



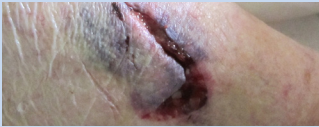

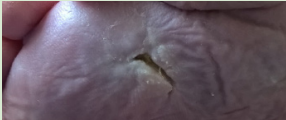
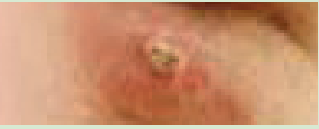
Pathway for Medical Adhesive Related Skin Injuries (MARSI)

Definition - MARSI (Medical Adhesive Related Skin Injuries) are defined as skin damage related to the use of medical adhesive products such as tapes, wound dressings, stoma products, electrodes, medication patches and wound closure strips (JWC International Consensus Document 2020).

Intrinsic risk factors	Extrinsic risk factors	Examples of devices that cause MARSI (Medical Adhesive Related Skin Injuries)
<ul style="list-style-type: none"> Extremes of age (neonates and the elderly) Dehydration Malnutrition Dermatological conditions Underlying medical conditions that affect the skin: <ul style="list-style-type: none"> Diabetes Infection Renal insufficiency Immunosuppression Chronic venous insufficiency Oedema. 	<ul style="list-style-type: none"> Drying of the skin due to harsh cleansers, excessive bathing, low humidity etc Prolonged exposure to moisture Certain medications e.g. long term use of corticosteroids Radiation therapy Photo damage or exposure to ultraviolet light Tape/dressing/device removal Repeated taping. 	<ul style="list-style-type: none"> Stoma products Cannula dressings Electrodes Urethral catheter fixators Adhesive dressings and tapes.

Top Tips

- Use emollients on dry skin as per the local formulary
- Only use a medical adhesive if absolutely necessary
- Try to minimise the number of times that an adhesive medical device is removed
- Ensure the patients skin and general condition are regularly assessed
- Consider using a barrier film.

	Type	Cause	Treatment
Mechanical	Epidermal skin stripping 	<ul style="list-style-type: none"> Removal of adhesive tape or dressing. 	<ul style="list-style-type: none"> Removal of one or more of the layers of the epidermis. Damage is often shallow and irregular in shape. Skin may appear shiny. Open sores may be accompanied by red skin and blister formation.
	Tension injury or blister 	<ul style="list-style-type: none"> Skin swells or stretches under an unyielding adhesive tape or dressing. Poor application of a medical adhesive tape or dressing. A joint or another area of movement is covered with an unyielding tape. Injury caused by a shear force (separation of the epidermis and dermis). Following the Pathway for Wound Cleansing and apply a Urgo Tul Absorb Boarder (can stay in place for 7 days or as per exudate levels) 	
	Skin tear 	<ul style="list-style-type: none"> Skin cut or scrape (shearing) Rubbing (friction). 	<ul style="list-style-type: none"> The skin is pulled away and the layers of the skin separate. This can cause a type 1, type 2, or type 3 skin tear. Follow the Upper body or Lower leg Skin Tear Pathway
Dermatitis	Irritant contact dermatitis 	<ul style="list-style-type: none"> Response to contact with a chemical irritant in the adhesive. 	<ul style="list-style-type: none"> The skin is inflamed and can become blistered, dry, thickened or cracked. Stop using the product that has caused the reaction. Cleanse the skin as per the Pathway for Wound Cleansing and apply emollients as per local guidance Injury caused by shear force.
Other	Maceration 	<ul style="list-style-type: none"> Skin damage resulting in prolonged accumulation of moisture under an adhesive dressing tape or dressing. 	<ul style="list-style-type: none"> Skin appears wrinkled and white/grey. Softening of the skin increases its permeability and susceptibility to infection.
	Folliculitis 	<ul style="list-style-type: none"> Prolonged accumulation of moisture and heat under an adhesive can attract bacteria, which might proliferate in an enclosed environment, resulting in an inflammatory response in the hair follicle. 	<ul style="list-style-type: none"> Appears as small inflamed elevations of the skin around the hair follicle. These can present as papules or pustules.

If the named product on this pathway is not available a temporary second line product is available to use. This can be found within the main text of the Doncaster Wide Wound Care Formulary Document.