

A pathway for
treating a person with a:

Pressure injury

New Zealand Version 1.0



An evidence-based step-by-step guide
developed by clinicians for clinicians

Developed by clinicians for clinicians

This Pathway was developed with feedback and input from over 2200 health care professionals in the field of wound care. It offers a unique evidence-based approach to managing pressure injuries and lets you put the latest evidence in wound care to use in real life.

Authors:

Terry Swanson, Nurse practitioner, Australia; Dr. Caroline Dowsett, United Kingdom; Dr. Jose Ramon March Garcia, Spain; Emily Greenstein, Nurse practitioner, USA; Dr. David Keast, Canada; Dr. Long Zhang, China; Dr. Hester Colboc, France

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Take a shorter way to wound healing

By following the steps in this pathway, you can provide an optimal healing environment for pressure injuries and reduce the risk of complications that could lead to delayed healing or worse.

Any advice included here needs to work in conjunction with your local protocols and your individual scope of practice.



Whenever a QR icon appears you can scan the correlating QR code at the bottom of the page.



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The guidance provided in this book, is best understood in combination with the detailed guidance available to you in [The Wound Care Pathway](#). Whenever the book icon appears you can look up further information there.



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*Te Mana Ola: The
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*The Wound Care
Pathway*

What is a pressure injury?

A pressure injury is defined as localised damage to the skin and/or underlying tissue, as a result of pressure or pressure in combination with shear. Pressure injuries usually occur over a bony prominence but may also be related to a medical device or other object.¹

Most common cause

- Pressure on sacrum, heels or occiput
- Shear from improper transfers, sliding down in bed or medical devices²

Contributing Factors

- Friction caused by movement
- Microclimates leading to moisture associated skin damage

Other contributing factors for pressure injuries can also be poor perfusion, reduced sensation and inadequate nutrition.³

Characteristics

You can expect pressure injuries to present themselves as either open ulcers or intact skin and may be painful to the person you are treating.⁴

What does it look like?



Pressure injury on
Trochanter



Pressure injury on a heel

Step 1

How to **assess** a pressure injury

- First, you should conduct a holistic patient assessment.  Your focus should be on risk factors such as mobility issues and incontinence.
- Make your assessment of the pressure injury using the NPIAP/EPUAP/PPPIA classification system.⁵ 
- Conduct a comprehensive skin assessment. Look for changes in pigmentation, oedema and changes in tissue consistency in the surrounding skin (induration). Also check for body or localised temperature changes.⁶
- Thoroughly inspect the skin for changes in colour as skin tone variance may affect presentation of early-stage pressure injuries. It may present as redness, darkening, lightening or grey/blue/purple tones. Skin may also feel tight, spongy or appear shiny.⁶
- Determine why the pressure injury has occurred and identify contributing factors such as:
 - Organ failure – e.g. other organs are failing or poorly functioning, such as renal or heart
 - Pressure/shear – e.g. sitting up greater than 30 degrees, tight sheets, sliding down the bed or the chair
 - End of life – e.g. last days of living

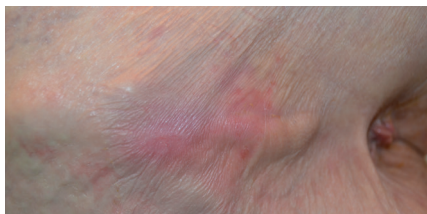


Scan to access
the NPIAP/EPUAP/PPPIA
quick reference guide

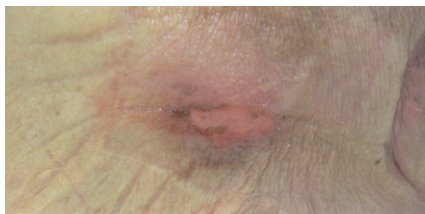
- Once the cause has been determined, take action to prevent further injury. Identify risk factors and work with all members of the care team to prevent further injury. Use risk assessment tool to identify risks.
 - Check for moisture associated skin damage (MASD), as it contributes to making the skin more vulnerable to shear and friction. It can be caused by urinary/faecal incontinence and/or localised moisture and temperature.
 - If you are dealing with a heel ulcer, then screen for peripheral arterial disease by conducting a localised vascular assessment such as a pulse palpation or ABPI (Ankle-Brachial Pressure Index) or TPI (Toe Pressures).
 - Look at and address other contributing factors such as medication, nutrition, anemia, hydration and incontinence.
-  **Be aware** of skin changes at end of life (SCALE) as part of the holistic patient palliative care plan.

How to **classify** a pressure injury

- First determine if you are dealing with a pressure injury or something else.
- Make your assessment of the skin or wound using the NPIAP/EPUAP/PIIA classification system.  See pictures below:



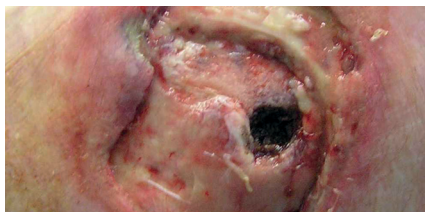
Stage 1



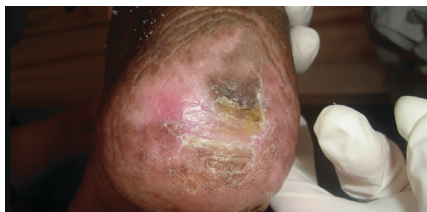
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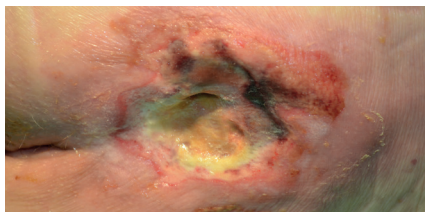
Stage 3



Stage 4



Suspected Deep Tissue Injury*



Unstageable Pressure Injury



Scan to access
International NPUAP/EPUAP
Pressure Ulcer Classification system

*Image of Suspected Deep Tissue Injury: NPIAP.com Copyright
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Step 2

How to develop a **treatment & care plan**

- Identify goals based on healability of the wound. Goals may include: decrease in wound size, alleviation of smell, decreased discharge and pain, etc.
- Goals should focus on prevention and the patient's quality of life, regardless of healability. Be aware that healability depends on both extrinsic factors (such as: medications, moisture, pressure/friction/shear, etc.) and on intrinsic factors (such as: posture, malnutrition, sensory impairment, unmanageable co-morbidities, etc.).⁸
- Consider ASSKING  (Assess, Skin Assessment, Surface, Keep Moving, Incontinence, Nutrition, Giving Information).
- Ensure continuity of patient care, considering both the environment and patient journey.
- Ensure good communication across the whole care team, including families and care givers, as clear and continuous communication between patient, care team and family is very important.
- Manage risk factors (i.e. mobility limitations, medical devices, perfusion and oxygenation, poor nutrition, increased skin moisture, temperature, incontinence) and maintain good skin health.
- Remember to pay attention to support surfaces, repositioning and off-loading of pressure.



Keep in mind: goals for palliative care patients should focus on pain management and quality of life. 



Scan to learn more about
ASSKING (page 6)



Scan to learn
more about
Pressure injuries
in palliative care

Step 3

How to **manage** a pressure injury

- First, you should clean the wound and surrounding skin with low-toxicity solutions such as potable/sterile water or sterile saline.
- If infection is suspected, the use of antiseptic solutions for cleaning the wound and periwound is recommended.

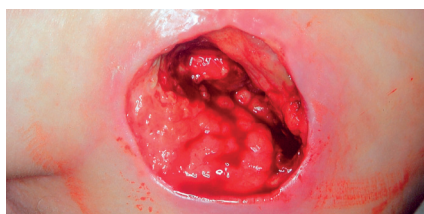


Remember: Irrigation of the wound should be avoided, if you can not see where the irrigation solution is going. Compresses can be used if irrigation is not possible.

- Clean and debride the wound to remove non-viable tissue unless there is stable eschar on a heel or an area of poor perfusion.



Before debridement



After debridement

- If you assess that you are dealing with an infection, proceed according to the IWII Infection Continuum & Management Guide.
- Pay close attention to the wound's moisture/exudate balance.
- Manage the skin micro-climate (moisture and heat).

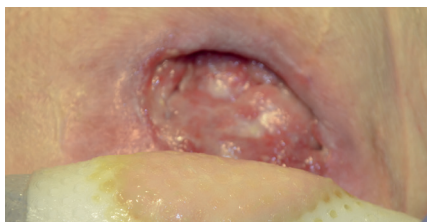


Scan to access
The IWII Infection Continuum
& Management Guide (page 56)

Step 4

How to choose dressing & additional therapy

- To manage exudate, always choose a dressing that fills in the gap between the wound bed and dressing. 



Wound bed conforming dressing



Gelling fiber dressing for exudate management

- Make sure the dressing protects the periwound skin, and will be atraumatic upon removal.
- The dressing should also be able to manage the moisture of intact skin – dry skin, MASD as well as faecal and urinary incontinence are significant risk factors often associated with pressure injury occurrence and re-occurrence.



Be aware that MASD as well as faecal and urinary incontinence are significant risk factors often associated with pressure injury occurrence and re-occurrence.



Scan to learn more about
*The role of dressings in pressure
ulcer prevention (page 11)*

Step 5

How to **monitor** progression

- You should periodically re-assess risk factors or if there has been a change in medical status or situation.
- ⚠ **Be aware** that the risk of reoccurrence can increase with:
 - Immobility, planned immobility and restricted mobility
 - Loss of sensation
 - Medical device use and scarring
- Consider including equipment specialists on the care team, as it will help ensure that seating, mobility and bedding equipment are appropriate under each individual patient's circumstances.⁹
- Remember to monitor both wound and patient progression. Enforced bed rest can lead to many complications – in addition to pressure injuries – such as:
 - Depression
 - Cognitive deterioration
 - Loss of appetite, malnutrition, etc.

When monitoring patients, you should team up with the other members of the multi-disciplinary care team to watch for signs of injury and remove the pressure.

When to refer or contact a specialist

- ❗ You should refer all Suspected Deep Tissue Injuries (SDTI) and unstageable pressure injuries or if you have concerns.
- ❗ Refer if you are dealing with a pressure injury with a complex aetiology.
- ❗ Refer if a vascular assessment is required.
- ❗ Always refer a heel pressure injuries for a vascular assessment by other specialists such as podiatry- or vascular specialists.

Glossary of pressure injury terms

Poor Perfusion – occurs when blood flow to a specific part of your body is reduced.

Moisture Associated Skin Damage (MASD) – is caused by prolonged exposure to various sources of moisture, including perspiration, wound exudate, mucus, saliva, urine or stool and is characterised by inflammation of the skin, occurring with or without erosion or secondary cutaneous infection.

Eschar – is dead tissue that sheds or falls off from the skin and is typically tan, brown, or black, and may be crusty.

Friction – is the force of rubbing two surfaces against one another. Shear is a gravity force pushing down on the patient's body with resistance between the patient and the chair or bed.



For a glossary of general
wound care terms consult
The Wound Care Pathway



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