

Swallow Impairment	Therapeutic Intervention	Adaptation for Trach/Vent Patient
Secretion Management	<ol style="list-style-type: none"> <li>1. PMV® trials to allow airflow and sensory stimulation to upper airway</li> <li>2. RMST (Respiratory Muscle Strength Training)</li> </ol>	<ol style="list-style-type: none"> <li>1. Train inhaling/exhaling through semi-occluded airway (straws) for low level patients</li> <li>2. Use various IMST/EMST devices on the market to strengthen respiratory system</li> </ol>
Low Lung Volumes	<p>IMST (Inspiratory Muscle Strength Training)</p> <p>Supraglottic Swallow</p>	Requires PMV use to engage entire respiratory system, restore subglottic pressure
Weak Cough Strength	<p>Cue patient to cough/clear own secretions</p> <p>EMST (Expiratory Muscle Strength Training)</p>	Requires PMV use to restore subglottic airway pressure
Decreased Vocal Cord Closure	<p>Supraglottic Swallow/Voluntary Breath Hold</p> <p>Adduction Exercises with resistance</p> <p>Sustained phonation</p>	Requires PMV to establish a closed system, restore subglottic pressure
Reduced Laryngeal Elevation	<p>Falsetto Exercises</p> <p>Mendelsohn Maneuver</p>	Requires PMV to establish a closed system, restore subglottic pressure
Reduced Hyolaryngeal Excursion	<p>Super-Supraglottic Swallow</p> <p>Shaker Maneuver</p>	<ol style="list-style-type: none"> <li>1. Both require restoration of subglottic pressure – place PMV</li> <li>2. Shaker: Place PMV to restore pressure, do not lay patient completely flat, ensure trach does not displace or occlude</li> </ol>
Weak Pharyngeal Wall Constriction	<p>Effortful Swallow</p> <p>Masako</p>	Requires PMV to close system, restore subglottic pressure
Reduced Cricopharyngeal Opening	<p>Shaker Maneuver</p> <p>Mendelsohn Maneuver</p>	<ol style="list-style-type: none"> <li>1. Shaker: Place PMV to restore pressure, do not lay patient completely flat, ensure trach does not displace or occlude</li> <li>2. Mendelsohn: Traditional manipulation may not be appropriate; consider using a hard swallow (having patient hold mid-swallow for 3 sec to elevate larynx)</li> </ol>