NHS Doncaster Clinical Commissioning Group

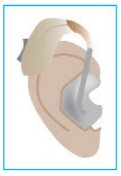
NHS Rotherham Doncaster and South Humber NHS Foundation Trust

NHS Doncaster and Bassetlaw Teaching Hospitals NHS Foundation Trust

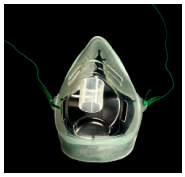
Prevention of Medical Device-Related Pressure Ulcers (MDRPU)

- Pressure Ulcers that result from the use of devices designed and applied for diagnostic and therapeutic purposes are known as MDRPU
- A significant proportion of Pressure Ulcers in critically ill and immobile patients are related to the use of medical devices (Black et al, 2010)
- Many devices are made of plastic, rubber or silicone, which can cause rubbing or create pressure on the soft tissues (Jaul, 2010)
- All patients with a medical device are "at risk" of developing MDRPU (NHS Improvement 2018).

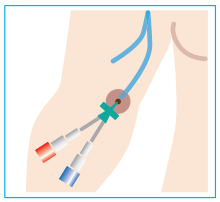
CPAP/BIPAP/NIV



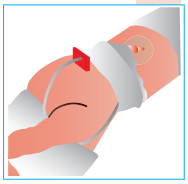
Hearing Aid



02 Mask and Nasal



Chest/Neck Tubing e.g. PICC

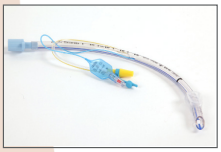


Cannula and Arterial Line

Brace/Splint

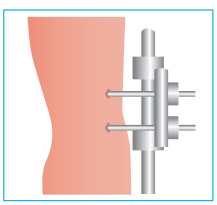
Footwear

Neck/Cervical Collar



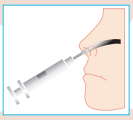
Endotacheal Tube

Plaster Cast



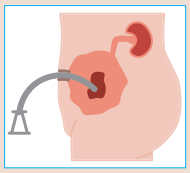
External Fixation

Glasses



Nasal Tubing e.g. NG

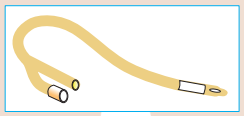
Tracheostomy



Abdominal Catheters e.g. PEG

Jewellery e.g. watch

Underwear and Incontinence Pad



Catheter Tubing

Anti-Embolism Stockings

Assessment:

SELECT ensuring that the device is fitted correctly.

Management:

REPOSITION and/or offload the pressure from the device every two hours as a minimum in order to provide pressure relief.

INSPECT the skin beneath and around the medical device three times a day.

Consider the use of barrier protectants in order to minimise the risk of a MDRPU developing:

- Hydrofilm
- Cavilon
- Proshield
- Aderma.

Evaluation and referral:

ESCALATE any skin changes to the Nurse accountable for the patients care.

REPORT all pressure ulcer via:

DBTH	• Skin Integrity Dashboard • Datix Web.
RDaSH	• Safeguarding IR1 System • TPP System.

DOCUMENT accordingly:

DBTH	• Pressure Ulcer Prevention Care Plan. • Skin Integrity IPOC.

NB: Should the patient be too unstable to have any aspects of the MDRPU prevention plan carried out, this must be documented.

DBTH	• Nursing Daily Plan of Care.
RDaSH	• TPP System One
	• Give consideration to informed refusal and patients mental capacity to make informed choices.

References: NHS Improvement (2018) Pressure ulcers: revised definition and measurement summary and recommendations. Jaul (2010) Ostomy Wound Management. Black et al. (2010) International J of Wound Care.

Developed by: Skin Integrity Team

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