



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
- ♦ Vasopressor infusion used to stabilize blood pressure
- ♦ Systolic blood pressure < 90 mmHg
- ♦ Pulse < 50 or > 130 BPM or increase from baseline > 20
- ♦ Respiratory rate > 35 BPM
- ♦ O2 saturation < 90%
- ♦ Temp >100.4
- ♦ FiO2 > 0.5 or PEEP > 8
- ♦ Prominent accessory muscle use
- ♦ 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 10-12hours
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

← **Continue to SBT Trials**

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 |

Reduction of PSV:

- | | |
|-------------------|-------------------|
| 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 | |

Self Breathing Trials:

- | | |
|----------------------------------|--------------|
| 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 |

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

LEGEND / GLOSSARY

AC – Assist Control

CPAP – Continuous Positive Airway Pressure

PEEP – Positive End Expiratory Pressure

PS – Pressure Support

SBT – Self Breathing Trials

SIMV – Synchronized Intermittent Mandatory Ventilation

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.