Skin Integrity Workshop Diabetes Technology Geraldine Gallen In your experience what are the skin issues, people experience using diabetes technology?

Common issues with skin

• Practical

Does not stick Falls off easily - heat and climate Pain on insertion Bleeds at insertion site Chronic dryness Leaves prolonged red marks Clinical
Hypersensitive reactions
Allergic reactions
Contact dermatitis
Pressure induced sensor attenuation (PISA)
Infections
Blistering
Scaring
Lipodystrophy

These are barriers to continuing diabetes tech Discontinuation can impact glycaemic control, physical & emotionally negatively What early considerations, are important to promoting skin integrity?

Prevention & Assessment Skin

Initial

Undertaken skin assessment;

Visual assessment of CGM and cannula sites

nb: lipohypertrophy

Nutrition and hydration

Assess risk of adverse reactions prior to new tech – history allergies or sensitivities

Timely and appropriate information preventative issues

Early treatment

Ongoing

Review skin health at all consultations

Promote health skin practices (gentle removal and moisturising)

Choosing Sites

- Recommended sites flat areas
- AVOID:
 - 2 inches @ belly button
 - Natural bends
 - Irritation from clothing
 - Hardened areas; scars, stretch marks, tatooos, lypohypertrophy
 - Oil based lotions
 - Overused cannula and CGM sites
- Promote skin health
- Correct preparation
- Site rotation reduce trauma and recovery time
- Do not extend sensor life

What skin preparation do you recommend?

Skin Preparation

- Body hair trimmed
- Wash and dry skin gently but thoroughly (pH neutral soap)
- No oils or lotions
- No alcohol or abrasive wipes
- Sensitive deodorant spray (15 mins before application to allow to dry)
- After application secure edges
- Recognised skin preparation only Skin and Barrier wipes Under tapes to protect skin

Skin Adhesive Wipes

- Aid securing the sensor and preventing early detachment
- Apply using bullseye method

Skin Tac— aids adhesion, latex free, hypo allergenic (often used with Tac Away) (Torbot Group/Mason Labs)

IV Prep— prepare , aids adhesion, good in humid climates or people who sweat (*Smith and Nephew Inc*)

No Sting Skin Prep– protects from irritation between skin and adhesive (*Smith and Nephew Inc*)

Skin Prep - protects from adhesive irritation between skin and adhesive (Smith and Nephew Inc)









Securing Sensors

- Promote sensor life and prevent falling off
- Taping methods

Infusion set tape - Clean and dry skin, insert sensor, over ..., infusion Set IV3000[™] tape

Sandwich Method – Clean and dry skin, apply clear adhesive dressing to skin, apply sensor, cover with another clear adhesive as required

Blanket Method – Clean and Dry skin, insert sensor, cover with tape such as StayPut or HyperFix

Straps or bands specifically for products can be purchased



Tapes

Hypafix [™] Tape by BSN Medical	Non-woven fabric made from white polyester material and coatec with hypoallergenic adhesive on quick-release backing paper. Note: Not available to purchase through Medtronic.
IV3000 [™] Tape by Smith & Nephew, Inc.	Transparent moisture responsive film dressing.
Infusion Set IV3000 [™] Tape by Smith & Nephew, Inc.	Transparent tape dressing with a customized design to fit around the Quick-set [™] , Silhouette [™] , Sure-T [™] , and Mio [™] infusion sets. Made with the same adhesive and film as IV3000 [™] Tape.
Mastisol [®] Adhesive by Ferndale Laboratories, Inc.	Clear, non-irritating liquid adhesive. Consider using Detachol® Adhesive Remover with this product.
Polyskin [™] II Transparent Dressing by Covidien	Moisture Vapor Permeable transparent tape to keep the skin dry and more comfortable at the insertion site.
StayPut[™] Patch by StayPut [™] Medical, LLC	These overlay patches are water-resistant, breathable and flexible to help keep medical devices secured to the body.
Tegaderm [™] HP Transparent Film Dressing	Clear tape dressing that adheres well when exposed to moisture.

How do people requiring wipes and tapes obtain them? What challenges does this pose for them ? Is there anything we can do?

Adhesive removal

- Aid gentle and easy removal 'slow and low'
- Prevent trauma of the skin during removal
- Post care

Baby Oil Chapstick Tac Away – wipes (Torbot and Masons Lab) Detachol Adhesive remover – liquid (Ferndale Lab inc)

UNI-SOLVE Wipes (Smith and Nephew)

- After care Daily Moisturising neutral pH emollients
- Avoid skin products with antiseptic irritants such as benzalkonium chloride (eg Dermol[™] 500).







Bleeding

- Apply ice to the insertion site before the next insertion to constrict the blood vessels
- If there is blood in the infusion set, change it out
- If bleeding occurs under, around, or on top of the sensor, apply steady pressure using sterile gauze for up to three minutes
- ensor, hree
 - If bleeding does not stop, remove the sensor and apply steady pressure

If skin issues are identified what do you do?

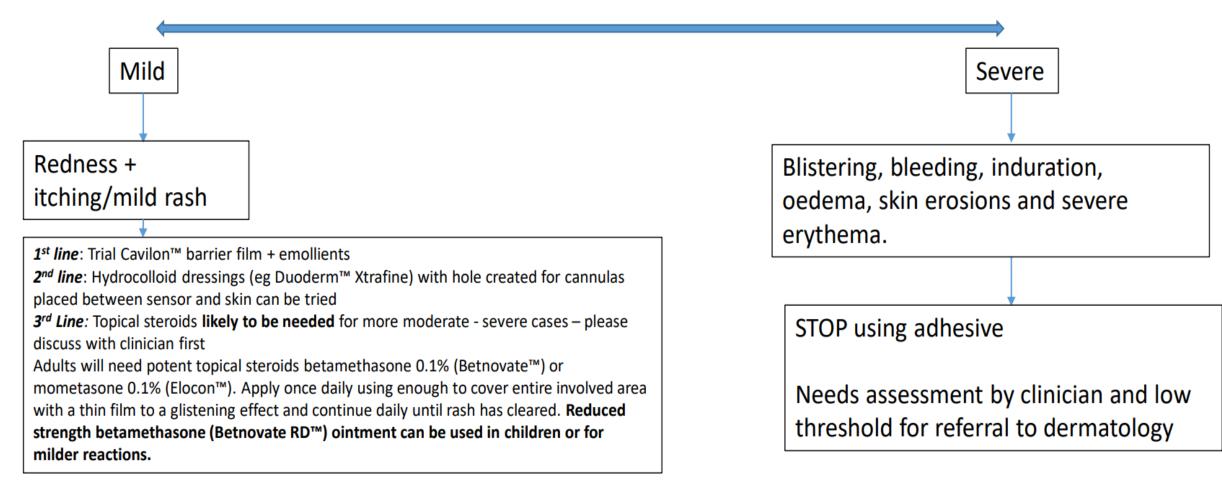
Assessment of skin issues

- A photo
- Assess reaction site cannula entry or adhesive area
- Classify the reaction location, erythema, pain, bleeding, blistering, itch, lump, discharge, systemic symptoms
- History of allergies (skin, asthma, hayfever)
- When does the reaction occur immediately or after a time
- Review skin preparation
- Home treatments?
- Have other sites been tried

Report to MHRA via the <u>Yellow Card</u>

Action

3. Management based on severity of reaction:



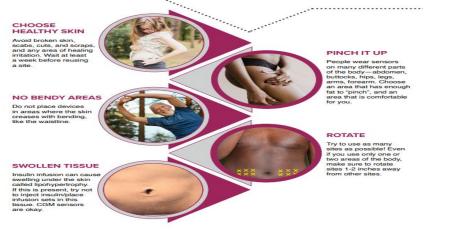
Jointly with Diabetes Team and consultant dermatologist

Severe dermatitis

- Irritant and contact dermatitis
- Excessive itching
- Redness blistering
- Unable to tolerate sensor/cannula
- Likely adhesive
- Possible cannula
- Barrier treatments
- Allergy testing referral to dermatology

Report to MHRA via the <u>Yellow Card</u>

PANTHER Diabetes Technology. FIVE TIPS FOR **DEVICE PLACEMENT**



PANTHERprogram.org

FIVE TIPS PREVENTING SKIN IRRITATION



AMAZON LINK AMAZON LINK

FIVE TIPS FOR **REMOVAL & HEALING**



PANTHER Diabetes Technology.



USE PRODUCTS TO HELP IT UNSTICK

There are a variety of products that can help peel tape from the skin. The simplest solutions may already be in your house—baby oil or olive oil! Wet a paper towel with oil and rub the oil under the corner of the tape. Slowly peel and continue to wipe oil under the tape until the entire sensor is removed

LOW AND SLOW



To minimize the chance of tearing skin, try removing tape by gently folding back on itself (low) and pulling very slowly (slow). This is the "low and slow" technique

CREAMS & LOTIONS

Once the sensor is off the skin, you can condition the area as needed.

For dryness, use lotion
 For redness, itching, or irritation, use hydrocortisone cream (as directed)

on tube) . For skin tears or pain, try an antibiotic cream (as directed on the tube)

LEAVE IT ALONE

Make sure to leave the skin to heal for about 1 week before placing another sensor in the area. Do not cover with tape for at least a week.

GETTING WORSE

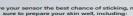


If there is pain, puss, warmth, or spreading redness that persists for 1-2 days after the sensor/set is removed, call your doctor to let them know you may have a site infection. They may prescribe you a stronger antibiotic to treat the infection.

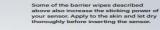
FIVE TIPS FOR EXTRA STICKING POWER



BASIC SKIN PREP

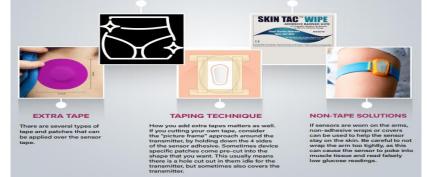


To give your sensor the best chance of sticking, make sure to prepare your skin well, including: Shaving excess hair from the area • Washing with soap and water to remove oils and Make sure the area is completely dry



BARRIERS CAN DOUBLE

AS STICKING AGENTS



https://www.pantherprogram.org/

Summary

To promote on going use of diabetes tech prevent, early detraction and prompt treatment of skin issues

- Inform people of skin issues on assessment for CGM
- Assess skin
- Skin preparation
- Barrier solutions
- Approved products
- Good skin care and rest areas
- Thorough assessment, intervention and referral as indicated























