Competency 6: Setting up hot water humidification for patients with a tracheostomy tube



Trainee

Name:	 	 	
Title:	 	 	

Ward or department: -----

Title:	
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Method of assessment: -----

Supervision Record

Please detail your clinical supervision activity.

Date	Activity	Suggested learning activities	Clinical assessors
			signature

Skill criteria

No errors observed	5
Occasional errors, corrected by trainee	4
Frequent errors, corrected by trainee	3
Frequent errors, not corrected by trainee	2
Trainee unable to proceed without instruction/prompting	1
K= knowledge (minimum level indicated in box *)	S

Knowledge criteria

	Evaluation: articulates response, what, when how and why	5
	Synthesis: articulates the connections between the parts	4
	Analysis: able to examine how parts relate to the whole	3
	Application: can relate facts to another situation	2
	Knowledge and understanding: provides examples and distinguishes differences between examples	1
/		

S= skill (minimum level 4)

Observable criteria		Minimum level	ר a	Tick level of achievement			Asses Outc	sment ome	Assessors Signature and Date	
		* State required level i.e. S4, K5	1	2	3	4	5	Pass ✓	Fail ✓	
1.	Describe the normal function of the upper respiratory									
	tract	K5								
2.	Describe how a tracheostomy can effect this function									
		K5								
3.	Discuss two complications associated with administering									
	medical gases without additional humidification	K5								
4.	Identify the equipment needed by the bedside for a									
	patient with a tracheostomy	K5								
5.	Name four types of humidification systems used within	K5								
	the Trust									

	Observable criteria	Minimum level	ר a	⊺ick chi	ieve eve	/el (eme	of nt	Asses Outc	sment ome	Assessors Signature and Date
		* State required level i.e. S4, K5	1	2	3	4	5	Pass ✓	Fail ✓	
6.	Set up the equipment required for hot water									
	humidification	S5								
7.	Identify four complications associated with this system									
		K5								
8.	Discuss the specific infection control measures related to this procedure	K5								

Competency Statement

Practitioner's signature and date:

I am competent in this procedure at this time and understand the standard statement, action and outcome. Having received appropriate training, I accept full responsibility for the maintenance my own competence and have discussed this role as part of my job description with the person to whom I am managerially accountable.

Signature:

Date:

Printed name:

Date:

Clinical Assessor's signature and date:

I confirm that the above practitioner has achieved the required competency level and is now able to work autonomously in an unsupervised capacity.

Signature:

Printed name:

Date:

Date:

Job role:

Please place one copy of this record in your professional portfolio and give a second copy to your line manager

Assessors Guidelines

Assessment Criteria	Required knowledge and/or skill						
 Describe the normal function of the upper respiratory tract 	 Warms, filters and humidifies inspired air 						
 Describe how a tracheostomy can effect this function 	 By passes the above functions 						
 Discuss three complications associated with administering medical gases without additional humidification 	 Administration of dry gases will lead to damage and poor function of the ciliated epithelial cells in the trachea Thickening of secretions leading to tube occlusion Sputum retention 						
 Identify the equipment needed by the bedside for a patient with a tracheostomy 	 Suction unit (portable or wall) Oxygen or air Oxygen saturation monitor. Area to wash hands Disposable apron, gloves and mask with eye protection. Single sterile gloves Suction catheters Jug or bowl Water to flush suction tubing after procedure 						
 Name four types of humidification systems used within the Trust 	 Cold water (<i>Tyco Respiflow®</i>) AERODYNE AEROSOL HEATER® Swedish nose Heat moisture exchange (HME) <i>Trachphone®</i> 						
 Set up the equipment required for cold water humidification 	 Explains the procedure to the patient Identifies the correct medical gas Attaches the nebuliser unit to the humidifier Attaches the water bottle to the humidifier ensuring that the plastic bottle has been pierced Inserts the temperature gauge Attaches the circuit to the correct flow meter ensuring that it is not cross threaded 						

Assessment Criteria	Required knowledge and/or skill					
	 Connects the elephant tubing ensuring that it is not more than 2 meters in length Connects the tubing to the tracheostomy mask Selects the correct oxygen concentration and flow rate Selects the heater gauge Checks that water is moving in the side arm Check the system is working effectively. By ensuring that a stream of water vapour can be seen if the elephant tubing is disconnected at the adjustable oxygen device. Attaches the mask, ensuring that the patient is comfortable Documents the heater setting and temperature 					
 Identify three complications associated with this system 	 Increased risk of chest infection due to droplets of water accumulating in the tubing allowing bacteria to colonise. Water aspiration if tubing is lifted above the level of the tracheostomy tube Over humidification causing excessive moisture in the dependent bronchi, resulting in fluid overload and infection. Overheating malfunction may cause a rise in core temperature Overheating malfunction may cause tracheal and skin damage 					
 Discuss the <i>specific</i> infection control measures 	 Change elephant tubing every 24 hours and nebuliser attachment every five days Change temperature gauge every?? Dispose of elephant tubing in a yellow bag Dispose of the nebuliser attachment in the sharps bin Empty water condensation into a jug and dispose of in the sluice or toilet if in sideward 					