# TIME TO OPTIMISE WOUND MANAGEMENT

# **STEPS TO AVOIDING AMPUTATION**

# **DUICK** GUIDE

The TIME<sup>4</sup> framework can be used to apply wound bed preparation to practice and addresses the different pathophysiological underlying abnormalities:

#### TISSUE MANAGEMENT

Debride the ulcer (usually sharp, but also larval, hydrosurgical and autolytic) Remove necrotic/sloughy tissue and callus, as appropriate Visualise underlying tissue, reduce pressure and stimulate healing Repeat if necessary for ongoing maintenance

#### INFLAMMATION/INFECTION CONTROL

#### Classify infected DFUs as mild, moderate or severe

Direct antibiotic therapy based on chronicity and previous exposure to antimicrobial therapy

For severe infections, start patients quickly on broad-spectrum antibiotics, pending culture results (see IDSA guidelines — www.idsociety.org)

Do not use antibiotics as a preventative measure in the absence of clinical signs of infection

Use topical antimicrobial agents with antibiotics in wounds diagnosed as infected OR in isolation when there is a clinical suspicion that the wound has increased bioburden (eg stalled, discoloured granulation tissue and/or increased exudate)

#### MOISTURF BALANCE

#### Assess the wound thoroughly

Select wound dressing according to tissue type and to optimise exudate management Use dressings designed to create a moist wound environment to support progression towards wound healing

Reassess regularly, as the status of the diabetic foot can change very quickly, especially if infection has not been appropriately addressed

#### EPITHELIAL EDGE ADVANCEMENT

Monitor for indications the wound is in a healing trajectory

Review and reassess patient and wound management if epithelial advancement fails Aim to achieve optimisation of tissue management, infection, moisture control, disease management, offloading and adherence



- 1. Implement DFU prevention care plan and involve the multidisciplinary team
- 2. Perform annual general foot examination 3. Review regularly and provide patient education

A Diagnosis of diabetes

#### **B.** Development of diabetic foot ulcer Aim: Treat the ulcer and prevent infection

#### 1 Determine cause of ulcer

- 2. Agree treatment aims and implement care plan:
- Initiate antibiotic treatment if infection suspected; consider topical antimicrobial therapy
- Review offloading device; ensure footwear accommodates dressing
- Optimise glycaemic control for diabetes management
- Refer to vascular services if limb ischaemia is suspected
- Educate patient on how to self-manage and when to raise concerns

#### **C.** Development of vascular disease Aim: Prevent complications associated with ischaemia

- 1. Refer to vascular specialist for revascularisation to improve blood flow in patients with ischaemic/neuroischaemic ulcer
- 2. Offer all patients with identified peripheral arterial disease best medical therapy for cardiovascular risk
- 3 Optimise diabetes control

### **D.** Ulcer becomes infected

#### Aim: Prevent life- or limb-threatening complications

- 1. For mild infections: treat with systemic antibiotics and consider topical antimicrobials as adjunctive therapy
- 2. For moderate or severe infections: treat with appropriately selected empiric antibiotics. Modify using the culture results and sensitivity reports
- 3. Offload pressure and optimise glycaemic control
- 4. Consider therapy directed at biofilm in wounds slow to heal or not progressing in a timely way

#### WHERE AMPUTATION IS UNAVOIDABLE

- 1. Implement skin and wound care plan to manage surgical wound and optimise healing
- 2. Review regularly and implement prevention care plan to reduce risk of recurrence or further DFU on contralateral limb

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Adapted from International Best Practice Guidelines<sup>5</sup>

# **DIABETIC FOOT ULCER WOUND MANAGEMENT**

debride





## **OPTIMISING DFU WOUND MANAGEMENT**

