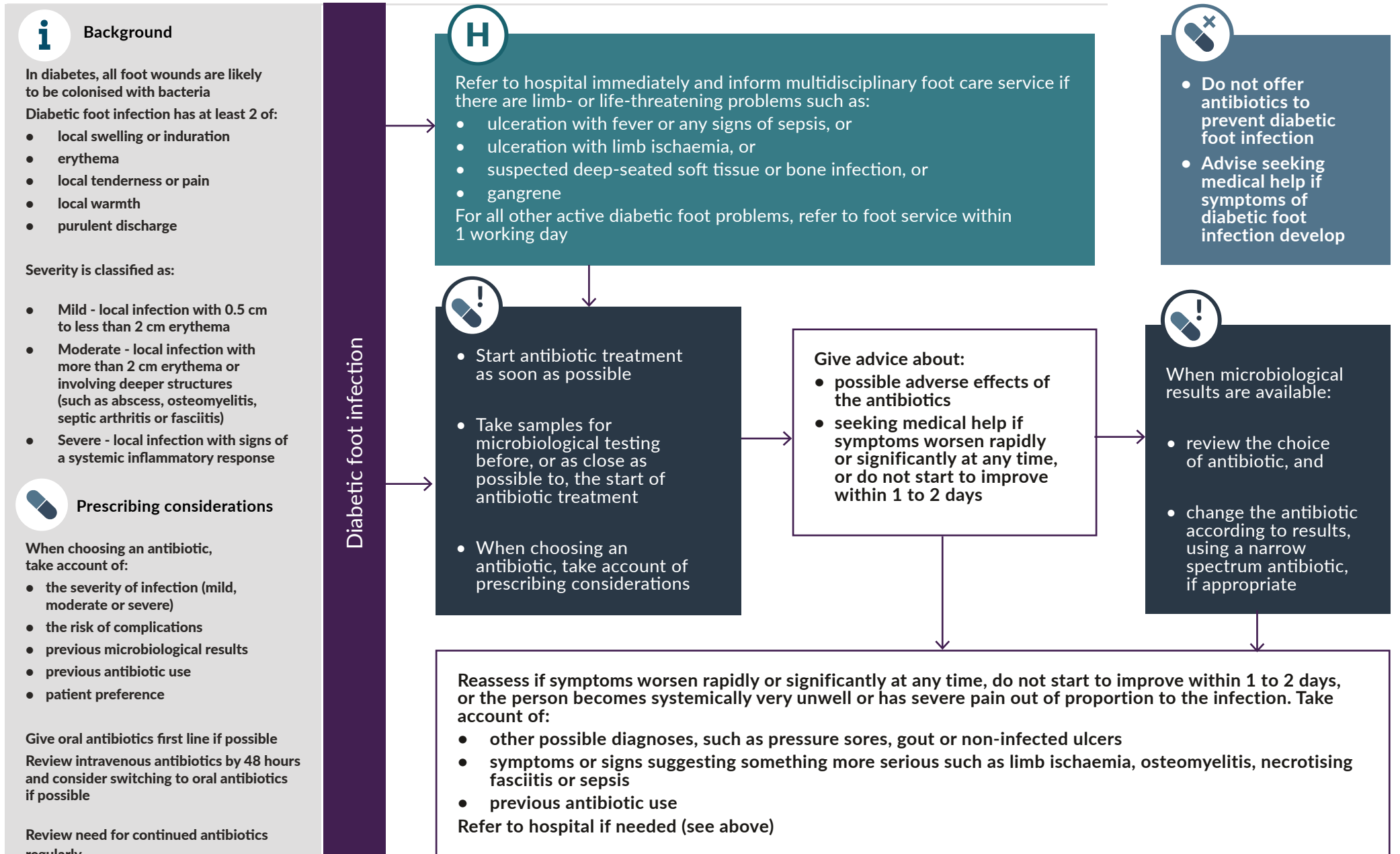


Diabetic foot infection: antimicrobial prescribing



Diabetic foot infection: antimicrobial prescribing

Mild infection: choice of antibiotic for adults aged 18 years and over

Antibiotic ¹	Dosage and course length
First choice oral antibiotic	
Flucloxacillin	500 mg to 1 g four times a day for 7 days ^{2,3}
Alternative oral antibiotics for penicillin allergy or if flucloxacillin is unsuitable (for people who are not pregnant; guided by microbiological results when available)	
Clarithromycin	500 mg twice a day for 7 days ²
Doxycycline	200 mg on first day, then 100 mg once a day (can be increased to 200 mg daily) for 7 days ²
Alternative oral antibiotic for penicillin allergy in pregnancy	
Erythromycin	500 mg four times a day for 7 days ² Erythromycin is preferred if a macrolide is needed in pregnancy, for example, if there is true penicillin allergy and the benefits of antibiotic treatment outweigh the harms. See the Medicines and Healthcare products Regulatory Agency (MHRA) Public Assessment Report on the safety of macrolide antibiotics in pregnancy .
¹ See BNF for appropriate use and dosing in specific populations, for example, people with hepatic impairment or renal impairment, or who are pregnant or breast-feeding. ² A longer course (up to a further 7 days) may be needed based on clinical assessment. However, skin does take some time to return to normal, and full resolution of symptoms at 7 days is not expected. ³ The upper dose of 1 g four times a day would be off-label. The prescriber should follow relevant professional guidance, taking full responsibility for the decision. Informed consent should be obtained and documented. See the General Medical Council's Good practice in prescribing and managing medicines and devices for further information.	

When exercising their judgement, professionals and practitioners are expected to take this guideline fully into account, alongside the individual needs, preferences and values of their patients or the people using their service. It is not mandatory to apply the recommendations, and the guideline does not override the responsibility to make decisions appropriate to the circumstances of the individual, in consultation with them and their families and carers or guardian.

Diabetic foot infection: antimicrobial prescribing

Moderate or severe infection: choice of antibiotic for adults aged 18 years and over

Antibiotic ¹	Dosage	
First choice antibiotics (guided by microbiological results when available) ^{2,3,4} . In severe infection give IV for at least 48 hours (until stabilised). Course length is based on clinical assessment: minimum 7 days and up to 6 weeks for osteomyelitis (use oral antibiotics for prolonged treatment) ⁵		
Flucloxacillin with or without	1 g four times a day orally ⁶	or 1 to 2 g four times a day IV
Gentamicin ^{7,8} and/or	Initially 5 to 7 mg/kg once a day IV, subsequent doses adjusted according to serum gentamicin concentration	
Metronidazole	400 mg three times a day orally	or 500 mg three times a day IV
Co-amoxiclav with or without	500/125 mg three times a day orally	or 1.2 g three times a day IV
Gentamicin ^{7,8}	Initially 5 to 7 mg/kg once a day IV, subsequent doses adjusted according to serum gentamicin concentration	
Co-trimoxazole (in penicillin allergy) ^{8,9} with or without	960 mg twice a day orally	or 960 mg twice a day IV (can be increased to 1.44 g twice a day)
Gentamicin ^{7,8} and/or	Initially 5 to 7 mg/kg once a day IV, subsequent doses adjusted according to serum gentamicin concentration	
Metronidazole	400 mg three times a day orally	or 500 mg three times a day IV
Ceftriaxone with	2 g once a day IV	
Metronidazole	400 mg three times a day orally	or 500 mg three times a day IV
Additional antibiotic choices if <i>Pseudomonas aeruginosa</i> suspected or confirmed (guided by microbiological results when available) ^{2,3,4,10}		
Piperacillin with tazobactam	4.5 g three times a day IV (can be increased to 4.5 g four times a day)	
Clindamycin with	150 to 300 mg four times a day orally (can be increased to 450 mg four times a day)	or 600 mg to 2.7 g daily IV in two to four divided doses, increased if necessary in life-threatening infection to 4.8 g daily (max per dose 1.2 g)
Ciprofloxacin (consider safety issues ¹¹) and/or	500 mg twice a day orally	or 400 mg two or three times a day IV
Gentamicin ^{7,8}	Initially 5 to 7 mg/kg once a day IV, subsequent doses adjusted according to serum gentamicin concentration	
Antibiotics to be added if MRSA infection suspected or confirmed (combination therapy with an antibiotic listed above) ^{3,4}		
Vancomycin ^{7,8}	15 to 20 mg/kg two or three times a day IV (maximum 2 g per dose), adjusted according to serum vancomycin concentration	
Teicoplanin ^{7,8}	Initially 6 mg/kg every 12 hours for three doses, then 6 mg/kg once a day IV	
Linezolid (if vancomycin or teicoplanin cannot be used; specialist use only) ⁸	600 mg twice a day orally	or 600 mg twice a day IV

¹See [BNF](#) for use and dosing in specific populations, for example, people with hepatic impairment or renal impairment, or who are pregnant or breast-feeding, and administering IV (or, where appropriate, intramuscular) antibiotics.

²Give oral antibiotics first-line if the person can take oral medicines, and the severity of their condition does not require intravenous antibiotics.

³Review intravenous antibiotics by 48 hours and consider switching to oral antibiotics if possible.

⁴Other antibiotics may be appropriate based on microbiological results and specialist advice.

⁵Skin takes some time to return to normal, and full resolution of symptoms after a course of antibiotics is not expected. Review the need for continued antibiotics regularly.

⁶The dose of 1 g four times a day would be off-label. The prescriber should follow relevant professional guidance, taking full responsibility for the decision. Informed consent should be obtained and documented. See the [General Medical Council's Good practice in prescribing and managing medicines and devices](#) for further information.

⁷See [BNF](#) for information on therapeutic drug monitoring.

⁸See [BNF](#) for information on monitoring of patient parameters.

⁹Not licensed for diabetic foot infection, so use would be off label (see above).

¹⁰These antibiotics may also be appropriate in other situations based on microbiological results and specialist advice.

¹¹See [MHRA advice](#) for restrictions and precautions for using fluoroquinolone antibiotics due to very rare reports of disabling and potentially long-lasting or irreversible side effects (March 2019).