



### Assessing and Treating Dysphagia in the Patient with Tracheostomy: Impacting Quality of Life

#### Potential causes of dysphagia in patients with tracheostomy

- Swallowing complications related to the presence of a tracheostomy tube
  - o Impaired laryngeal elevation
  - o Desensitization of the larynx
  - o Reduced subglottic air pressure
  - o Reduced effectiveness of the cough reflex
  - o Disuse atrophy of larynx
  - o Decreased coordination of breathing and swallowing
  - Decreased effectiveness to clear secretions from upper airway

## Restoring positive airway pressure with the Passy Muir Speaking Valve may result in:

- Restored normal breathing / swallowing pattern
- Improved secretion management
- Reduced aspiration
- Improved cough effectiveness
- Increased bolus speed and more rapid pharyngeal clearing

#### Considerations for patients requiring mechanical ventilation

- SLP and RT teamwork
- Candidacy for cuff deflation and in-line PMV use
- Mode of ventilation

#### Assessment

- Clinical swallowing assessment
  - o Components, considerations, blue dye test, observations, recommendations
- Instrumental swallowing assessment: FEES / VFSS
  - o Assessment should be conducted in the condition in which the patient will eat and drink
  - o Can be performed on vent and non-vent patients
  - Identifies etiology of dysphagia and guides intervention
  - o Recommendations should be specific

#### **Treatment**

- Early treatment to prevent disuse atrophy
- Cuff deflation and restoration of a closed aerodigestive system with Passy Muir Valve
- Oral hygiene
- Compensatory and rehabilitative swallowing therapy

#### Summary

- Early and evidence-based dysphagia intervention is crucial for our patients with tracheostomy
- Cuff deflation and use of the Passy Muir Valve can facilitate improved efficiency and safety of swallowing
- Restoration of po intake is associated with improved quality of life



KEY POINTS/NOTES



# SLP Dysphagia Therapy Chart

King | Ciampitti

Swallow Impairment	Therapeutic Intervention	Adaptation for Trach/Vent Patient
Secretion Management	PMV® trials to allow airflow and sensory stimulation to upper airway	Train inhaling/exhaling through semi-occluded airway (straws) for low level patients
	RMST (Respiratory Muscle Strength Training)	Use various IMST/EMST devices on the market to strengthen respiratory system
Low Lung Volumes	IMST (Inspiratory Muscle Strength Training)	Requires PMV use to engage entire respiratory system, restore subglottic pressure
	Supraglottic Swallow	
Weak Cough Strength	Cue patient to cough/clear own secretions	Requires PMV use to restore subglottic airway pressure
	EMST (Expiratory Muscle Strength Training)	
Decreased Vocal Cord Closure	Supraglottic Swallow/Voluntary Breath Hold	Requires PMV to establish a closed system, restore subglottic pressure
	Adduction Exercises with resistance	
	Sustained phonation	
Reduced Laryngeal Elevation	Falsetto Exercises	Requires PMV to establish a closed system, restore subglottic pressure
	Mendelsohn Maneuver	
Reduced Hyolaryngeal Excursion	Super-Supraglottic Swallow	Both require restoration of subglottic pressure – place PMV
	Shaker Maneuver	Shaker: Place PMV to restore pressure, do not lay patient completely flat, ensure trach does not displace or occlude
Weak Pharyngeal Wall Constriction	Effortful Swallow	Requires PMV to close system, restore subglottic pressure
	Masako	
Reduced Cricopharyngeal Opening	Shaker Maneuver	Shaker: Place PMV to restore pressure, do not lay patient completely flat, ensure trach does not displace or occlude
	Mendelsohn Maneuver	Mendelsohn: Traditional manipulation may not be appropriate; consider using a hard swallow (having patient hold mid-swallow for 3 sec to elevate larynx)