

Inpatient management of acute diabetes-related foot disease - Full Clinical Guideline

Reference no.: CG-DIAB/1588/23

1. Introduction

To provide guidance for the treatment of inpatients with acute diabetes-related foot disease in line with NICE [NG19] & the International Working Group on the Diabetic Foot (IWGDF) guideline (1,2).

2. Aim and Purpose

The aim of this guideline is to ensure the prompt identification and treatment acute diabetesrelated foot disease in inpatients with diabetes.

3. Definitions, Keywords

Acute diabetes-related foot disease:

- Newly developed foot ulcer.
- Presence of infection
 - o the presence of at least 2 of the following: local swelling or induration, erythema, local tenderness or pain, local warmth, or purulent discharge
- Presence of inflammation.
- Swelling or new foot deformity.
- Acute pain in the absence of trauma.

Active Charcot neuro-osteoarthropathy: The presence of a red, warm, swollen foot with osseous abnormalities on imaging in a person with diabetes mellitus and neuropathy.

Multidisciplinary foot care team: consists of healthcare professionals (normally including diabetologists & surgeons) with the specialist skills and competencies necessary to deliver inpatient care for patients with diabetic foot problems.

Gangrene: A condition that occurs when body tissue dies, due to insufficient blood supply, infection or injury. Without infection this generally results in dry and black tissue, frequently called dry gangrene; when the tissue is infected, with accompanying putrefaction and surround cellulitis, it is often called wet gangrene.

Necrosis: Devitalized (dead) tissue.

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4. Acute management

- Within 24 hours of the patient being admitted or a foot problem being detected the patient should be referred to the Diabetes Team.
- If the acute diabetes-related foot disease is the dominant clinical problem then the multidisciplinary foot care team will expect the patients care to be transferred to

Initial Examination and Assessment

Within first 4 hours of admission

** Remove the patients' shoes socks and any dressings. **

- Both feet should be examined for pulses and sensation.
- Record the size and depth of any ulcer.
- Assess the foot and the patient for signs and symptoms of infection.
- If there are signs of infection antibiotics should be given promptly in line with local microbiology guidelines based on the severity of the infection.

4-24hours

- Where infection is suspected then appropriate microbiology tissue sampling (preferably a fine needle aspirate) should be performed.
- If there is unexplained new deformity, swelling, redness or warmth of the foot then active Charcot neuro-osteoarthropathy must be considered. The patient should be made non-weight bearing until reviewed by the Multidisciplinary foot care team.
- Xray should be considered if osteomyelitis or active Charcot neuro-osteoarthropathy is suspected.
- If acute limb ischaemia is present (e.g. onset of gangrene or necrosis or rest pain within the last 14 days) then refer urgently to the vascular team.
- The need for urgent surgery should be assessed by an experienced surgeon.
- Other aspects of diabetes, including glycaemic control, should be addressed.

Ongoing Management Ulcers:

- Debridement- should only be done by trained members of the multidisciplinary team.
- Wound Dressings- considering the wound and patient preference, dressings with the lowest acquisition cost should be used. A simple non-adherent dressing can be used in most circumstances.
- Pressure relief-strategies should be adopted.
- Infection should be managed inline with current antibiotic guidelines.
- If osteomyelitis is suspected but the X-Ray is normal then consider an MRI scan (but do not delay initiation of antibiotics.)

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5. References:

- Practical Guidelines 7 Guidelines Development and methodology IWGDF Guidelines on the prevention and management of diabetes-related foot disease IWGDF Guidelines [Internet]. Available from: www.iwgdfguidelines.org
- 2. Diabetic foot problems: prevention and management NICE guideline [Internet]. 2015. Available from: www.nice.org.uk/guidance/ng19

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6. Documentation Controls (these go at the end of the document but before any appendices)

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7. Appendices