

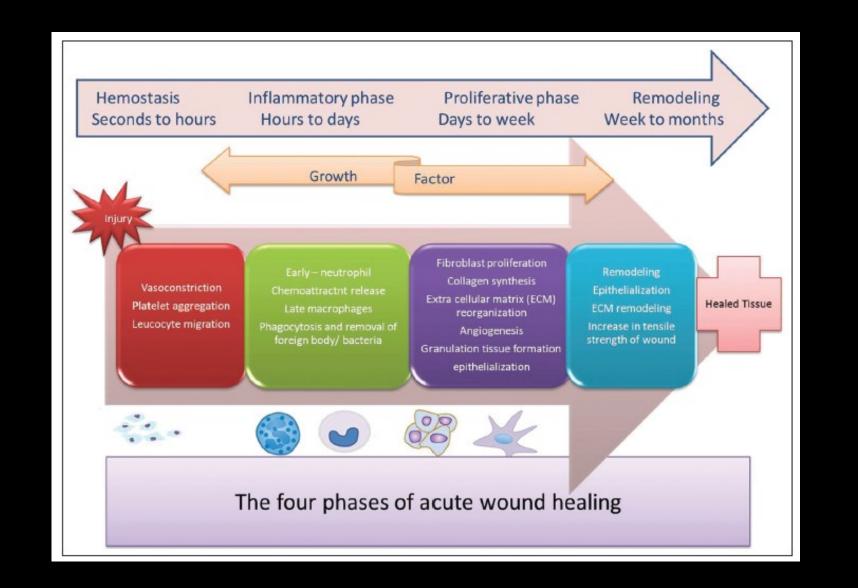
In the spirit of reconciliation, HotDoc acknowledges the Traditional Custodians of country throughout Australia and their connections to land, sea and community.

We pay our respect to their elders past and present and extend that respect to all Aboriginal and Torres Strait Islander peoples today.

In 45-60 minutes there is no way to cover all the complex aspects of wound management

Topics to be covered

- How wounds heal
- What can go wrong and why
- Products you should have
- Skin tears
- Ulceration lower legs
- And with any luck a few minutes for questions!!



Acute versus chronic

Researchers believe that the inflammatory phase of healing continues, uncontrolled and so the normal processes that should continue fail to engage and so failure to heal occurs.



Figure 1. Schematic representation of the physiologic factors contributing to a stalled wound.

H.E.I.D.I a mnemonic for holistic wound assessment

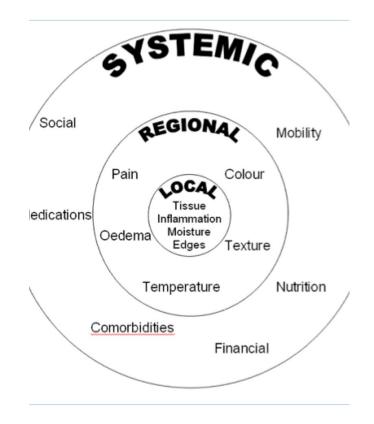
H- history, medical, surgical, pharmacological, social

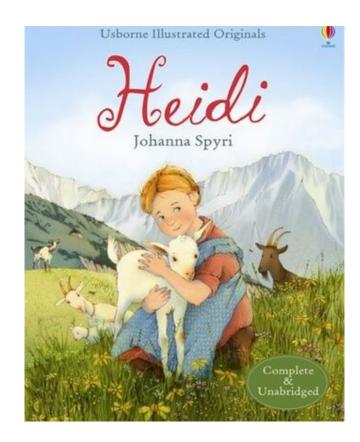
E- examination- total body and wound

I- investigations, to be attended and reviewed

Diagnosis-then follow an accepted pathway

I- intervention, plan of care





In my opinion 4 key factors in stalled wound healing

Infection

Nutritional status

Oedema

Lack of diagnosis

Pressure

There are many but I have just picked the top 4 in my opinion to at least start with

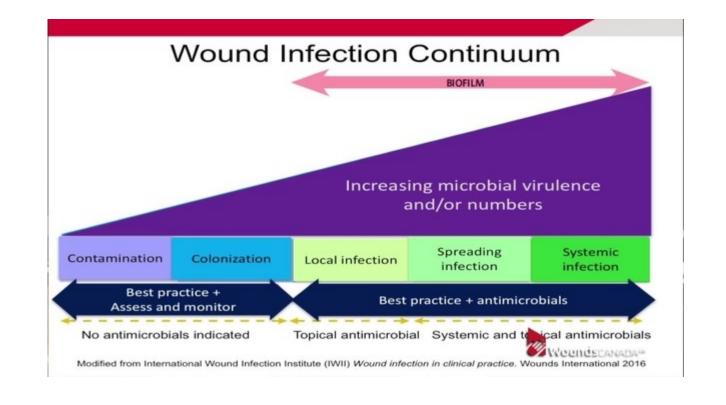
www.woundinfection-institute.com

INTERNATIONAL CONSENSUS UPDATE 2016



WOUND INFECTION IN CLINICAL PRACTICE

Principles of best practice



| Contamination ²⁶ Col | olonisation ²⁶ | Local infection | | Spreading infection ^{22, 23} | Systemic infection ^{22, 23} |
|--|---------------------------|--|--|---|--|
| acquire micro- organisms. If suitable nutritive and physical conditions are not available for each microbial species, or they are not able to successfully evade species speci | ecies | Covert (subtle) signs of local infection:2, 27-36 Hypergranulation (excessive 'vascular' tissue) Bleeding, friable granulation Epithelial bridging and pocketing in granulation tissue Wound breakdown and enlargement Delayed wound healing beyond expectations New or increasing pain Increasing malodour | Overt (classic) signs of local infection: ^{2, 27,} 28, 35, 36 Erythema Local warmth Swelling Purulent discharge Delayed wound healing beyond expectations New or increasing pain Increasing malodour | Extending in duration +/- erythema Lymphangitis Crepitus Wound breakdown/ dehiscence with or without satellite lesions Malaise/ lethargy or non-specific general deterioration Loss of appetite Inflammation, | Severe sepsis Septic shock Organ failure Death |

Antimicrobial dressings to consider.....

lodosorb -powder and paste/ointment

Inadine mesh

Flaminal -enzyme alginogel-forte and hydro

Silver wound products -Ag-Aquacel ag, Acticoat, SilverCel

Sorbact – antimicrobial binding dressing

Medicated Honey-some better than others –Berringa BioActive

Hypertonic salt – Mesalt

Sanomed-Melloxy or Sanoskin

Plurogel- surfactant gel

Antimicrobial cleansers to consider.....



Microdacyn SOS

Octenilin

Microshield PVP-lodine surgical handwash

Chlorhexidine skin cleansers-Avagard surgical scrub

Other agents/devices to help lift the slough and necrotic tissue

Scalpel

Stitch cutters can be useful

Curette

Forcep

Debrisoft pad

UCS cloth

Debridement pad -BBraun

New document to access & read

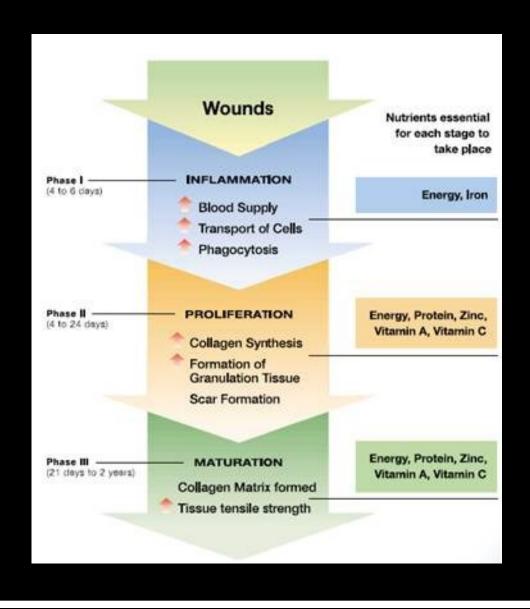
www.woundhygiene.com



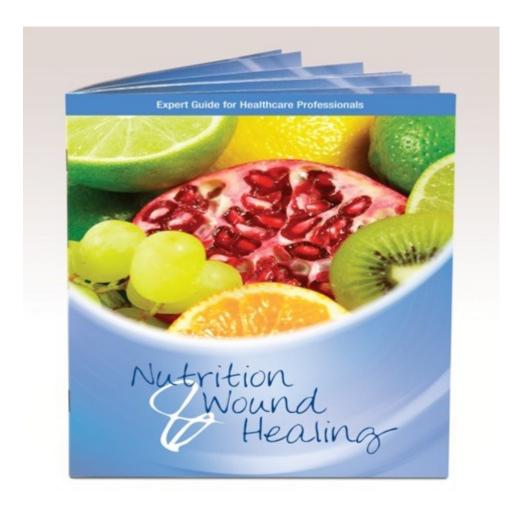


After considering infection in all its forms then I think about nutrition





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For your **free** copy contact 1800 671 628 and also ask for the recipes using Arginaid extra and ask for the **new** patient guide- Support wound healing from the inside out.

Mini-nutritional assessment scale-available from www.mna-elderly.com



Some supplements

TwoCal, Perative, Ensure Plus, all by Abbott 1800225311

Arginaid, Resource by Nestlé 1800 671 628

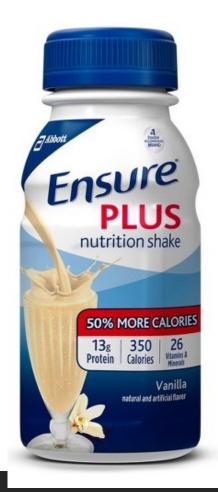
Enprocal - Precise 07 37185800

RESCURCE PROTEIN

RESCURCE PRO



Have bloods done to check levels of iron, and albumin





Made in Australia

Oedema/swelling –the curse of the rlinician





Cardiac

- · Acute heart failure
- Constrictive pericarditis
- · Restrictive cardiomyopathy

Venous

- · Venous insufficiency
- · Deep venous thrombosis

Renal

- · Nephrotic syndrome
- Renal failure/insufficiency (chronic or acute)

Pulmonary

- Pulmonary hypertension
- Sleep apnea

- · Early hepatic cirrhosis
- · Hepatic venous obstruction

- · Calcium channel blockers dihydropyridine
- · Hormonal medications (i.e., estrogen)
- NSAIDs
- · MAO inhibitors

Other

- Hypoproteinemia
- Lymphedema
- Myxedema
- Pregnancy
- · Premenstrual symptoms
- Drugs
- Malnutrition
- Burns
- · Allergic reactions, anaphylaxis
- Trauma
- · Inflammation/sepsis



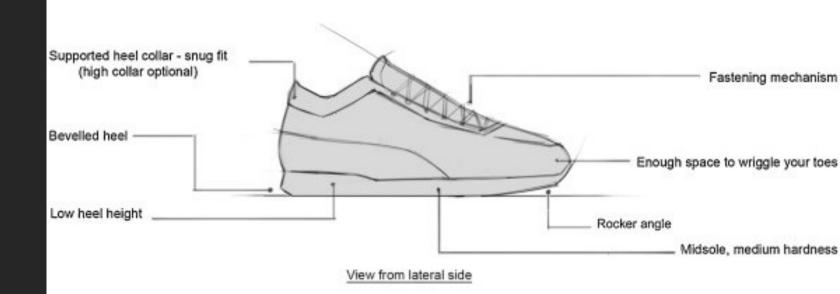
Pressure injuries are not commonly seen in primary care but

The correct shoe for the elderly

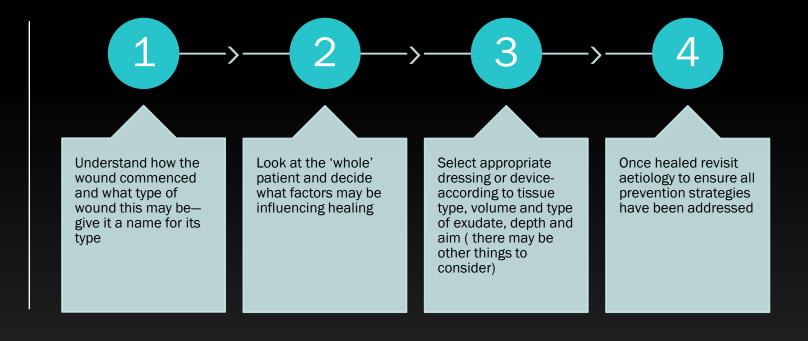




Insole top view



The overarching principles in wound management are:



Products by pharmacology

Impregnated mesh -plain and antimicrobial

Superabsorbent pads

Polyurethane film wipes &dressings

Polyurethane foam and foam like products

Hydrocolloid products

Acrylic absorbent products

Hydrogel products

Calcium Alginate products



The many more...

HydroFiber products

Cadexomer iodine

Silver products

Hypertonic and isotonic dressings

Enzyme alginogel

Microbial binding dressing

Names are there for marketing and as a clinical you have to work your way around these

E.g-Hydro-cellular, hydro-active, hydro-responsive

Products by function

Wound protection products

Wound re-hydration/donation products

Moisture retention products

Exudate management products

Wound debridement products

Antimicrobials

Skin care/protection products

Cleansers/surfactants

You could begin with a blank matrix-Aim

| Product group | Moisture manage | Moisture donate | Moisture retention | Protection | Debridement | Antimicrobial |
|----------------------|--------------------|--------------------|--------------------|-------------------------|------------------------------|---------------|
| Impregnated gauze | X | X | X | $\overline{\checkmark}$ | X | X |
| Film | X | X | \checkmark | \checkmark | X | X |
| Foam | \checkmark | X | X | $\overline{\checkmark}$ | X | ☑ Ag |
| Hydrocolloid | X | X | \checkmark | ☑ possibly | ☑ Watch for maceration | X |
| Hydrogel | X | | X | ☑ possibly | $\overline{\checkmark}$ | ☑ some |
| Calcium Alginate | ☑ Bleeding | X | X | X | X | X |
| HydroFiber | \checkmark | X | \checkmark | X | $\overline{\checkmark}$ | ☑ Ag |
| | | | | | | |

Or you could develop a matrix based on **tissue types**

| | Impregnated mesh | Absorbent pads | Films | Foams | Hydrocolloids | Hydrogels |
|------------------|---------------------|----------------|-------------------------|-------------------------|-----------------|---------------|
| Epithelium | \checkmark | | $\overline{\checkmark}$ | $\overline{\checkmark}$ | \square | \checkmark |
| Granulation | \checkmark | X | X | \checkmark | ✓ *maceration | ✓ *maceration |
| Hypergranulation | X | X | X | X | X | X |
| Slough | X | X | X | X | | \checkmark |
| Eschar | X | X | ✓ *macera tion | X | ✓ *maceration | V |

Or you list the formulary you have in your facility and the various uses

| Product type | Function | Wound type | Change |
|--------------------|----------------------|--|---|
| Impregnated meshes | Protect tissue | Healed wounds or very superficial wounds | Change second to third daily |
| Absorbent pads | Absorbency | Secondary dressing | |
| Films | Protect, waterproof, | Very superficial wounds or peri wound edge | Weekly or 3 rd daily |
| Foams | Absorbency | Granulation tissue, or as secondary absorbent dressing | 3 rd -4 th daily |
| Hydrocolloids | Moisture retention | Low exuding sloughy wounds, pink wounds | 3 rd - 5 th daily |

Complete holistic health assessment. Inspect surrounding skin. Categorise using STAR classification. Draw arrow on top of dressing indicating skin flap direction

If skin or flap colour is pale, dusky or darkened reassess in 24-48 hours or at the first dressing change. Remove dressing in direction of arrow.

A simple tear ... but a complex wound

Skin tears affect our most vulnerable - the very old and the very young. They can lead to chronic ulcers and may require a skin graft. Wound care consultant ELIZABETH MILNER* revisits her presentation to this year's Wound Care Society conference on a STAR approach to skin tears.

pecially in New Zealand's gaeing population.

The limited research undertaker in New Zealand suggests there are inconsistencies in the use of prevention strategies in communit and hospital settings.

As nurses, it is our responsibility to ensure we assess our clients/ residents for the potential risk of o minimise these risks, and if an injury does occur, then act prompt o assess and manage the skin tear appropriately. If the correct management of these skin tears is potential for these wound types to secome chronic and non-healing. An international consensus pane

defined skin tears as: A wound caused by shear n separation of skin layers. A skin tear can be partial thickness eparation of the epidermis rom the dermis) or full thickness (separation of both the epidermis and dermis from underlying tructures). (LeBlanc and Baranoski

Relevance to the

New Zealand population The overall prevalence of skin tears in New Zealand is unknown However, ACC 2011 data reports that 63 per cent of ACC nursing services claims were classified a open wounds. More than 40 per over 75 years and 8 per cent for people aged between 60 to 74

In comparison the Australian data shows that skin tears account or nearly 55 per cent of all wound types in the elderly and in the US, there is an estimated incidence level of 0.92 - 2.5 per patients per year accounting for approximately 1.5 million skin tears a year in adults in ealth care or aged care facilities.

These statistics suggest that the evalence of skin tears in

the incident rate of this wound type to grow exponentially.

This claim is supported through fellow Meg Butler, published in the New Zealand Medical Journal in 2004, where she looked at the prevalence of falls in New Zealand gaed care facilities. From her data it was shown that of the 954 fall reported over an 18-month period of quarter (228) resulted in a skin tear.

Risk factors

Skin tears are associated with falls, blunt trauma, handling, and equipment injuries. A number of risk factors have been reported

- activities of daily living (highest
- » Hospital beds are the most common causes of traumatic induced skin tear followed by the wheelchair (PA-PSRS Patie Safety, 2006)
- Intravenous catheters are the most likely of all drains and tubes to cause a skin tear (Baranoski, 2003)
- Radiography procedures w the highest risk procedure positioning patients (PA-PSRS Patient Safety 2006)
- Independent ambulatory patient (2nd highest incidence)
- » Vision impaired patients (3rd highest incidence)
- » Sensory changes/loss e.g. hearing, sensation, vision
- Immature skin (premature infants
- » Ageing females steroids - systemic or topical, anticoggulants, polypharmacy
- History of previous skin tears Dry, fragile skin/ecchymoses (bruising/discolouration of the skin caused by leakage of blood into the subcutaneous tissue as a result of trauma to the underlying
- w Poor nutrition and hydration » Cognitive or sensory impairment

- tears are a common wound our ageing population we can expect » Co-morbidities that compromise vascularity and skin status, including chronic heart disease renal failure, cerebral vascular accident, diabetes, immunocompromised, hypoalbuminsm hypothyroidism, or ureamia

 - poor balance/poor locomotion » Presence of friction shearing or
 - w Incorrect removal of adhesive dressings.

Skin tears can occur on any part of the body. In the elderly, they are often sustained on the legs mobile, arms if immobile, as well as the dorsal (back) of the hands.

Skin tears in neonates with immature skin tend to be associated with the use of adhesives or device trauma and often occur on the head face and

he correct diagnosis and grading of a skin tear is vital to aid clinical management decisions.

use of a validated assessment tool is recommended. In New Zealand and Australia, the STAR (Skin Tear Audit Research) classification vstern - developed by Professor Kerlyn Carville's team in Western Australia - appears to be the system of choice. The use of a tool ensures that clinicians are using the same terminology to describ the degree of skin damage and this in turn will inform others to the correct degree of skin damage/lo

(see classification sidebar). Points to remember:

- » Leave a space between each steri-strip to allow exudate to drain and to accommodate t swelling as part of the normal
- Gently lay the steri-strips onto the periwound and then over onto the fragile flap; do not stretch the steri-strip, this could cause additional trauma and

A skin tear where the edges can be realigned to the ormal anatomica

position (without undue stretching and the skin or flan colour is not pale, dusky, or darkened.

Category 1b A skin tear where the

daes can be aligned to the position (without undue stretching) and the skin or flap colour is pale. dusky, or darkened.

edges cannot be realigned to the position and the skin or flap colou



Category 2b

A skin tear where the lianed to the

is pale, dusky, or darkened.

is not pale, dusky, or darkened.



A skin tear where the skin flap is completely

Skin Tear Audit Research (STAR). Silver Chain Group Limited, Curtin University. Revised 4 February 2010. Reprinted August 2012.

The STAR tool was developed as a result of the Skin Tear Audit Research (STAR) Project, which was undertaken by Silver Chain Nursing Association and Curtin University of Technology in Western Australia.

Skin tear classification systems

STAR TOOL

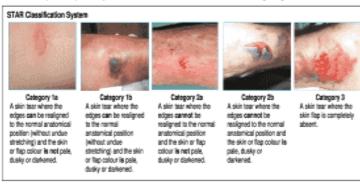


STAR Skin Tear Classification System



STAR Skin Tear Classification System Guidelines

- Control bleeding and dean the wound according to protocol.
- Realign (If possible) any skin or flap.
- 3. Assess degree of tissue loss and skin or flag colour using the STAR Classification System.
- 4. Assess the surrounding skin condition for fragility, swelling, discolouration or bruising.
- Assess the person, their wound and their healing environment as per protocol.
- If skin or flap colour is pale, dusky or darkened reassess in 24.48 hours or at the first dressing change.



Six Fair Aud Report (STAR), Six Only Resig Associate and School (Notice and Markey Duth University of Technology, Resign 400011)

ISTAP TOOL

ISTAP Skin Tear Classification





Linear or Flap Tear which can be repositioned to cover the wound bed

Partial Flap loss which cannot be repositioned entire wound bed to cover the wound bed

Total Flap loss exposing



More information on both these classification systems is available on the web using these

Skin tear – 1a



Steri strips -yes or no??????

In reality in aged care evidence indicates they are NOT a good idea—suggested that you use an impregnated mesh to anchor and protect flap

Skin tear 1b

Again the impregnated mesh will aid flap adhesion



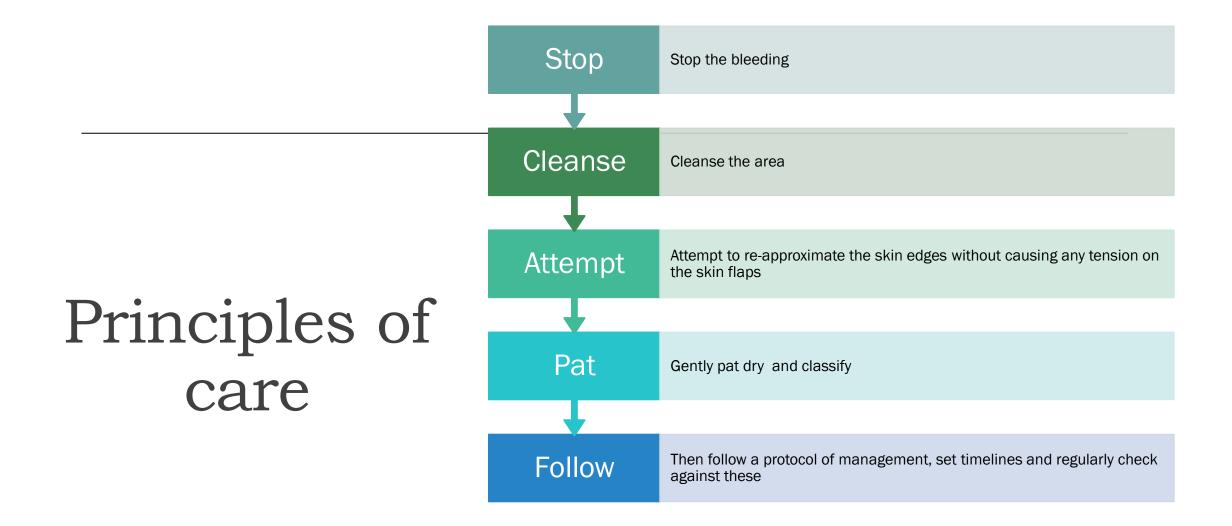






Skin tear- 3

10/18/2020



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Category 1--- approximately 1-2 weeks

Timelines for skin tear

Category 3---- one month

35

healing

18/10/2020

Category 2----

So what can go wrong with the healing of a skin tear

Further bleeding

Too much exudate and hence the area is too moist

Infection

Wound is too slow to heal and so changes morphologically into a skin cancer

Due to some other underlying disease the skin tear now converts into a venous or arterial leg ulcer or maybe even a vasculitic ulcer

18/10/2020

My experience

Steristrips are ok for Category 1 if everyone follows the plan of not removing unnecessarily, but you will probably be using a mesh

Category 2 and 3 however require either an impregnated mesh and/or foam

Meshes - Urgotul, Silnet, Adaptic Touch, Hydrotul,

Foams- Aquacel Foam, Biatain silicone

And if infection is an issue then lodosorb powder or Flaminal Forte will be your choice

Directional arrow on top dressing so everyone knows which way to remove the dressing

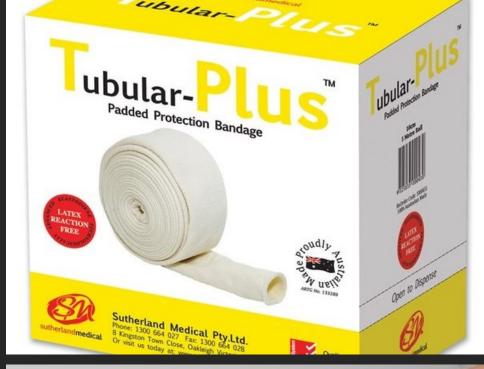


Supporting the limb

When possible consideration for padding and supporting the affected limb needs to be given

This will help reduce oedema and provide comfort

The cost of the extra products is not wasted as these can continue to be used when the wound is healed to provide ongoing protection until the wound is fully mature





Products used to manage skin tears

















Risk factors and the elderly

Intrinsic risk factors

- Gender—female
- Race—white
- Dehydration, poor nutrition
- Cognitive impairment aggressive behavior
- Altered mobility/balance unsteady gait, falls
- Sensory impairment
- Aging skin—dry, thin, fragile
- History of skin tears
- Disease processes—presence of edema

Extrinsic risk factors

- Assistance needed with activities of daily living
- Dependence/assistance needed for transfer
- Dependence on assistive devices
- Dependence on prosthetic devices
- Dry skin
- Long-term corticosteroid use (oral or topical)
- Other factors: blood draws, dressing changes, tape, improper use of skin sealants

Combination factors—When aging skin is combined with extrinsic factors, the risk of skin tears increases

- Aging skin is drier, thinner, and more fragile because of decreased sebum and sweat gland function, decreases in collagen and vascularity, and decreases in inflammatory and immune responses. It's more susceptible to friction and shearing.
- Avoid factors that increase drying of the skin; for example:
 - soaps that aren't pH neutral (can disrupt the skin's acid mantle and reduce natural lubrication)
 - frequent bathing
 - heat set at level that reduces skin moisture.

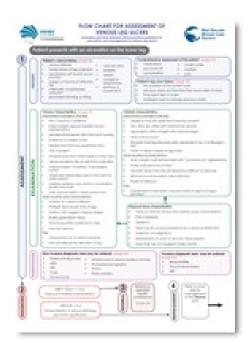


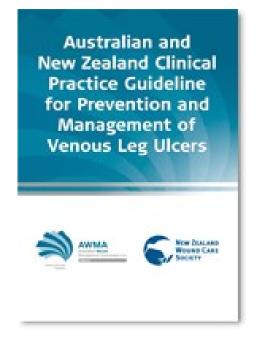
Prevention of skin tears

Ulceration to lower legs



www.woundsaustralia.com.au --- Download







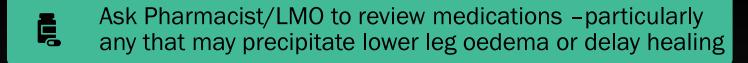
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Getting the aetiology right







- Palpate foot and leg pulses if able
- Note the site, size & characteristics of the ulceration
- Enquire about previous treatments or any history of past ulcerations

Perform some laboratory tests

Baseline blood levels

Serum albumin

Serum glucose

ESR +/- CRP and other inflammatory markers

ABPI (ankle brachial pressure index)

Duplex scan

Biopsy –for histopathology and micro pathology

Statistics

Venous

70%

Arterial

10%

Mixed

10%

Skin cancers

2%

Others

8%



Venous ulcer characteristics

Presence of firm 'brawny' oedema

Leg takes on an inverted "champagne" bottle shape

Ulcer has irregular edges/shape

Ulcer begins on medial or lateral aspect lower third of lower leg

Ulcer is wet, shallow with minimal necrotic tissue

There may be atrophie blanche

There may be venous eczema, staining and lipodermatosclerosis(LPD)

Pulses are palpable, there is generally minimal pain especially when the leg is elevated







Visible evidence of venous hypertension





Lower gaiter region, medial or lateral

Arterial ulcer characteristics

Usually located between ankles and toes or high up on leg or posterior leg

Deep, punched out regular shape, often dry

Thin, shiny, non hair bearing skin

Thickened toenails

Diminished or absent foot pulses

Elevation pallor, dependant rubor-(+ve Buergers test)

Necrotic tissue, infection

Pain, especially at night or when elevated

Arterial- deep, site of trauma, well defined edges, higher up on leg or posterior leg







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Treatment of arterial ulcers

Usually require antimicrobial coverage while waiting for Vascular surgeon

If necrotic and aiming to heal, **may** require debriding agent

If no possibility of healing then inert dressings—keep area dry and free of infection if possible—topical antimicrobials=e.g.

Betadine lotion

Standard venous leg ulcer treatment

Zinc paste bandages

Undercast padding or similar

Tubifast[™] or retention bandages

Compression therapy –as tolerated by patient

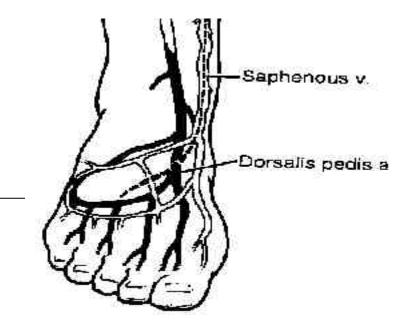
Leave insitu for one week if possible

Aim to heal within 3-4 months, if not achieving good healing re-assess aetiology and factors influencing healing

General advice

| Venous | Arterial | | |
|---|--|--|--|
| Regular ambulation | Prevent thermal trauma from heating or | | |
| Calf and foot muscle exercises | cooling appliances or sudden temperature changes | | |
| Elevation of foot of bed | Protect from pressure or restrictive clothing | | |
| Elevate feet when sitting, above level of hip | Regular podiatry care | | |
| | Sit with legs in neutral or dependent position | | |
| Compression: bandages, | Elevate head of bed | | |
| stockings, sequential pumping | Wear natural fibre clothing (absorbs | | |
| Avoid constipation | perspiration) | | |
| Medication review | | | |

Feel for the pulses



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Straight elasticated tubular bandages

Tubigrip Size Guide

| . abig. ip oile carac | | | | | | | |
|-----------------------|---------------|--------|--------|--------|--------|--------|--|
| CORRECT SIZE | WRIST | ELBOW | ANKLE | KNEE | THIGH | TORSO | |
| A 10-12cm | CHILD LIMB | | | | | | |
| B 12.5-14.5cm | SMALL | SMALL | | | | | |
| C 15-24cm | MEDIUM | MEDIUM | SMALL | | | | |
| D 25-35cm | LARGE | LARGE | MEDIUM | SMALL | | | |
| E 36-44.5cm | | | LARGE | MEDIUM | SMALL | | |
| F 45-50cm | | | | LARGE | MEDIUM | | |
| G 51-60cm | | | | | LARGE | | |
| J small torso | | | | | | SMALL | |
| K medium torso | | | | | | MEDIUM | |
| L large torso | | | | | | LARGE | |



6mmHg pressure at ankle

• Sub-bandage pressure difference of tubular form and short-stretch compression bandages: in-vivo randomised controlled trial Weller CD, Jolley D & McNeil J



LAYER 3

Multi-layered compression bandages

These deliver continuous sustained pressure over the week that they remains insitu.





These bandages are very well tolerated

Evidence

Multilayer bandages are more effective than one layer

Elastic bandages have high working pressure and high resting pressure so often not tolerated by the end of the day and so patients cut them off

Inelastic bandages have a high working pressure and a low resting pressure and so often more tolerated-BUT may need constant reapplication

Bandages versus hosiery to help heal

- Bandages are often used to heal the ulcer due to the exudate and bulkiness of dressings and padding. When ulcer is healed, continue bandaging for a further one month to allow epithelium to mature then fit hosiery
- 2. If you go into hosiery too soon-because they are often elastic there is some give and thus oedema and so young skin may breakdown again

Thigh high or knee high

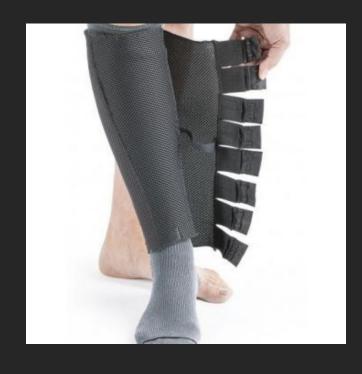


2nd problem---not being fitted correctly and not elevating!





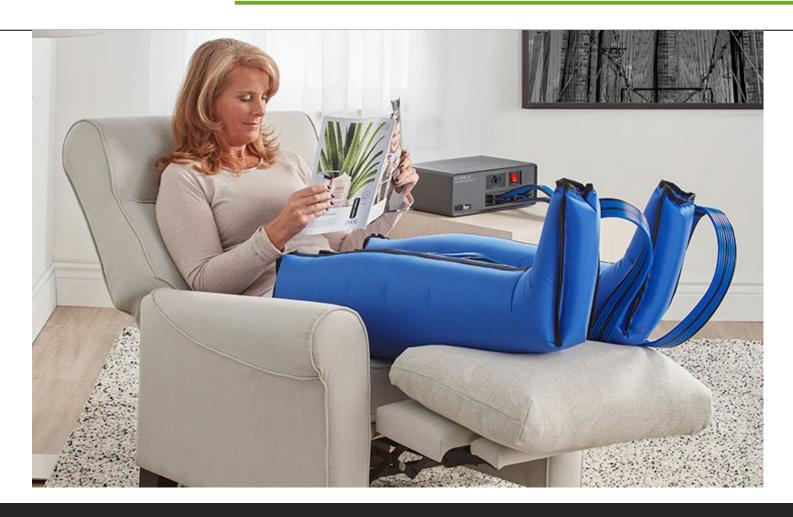




Self adjustable wraps

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Medirent-- www.medirent.com.au

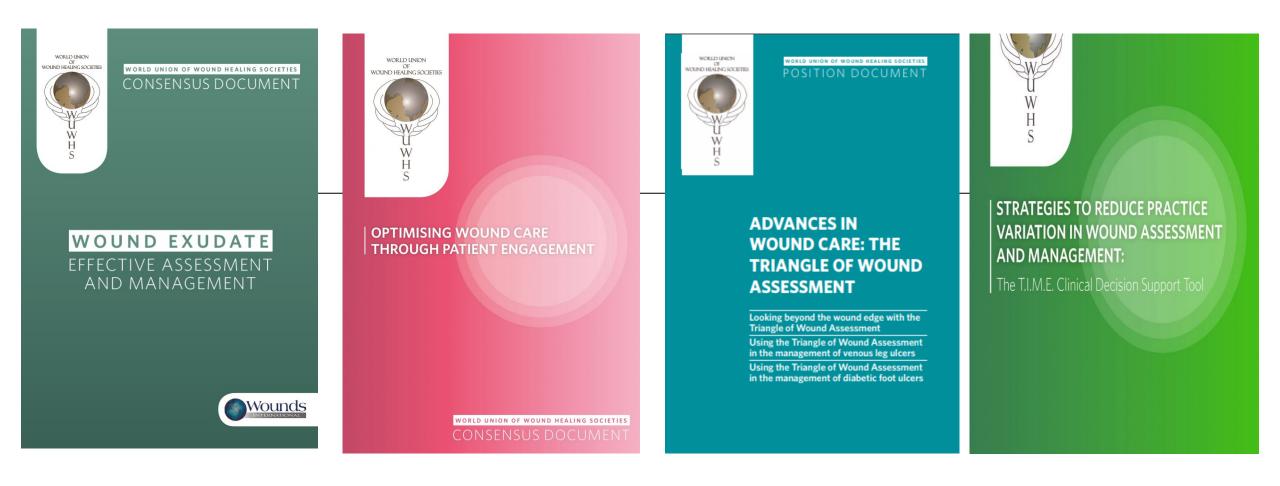


Foot wounds in General Practice

Most foot wounds require an antimicrobial, check sensation using a monofilament and check for PAD

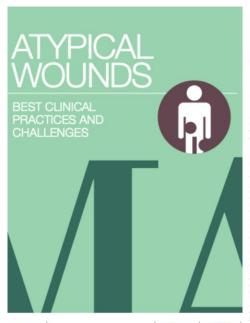
If the patient has diabetes the referral to a specific clinic managing foot wounds –such as www.iwgdf.com

Also a pathway and access to other high risk foot services/advice is available at www.savefeetsavelives.com

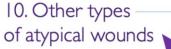


www.woundsinternational.com

www.ewma.org



JWC



n addition to the atypical wounds covered in other chapters, there are a number of atypical

wounds which challenge the clinician in

terms of recognition, diagnosis, management and

wounds associated with inflammatory, medication

treatment.7 In this chapter we describe atypical

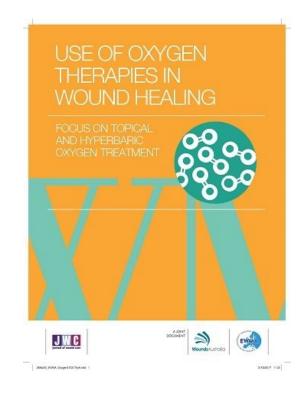


elated and infectious processes. Inflammatory wounds Ulcerative lichen planus

Lichen planus is an inflammatory skin disease. The classical forms of lichen planus (purple, pruritic, polygonal, and papules/plaques) are easily recognised, but there are subtypes that are more uncommon.7341 These subtypes include ulcerative lichen planus (ULP), which affects typically adult hyperkeratotic, bullous and scaly lesions on the plantar surface of the feet. Also mucosal involvement may occur241. Along with skin manifestations there can be absence of toe nails and scarring.242 Diagnosis is confirmed by biopsy, also direct mmunofluorescence specimen is recommended in order to exclude LP pemphigoids. Serologic testing for hepatitis is also recommended, as hepatitis C has been associated with ULP.7 Treatment results retinoids and cyclosporine and local therapy options include UVA-1, corticosteroids and tacrolimus, 7,281,26 In severe cases surgical excision and grafting can be onsidered.241 It is also important to know that this hronic inflammatory disease may predispose to SCC, and therefore serial biopsies are recommended on ulcers resistant to treatment.2241

Necrobiosis lipoidica is an inflammatory disorder of the subcutaneous tissue. Traditionally it has been linked with diabetes and approximately 50-80 % of patients with necrobiosis lipoidica have diabetes 244 However, it is important to keep in mind that not all of necrobiosis lipoidica patients have diabetes or will have it during follow-up.245 Necrobiosis lipoidica typically appear as yellowish-brown, shiny annular lesions in the pretibial region of the legs in young to middle-aged women. In approximately 35% of the cases, these lesions ulcerate²⁴⁴ (Fig 35) and the ulcers are in most cases hard-to-heal. Treatment options include topical, intralesional and systemic corticosteroids: tacrolimus, cyclosporine, hydroxychloroquine, clofazimine, phototherapy, pentoxifylline as well as biologic agents as etanercept and infliximab.3,344 In resistant cases skin grafting is an option. 344 Even if there is no evidence about







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Dr Jaspreet Saini GP & Practice Principal