

How to calculate the DET Score

Examine the peristomal skin (not the stoma mucosa) and evaluate the skin based on the descriptions in each of the three domains (discolouration, erosion and tissue overgrowth).

Maximum points in each domain:

- 3 points for the size of the affected area
- 2 points for the severity

Step 2:

Assess the size of the area affected in each of the three domains and score based on the key (right). Area* affected Score

Assess the **severity** in each of the three domains using the definitions and photographs as a guide.

- If there is no discolouration then the skin is healthy the area score is 0 and the total DET score must be 0.
- If there is discolouration, assess the area affected and the severity within this domain and in the other two domains.
- If the area score is 0 in either the erosion or tissue overgrowth domains then the severity score within that domain will automatically be 0 as well.

For each of the three domains calculate the subscore.

Step 3:

Calculating the Total Score

 Calculate the Total Score (maximum 15) by adding all of the subscores from each domain together.

Please go through the descriptions for each score in the scoring system every time you perform an assessment. The total DET score gives information on overall severity, while the subscores for each domain help define the skin problem.

Note: In a situation where a large area of skin with low severity includes a small area with a high severity, the highest severity should always be scored even though the area is small.

Unaffected 0

<25% 1 25–50% 2

>50% 3

*Area is defined as the

peristomal skin area

that is covered by the

adhesive

Area of Discolouration (including eroded areas and tissue overgrowth)

Domain 1: Discolouration

Normal skin (absence of any visible change and damage to epidermis)

If the **Area of Discolouration** score is 0, the score for Domain 1 must be 0 + 0. The skin is normal and the **Total Score** must be 0

Score = 0

Less than 25% of the skin covered by the adhesive is affected

> Please assess severity Score = 1

Between 25% and 50% of the skin covered by the adhesive is affected

> Please assess severity Score = 2

More than 50% of the skin covered by the adhesive is affected

Score = 3

Please assess severity

Domain 1: Discolouration

Severity of Discolouration

Discolouration of the peristomal skin



Score = 1

Discolouration of the peristomal skin with complications (pain, shiny, indurated, hot, itching, burning)



Score = 2

Domain 2: Erosion

Area of Erosion / Ulceration

If the Area of Erosion score is 0, the score for Domain 2 must be 0 + 0 Score = 0

No Erosion

Less than 25% of the skin covered by the adhesive is affected

> Please assess severity Score = 1

Between 25% and 50% of the skin covered by the adhesive is affected

> Please assess severity Score = 2

More than 50% of the skin covered by the adhesive is affected Please assess severity Score = 3

Domain 2: Erosion

Severity of Erosion / Ulceration



Score = 1

of the skin with complications (moisture, bleeding or ulceration)





Damage to the upper level



Damage to the lower layers



of the skin





covered by the adhesive is affected

Please assess severity Score = 2

Please assess severity

Score = 3

Domain 3: Tissue Overgrowth* Domain 3: Tissue Overgrowth Severity of Tissue Overgrowth

Area of Tissue Overgrowth

*Tissue Overgrowth is defined as raised tissue above skin level including hyperplasia, hypergranulation or keratinisation

No Tissue Overgrowth

If the Area of Tissue Overgrowth score is 0, the score for **Domain 3** must be 0 + 0

Score = 0

Less than 25% of the skin covered by the adhesive is affected

> Please assess severity Score = 1

Between 25% and 50% of the skin

More than 50% of the skin covered by the adhesive is affected

Raised tissue above

skin level

Score = 1

Raised tissue above skin level with complications (bleeding, pain, moisture)



Score = 2

Total Score

Developed in cooperation with the Coloplast Global **Advisory Board**

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1. VISUAL SYMPTOMS

oss of epidermis and/or

2. ASSESS CAUSE

or other secretions?

urine or other secretions?

the area?

ed or discoloured skin and/or

ding skin surface and/or

Does the construction of the stoma cause the skin to be

Is the hole in the adhesive a different size than the

stoma, allowing the skin to be exposed to faeces, urine

On removal, is the adhesive eroded from exposure to faeces,

Does the appliance inadequately adhere to the skin

allowing exposure to faeces, urine or other secretions?

Does the person use soaps, solvents, adhesive removers or

other products containing chemicals in the peristomal area?

exposed to faeces, urine or other secretions?

RRITANT CONTACT DERMATITIS

rplāsia (wart-like papules, nodules, whi

AIM* Guide for Peristomal Skin Care

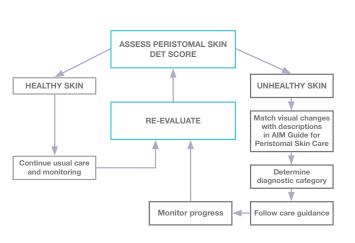
How to use the Ostomy Skin Tool

The flowchart below illustrates how to use this tool.

Assess the peristomal skin using the DET Score (see details on reverse side).

If the skin is healthy (DET = 0), continue with the usual care and monitoring routine. Re-evaluate the skin as necessary

- a) If the skin appears unhealthy, use the visual changes observed during the DET scoring process and match with the descriptions in the top horizontal row of the AIM Guide for Peristomal Skin Care.
- b) This will allow the most appropriate diagnosis category or categories to be determined as there may be more than one cause. Skin disorders are classified into five diagnostic categories: **irritant** contact dermatitis (which is the most common); allergic dermatitis; mechanical trauma: infection-related: or disease-related
- c) Once a diagnosis category (or categories) has been chosen, ask the patient the questions in Section 2 "Assess Cause" to establish the most likely cause of the skin complication. It is important to ask all of the questions since several may be relevant to the same patient. Based on the answers. follow the recommendations for care and when necessary refer for further evaluation and treatment. Note: these are general recommendations for care and you should follow the regulations and guidelines of your own country or institution if there are differences.1
- d) Continue monitoring and re-evaluating to check that the peristomal skin condition is improving



CHEMICAL IRRITATION

1. VISUAL SYMPTOMS

- Ulcer/wound involving all three skin lavers

Use a convex appliance along with accessories such

Assess the appliance fitting technique. Consider using

a mouldable or pre-cut appliance so that the adhesive

• If the stoma diameter tends to vary, use a barrier ring,

• Observe the erosion pattern on the adhesive to determine

• If there is a high volume of watery output, provide dietary

advice and/or medication to thicken it (may require referral)

Use adhesive and accessories with an extended wear time

• Ensure skin is completely dry before applying adhesive

topical sucralfate and accessories with high absorbency

For excessive perspiration, use a protective skin product.

For uneven skin, use accessories to provide a smooth surface.

• For tissue overgrowth, treat with silver nitrate or a steroid

(non-greasy formulation) according to local regulations/

quidance as the products listed can cause skin irritation

or consider a more flexible adhesive or belt. Consider a convex

YES paste, barrier ring or a different type of adhesive

product for creased/folded peristomal areas

Consider irrigation for adults with a colostomy

YES • Assess cleansing technique and provide skin care

YES • Consider changing the appliance and accessories

Consider the possibility of a secondary infection

Does the person complain of pain, burning or itching in • Consider possible allergic reaction (see Allergic Dermatitis)

quidelines (may require referral)

For moist skin from erosion, use products to dry and heal the

skin (e.g. aloe vera products, ostomy powder, gentian violet),

Use a protective skin product such as barrier film

Consider irrigation for adults with a colostomy

fits exactly to the diameter of the stoma

paste or mouldable appliance

YES where leakage occurs

Change the appliance more frequently

3. CARE GUIDANCE

YES as a paste, barrier ring or belt

Surgical revision may be required

ALLERGIC DERMATITIS

Red, irritated skin corresponding to the nape of the adhesive contact surface

Is the peristomal skin disorder associated with a change

Does the person have a systemic skin rash visible on

other areas of the body?

in appliance, skin care product or medication?

2. ASSESS CAUSE

3. CARE GUIDANCE

allergenic materials

Consider patch testing to identify an unknown allergy Does the person suffer from allergies and have papules, YE apply a small amount of a product to the skin on plagues, oedema and/or excoriation on the skin the opposite side of the abdomen from the stoma and corresponding to the size and shape of the appliance or observe any reaction. If the allergen is not identified, roduct being used? consider laboratory testing

> Use a protective skin product such as barrier film** Consider using a steroid (non-greasy formulation) according to local regulations/guidelines (may require referral)

Avoid using appliances or accessories containing

• Stop using all accessories, use only water to clean the skin and reassess after a few days • Assess the affected skin to determine if there is a pattern that matches any part of the adhesive

Consider patch testing to identify an unknown allergy apply a small amount of a product to the skin on the opposite side of the abdomen from the stoma and observe any reaction. If the allergen is not identified, Is the adhesive removal or cleansing technique too rough? consider laboratory testing Consider oral or topical antihistamines

• Determine whether any foods – particularly new foods introduced to the diet – have the potential to cause an Is the adhesive changed too frequently?

• If a new medication is being used, seek medical advice Consider laboratory testing to identify the causative allergen

1. VISUAL SYMPTOMS

- ss of epidermis full thickness tis- Pain

Is there a risk of friction or pressure (e.g. from convex

Has friction caused bleeding, lesions and tearing around

MECHANICAL TRAUMA

2. ASSESS CAUSE

appliance, belt, clothing or obesity)?

the edges of the adhesive?

Is the skin shaved too frequently?

DISEASE RELATED

1. VISUAL SYMPTOMS

2. ASSESS CAUSE

areas of patchy dry skin?

history of psoriasis?

- Solitary or multiple lesions
- esions indurated or ulcerated
- Red to purplish discolouration

Is the skin red and itchy with moisture

exuding from raised areas or are there

Does the skin have irregular, raised, thick

silvery-white scaly plaques or is there a

Does the skin have a bluish-purple hue

Is the skin ulcerated with irregular, painful,

patient have a history of Crohn's disease.

ulcerative colitis or rheumatoid arthritis?

Does the skin have red, oedematous,

palpable nodules or cauliflower-like

raised purple margins and/or does the

NO

NO

and/or obvious dilation of the veins?

Necrosis with undermined ulcer edges

NO

3. CARE GUIDANCE

may cause friction or pressure

friction and pressure

YES | adhesive to a different shape

barrier film**

each appliance change

remover if necessary**

(e.g. paste, barrier film)**

Use a less sticky adhesive

If a belt is used, assess whether it is necessary

adhesive with an extra seal (e.g. barrier ring)

• Assess and modify where possible other factors that

Provide advice on lifestyle modification

Use a shallower or softer convex appliance or an

Provide education on monitoring for symptoms of

Consider irrigation for adults with colostomies

Consider changing the position of the adhesive at

Consider using a protective skin product, such as

Assess the adhesive removal technique. Use an adhesive

Assess cleansing technique and cleansing products used

YES • Switch to extended wear appliances and accessories

YES • Assess shaving technique and only shave when

Consider applying povidone-iodine

INFECTION RELATED care quidance

Use accessories that will prolong adhesive properties

If hair growth is excessive, consider laser treatment

If folliculitis has developed, please refer to the

Consider changing to a different adhesive or cut the

- Bleeding or purulent exudate
- Erythematous, thick, silvery-white, scaly plage
- Köbners phenomenon (consequence of psoria

▼ 3. CARE GUIDANCE

Cause: possible eczema/atopic dermatitis

• Use a steroid (non-greasy formulation) on the affected area according to local regulations/guidelines (may require referral)

- Ensure steroid is completely absorbed before attaching the appliance If skin is weeping, consider using appliances and accessories with
- Are there red pustules around the hair follicles that progress to papules and then crusted reddened

YES Cause: possible psoriasis

- Use a steroid (non-greasy formulation) on the affected area according to local regulations/quidelines (may require referral)
- Assess cleansing technique

signs of haemorrhage

Consider using a soft, flexible appliance and accessories

Cause: possible caput medusa (peristomal varices)

- Use gentle cleansing technique to prevent bleeding Change appliance less frequently and use a soft, flexible one-piece appliance without a belt (avoid two-piece appliances) to relieve any pressure Assess stomal varices at the mucocutaneous junction, particularly for
- If haemorrhage occurs, apply direct pressure and cauterise using silver nitrate or a topical dressing designed to promote haemostasis. If severe, refer for further treatment
- Refer for treatment of underlying disease

Cause: possible pyoderma gangrenosum

- Use local (non-greasy formulation) or systemic steroids, or immunosuppressive drugs (e.g. tacrolimus) according to local regulations/quidelines (may require referral)
- Change appliance less frequently and consider using a soft, flexible appliance without a belt
- Provide pain and ulcer management
- Appliance may need to be refitted once the skin has healed due to full-thickness tissue destruction or an uneven healed area Refer for treatment of underlying disease

Cause: possible benign or malignant lesions

- For dry lesions, consider using a soft, flexible appliance
- If discharge is present, consider an appliance with a drainable pouch **ES** • Ensure the adhesive is properly cut to fit around the stoma and
- draining lesion to collect all discharge in the pouch Consider odour-eliminating products
- May require more frequent monitoring if growth distorts peristomal area or changes size or shape of stoma
- Refer for treatment of underlying disease

INFECTION RELATED

1. VISUAL SYMPTOMS

Does the skin have a red, raised, pruritic rash

localised or generalised) with satellite pustules and

2. ASSESS CAUSE

- Discoloured (redness, hyperpigmentation) Red papules with a white top

3. CARE GUIDANCE

Cause: possible folliculitis Assess shaving technique and reduce frequency of

- Remove appliance using adhesive removers
- Consider cleansing peristomal skin with a mild or
- antibacterial soap until cured Consider applying povidone-iodine or gentian violet according to local regulations/guidelines • For deep/severe/persistent folliculitis – which can
- lead to cellulitis or abscess formation consider oral antibiotics according to local regulations/ guidelines (may require referral)

Cause: possible fungal infection • Determine potential causes of infection such as

- leakage from appliance Cleanse skin gently and dry completely YES • Consider antifungal powder/spray (e.g. containing
- miconazole) or silver powder (rub into area and brush off excess) Consider applying povidone-iodine or gentian violet
- according to local regulations/guidelines Consider an accessory or appliance with increased
- absorbency Assess frequency of appliance changes, either
- change less frequently by using an extended wea appliance to ensure optimal skin protection or change daily to allow treatments to be applied
- Treat fungal infection elsewhere in body according to local regulations/guidelines (may require referral)

Cause: possible abscess

before the base has healed

- **YFS** For a fluid-filled abscess allow collection to drain If abscess wound is deep, packing may be required to protect the wound from faeces, urine or other secretions, and prevent healing at the surface
 - If systemic symptoms are present, use antibiotics according to local regulations/guidelines (may require referral)

*Assessment, Intervention and Monitoring

Is the skin swollen, red and painful?

- **This is not recommended in premature babies Note: All information is based where possible on the best available evidence