



Passy-Muir® Valve: Keeping it on and therapeutic steps to follow

Katy Peck, M.A., CCC-SLP, CBIS, CLE

Disclosures

- Katy Peck, M.A., CCC-SLP, CBIS, CLE
 - Disclosure: Financial -Received a speaking fee from Passy-Muir Inc. for this presentation.
 Nonfinancial -No relevant nonfinancial relationship exists.

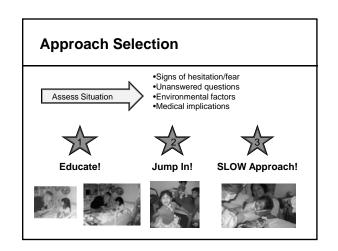
Disclosure Statement

Passy-Muir, Inc. has developed and patented a licensed technology trademarked as the Passy-Muir® Tracheostomy and Ventilator Swallowing and Speaking Valve. This presentation will focus primarily on the biasedclosed position Passy-Muir Valve and will include little to no information on other speaking valves.

Objectives:

- List strategies used to problem solve common behavioral and medical barriers during Passy-Muir Valve initiation.
- Generate therapy activities to address oral sensory processing, voice production, and functional communication for pediatric tracheostomized patients.

Initial Trial Choosing an effective approach Initial Trial Choosing an effective approach



therapeutic steps to follow



Are there signs of anxiety?

- Assess nonverbal language
- Actively listen
- Don't anticipate noncompliance
- Age appropriate learning plan
 - Support toolsLanguage used
- Structured success
- Structured success (scaffolding)



Draw the anatomy







Explain "Why" using props



- Secretion management
- Smell and taste
- Swallow
- Speech, voice, and cognitive communication
- Assist in weaning from the ventilator

Approach #2

Jump in



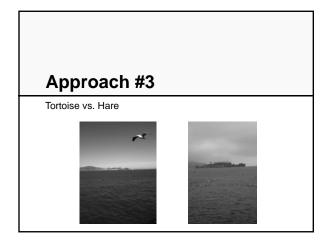


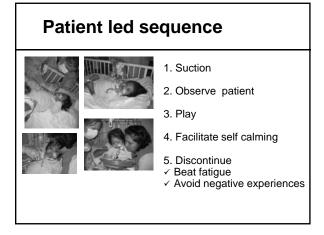
Look at the whole picture

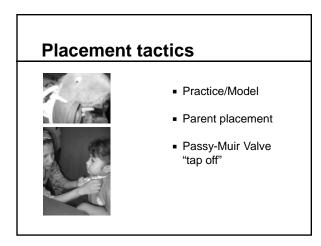


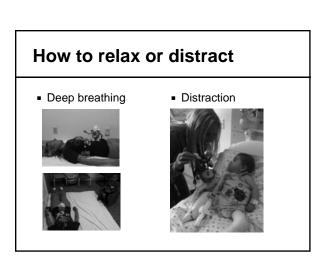
- Anxiety may build
- Trial length
- Multiple assessments

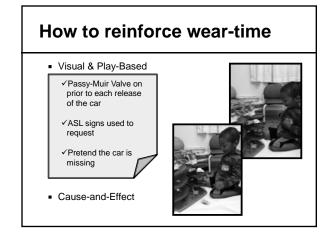


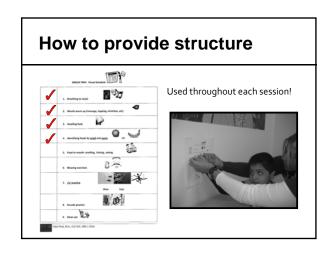




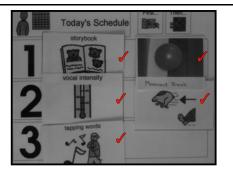








How to provide MORE structure



Approach #4

Wait

- ✓ Allow tracheal lumen growth
- ✓ Projected downsizing
- ✓ Laryngoscopy & Bronchoscopy to rule out structural barriers

Assessment

General information gathering and strategies



Key points to consider

- Reason for referral?
- Medical history
- What makes this child and family unique?
- What areas should be assessed with Passy-Muir Valve in-line?





5/21/2012

Neurodevelopment

- Prolonged hospitalization
 - Brain development
 - Endurance/stamina
 - Opportunities
 - Socialization
 - Caregiver expectations
- Baseline
 - Comorbidities



Oral Motor and Sensory Function

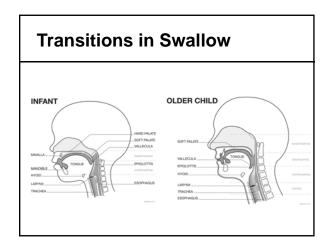
- Structures
- Sensory processing
- Maturity of oralsensory-motor development
 - Feeding/swallowing
 - Speech



Feeding and Swallowing

- Secretion Management
- Nonnutritive Assessment
- PO Trials





Instrumental Assessments



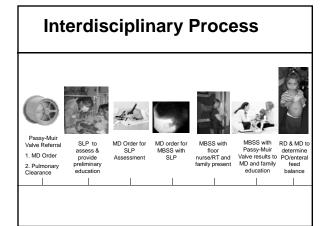
Modified Barium Swallow Studies (MBSS)

- Timing
- Preparation
- Compensatory strategies
- Interpretation
- Family training
- Collaboration

Teamwork

Outside referrals





Measurable Therapy Goals

Progress Monitoring and incentive

Wear-time + Speech Output

- Short Term Goals (to be met in 2 weeks):
- Patient/family will return demonstrate the ability to place the Passy-Muir® Valve in-line, remove, maintenance procedures, and safety awareness during 5 out of 5 observed sessions.
- 2. Patient will voice on command with the Passy-Muir Valve in-line during 4 out of 5 consecutive trials.

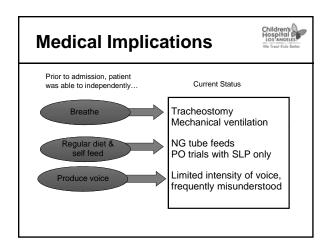
Wear-time + Swallowing

- Short Term Goals (to be met in 2 weeks):
 - Tolerate scant PO trials of puree texture to assess/promote differentiation during gustatory/olfactory stimulation with the Passy-Muir Valve inline with no clinical s/s of aspiration during 3 out of 3 consecutive trials
 - Participate in olfactory discrimination tasks and identify by smells/touch/taste stimuli using a select set of food items during 3 out of 3 consecutive trials.
 - Family will return verbalize and demonstrate 3 techniques for safe oral feeding.
- Long Term Goals (to be met at discharge):
 - Tolerate regular-for-age diet and take 25% of nutrition by mouth.
 - Patient and patient's caregivers independent with PO/nonnutritive home program as appropriate.

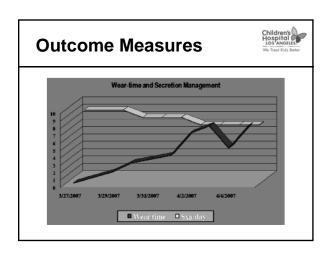


Case Study

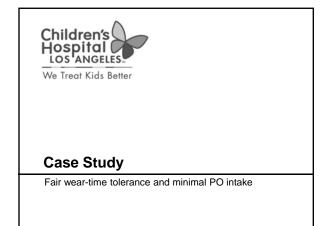
Assessment: Excellent Wear-time Tolerance and PO Intake

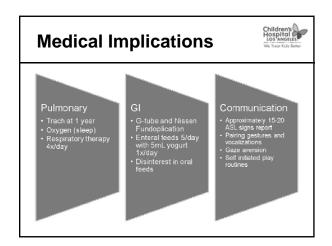


Next Steps Nutrition ServicesOral Oral NG feeds Diet change SLP follow-up Family education Increase Passy-Muir® Valve wear-time



therapeutic steps to follow





Progress in 12 sessions



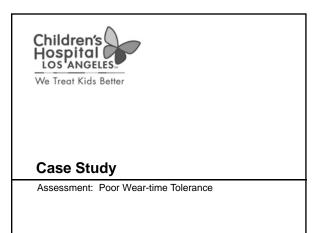
- Wear-time
 - Increase Passy-Muir Valve wear time to all waking hours without overt s/s of respiratory distress over 5 consecutive days while in multiple environments. GOAL MET
- Saliva management
 - Demonstrate an increase saliva management with the Passy-Muir Valve in-line through decreased suction requirements per day. GOAL MET

Progress in 12 sessions

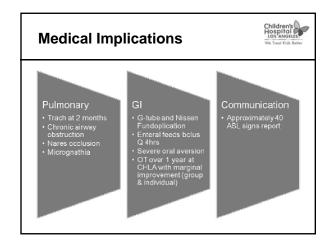


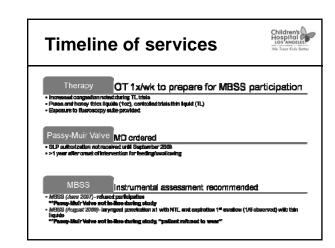
- Swallowing
 - Tolerate scant PO trials (puree texture) as authorized by MD with the Passy-Muir Valve inline with no s/s of aspiration during 5 out of 5 consecutive trials. GOAL MET
- Voicing
- Sustain respiration during activities to promote oral motor functioning and voicing for 4 seconds across 3 consecutive trials.
 GOAL MET

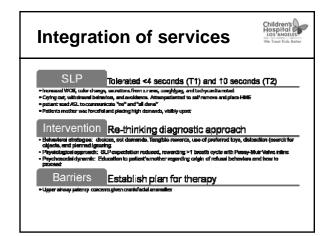
Additional Steps... Discharge recommendations OT contacted SLP ~1 month s/p discharge SLP consultation and education "Oh, the bumps in the road"

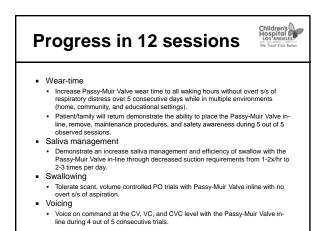


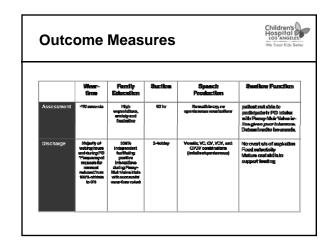
therapeutic steps to follow



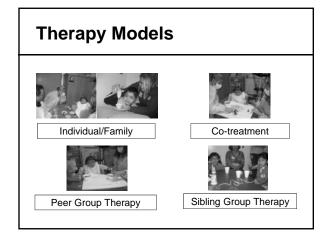


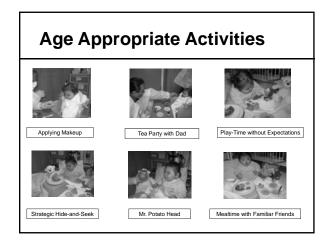


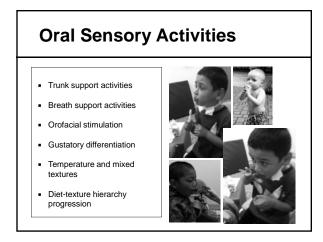


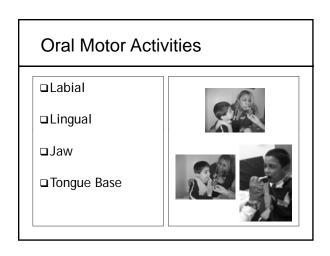


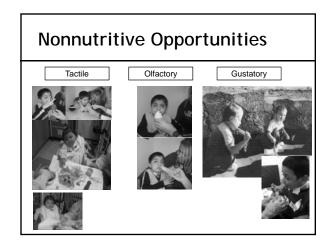


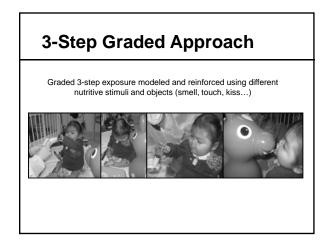


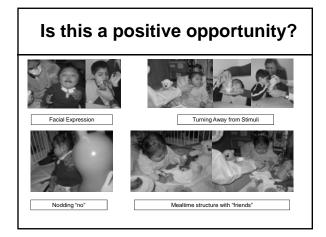


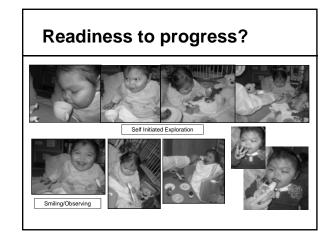


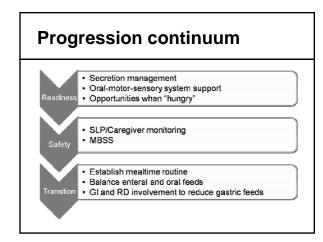


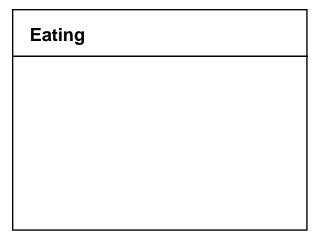




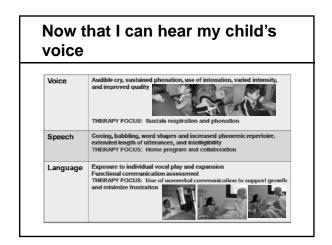




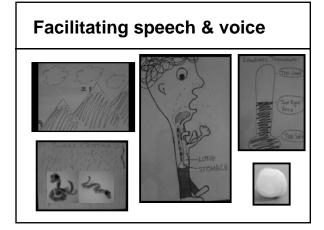


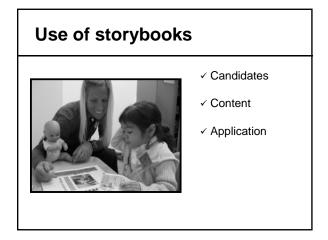


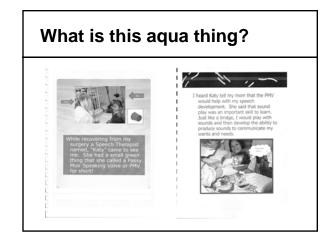
Drinking

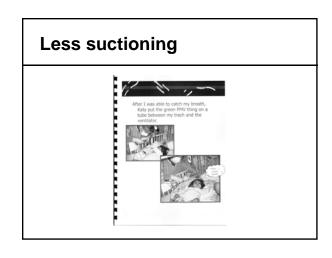


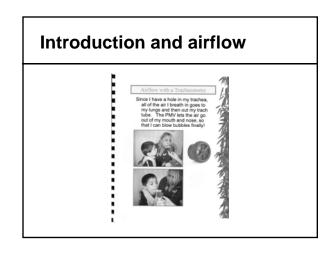
therapeutic steps to follow

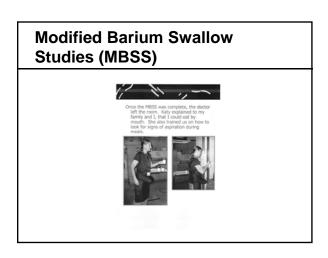


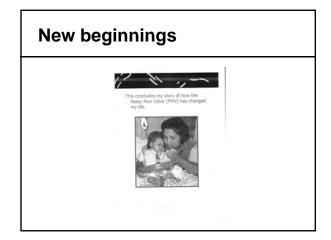




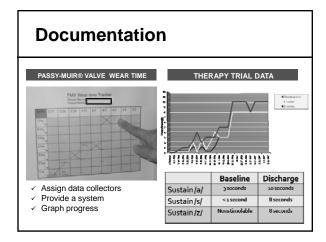


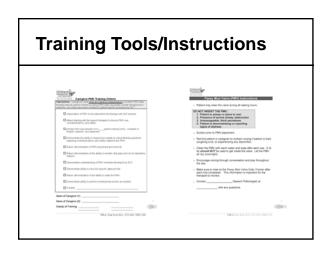


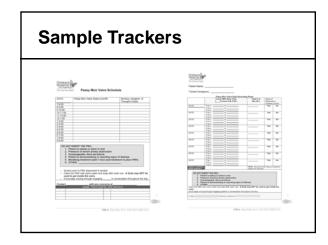


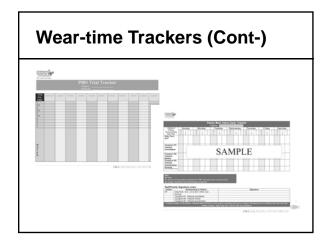


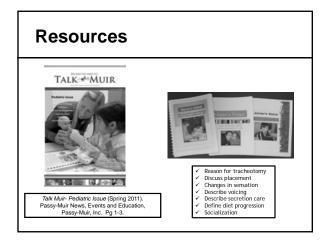


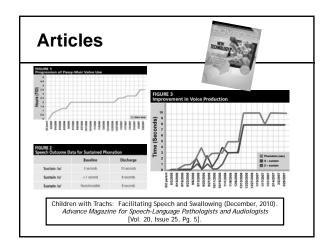












Additional Educational Opportunities

- Self-study webinars available on demand
 - Getting Started
 - Ventilator Application
 - Swallowing
 - Pediatric
 - Special Populations
- Live group webinars
- www.passy-muir.com
- Passy-Muir Inc. is an approved provider of continuing education through ASHA, AARC, CMSA and California Board of Nursing Credit