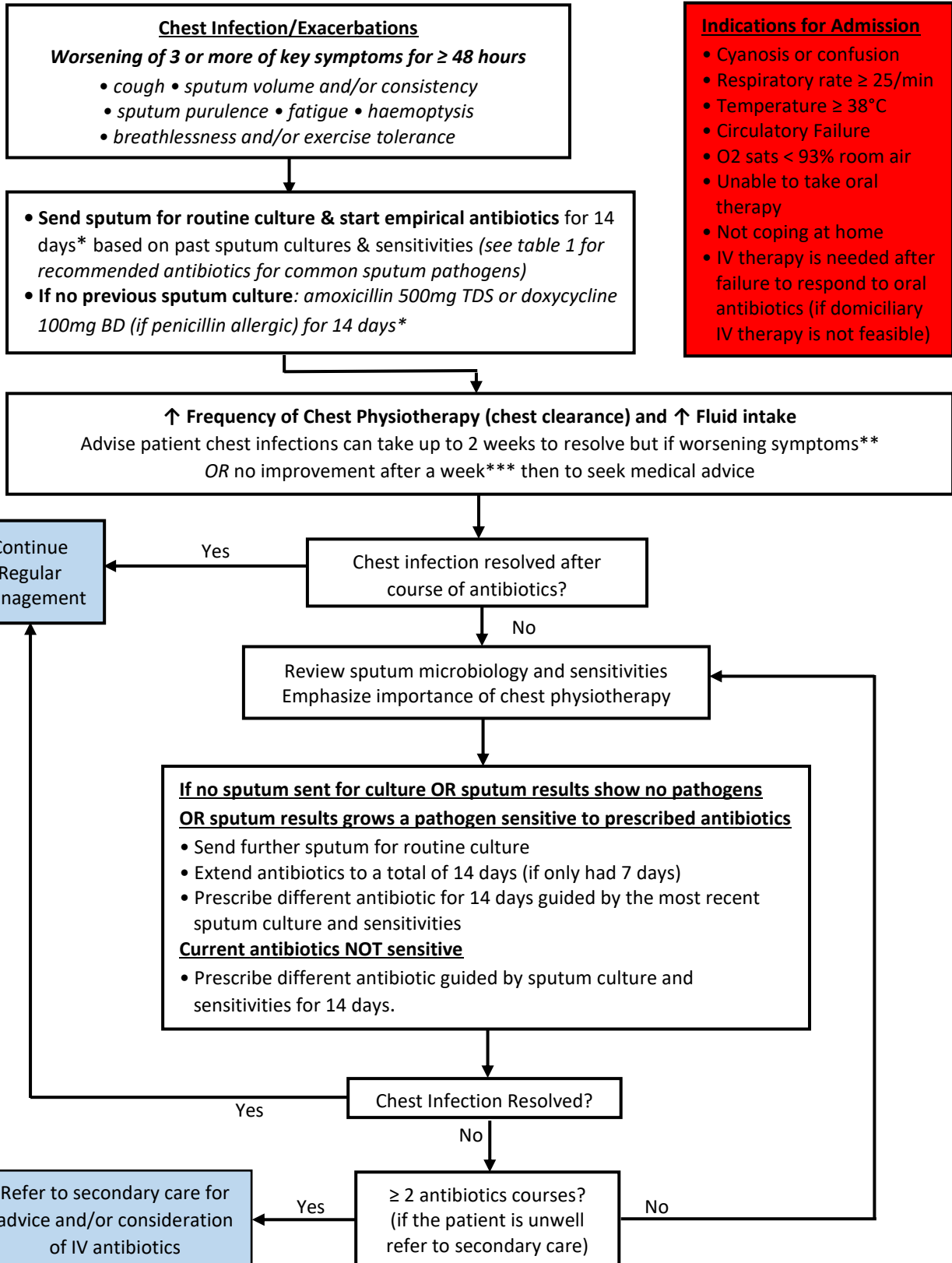


Guidelines for Managing Individual Chest Infections in Non-CF Bronchiectasis in Primary Care

Do NOT diagnose a chest infection based ONLY on a positive sputum sample sent for routine microbiology



* 7 days may be considered for mild bronchiectasis

** **For patients with worsening symptoms**

- Review sputum culture & sensitivities.
- Consider changing antibiotics based on recent sputum sensitivities and review as clinically indicated.

If patient is UNWELL, then refer to secondary care for advice and/or IV antibiotics.

*** **For patients with no improvement (but not worse) in the first week**

- Review sputum culture & sensitivities.
- If current antibiotic is resistant consider changing antibiotics based on recent sputum sensitivities.
- Otherwise send a further sputum sample for routine culture and continue with the current course of antibiotics (for 14 days).

Advise patients to seek medical advice if worse or chest infection does not resolve. If patient is UNWELL refer to secondary care for advice and/or IV antibiotics.

Sputum Pathogen	Antibiotics (14 days)
<i>Haemophilus Influenzae</i> β -lactamase negative	Amoxicillin 500mg TDS or doxycycline 100mg BD
<i>Haemophilus Influenzae</i> β -lactamase positive	Co-amoxiclav 625mg TDS or doxycycline 100mg BD
<i>Moraxella catarrhalis</i>	Co-amoxiclav 625mg or doxycycline 100mg BD
<i>Streptococcus pneumonia</i>	Amoxicillin 500mg TDS or doxycycline 100mg BD
<i>Staphylococcus aureus</i>	Flucloxacillin 500mg QDS or clarithromycin [†] 500mg BD
<i>Pseudomonas aeruginosa</i>	Ciprofloxacin 500mg BD ^{††}
Methicillin-resistant <i>Staphylococcus aureus</i> (MRSA)	Doxycycline 100mg BD

Table 1: Recommended antibiotics and doses for common sputum pathogens found in bronchiectasis.

[†] Macrolide antibiotics (including short courses) can prolong QTc interval. Advise patients to monitor for dizziness or palpitations especially in patients with pre-existing cardiac disease.

^{††} Patients should be **advised to stop ciprofloxacin (and other fluoroquinolones) at first sign of tendon pain, muscle pain, muscle weakness, joint pain, joint swelling and peripheral neuropathy**. Adverse events include **tendonitis and tendon rupture** as well as **peripheral neuropathy**. Other side-effects include photosensitivity, joint pain, joint swelling, muscle pain and muscle weakness.

- **Do not use in patients with a history of serious adverse reaction (e.g. tendon damage) to ciprofloxacin or other fluoroquinolones.**
- Co-administration of corticosteroids and fluoroquinolones should be avoided if possible as there is increased risk of tendon damage.
- **Prescribe with caution** in people over 60 years old, with renal impairment and solid organ transplants as there is a higher risk of tendon injury.

For further information (including other side-effects) see 'MHRA sheet to discuss measures with patients' (<https://assets.publishing.service.gov.uk/media/5c9364c6e5274a48edb9a9fa/FQ-patient-sheet-final.pdf>).

Note: patients can still respond to some antibiotics ('in vivo') even if the sputum results show antibiotic resistance to the sputum pathogen 'in vitro'. Only change antibiotics if the patient is not clinically improving. Several days of antibiotics may be needed before starting to see an improvement, especially in patients with more severe bronchiectasis.