

Continuous Positive Airway Pressure (CPAP) Safety Inspection Check

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INTRODUCTION:

Use of Continuous Positive Airway Pressure (CPAP) can be quite common in the community, however, there are many different brands used by patients. If a patient with their own CPAP machine admits to the inpatient wards, there is no workflow to ensure that continuity of care is maintained.

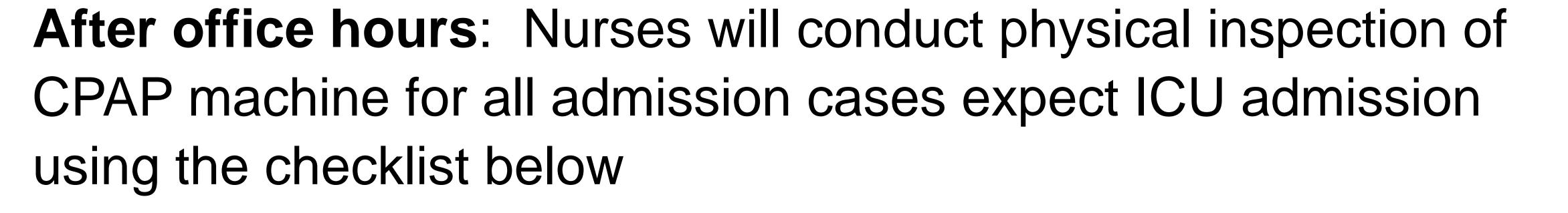
AIM:

The aim is facilitate the ward nurses on the use of CPAP and conduct safety checks so that there is no delay in treatment

Methodology:

Nursing worked with Biomedical Engineering (BME) department to come a workflow to support patients after office hours. Training and guides was given to inpatient nurses on conducting safety inspection checks

During office hours: Nurses will inform BME to conduct CPAP machine physical inspection for all admission cases expect ICU admission.









CPAP checklist

Equipment Parti Brand: Model: Serial No.:	<u>culars</u>	_			
Patient ID:		-			
	Checks	Observations	Yes	No	Remarks
Physical Inspection on Electrical Safety of Machine	Power plug	Moulded plug. No bent or broken pins, crack, and exposed wires.			
	Power cable	No visible cut, exposed wires, and badly twisted cable. Connection to power adapter is tightly fitted.			
	Power adapter (aka AC/DC adapter)	1. Electrical rating input: must be "100-240Vac, 50/60Hz" or "220-240Vac, 50Hz". 2. No crack. 3. No abnormal sound while shaking gently. 4. Cable has no cut or exposed wires. 5. Connection to power cable is tightly fitted.			N.B: Singapore power rating: 220-240Vac, 50Hz
	2-to-3 pins UK plastic adapter (only use for machine comes with 2-pins plug)	No crack or broken plastic pins. Able to fit well onto 2-pins plug to be connected into wall power outlet.			
Physical Inspection on Machine and Accessories	Chassis/Housing	No visible sign machine is being dropped - e.g exterior casing is not dented, loose or mis-align cover, cracked or damaged. No abnormal sound while shaking gently. Power connection at machine is tightly fitted.			
	Hose/Tubing	No puncture or torn hose. Hose connector is not damaged. Able to fit well onto CPAP machine.			
	Face/Nasal mask	No torn or damage mask. Elastic headband is not worn out. Tubings and connectors is tightly fitted.			
	Adapters (where applicable)	No crack or broken adapters. Able to fit tightly to machine, tubing and mask.			
	Humidifier (where applicable)	No crack, damage or broken humidifier chamber.			
Checked by:					

Results:

Nurses are trained to conduct the CPAP machine physical inspection through guiding checklist provide by BME.

Continuity of care is maintained

Conclusion:

This platform of reporting near misses provide accessibility and simplicity for nurses.