Skin Tears and PI Staging

Emil Schmidt
The Whatu Ora Southern
emil.schmidt@southerndhb.govt.nz
Otago

With thanks to

Mandy Pagan & Phyl Harvey

Southland

Agenda

- Skin Tear Prevention
- Skin Tear Classification, Management and Documentation
- Pressure Injury Definition
- Pressure Injury Staging
- Incontinence Associated Dermatitis vs Pressure Injury

Skin Tear Prevention

- MOISTURISE: Apply prescribed Sorbolene cream (soap substitute) for showering / bathing. Use soft cloths & towels, pat skin dry, do not rub. Moisture arms and legs (Sorbolene: thin application).
- MINIMISE: manual handling. Use slide sheets to reposition. Falls prevention.
- STAFF: Short nails & minimise jewellery (per Policy)
- PROTECT: Non-restrictive clothing over arms and legs. Utilise limb protectors.
- SAFETY: Exercise caution when using equipment such as hoists, commodes, wheelchairs, side rails etc.
- NUTRITION + HYDRATION: dietary consult if deficits are identified.



Twice-daily skin moisturising has been proven to reduce the incidence of skin tears by 50%

What is a skin tear?

The International Skin Tear Advisory Panel (ISTAP) defines a skin tear as "a traumatic wound caused by mechanical forces, including removal of adhesives. Severity may vary by depth (not extending through the subcutaneous layer)"1.

Skin tears have been reported to occur in the extremes of age (newborn and the elderly), and among the critically and chronically ill. They can be found on all areas of the body, but are particularly common on the extremities.

A skin tear can be classified as either partial-thickness or full-

thickness.



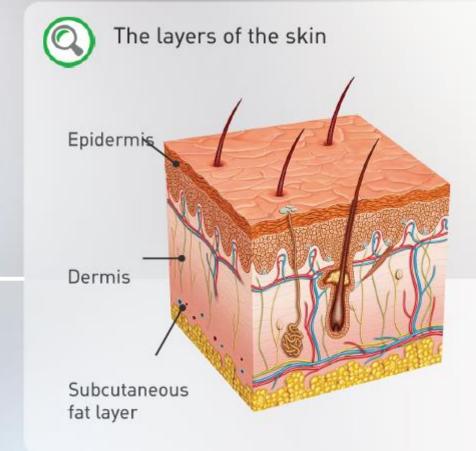
Partial-thickness

Means that a separation of the epidermis from the dermis has occurred.



Full-thickness

Means a separation of both the epidermis and dermis from underlying structures.





ISTAP Skin Tear Classification System

The ISTAP Skin Tear Classification System was developed to standardise terms used in identifying and documenting skin tears.

According to the system, skin tears are classified as Type 1 (no tissue loss), Type 2 (partial tissue loss), and Type 3 (total tissue loss).

Type 1: No tissue loss





Linear or flap tear which can be repositioned to cover the wound bed¹.

Type 2: Partial tissue loss



Partial flap loss which cannot be repositioned to cover the wound bed¹.

Type 3: Total tissue loss



Total flap loss exposing entire wound bed¹.



Initial treatment of skin tears

Reapproximate wound edges

How to reapproximate wound edges

If the skin flap is viable, gently ease the flap back into place as a "dressing". You can use a gloved finger, a dampened cotton tip or a silicone strip to align the flap.

If it is difficult to align the skin edges, consider using a moistened non-woven swab for 5-10 minutes to re-hydrate the flap.

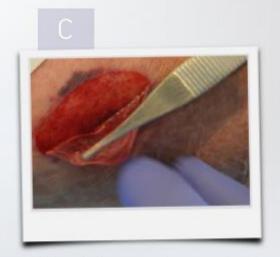
These are the recommended steps:

A

This shows a skin flap which is intact but needs to be rehydrated before being repositioned.



Flap is now clean, moistened, and ready to be realigned.



Carefully ease the flap back into place like a "dressing".



Return flap back to its original position, fully covering the wound bed.



Steri Strips

- Expert opinion advise adhesive strips (i.e. steri-strips) are no longer a preferred treatment for skin tears
- Steri-strips: If using less is best, apply on intact skin, gently pull wound edges together avoid skin pinching or traction and allow gaps for exudate to drain
- DO NOT USE COMFEEL OR FILM DRESSINGS

Steri-strips are too close - not allowing wound drainage

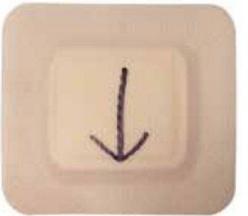


Dressing Tips

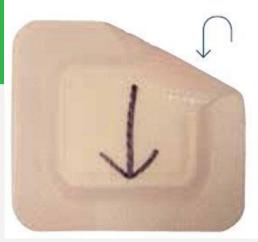
- The absorbent pads on dressings must be larger than the wound to absorb exudate
- Draw arrow on the dressing to indicate direction of removal so the skin flap will not be lifted
- *Use skin barrier to protect intact skin from adhesives
- *Remove dressings low and slow using 'remove wipes'
- *Not required when silicone foam dressings are used
- To reduce skin swelling a glove of tubigrip over forearm and hand can be used
- Nurses must assess circulation first before applying tubigrip to the lower leg (use toe to knee softban, firm crepe then apply tubigrip)



Skintear



Arrow to indicate direction of dressing removal



Remove in the direction of the arrow

Light Compression

- To reduce skin swelling a glove of tubigrip over forearm and hand can be used
- Nurses must assess circulation first before applying tubigrip to the lower leg (use toe to knee softban, firm crepe then apply tubigrip)







Skin Tear Management (District)

Sutures & staples are not recommended in older persons or persons with fragile skin.

- ✓ Control bleeding.
- ✓ Cleanse & irrigate remove residual clot & debris.
- ✓ Assess tetanus risk & vaccination status.
- ✓ Preserve skin flap & gently realign.
- ✓ If skin flap is dry: re-hydrate with saline gauze soak.
- ✓ Classify skin tear & document (e.g. residual clot, flap is pale or dusky).
- ✓ Reassess in 24 48 hrs if flap is pale or dusky. Non-viable flaps will need debridement.







Type 1: No skin loss

Type 2: Partial flap loss

Type 3: Total flap loss

Select Dressing:

- Avoid Film or Comfeel dressings. If required secure flap with Mepitel (do not overlap).
- Steri-strips: none, or less is best, apply skin to skin (not on wound), gently pull wound edges together avoid pinching & allow gaps for exudate to drain.
- If bleeding: Alginate (Kaltostat) & dry dressing (e.g. combine or mesorb); or Cuticerin or Mepitel & dry dressing; or Mepilex Border or Mepilex dressing. Mark an arrow on dressing to show direction of removal.
- Opsite Post-Op has low absorbency use only on <2cm Type 1 or 2 skin tears.
- Avoid adhesives on fragile skin. To secure dressings & reduce swelling on lower leg or arm apply soffban and firm crepe. Add tubigrip (toe to knee or hand to elbow) if arterial circulation is not compromised.







Hospital acquired skin tears must be reported on Safety1st and ACC forms completed

Skin Tear Management Poster Southern DHB 62531 V3 Released 07/05/2019

Stick to your Wound Product Guide



Wound Product Practice Guideline (District)

Cost Guide: GREEN: Go! Continually monitor wound progress.

Cost Guide: ORANGE: Consider! Dressing must stay in situ 3 to 7days (unless otherwise indicated); if not choose a more cost-effective option.

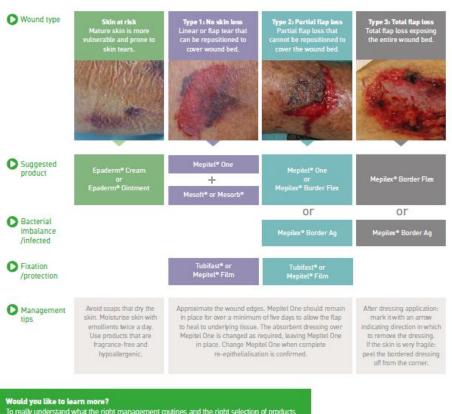
Coet Guide: RED: Stop! Dressing must stay in situ 5 to 7days (unless otherwise indicated); if not choose a more cost-effective option.

Secondary Dressing e.g. gauze, combine or mesorb gauze, combine or mesorb opsite, comfeel or mepilex border nove not required	Flat wound, fingenhand wounds Painful and/or flat wounds e.g. skin tears and fingerinjuries. Dry necrosis & dry slough	Practice Tips Cut slits in dressing to allow passage of viscous exudate; do not overlap or use under foam or hydrocolloid dressings. For finger injuries cut slits down the side to allow finger to bend. Moisten gloves with sterile water or saline to avoid sticking to gloves; do not overlap. Can be left up to 14 days (but change secondary dressing) in non-infected wound or if dressing pores are not clogged with exudate. Not for wet wounds. Apply gel at 5mm thickness. Left up to 3 days. Recommend intrasite conformable dressing over exposed tendon / bone to keep moist and viable.
gauze, combine or mesorb opsite, comfeel or mepilex border	Painful and/or flat wounds e.g. skin tears and finger- injuries. Dry necrosis & dry slough	foam or hydrocolloid dressings. For finger injuries cut slits down the side to allow finger to bend. Moisten gloves with sterile water or saline to avoid sticking to gloves; do not overlap. Can be left up to 14 days (but change secondary dressing) in non-infected wound or if dressing pores are not clogged with exudate. Not for wet wounds. Apply gel at 5mm thickness. Left up to 3 days. Recommend
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mepilex border		
mepilex border		
not required		
	As a secondary dressing to retain moisture	Not advised as a primary dressing as not absorbent. Avoid over dressings such as mesorb or foams as reduces dressing breathability and increase microbial growth.
not required	Surgical post-op wounds, small cuts/grazes	Low absorbency. Do not use on infected or highly exuding wounds.
NCY) - use remove wipes to		
not required	Transparent: low exudate & Ulcer: moderate exudate	Cover 1-2cm larger than wound. Not for infected/highly exuding wounds. AVOID USE ON SACRUM OR BUTTOCK as wrinkles increase risk of pressure injury.
or foam	Moderate to high exuding wounds.	Pack lightly into cavities. Can break hence do not use if dressing cannot be fully reached or removed safely.
or foam	Moderate to high exuding wounds.	Pack lightly into cavities. Dressing is stitched to ensure residual dressing is not left behind; leave 2cm end out of wound cavities to allow easy removal.
secure with hypafix or bandage	High exuding wounds	Mesorb is more absorbent than gauze/combine and these products should not be used under Mesorb. If adheres to wound use cuticerin under mesorb.
	combine, mesorb, or foam combine, mesorb, or foam secure with hypafix	not required Transparent: low exudate & Ulcer: moderate exudate Combine, mesorb, or foam Moderate to high exuding wounds. Combine, mesorb, or foam Moderate to high exuding wounds. Secure with hypafix High exuding wounds

Company Guidelines

Mölnlycke® dressing selection guide for skin tears

Before applying dressings, control bleeding, cleanse or debride the wound, and reapproximate the skin flap.



Treatment of superficial skin tears of any size that can be managed within the care home



- Select appropriate cleanser
- Assist in bleeding control
- Clean wound if needed

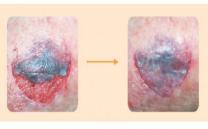


Smith Nephew



alignment

- · Align skin flap (where possible) over wound
- · Use moistened glove to roll skin flap if able





and dress

Review and

re-assess

- Consider factors affecting wound heali (holistic health assessment)
- Assess surrounding skin
- Categorise using STAR¹² classification
- Select appropriate dressing
- In the direction of the skin flap, draw an arrow on top of the dressing







Category Laand Ib - Slin flep Category 2 and Ib - Slin flep Category 3 - No slin flep can be resigned cannot be resigned

For full STAR classification system for reassessment refer overleaf

- Reassess within 5 days unless signs and symptoms of infection,
 if concerned, or if dressing needs changing (see ALLEVYN When to Change Poster)
- Determine date of wound review and dressing change; document
- Remove the dressing in the direction of the arrow
- Monitor for changes in the wound and exuda
- Assess surrounding skin integrity





To really understand what the right management routines and the right selection of products can do for you and your patients, you may wish to visit www.molnlycke.com where you can find a skin tear training module with a detailed description on how to predict, prevent, assess and manage skin tears. This module is endorsed by ISTAP, the International Skin Tear Advisory Panel.

Documentation

• Wound:

Cause and location of skin tear
Length, width and depth of injury
Skin Tear Classification 1-2-3
Presence of unmovable clot
Level of pain
Dressing/s applied

- Preventative actions taken
- Notify nurse & family informed
- Incident reported via facility protocol
- ACC notification

Pressure Injury Staging (PI)

Wound Care

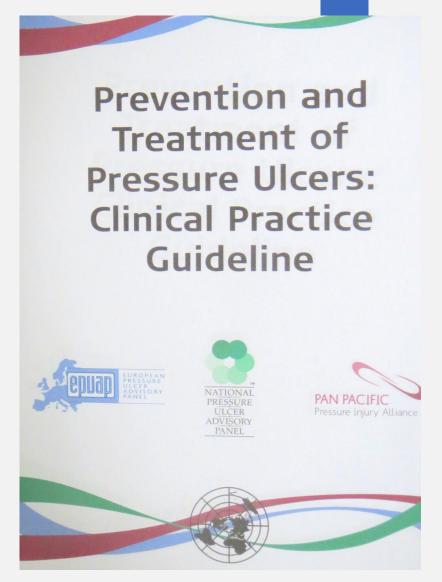


OPEN

Revised National Pressure Ulcer Advisory Panel Pressure Injury Staging System

Revised Pressure Injury Staging System

Laura E. Edsberg ♦ Joyce M. Black ♦ Margaret Goldberg ♦ Laurie McNichol ♦ Lynn Moore ♦ Mary Sieggreen







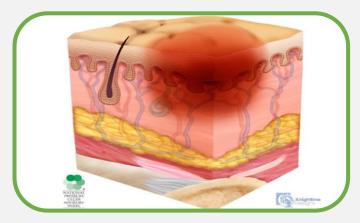
Definition of Pressure Injury (PI)

- ✓ Localized damage to the skin and underlying soft tissue usually over a bony prominence
- √ The injury can present as intact skin or an open ulcer and may be painful
- √ The injury occurs as a result of intense and/or prolonged pressure or pressure in combination with shear
- √ The tolerance of soft tissue for pressure and shear may also be affected

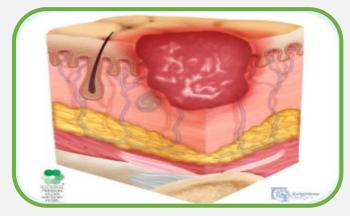




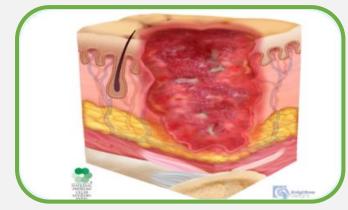
PI Staging



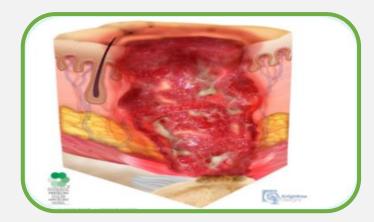
Stage 1



Stage 2



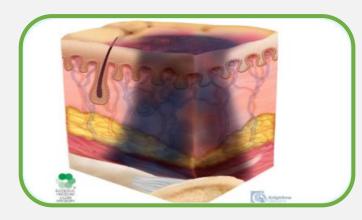
Stage 3



Stage 4



Unstageable



Deep Tissue Injury





Blanching Redness – not a Pl

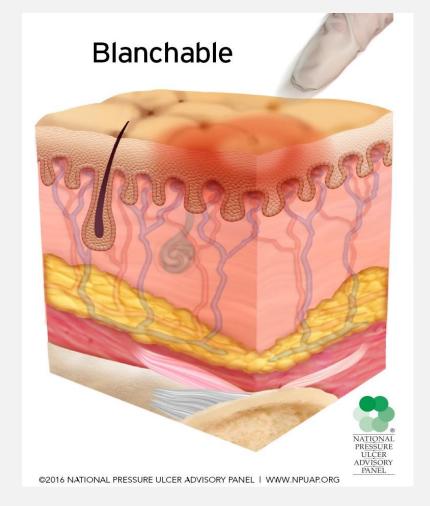
✓ When lightly pressed the redness will turn white indicating the blood supply

is intact

Reddened area that turns pale under applied light pressure. This is NOT a Stage1 pressure injury









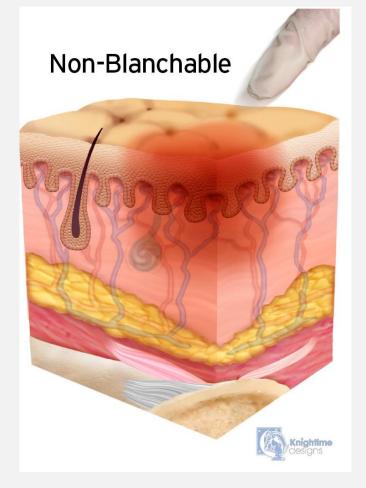


Non Blanching Redness – Stage 1

- √ There is NO change in the redness when lightly pressed
- ✓ An area of persistent redness in lightly pigmented skin with intact skin

The PI appears as a defined area of redness that does not blanch (become pale) under applied pressure

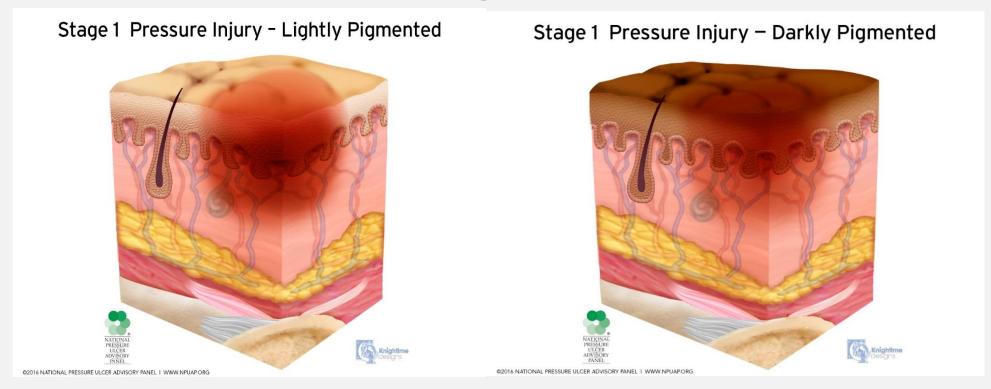








Stage 1 PI



- ✓ Intact skin with non-blanchable persistent redness
- ✓ Darkly pigmented skin may not have visible blanching; its color may differ from the surrounding area
- ✓ Stage 1 are often the first visible change in the skin
- ✓ Important that scar tissue and Deep Tissue PI (DTI) are not classified as Stage 1





Stage 1 PI







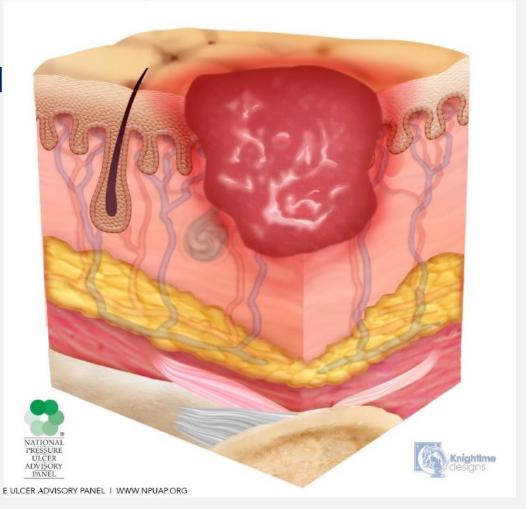
Stage 2 PI

Partial-thickness loss of skin with exposed dermis

Wound bed viable, pink or red, moist and may present as blister

Fat tissue not visible

This stage should not be used to describe moisture-associated skin damage, mucosal ulcers or skin tears







Stage 2 PI









Incontinence-Associated Dermatitis (IAD)

- ✓ IAD is a reactive response of the skin to chronic exposure to urine and faecal material which may be observed as an inflammation and erythema with or without erosion
- ✓ It is not a pressure injury
- ✓ In infants and young children it is referred to as nappy rash or contact diaper dermatitis









Differentiating between IAD and PI

	IAD	Pressure injury
Cause	Moisture	Pressure/ischaemia
Location	Perineal	Over bone
Shape	Irregular	Well defined
Depth	Superficial	Superficial to deep
Tissue colour	Pink/red	Pink/red, black, yellow
Edges	Diffuse/wandering	Well defined
Associated factors	Urinary and/or faecal incontinence	Reduced mobility Sensory impairment



Treatment: Refer To Your Local IAD Guidelines



Adult Skin Care Formulary & Prevention and Treatment of Incontinence Associated Dermatitis (IAD) (District)

Skin Issue	Products & Practice Tips
Normal skin moisturiser	Non-ionic cream 100g tubes \$1+.
Dry & sensitive skin care Please refer to pharmacist for advice if lip/skin lesions or weeping eczema are present.	Fatty cream (100g tube \$1.60) OR non-ionic cream (100g tube \$1+). Patients requiring larger volumes of fatty or non-ionic cream can order 500g tubs for single-patient use only.
Massage	Fatty cream is greasy and suitable for massage.
Dry heels	White soft paraffin or fatty cream can be used for cracked dry heels.
Lip care	White soft paraffin (10g tube <\$1)

Cleansing: Continue with soap for normal skin. Clinical note: Soap can raise skin pH and damage the acid mantle causing skin dryness. Microshield handwash solution found at each sink pH 5.5 and pH 7 should be used for washing instead of soap for older patients and where patients have dry or sensitive skin. Alternatively, fatty and non-ionic cream can be added to water and used as a soap substitute for patients with sensitive skin (note these will not foam).

Urine and stool incontinence - skin irritation and inflammation and risk of IAD: The use of oil, silicone-based creams or talcum powder on the skin may affect the permeability and function of incontinence products.

Note: For incontinence-associated dermatitis (IAD) avoid all soaps and use 'Secura' cleanser.

Intact mild inflammation but no broken areas

Aim: to prevent skin breakdown.

Step 1: Smith & Nephew Secura Moisturising Cleanser (236mL \$10+). No-rinse product that aids removal of urine, faeces and exudates, and moisturises the skin. Spray directly onto skin, especially after an incontinence episode, wait few seconds to loosen debris then blot or carefully wipe with a damp wash cloth. Do not use water to cleanse. Step 2: First choice - 10% dimethicone barrier cream (100g tube \$3+) for use on intact skin or as a second choice - zinc cream (20g \$2+) can be used on dry and mildly abraded skin.



Broken skin with large amounts of exudate

NB: Zinc contains traces of peanut oil.

Aim: to heal skin lesions and restore healthy skin integrity.

Step 1: Smith & Nephew Secura Moisturising Cleanser (236mL \$10+)

No rinse product that aids removal of urine, faeces and exudates and
moisturises the skin. Spray directly onto skin, especially after an
incontinence episode, wait few seconds to loosen debris then blot or
carefully wipe with a damp wash cloth. Do not use water to cleanse.

Step 2: Smith & Nephew Secura Extra Protective Cream 30% (92g tube
\$9+). Warm cream in gloved hands, dab or pat on to build a thick
protective layer over affected area. Apply after every incontinent episode
to seal out wetness and prevent further skin breakdown. Remove cream
with the moisturising cleanser; unsoiled cream can be left in place. Avoid
on deep or puncture wounds, infections or lacerations.



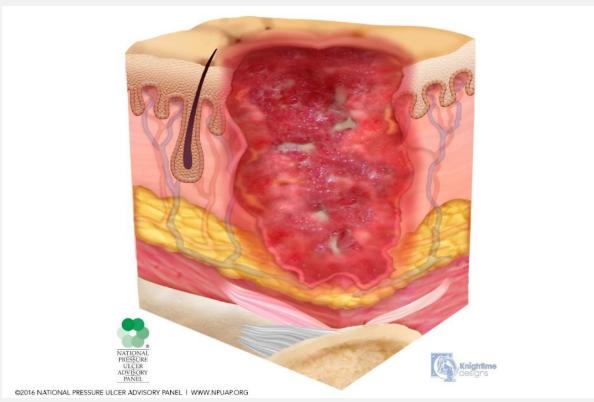
> Safe Application of Creams, Lotions, Ointments + Topical Solution Products (Southland) (65737)

Perform hand hygiene before and after wearing protective gloves. Multi-use creams, lotions and ointment must be dated when first opened and discarded after one month in acute patient areas. Keep product in a central area for dispensing, dispense cream from tubes by allowing it to flow from the tube and drop onto a clean gauze, pot or gloved hand and use immediately. Do not allow the product container to come into contact with your unclean hands/gloves or patient's skin, blood or body fluids. Any product missing lids/caps or with visual evidence of blood or body fluid should be discarded.





Stage 3 PI



- ✓ Full-thickness loss of skin
- √ Adipose (fat) is visible, granulation tissue
- ✓ Undermining and tunnelling may occur
- ✓ Fascia, muscle, tendon, ligament, cartilage and/or bone are **not** exposed
- ✓ If slough or eschar obscures the extent of tissue loss this is an Unstageable PI





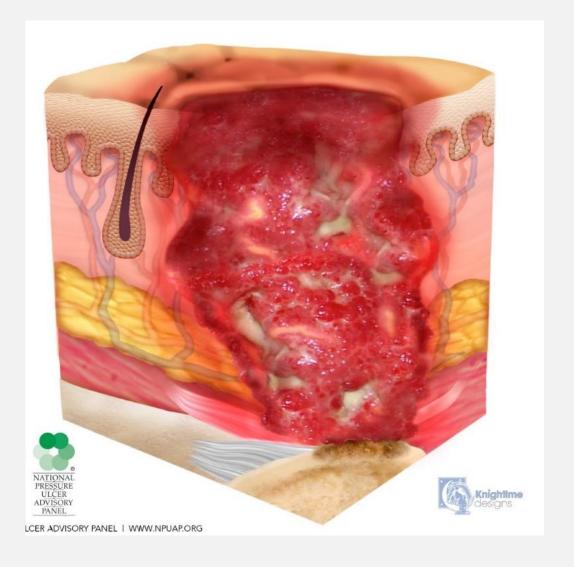
Stage 3 PI





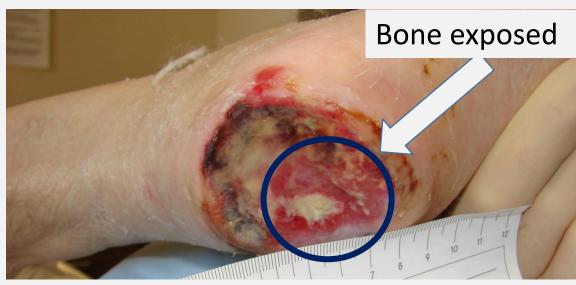
Stage 4 PI

- ✓ Full-thickness skin and tissue loss with exposed or directly palpable fascia, muscle, tendon, ligament, cartilage or bone
- ✓ Slough and/or eschar may be visible
- ✓ Depth varies by anatomical location





Pictures of Stage 4 PI

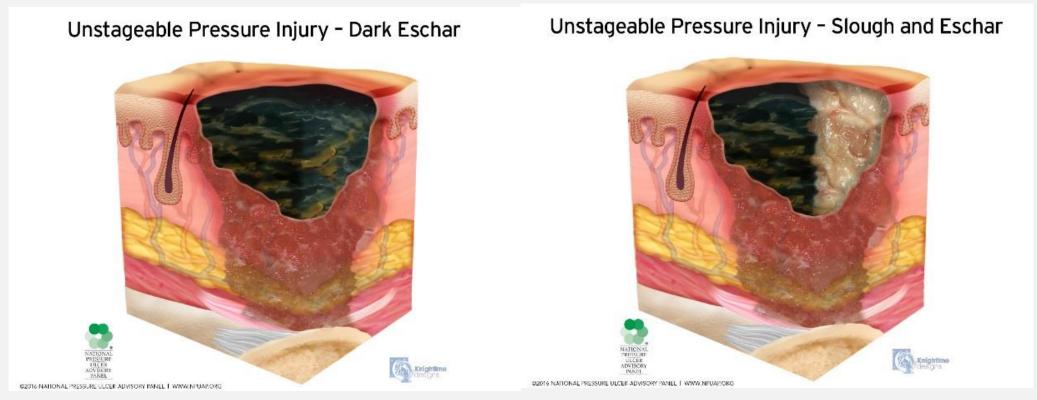








Unstageable PI



- ✓ Extent of tissue damage within the ulcer cannot be confirmed because it is obscured by slough or eschar
- ✓ Stable eschar (i.e. dry, adherent) on the heel or ischemic limb should not be softened or removed





Unstageable PI

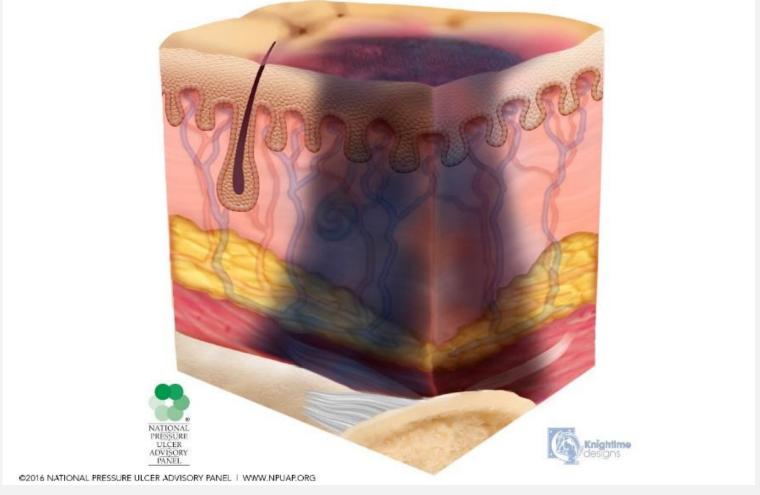








Suspected Deep Tissue Injury (SDTI)

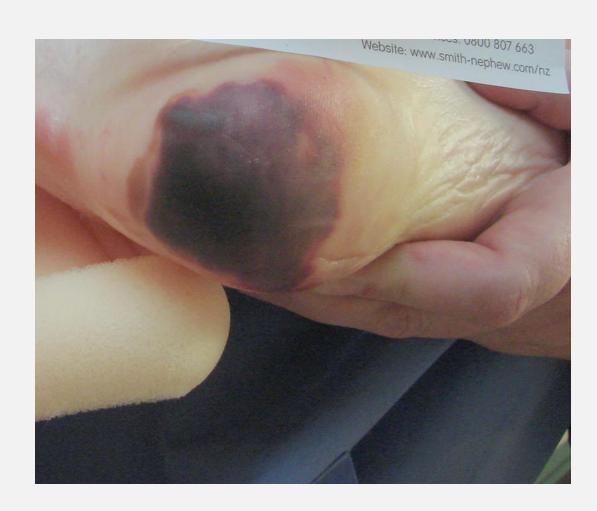


✓ Persistent non-blanch able deep red, maroon or purple discoloration Epidermal separation revealing a dark wound bed or blood filled blister





Pictures of SDTI









Medical Device Related Pressure Injury





- ✓ Medical device related pressure injuries result from the use of devices designed and applied for diagnostic or therapeutic purposes
- ✓ The pressure injury generally conforms to the pattern or shape of the device



