

Diabetic Foot Infections

What elements in the history are *essential*?

Past history of occurrences to the foot (surgery, prior infections, PVD)

Failed outpatient therapy or MRSA activity

Systemic toxicity

What dangerous differentials should I not miss?

Osteomyelitis especially in ulcer that is chronic or overlies a bony prominence

Necrotising fasciitis

Critical limb ischaemia

What should I look out for on examination?

Infection	Clinical Manifestation
Mild	Presence of ≥ 2 manifestations of inflammation (purulence, or erythema, pain, tenderness, warmth, or induration), but any cellulitis/erythema extends ≤ 2 cm around the ulcer, and infection is limited to the skin or superficial subcutaneous tissues; no other local complications or systemic illness.
Mod	Infection (as above) in a patient who is systemically well and metabolically stable but which has ≥ 1 of the following characteristics: cellulitis extending > 2 cm, lymphangitic streaking, spread beneath the superficial fascia, deep-tissue abscess, gangrene, and involvement of muscle, tendon, joint or bone.
Severe	Infection in a patient with systemic toxicity or metabolic instability (eg, fever, chills, tachycardia, hypotension, confusion, vomiting, leukocytosis, acidosis, severe hyperglycemia, or azotemia).

Also look out for:

- Gangrene
- Vascular compromise
- Osteomyelitis more likely if:
 - Bone on view
 - Ulcer $> 2\text{cm}^2$
 - Duration of ulcer > 2 weeks

References :

1. Lipsky BA, et al. 2012 Infectious Diseases Society of America clinical practice guideline for the diagnosis and treatment of diabetic foot infections. *Clin Infect Dis* 2012
2. UptoDate 2012
3. CGH Antimicrobial Guidelines 2012

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What tests should I do?

First time patients presenting with a new infection/ulcer - Radiographs to look for bony abnormalities (deformity, destruction) or soft tissue gas or bodies.

What treatment should I institute?

Wound management - to absorb exudate and promote healing

Cultures are necessary for vast majority of patients prior to antibx Rx. Superficial swabs are generally unreliable.

This is from our hospital guide:

Antibx therapy:	1st Line	2nd Line
Non-limb threatening	IV augmentin 1.2g or PO augmentin 625mg TDS	PO clindamycin 450mg QDS <u>plus</u> PO ciprofloxacin 500mg BD
Life or limb threatening	IV piperacillin-tazobactam 4.5g <u>plus</u> IV vancomycin 15-20mg/kg	IV ciprofloxacin 400mg <u>plus</u> IV metronidazole 500mg <u>plus</u> IV vancomycin 15-20mg/kg

Can the patient go home if all tests are normal?

Mild infections only with caveats

- Sugar under control
- Good outpatient GP or OPS support for wound care and review
- Good family support

References :

1. Lipsky BA, et al. 2012 Infectious Diseases Society of America clinical practice guideline for the diagnosis and treatment of diabetic foot infections. *Clin Infect Dis* 2012
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