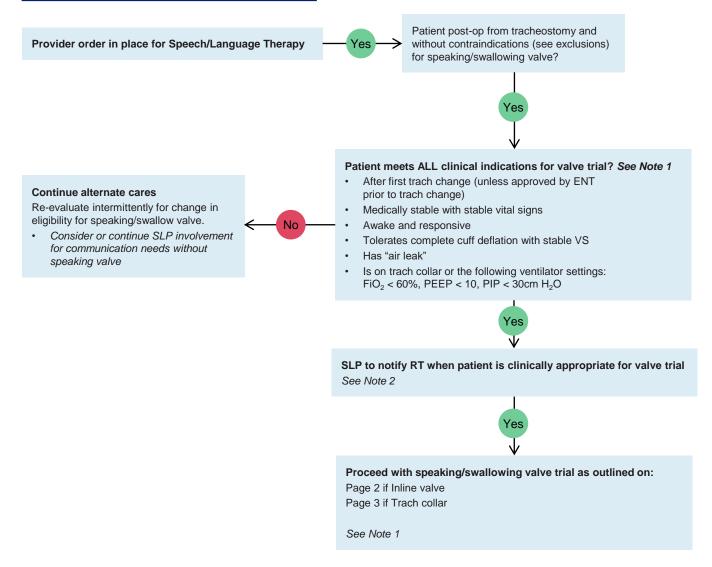


< 25 years age

Aim: To standardize process for speaking and swallowing valve rehabilitation.

DETERMINING ELIGIBILITY FOR VALVE TRIAL:



Exclusion guidelines:

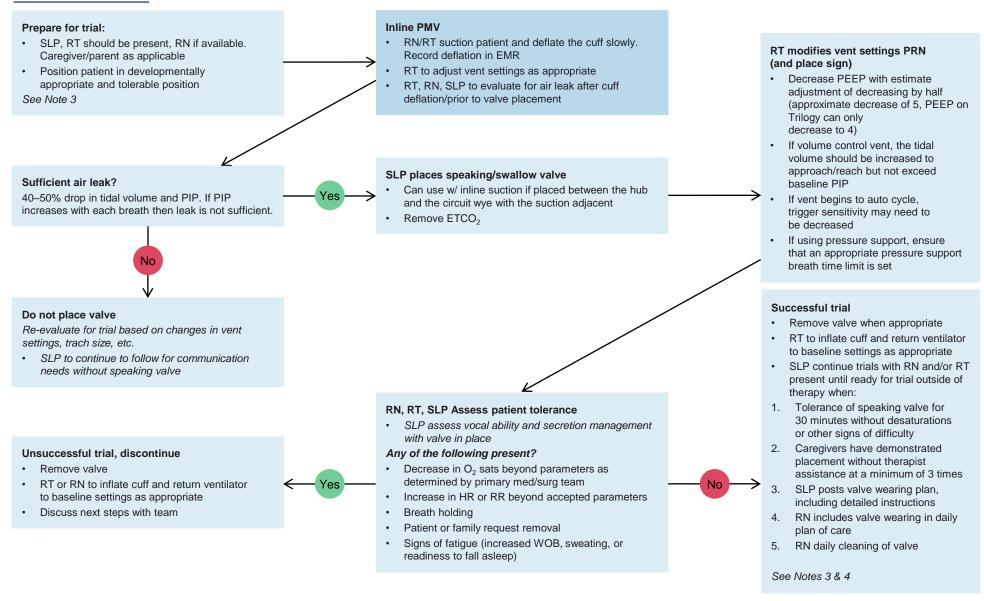
Patients **excluded** from this guideline:

- Patient has a foam-cuffed tracheostomy tube
- Patient is unable to tolerate cuff deflation
- Severe upper airway obstruction or vocal fold paralysis in adducted position
- Significantly impaired swallow as determined by the treating SLP
- Patient is asleep or unable to maintain alert and engaged state
- Severe neurological impairment
- Use of any specialty gases (nitric, helium, nitrous, nitrogen, etc.)
- ENT or medical team determines patient not a candidate



Aim: To standardize process for speaking and swallowing valve rehabilitation.

INLINE VALVE TRIAL:

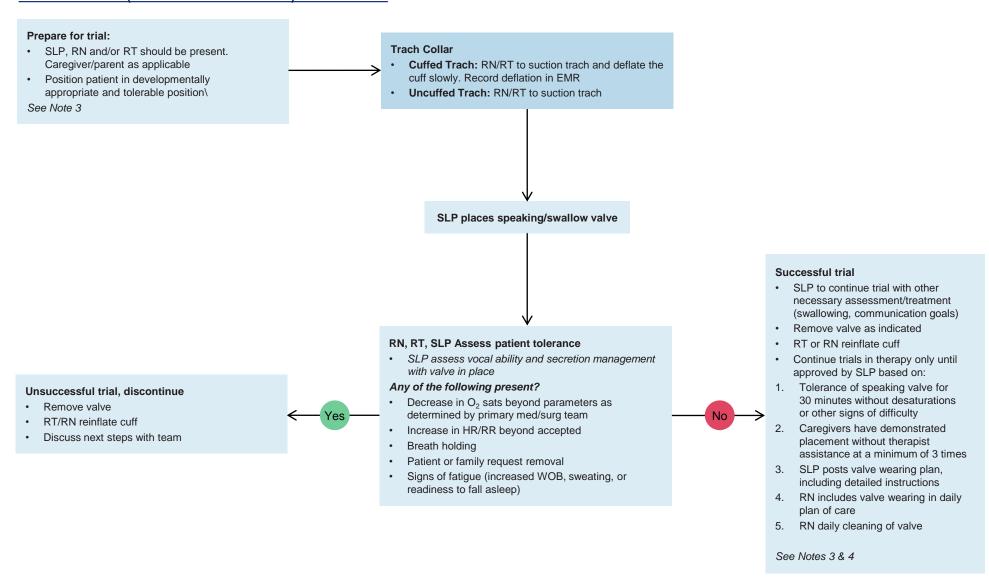




Aim: To standardize process for speaking and swallowing valve rehabilitation.

TRACH COLLAR (WITH OR WITHOUT CUFF) VALVE TRIAL:

< 25 years age







< 25 years age

Aim: To standardize process for speaking and swallowing valve rehabilitation.

DETERMINING ELIGIBILITY FOR VALVE TRIAL

NOTE 1

Benefits of speaking/swallowing valve include:

- Restoration of the physiological PEEP
- · Restoration of voice
- Improved sense of smell and taste
- Improved swallowing
- Improved secretion management
- Improved bonding with caregiver
- Improved overall development and quality of life
- Assists with weaning by getting used to air flow through the upper airway, therefore, facilitate more normal breathing and muscle training
- Demonstrated to expedite weaning from the ventilator and tracheostomy tube

NOTE 2

The speaking and swallowing valve will be stocked by respiratory therapy department.

WORKGROUP

Carlene Osweiler, MA, CCC-SLP Andrew Redmann, MD Siva Chinnadurai, MD, MPH Brian Carroll, MD Brooke Moore, MD, MPH Kenneth Maslonka, MD Melissa Damas, RT

NOTE 3

Team roles and responsibilities:

- RN/RT to be present at onset and conclusion of all speaking valve trials to perform the following duties: inflate/deflate cuff, suction patient, make respiratory support changes and adjust alarm settings to ensure patient safety. Ensure that there is a functional disconnect alarm. Patient should be connected to appropriate alarm monitoring for minimal spO₂ and HR monitoring.
- RT: If vent settings are changed for the speaking valve, RT will place a sign on the vent when speaking
 valve is inline to remind all staff that settings are different due to valve use and settings must be returned
 if valve is removed.
- SLP: Once patient deemed appropriate for speaking valve use without SLP present, SLP to post
 wearing plan, including detailed instructions. Nursing to include length of wear times in daily plan of
 care as appropriate.
- RN/RT/SLP: If patient shows readiness to fall asleep at any time with speaking valve in place, the speaking valve will be removed to ensure patient safety.
- · RN: Daily cleaning and maintenance of valve.
- SLP: Train caregivers/family members. Only those who demonstrate competence can place the speaking valve on the patient.
- Medical/surgical team to determine appropriate RN: patient staffing ratio (e.g. 1:2) to support valve when approved for use outside of speech therapy/trial phase (e.g. when valve is in regular use) depending on patient age, caregiver presence, and other factors (e.g., ability to independently remove speaking valve).

NOTE 4

Maintenance and cleaning of speaking valve

The speaking valve should be cleaned daily by RN/therapist/caregiver with mild soap and warm (not hot) water. Rinse thoroughly and allow the speaking valve to air dry and never put in container until fully dried. Do not clean with hot water, peroxide, bleach, vinegar, alcohol wipes, brushes, cotton swabs or microwave steam bags as it will damage the speaking valve. Cleaning sign will be posted in patient room. Do not use during aerosol/nebulized medication administration and/or any airway clearance modalities.