Critical Care Guidelines FOR CRITICAL CARE USE ONLY



Guideline for use of Passy Muir Valve

The Passy Muir Valve (PMV) is a speaking valve which can be used with ventilated and self ventilating patients with a tracheostomy. The PMV is always in a closed position until the patient inhales, and thus allows air to reach the vocal cords, nose and mouth on exhalation. The design of the valve restores the positive airway pressure in the lungs.

airway pressure in the lungs.			
Indications for use			
 Patient awake and trying to communicate Manageable tracheal secretions As part of a weaning plan for difficult to wean patients 			
Patients are assessed on an individual basis as to whether the PMV would be of benefit. This can be carried out with senior nursing or physiotherapy staff. Plans to use PMV should then be discussed with the consultant in charge.			
Contraindications and cautions to use			
 □ Severe upper airway obstruction □ No/inadequate cuff leak □ Cardiovascular instability 			
 Less than 48 hours post tracheostomy insertion/change Drowsy patients/low GCS Bronchospasm Thick or excessive secretions Patient unable to tolerate cuff deflation Vomiting/high aspirates/risk of aspiration 			
 Need for nebulised medication- nebulisers should not be given through the PMV as they can affect the function of the membrane within the valve Patients requiring high level ventilator support e.g. high levels of FiO₂ or PEEP As a guide, if PS> 15cmH₂O PMV may be poorly tolerated 			
Equipment required			
 □ PMV □ Suction equipment □ Appropriate connectors (see appendix) □ Syringe to deflate cuff □ Green safety label to attach to cuff 			
Patient assessment and preparation			
Patient observations should be monitored before, during and after PMV placement □ Explain the procedure to the patient □ Suction oral secretions and through the tracheostomy □ Suction via the tracheostomy while deflating the tracheostomy cuff and assess for audible leak at			

mouth- the patient **must** have a cuff leak to be able to proceed with PMV.

☐ If the patient does not have a cuff leak PMV is not appropriate and should not be used- inform the

MDT and re-inflate the cuff.

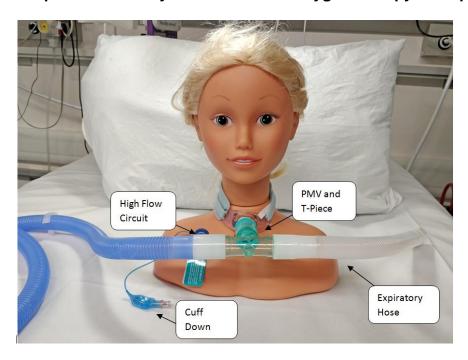
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	If a cuff leak is present, leave cuff deflated Further suctioning as required Place the PMV (see appendix) If using in-line with ventilator, adjust ventilator alarm settings		
	line with ventuator.		
General principles			
	Humidification should always be included in PMV set up		
Discontinuing treatment			
	Signs of increased work of breathing- increased respiratory rate, increased use of accessory muscles, changes in colour, becoming clammy/sweaty Desaturation New cardiovascular instability		
Cleaning			
	After each use the PMV should be cleaned in warm soapy water, rinsed thoroughly and left to air dry. The device is single patient use and should be stored in a pot with date of issue clearly indicated. The PMV can be used for at least 2 months before it should be replaced.		

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PMV set up- tracheostomy with humidified oxygen therapy via T-piece



PMV set up- tracheostomy with humidified oxygen therapy via Y-piece or in line with ventilator circuit

