



Holistic foot ulcer managem

Assessment of patients and their feet

1 Medical history

• Physical, physiological and psychosocial health

2 Feet inspection

- Callus, cracks
- Colour, erythema
- Temperature
- Dry skin
- Eczema
- Oedema of feet/lower legs
- Deformities e.g. Charcot foot (need for x-ray/MRI)
- Previous amputations
- Gangrene
- Inspecting nails and between the toes

3 Neuropathy

- Motor neuropathy (deformities)
- **Sensory neuropathy** (loss of sensation and vibration. Tests with 10g Monofilament or Ipswich Touch Test and tuning fork)
- Autonomic neuropathy (dry skin, cracking skin, callus)

Vascular status and oxygenation levels

- Palpation of peripheral pulses: femoral, popliteal and pedal (dorsalis pedis and posterior tibial) pulses
- Doppler assessment and ABPI
- Toe-brachial index (TBI)
- Potential referral to a specialist for a full vascular assessment
- \bullet Consider oxygen assessment e.g. with transcutaneous oximetry (TcPO $_{\rm 2}$

5 Wound and periwound

Infection

Local signs of infection can be: increased exudate, non-healing, malodour, friable or discoloured granulation tissue, redness, pain, heat and swelling. If osteomyelitis is suspected, or an active spreading infection, refer to a multidisciplinary footcare team immediately.

Wound bed, status/colour:

- Black necrotic tissue
- Yellow slough
- Red granulation tissue, pink epithelialisation

Dept

Exudate

- Amount (none, low, moderate, high)
- Consistency/colour
- Wound location
- Wound size (area/depth)
- Wound edge (raised edge, undermining/tracks/ sinuses)
- Surrounding skin (maceration/excoriation, erythema, oedema)
- Exposed bones, tendons, joint capsules or orthopaedic implants
- Pain (location, frequency, cause, type, intensity and duration)
- **Odour** (presence and nature)

6 Classification

e.g. Wlfl, University of Texas, Wagner, PEDIS or SINBAD



Goals of treatment, education and concordance with the patient

60-second Diabetic Foot Screen a Screening tool (2018).1

Management of DFU²

A patient with a diabetic foot ulcer (DFU) or at risk of developing a DFU needs to be referral to a multidisciplinary footcare team (MDFT). They can provide with e.g.

- Offloading wound and risk areas with specialist foot wear.
- Full vascular assessment.
- Oedema treatment.
- Infection control and treatment.
- Wound debridement/cleansing and treatment recommendation.
- Nutritional advice.
- Optimal diabetes control.

Remember:

- Assess and manage pain (local and systemic) before dressing changes.
- Be aware of the arterial blood supply. If dry black necrosis – keep dry and refer for a full vascular assessment.
- Moisturize lower extremities and feet daily. Do not put lotion between toes.
- Educate on self-treatment for healthy feet.

For complete and updated assessment and management guidance please visit International Working Group on the Diabetic Foot (IWGDF) www.iwgdfguidelines.org

Be aware of systemic infection symptoms:

- Fever
- Hypotension
- RigourChills
- Multi-organ failure

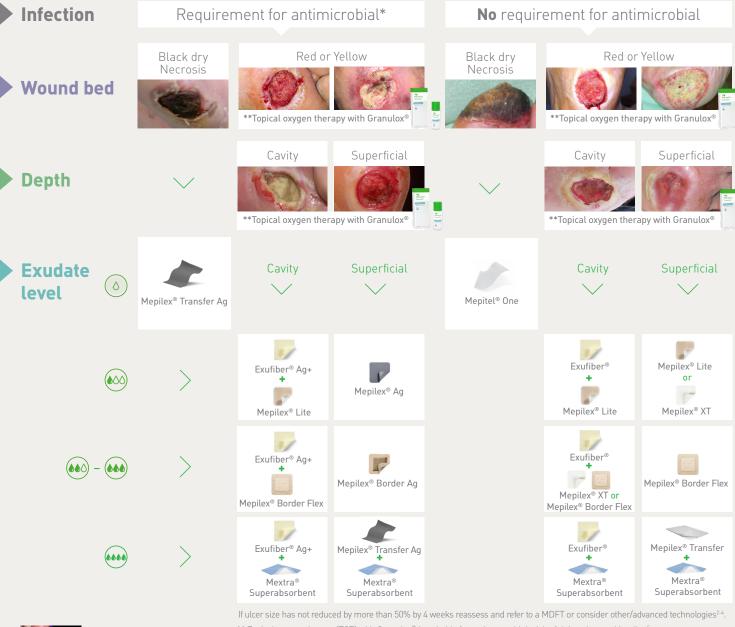
Read more at:

www.mdcalc.com/sirs-sepsis-septicshock-criteria

These recommendations are aligned with the International best practice guidelines: IWGDF practical guidelines on the prevention and management of diabetic foot disease, 2019.

ent in patients with diabetes

Mölnlycke® dressing selection guide



** Topical oxygen therapy (TOT) with Granulox® is suitable for patients at high risk of delayed wound healing⁵.



* For infected DFUs (see picture), aggressive debridement, topical antiseptics and systemic antibiotics are generally recommended. Active spreading infection must be referred as a matter of urgency to a MDFT. Topical antimicrobial agents, e.g. in cleansers or dressings, may be used in combination with antibiotics to treat mild infections. Such dressings or cleansers may also be used alone to treat DFUs which are highly at risk of developing infections.^{2,6}

- Optimal wound management with provision of local treatment need to be supported with appropriate management of systemic disease, pressure offloading and debridement. Remember that surgical debridement is contraindicated if ischaemia is present⁴
- Monitor at each dressing change and reassess regularly.
 Be sure that the dressing is compatible with shoes and other offloading therapies and can be accommodated without bulk and creasing
- If you need to cut the dressing, consider using nonbordered products
- For fixation, consider using Tubifast®
- If you need to dress a toe, consider using Mepitel® One or Mepilex® Lite for good conformability
- The choice of dressings must be based on local protocols and clinical judgement

Proven choice for a better outcome

Safetac® is the original less-pain contact layer with silicone adhesion. We designed it to mould softly to skin without sticking to the moist wound? – so you can remove it easily without damaging the skin8. That means less pain for your patients?.

Safetac also protects new tissue and intact skin – so wounds remain undisturbed to support faster natural healing $^{10-13}$. And it seals the wound margins to protect skin from damaging leaks and maceration 14,15 . This combination of less pain 9 and less skin damage $^{8,11-14,16}$ – to support faster healing $^{10-13}$ – can also reduce the cost of treatment 11,12,16 .

You can trust Mölnlycke® dressings with Safetac, for better patient and economic outcomes.





Skin stripping occurs with traditional adhesive⁸



No skin stripping occurs with Safetac technology⁸

Dressing information

Mepitel® One

SafetaC

- For dry to highly exuding wounds Highly transparent for quick and

easy wound inspection

- depending on the wound condition

Mepilex® XT Mepilex® Ag



- Ag) and without silver (Mepilex XT) • For low to moderately exuding wounds, designed to maintain a moist wound environment
- Soft and conformable foam dressing
- Can easily be cut to size
- Mepilex XT can handle both low and high viscosity fluid18

• Can remain in place for up to 14 days

 Minimises skin damage and pain at dressing changes^{10,1}

• Mepilex Ag kills wound-related pathogens within 30 minutes; and carries on doing so for up to 7 days

 Minimise skin damage and pain at dressing changes9

Exufiber®



- Transforms into a gel that provide a moist wound environment²⁷
- High tensile strength to enable dressing removal in one piece28 Absorbs and retains exudate, blood
- Soft and conformable which make it easy to apply2

Mextra® Superabsorbent



- Superabsorbent dressing with fluidrepellent backing
 • For highly exuding wounds
- Superabsorbent particles for high absorption and retention⁴³
- Soft and conformable
- Fluid repellent backing layer protects against fluid strike-through

Exufiber® Ag+



- Gelling fibre dressing containing
- Transforms into a gel and softly
- conforms to the wound bed^{29,30}
 For moderately to highly exuding wounds
 The Hydrolock® Technology absorbs
- and locks in exudate, blood and bacteria. The high structural integrity enables one-piece dressing removal
- Silver kills a broad range of pathogens (in vitro) and reduce biofilm, the antimicrobial effect is kept for up to seven days (in vivo)37
- Can easily be cut and used in cavities

Mepilex® Lite

SafetaC



- Light foam dressing with soft silicone wound contact layer
- For non to low-exuding wounds; designed to maintain a moist wound
- Thin, soft, and highly conformable
- Can easily be cut to size
- Minimises pain and damage at dressing change

Mepilex® Border Flex





- All-in-one bordered foam dressing
- For moderately to highly exuding wounds; designed to maintain a moist wound environment
- Enables 360 degree stretch to enhance stay-on-ability and conformability²⁰⁻²³
- · Contains superabsorbent fibres for
- high absorption and retention²⁴ • Minimise skin damage and pain at dressing changes9,2

Mepilex® Border Ag



- All-in-one bordered foam dressing
- For moderately to highly exuding wounds; designed to maintain a moist wound environment
- Combines excellent exudate management properties with antimicrobial action^{25,26}
- Minimise skin damage and pain at dressing changes9

Mepilex® Transfer Mepilex® Transfer Ag

SafetaC





- Exudate transfer dressings with (Mepilex Transfer Ag) and without silver (Mepilex Transfer)
- Effectively transfer exudate to a secondary layer⁴⁰
 • Very thin and conformable foam for
- difficult-to-dress locations
- Can easily be cut to size
- Mepilex Transfer Ag inactivates a broad range of microorganisms
- (in vitro studies)⁴¹
 Mepilex Transfer Ag combines a rapid antimicrobial effect within 30 min and a sustained effect up to 14 days
- Minimise skin damage and pain at dressing changes9,4

Tubifast®



- Tubular retention bandage
- Holds dressings securely, without constriction or compression
- A variety of lengths are available
- Available in a range of quick reference, colour-coded sizes to fit everything from small limbs to adult trunks

Granulox®



- Topical haemoglobin-based spray
- The haemoglobin spray acts by facilitating the diffusion of oxygen from the atmosphere into the wound bed
- Time to heal diabetic foot ulcers 50% shorter than with standard of care44
- Granulox® is easy to handle and to apply

Please note: This guide is not comprehensive and the reader should always refer to local guidelines.

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References: 1, INLOW s60-econd Diabetic Foot Screen, Screening tool. Canadian Association of Wound Feating Societies (WWHSE). Forence Concurrent, Local Management of Diabetic Foot Ulcers: No Wound Feating Societies (WWHSE). Forence Concurrent, Local Management of Diabetic Foot Ulcers: No Wound Feating Societies (WWHSE). Forence Concurrent, Local Management of Diabetic Foot Ulcers: No Wound Feating Societies (WWHSE). Forence Concurrent, Local Management of Local Management of Concurrent (Local Management of Local Management). A challed at a http://www.woundsinternational.com/ Accessed 8 November 2018. 3. Fysherg, R.G., Banks, J. Chaldrenges in the treatment of chronic wounds. Adv Wound Care [New Rochelle] 2015;4:560-82. 4. Ousey, K., Chadwick, P., Jawken, A., et al. Identifying and treating foot ulcers in patients with diabetes: saving feet, legs and lives. J Wound Care 2018;27 (Suppl 5):15-15.

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