



GdYU_]b['J U`j Y`I gY`k]hΛ`
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 A YWUUb]WU`'J Ybh]`Uh]cb.`
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DfYgYbhYX`]b`&\$&)

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Speaking Valve Use with
Tracheostomy and Mechanical Ventilation:
Now, We're Talking!





1

Welcome!

- In-Person Considerations
 - Social awareness
 - Networking options
- Presentations
- Groups: Purple and Aqua
 - Hands-On
 - Demonstrations
 - Case studies/mock assessments
- Panel discussions
- Food and drink

- Chat with the clinicians!
- Meet fellow professionals.
- Learn about new resources.






2


Speaker Disclosures:

Financial: Full-time with Passy-Muir, Inc.
Non-financial: No relevant non-financial disclosures

Kristin A. King, PhD, CCC-SLP
Vice President of Clinical Education and Research



Gabriela Ortiz, BSRT, RCP
Clinical Specialist



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Disclosure


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Seminar Overview

Fundamentals: From Tracheostomy Tubes to
Mechanical Ventilation Terminology







- 7.5 hours today
- Up to 6 recorded hours
 - 1 pre-requisite webinar hour
 - 5 post-seminar recorded webinar hours
- 13.5 total hours, if all are completed.

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Pre-requisite webinar

- *Fundamentals: From Tracheostomy Tubes to Mechanical Ventilation Terminology*
- Overview of:
 - Tracheostomy tubes
 - Cuff types and management
 - Considerations as it relates to speaking valve use
 - Review of terminology related to mechanical ventilation
 - Implications for patient management

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Seminar Participation



- Interactive questions
- Q & A
- Now, get your phones out.
- Let's try it!

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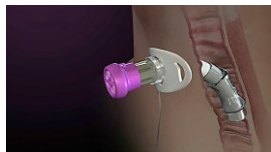


What is the actual color of the PMV 007?

Start presenting to display the poll results on this slide.

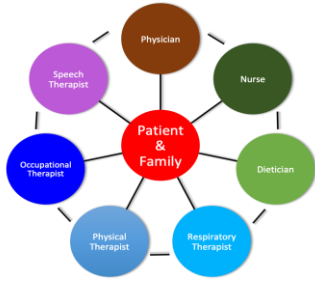
8

Assessment and Placement: Non-Ventilator




9

Interdisciplinary Airway Management Team



10

Begins in the ICU: Effects of Bed Rest



- The negative impact of bed rest is well known
- No evidence supports efficacy of bed rest
- Disuse atrophy at the cellular level begins within 4 hours of implementing bed rest
- Healthy adults, bed rest¹
 - Strength declined by 1 – 1.5% per day
 - Mood changes
 - Loss of coordination, balance and work tolerance
- Casting: Strength declines by 25% in 7 day²

Griffiths et al. Nutrition 1995; 11:428-432

De Jonghe et al. CCM 2005; 5:309-315

11

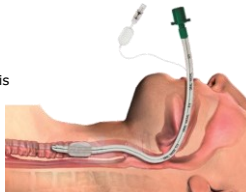
Endotracheal Tube Considerations

• Intubation

- Why?
 - Respiratory compromise due to injury or illness
 - Potential for respiratory compromise

• Potential side effects

- Mucosal injury
- Injury to the vocal folds
- Tracheal edema, ulceration, and stenosis

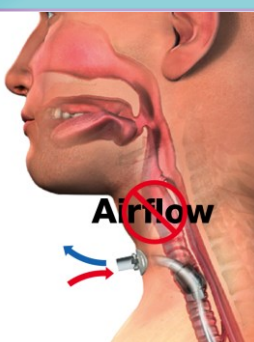


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Physiologic Changes after Tracheostomy

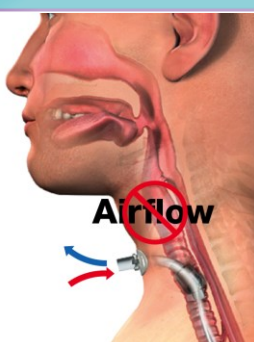
Respiration: Patient inhales and exhales through open trach tube. No airflow past inflated cuff



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Physiologic Changes after Tracheostomy


- Speech
- Smell
- Taste
- Sensation
- Reduced positive airway pressure
 - Poor secretion management
 - Reduced cough



14

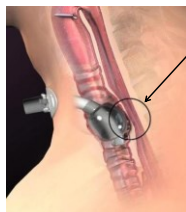
Cuff: Choices and Management

- Cuff up or down?
 - Purpose of cuff
 - Cuffs and aspiration
- Cuff pressures
 - 20 - 25 cmH₂O
 - Minimal leak
 - Minimal occlusion



15


Clinical Complications of Cuff



- Esophageal impingement
- Backflow
- Necrosis and trauma
- Laryngeal tethering
- Late complications
 - Granuloma - stenosis
 - Tracheomalacia
 - Fistulae

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Application of the PMV:
Non- Ventilator



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Researchers: Medical errors now third leading cause of death in United States


such as communication breakdowns when patients are handed off from one department to another.



Published: May 3, 2016

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Reminder: Passy-Muir Valve



Bias-closed


No-leak

PMV 2001 (Purple color™)

What are the benefits of the Valve?

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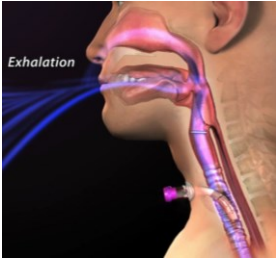
What is a benefit of using the Passy Muir Valve?

Start presenting to display the poll results on this slide.

20

Benefits of Closing the System with PMV

- Restores normal physiology
- Reconnects the upper and lower airway
- Providing a closed system
 - Communication
 - Smell and taste
 - Secretion management
 - Sensation
 - Cough
 - Swallowing
 - Positive airway pressure
 - Quality of life



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Psychological Benefits

Communication with family

Participation in decision making

Reduced sense of isolation/ anxiety

Better sense of well-being

Communication with caregivers

• Freeman-Sanderson, A. L., Tagher, L., Shira, H. E., & Berry, B. (2015). Quality of life improves for tracheostomy patients with return of voice: A mixed methods evaluation of the patient experience across the care continuum. *Intensive Critical Care Nursing*, 46, 10-16. doi:10.1016/j.iccn.2016.02.004

• Freeman-Sanderson, A. L., Tagher, L., Shira, H. E., & Berry, B. (2015). An intervention to allow early speech in ventilated tracheostomy patients in an Australian intensive care unit (ICU): A randomized controlled trial. *Australian Critical Care*, 29(2), 114. doi:10.1016/j.aucc.2015.12.012


• Freeman-Sanderson, A. L., Tagher, L., Shira, H. E., & Berry, B. (2015). Quality of life improves with return of voice in tracheostomy patients in intensive care: An observational study. *Journal of Critical Care*, 32, 186-191. doi:10.1016/j.jcc.2015.01.012

• Freeman-Sanderson, A. L., Tagher, L., Shira, H. E., & Berry, B. (2015). Return of voice for ventilated tracheostomy patients in ICU: A randomized, controlled trial of early-targeted intervention. *Critical Care Medicine*, 44(5), 1075-1081. doi:10.1097/ccm.0000000000001659

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Impact on PEEP


- Closed System vs Open
 - Improved gas exchange
 - Improved oxygen saturation levels
 - Decreased risk of atelectasis
- "My patient is not tolerating cuff deflation trials"



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Initiating the Assessment: Team Approach


- Have a plan: Who does what
- Block off the time
- Education
- Reassure the patient
- Perform good oral care
- Suctioning as needed
- Body position and posture
- Position of head, neck, and tracheostomy tube



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Patient Selection


- Awake and alert
- Medically stable
- Complete cuff deflation
- Manageable secretions
- Patent upper airway



25


Checklist: Take Baseline Measurements

- Oxygenation
- Vital signs
- Breath sounds
- Color
- Work of breathing
- Patient responsiveness




26

Education



27


Warning Label



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Suctioning


- Competencies
- When to suction
- How often
- Oral and tracheal
- Secretions?
 - Color
 - Smell
 - Thickness



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What is the best way to determine that the cuff is fully deflated?

30


Deflate Cuff



31

Assess Upper Airway Patency

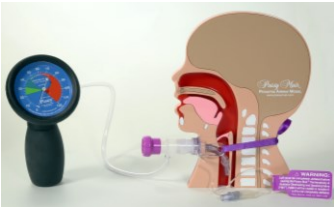
- Deflate cuff
- Ask patient to inhale
- Finger occlude and speak or cough on exhalation
- Transtracheal pressure measurements



32


Assessment for Placement

- Transtracheal pressure measurements
 - Back pressure
 - Air trapping
 - Assessing for patent upper airway



33

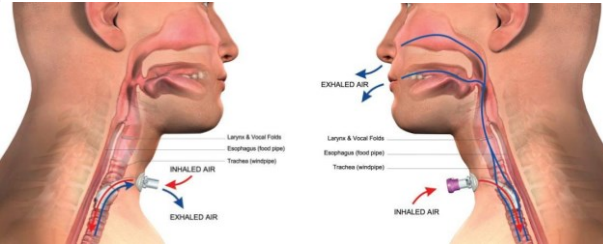
PMV Placement



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Airflow After Tracheotomy

Airflow with Closed System




35

Initial Placement: Coughing



36


Initial Placement: Voicing



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Advantages of a Closed Respiratory System vs Open Tracheostomy


- Open tracheostomy
 - Reduced airflow
 - Reduced positive airway pressure
 - Reduction in the pressurized system
- Closed Respiratory System
 - Allows graded exhalation and pressure regulation
 - Feeding and Swallowing
 - Posture and balance
 - Upper extremity force/strength



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Pressurized System


- Restored or improved pressurized system:
 - Intraoral
 - Subglottic pressure
 - Respiratory – PEEP
 - Esophageal ??
 - Intrathoracic
 - Respiratory
- Leads to improved:
 - Feeding and swallowing
 - Cough and throat clear
 - Trunk support and postural control
 - Respiratory function



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Wear Time

- Patient specific
 - Patient's cognitive status
 - Medical needs
- Minutes to hours
- Treatment plan



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More Education



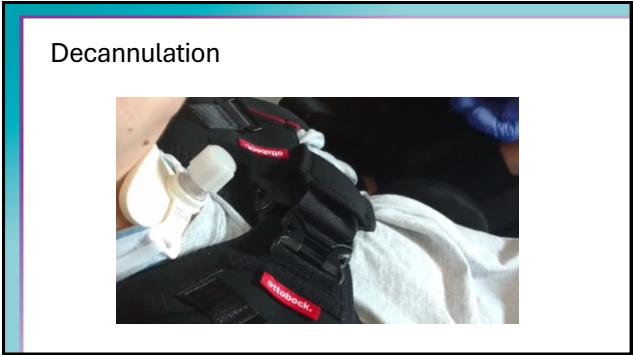
41

Care and Cleaning

- Average lifetime of 2 months



42



43

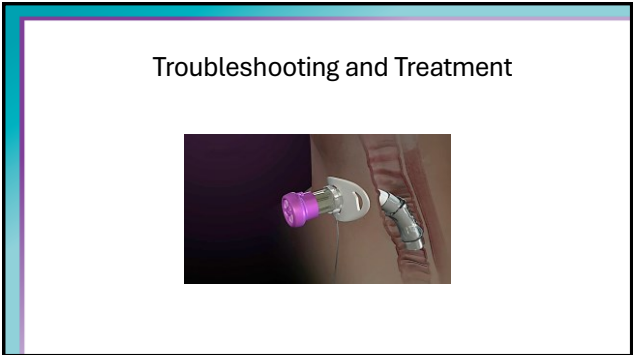


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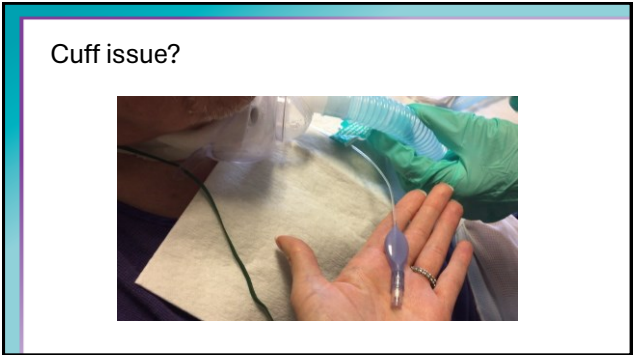
In Summary: What has been accomplished?

- Early intervention:
 - Avoid disuse atrophy
- Close the system to improve:
 - Phonation: access to vocal communication
 - Sensation and secretion management: cough and throat clear
 - Taste and smell
 - Time to weaning and decannulation

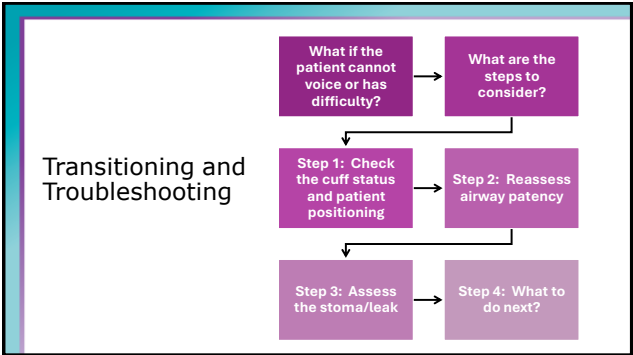
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46




47




48

No Voice




49

Too Many Secretions




50

Case Study: Troubleshooting



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What were some signs of distress that the patient was showing?

① Start presenting to display the poll results on this slide.

52

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What are possible causes of back pressure?

① Start presenting to display the poll results on this slide.

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Factors Affecting Expiratory Air Flow

- Size or type of tracheostomy tube
- Presence and degree of obstruction
- Edema
- Secretions
- Incomplete cuff deflation
- Tube position



54

Airway Obstruction




55

Troubleshooting:
Downsize or Different Brand Tube


Trach A

Trach B



56

Case Study: Resolution



57

Questions to Determine Therapy

- What is diagnosis?
- Why do they have difficulty with:
 - Voice?
 - Breath support?
 - Language and/or cognition?
 - Dysarthria?
- What about swallowing?


58

Goals

- Wear time
 - Patient will wear the speaking Valve:
 - For ____ minutes to improve communication.
 - During ____-minute therapy session without need for Valve removal.
 - For ____-hour periods of time while awake.
- Other goal areas that impact wear time
 - Participate in conversation with audible voicing on ____ out of ____ sentences.
 - Complete ____ number of RMT tasks while wearing the speaking Valve.

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Break: 15 Minutes



60

Basics of Ventilator Application of the No-leak Valve



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Indications for Invasive Mechanical Ventilation

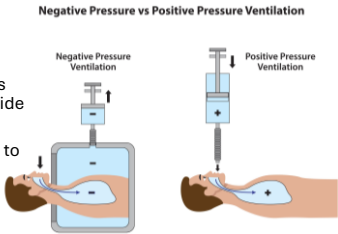
- Can no longer support with NIV
- Airway protection
- Hypercapnic respiratory failure
- Hypoxemic respiratory failure
- Cardiovascular distress
- Anticipated patient decline or impending transfer



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Positive Pressure Ventilation

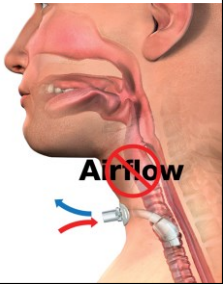
- The primary approach to mechanical ventilation is positive pressure
- The flow's driving pressure is higher than the pressure inside the lungs
- The pressure is high enough to overcome resistance



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Invasive Ventilation

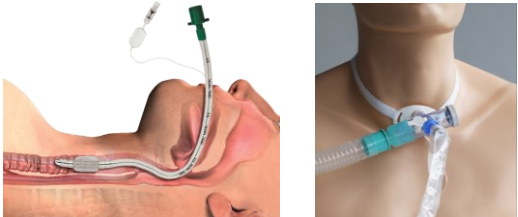
- Usually requires airway to be sealed with little to no leak present.
- Seal is achieved with a cuff at the end of the artificial airway.



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Invasive Ventilation

- Endotracheal Tube
- Tracheostomy Tube



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Modes of Ventilation

- Control Modes
 - Continuous Mandatory Ventilation (CMV)
 - Assist Control (A/C)
- Spontaneous Modes
 - Pressure Support (PS)
 - Continuous Positive Airway Pressure (CPAP)
- Combination Mode
 - Synchronized Intermittent Mandatory Ventilation (SIMV)



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Ventilator Settings


Requiring physician order:

- Mode (A/C, SIMV)
- Breath Type:
 - Pressure Control (PC)
 - Volume Control (VC)
 - Pressure Support (PS)
 - Pressure Regulate Volume Control (PRVC)
- Frequency(f)/Respiratory Rate (RR)
- Positive End-Expiratory Pressure (PEEP)

Therapist driven:

- FiO₂
- Flow rate
- Trigger sensitivity
- Inspiratory time/flow limits
- Alarm settings

67



The image shows a ventilator control panel with various waveforms and numerical data. The 'VOLUME CONTROL' section is highlighted. Key values include: Tidal Volume (27 mL), PEEP (6.3 cmH2O), Flow (12 L/min), FiO2 (3.5), and Respiratory Rate (4.2). A table at the bottom lists: O2 conc 21, PIP 5.0, RR 12, Tidal volume 500, PEEP 0.00, FiO2 0.15, and Respiratory rate 17.2.

Measured Ventilator Parameters

- Exhaled Tidal Volume
- Exhaled Minute Volume
- Peak Inspiratory Pressure (PIP)
- Total Respiratory Rate
- Mean Airway Pressure
- PEEP


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Steps For In-line Valve Placement

69


Why use a Passy-Muir Valve with patients who are mechanically ventilated?

- Verbal communication
- Improved lung recruitment and diaphragm involvement
- More rapid weaning from the ventilator
 - Rehabilitation tool
- Improved secretion management
 - More effective cough
 - Reduces need for suctioning
- Improves quality of life



A nurse is sitting at the head of a patient's bed, holding a cup and talking to the patient. The patient is lying in bed, looking up at the nurse. The patient is on a ventilator.

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A patient is lying in a hospital bed, looking up at the camera. They are wearing a blue and white striped shirt. A ventilator tube is connected to their mouth. The patient is in a hospital room with medical equipment visible in the background.

71

Step 1: Assessment

72

Patient Selection Criteria




- Awake and alert
- Hemodynamically stable
- Able to manage complete cuff deflation
- Manageable secretions
- Patent Airway

73

Establish Baseline:
Assess Vital Signs and Work of Breathing

- Oxygenation
- Vital Signs
- Breath sounds
- Color
- Work of breathing
- Patient responsiveness




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Assess Ventilator Parameters


Three parameters that give you the general state of your patient's respiratory status:

1. FiO_2
2. PEEP
3. PIP



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Assess Ventilator Parameters




FiO_2

- Fraction of inspired Oxygen
- Room Air 21%
- Supplemental $\text{O}_2 > 21\%$

76

Assess Ventilator Parameters




PEEP

- Positive End-Expiratory Pressure
- Resistance to exhaled volume that creates back flow and pressure that stents the alveoli open
- PEEP and FiO_2 work together to improve oxygenation

77

Assess Ventilator Parameters




PIP (Peak Inspiratory Pressure)

- The max amount of pressure to deliver volume
- Sum of the inspiratory pressure required to deliver volume + PEEP
- PIP indicates the compliance of the lungs

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Suggested Ventilator Parameters

- $\text{FiO}_2 \leq .50$
- $\text{PEEP} \leq 10 \text{ cmH}_2\text{O}$
- $\text{PIP} \leq 40 \text{ cmH}_2\text{O}$
- Any conventional mode of ventilation is compatible with the Valve.




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Step 2: Patient Preparation and Education

80

Team Approach


- Timing and tube selection
- Introducing a speaking valve
- When to downsize
- Plan of care
- Decannulation
- Impacts continuity of care
- Impacts safety, length of stay, and cost



81

Patient Preparation


- Body position and posture.
- Position of head, neck, and tracheostomy tube.



82

Pre-Placement, General Observations, and other Considerations

- Have a plan and block time
 - Pick a good time of the day
 - Reduce noise and interference
- Education
 - Reassure the patient
- Address pain issues
- Position the patient



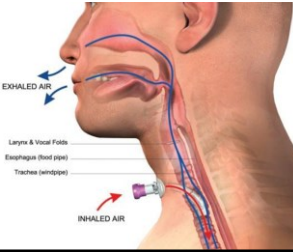
83

Step 3: Assess For Airway Patency

84

Airway Patency Assessment with Mechanical Ventilation

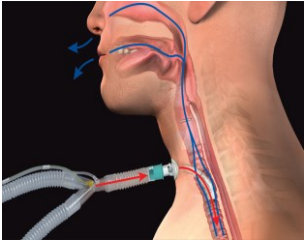
- Requires complete cuff deflation
- Assess the leak or airflow into the upper airway
- Use vent parameters to determine airway patency
- The type of breath matters



85

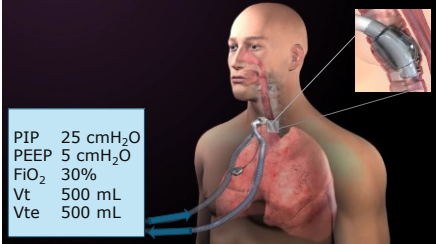
Cuff Deflation and Mechanical Ventilation

- Set parameters do not change when cuff is deflated.
- Cuff deflation generates less resistance to flow.
- Ventilatory system is no longer sealed, there is a leak.



86


VC: Patient Assessment



87

Ventilator Assessment


- Note Vent Settings:
 - Set Vt
 - PEEP
 - RR/f
 - FiO₂
- Note Vent Measurements
 - PIP
 - Exhaled Vt (Vte)
 - Total RR
 - MV



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Upper Airway Patency Assessment

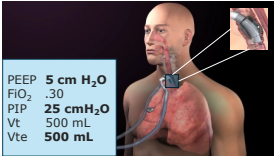
- Turn Down PEEP
 - PEEP down by 5
- Then,
 - Slow cuff Deflation



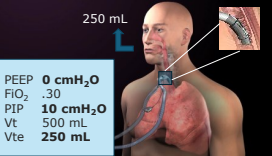
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Upper Airway Patency

Cuff Inflated-Closed Circuit



Cuff Deflated-Open Circuit



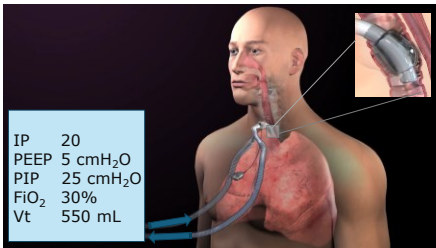
90

Upper Airway Patency Assessment



91

PC: Patient Assessment



92

Ventilator Assessment

- Note Vent Settings:
 - Set IP
 - PEEP
 - RR/f
 - FiO₂
- Note Vent Measurements
 - PIP
 - Exhaled Vt (Vte)
 - Total RR
 - MV



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Upper Airway Patency Assessment

- Turn Down PEEP
 - PEEP down by 5
- Then,
 - Slow cuff Deflation

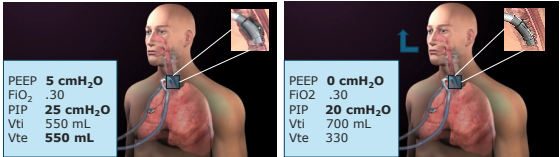


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Upper Airway Patency

Cuff Inflated-Closed Circuit

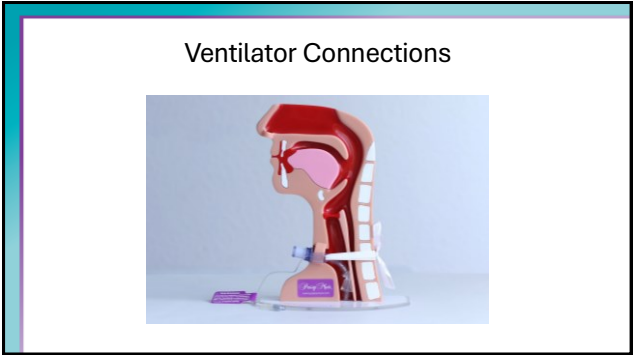
Cuff Deflated-Open Circuit



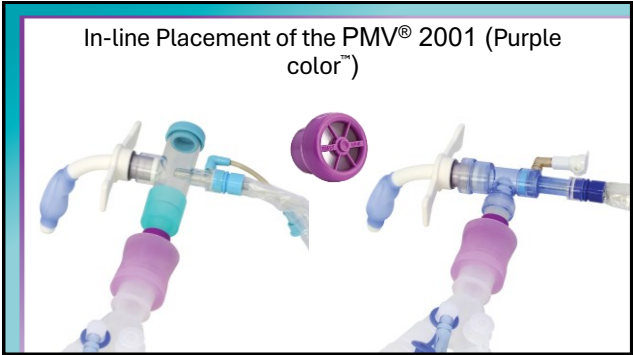
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Step 4: Assemble the Necessary Parts & Pieces

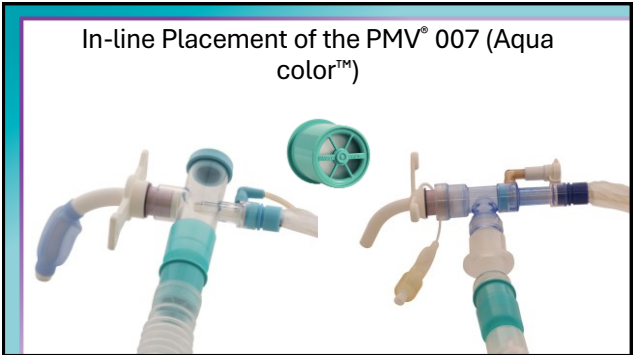
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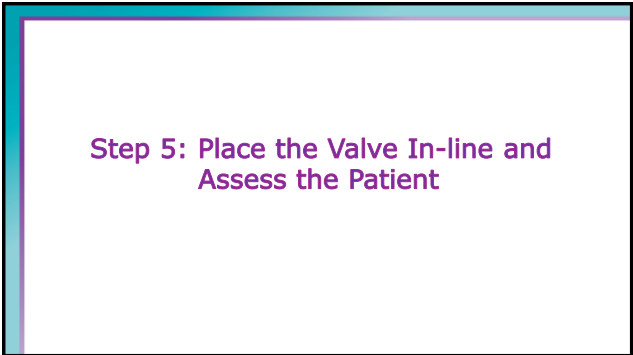
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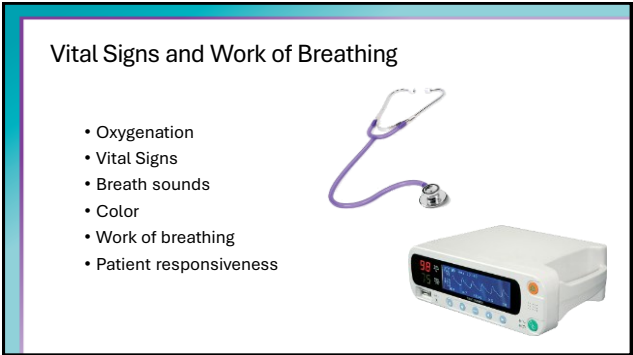
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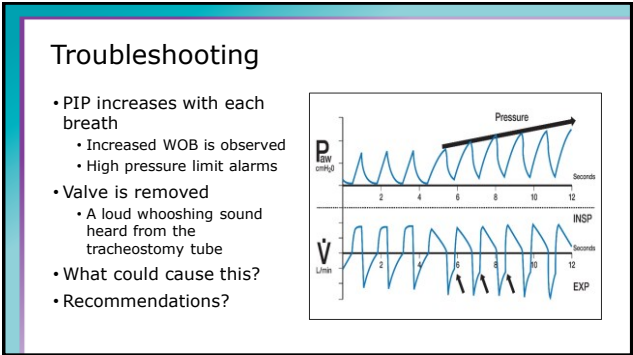
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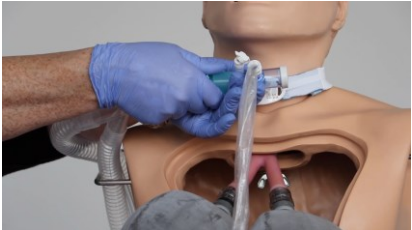


101



102


Listen for Back Pressure



103

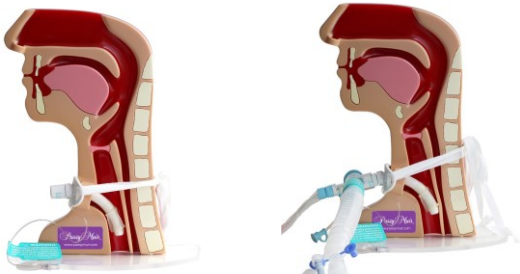
Factors Affecting Airway Patency

- Tracheostomy tube
- Cuff issues
- Airway obstruction



104

Importance of Tube Position



105

FOME-Cuff®

Self-sealing




CONTRAINDICATED For Passy-Muir Valve USE

106

Step 6: Adjust the Vent as Necessary

107

Consider Switching to NIV



- Approach to breath delivery is very similar to invasive ventilation.
- Difference is, there is almost always a leak present.

108

NIV

- Almost always a leak present.
- Flow loss makes it difficult to measure pressures and volumes.
- Most parameters are calculated instead of measured.

109

Considerations with NIV

- Airway patency assessment should not be done in NIV.
- Uses the same settings or as close as possible.
- Maybe necessary to do a trial prior to cuff deflation and Valve placement.

110

Ventilator Assessment and Adjustments

- Adjust PEEP
- Evaluate sensitivity
 - Pressure vs. Flow Trigger

111

Ventilator Assessment and Adjustments

- Volume compensation
 - Increase V_T in small increments to achieve pre-cuff deflation PIP

112

Ventilator Assessment and Adjustments

- Pressure Ventilation
 - May adjust to achieve audible voice and adequate ventilation

113

Ventilator Assessment and Adjustments

- Flow limit
 - Increase the % flow deceleration
 - Ranges 20 to 80%

- Time limit
 - Set I-time
 - 1 second for most adults

114

Alarm Settings – Safe Practice

Low exhaled Vt and Ve alarms

Low pressure alarm

- Set 5 to 10 cmH₂O below PIP

High pressure alarm

- Set 10 cmH₂O above PIP

High respiratory rate

- 10 to 15 above baseline

115

Ventilator Settings and Alarm Management

116

Case Study: Vent

117

Gil

- Ventilator settings:
 - A/C RR 8
 - V_T 700 mL
 - PIP 25 cmH₂O
 - PEEP 5 cmH₂O
 - F_IO₂ .28
- Tracheostomy
 - 1 month
 - Size 8 Shiley XLT

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Cuff Deflation Assessment

- Adjust PEEP
- Slow cuff deflation
- Ventilator:
 - Exhaled V_T 300 mL
 - PIP 12 cmH₂O
- Patient:
 - Weak cough
 - Voicing
- Should the Valve be placed in-line?

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Vent Changes Increase Success

- Valve is placed in-line
- Assessment reveals:
 - Whispers only
 - Poor chest expansion
 - Increased RR
- What ventilator change could be made?

120

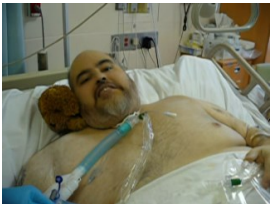
Vent Changes Increase Success

• Vent change:

• Increase V_T to meet


but not exceed pre-cuff

deflation PIP



121

Gil



122

LUNCH

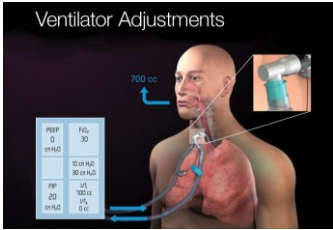


& LEARN

123


Ventilator Demonstration

Ventilator Adjustments




124

Breakout Sessions:
Tracheostomy Tubes and PMVs, Cuff
Management, Vent Application, and
Mock Assessments



125

Placing a Valve In-Line



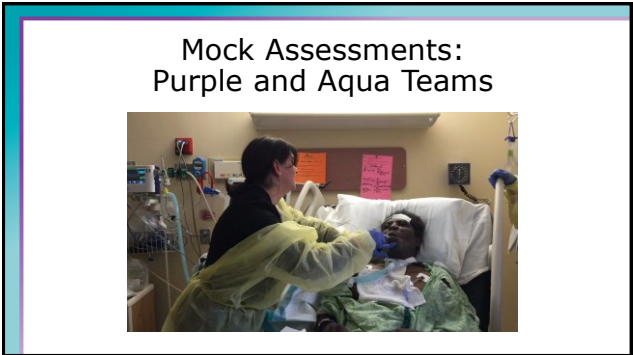
126



127



128




129

Case Study #1: Non-Vent

- 68 y/o male
- Admitted for complications related to OSA
- PMH: obstructive sleep apnea, hypertension, type II diabetes, hypercapnia, chronic pain, BMI > 40, peripheral neuropathy, GERD, nocturnal CPAP with full face mask, depression
- Surgical history:
 - Prior admission: Patient had tonsillectomy to improve airflow through the upper airway with full face CPAP mask.
 - Current: Surgical tracheotomy performed 4 days ago. Patient received #8 Shiley XLT, cuffed.
- Patient is awake and alert, communicating with finger occlusion and nonverbal communication (gestures and writing) during the day. Patient demonstrates frequent coughing and is suctioned regularly.
- Consult received for PMV assessment.

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 What other information would you like to know?

① Start presenting to display the poll results on this slide.

131

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 Does this patient meet the criteria for PMV assessment?

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Put the following steps in order for this patient's assessment.


 Start presenting to display the poll results on this slide.

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What additional recommendations should be considered?

 Start presenting to display the poll results on this slide.


134

Case Study #2: Non-Vent


- 59 y/o male
- Admitted for surgical management of laryngotracheal stenosis
- PMH: laryngotracheal stenosis, lupus, HTN, GERD, depression, CAD, lupus nephritis
- Surgical history:
 - Laryngotracheal reconstruction
 - Suprastomal stent
 - Tracheotomy with #6 cuffless Shiley
- Patient is awake and alert, medically stable, demonstrating desire to communicate
- Consult received for PMV assessment

135

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What do you need to know more about to complete an assessment of this patient?


 Start presenting to display the poll results on this slide.

136

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What considerations would you have with a history of laryngotracheal reconstruction?


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137

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What factors do you want more information about?

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138

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Please download and install the Slido app on all computers you use

Does the position (suprastomal) of the stent make a difference?

Start presenting to display the poll results on this slide.

139

Case Study #3: Non-Vent

- 52 y/o female
- Admitted for SOB
- PMH: hypertension, type II diabetes, chronic kidney disease, SARS-CoV-2, dyspnea, airway stenosis
- Previous hospitalization: SARS-CoV-2, intubated for 26 days, discharged 1 week ago to inpatient rehabilitation
- Patient continued to complain of shortness of breath with rest and exertion, occasional stridor noted, crackling breath sounds
- Surgical history:
 - Laryngoscopy: airway stenosis
 - Surgical tracheotomy: # 6 Bivona TTS
- Chest X-ray: RLL pneumonia, aspirates
- MBSS: open tracheostomy tube, pharyngeal dysphagia with aspiration of thin liquids
- Supplemental oxygen at 3L via trach mask
- Consult received for PMV assessment.

140

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Do you have enough information to proceed with this assessment?

Start presenting to display the poll results on this slide.

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Put the following steps for this patient's assessment in the proper order.

Start presenting to display the poll results on this slide.

142

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Which instrumental assessment would you consider for this patient?


Start presenting to display the poll results on this slide.

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Case Study #1: Vent


Patient history:	<ul style="list-style-type: none">• Admitted to ICU s/p pneumonia w/ 2 failed extubations• h/o smoking, HBP, mild COPD• Trached 2 weeks earlier• Shiley #7 cuffed	
Clinical findings:	<ul style="list-style-type: none">• Awake, alert, following commands• HR and SpO₂ are normal• Hemodynamically stable	
Pre-Cuff Deflation:	Settings: <div>AC/VC RR = 16 bpm VT = 500 mL PEEP = 5 cmH₂O FIO₂ = 40</div>	Measurements: <div>PIP = 25 cmH₂O RR = 18 bpm Vte = 500 mL</div>
Post-Cuff Deflation:	Settings: <div>AC/VC RR = 16 bpm VT = 500 mL PEEP = 0 cmH₂O FIO₂ = 40</div>	Measurements: <div>PIP = 17 cmH₂O RR = 18 bpm Vte =</div>

144



Are the patient's vent parameters stable?

145



What should you adjust on the vent to avoid auto-triggering?

146

Case Study #2: Vent

Patient history:

- 62 y/o male, s/p intubation for COVID for 45 days; no significant PMH; bedside/perc trach 2 weeks ago.
- Admitted to step-down ICU 3 days earlier.
- Bivona #6, Fome-Cuff


Clinical plan and findings:

- Weaning from the vent
- Trial PMV
- SpO₂ = 96%
- Hemodynamically stable
- No s/s of respiratory distress

Pre-Cuff Deflation:


Settings:	Measurements:
AC/VC	PIP = 25 cmH ₂ O
RR = 16 bpm	RR = 18 bpm
Vt = 500 mL	Vte = 499 mL
PEEP = 5 cmH ₂ O	
FiO ₂ = .48	

147



What vent adjustment is recommended before cuff deflation?

148




Will the PIP drop?

149

Trachlore, Barriers, and More


- Panel Discussion – starting point:
 - You have to wait until a patient is weaned from the ventilator.
 - Our patients are too sick to use a Valve.
 - You need a fenestrated tracheostomy tube.
 - We have to keep the cuff inflated due to aspiration.
 - My patient cannot tolerate cuff deflation trials, so they are not ready for a Valve.
 - My patient speaks with a leak, so a Valve is not needed.
- What have you heard?

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Audience Q&A

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- You will have 5 days from the time this course ends to complete the evaluation, which is required to receive credit
- Go to: <https://ep.passy-muir.com>
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- Click on the purple box
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- The meeting code is:

Enter Meeting Code Here

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