 4 hours
13. 6 hours
14. 8 hours
15. 10 hours
16. 12 hours
17. 16 hours
18. 20 hours
19. 24 hours

**LEGEND / GLOSSARY**

- AC – Assist Control
- CPAP – Continuous Positive Airway Pressure
- PS – Pressure Support
- SBT – Self Breathing Trials
- SIMV – Synchronized Intermittent Mandatory Ventilation
- PEEP – Positive End Expiratory Pressure
- Passy-Muir Speaking Valve – commonly used to help patients speak more normally, attaches to the outside opening of the tracheostomy tube.
- Ventilator Weaning – gradual withdrawal of mechanical breathing support through utilization of a variety of ventilator modes, periods of total spontaneous ventilation, and appropriate rest periods.

*Physician order for TIPS© Protocol triggers Speech Therapist evaluation for Passy-Muir Speaking Valve.*