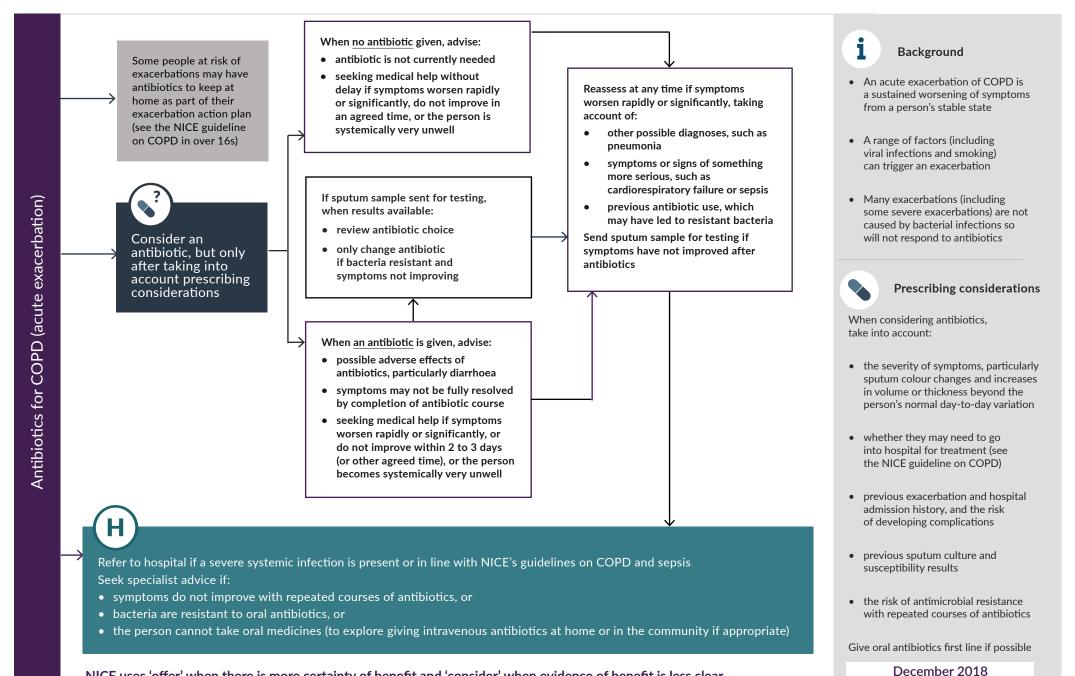
COPD (acute exacerbation): antimicrobial prescribing NICE National Institute for Health and Care Excellence



NICE uses 'offer' when there is more certainty of benefit and 'consider' when evidence of benefit is less clear.

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Choice of antibiotic for treating an acute exacerbation: adults aged 18 years and over

Antibiotic ^{1,2}	Dosage and course length
First choice oral antibiotics (empirical treatment or guided by most recent sputum culture and susceptibilities)	
Amoxicillin	500 mg three times a day for 5 days (see BNF for dosage in severe infections)
Doxycycline	200 mg on first day, then 100 mg once a day for 5-day course in total (see BNF for dosage in severe infections)
Clarithromycin	500 mg twice a day for 5 days (see BNF for dosage in severe infections)
Second choice oral antibiotics (no improvement in symptoms on first choice taken for at least 2 to 3 days; guided by susceptibilities when available)	
Use alternative first choice (from a different class)	As above
Alternative choice oral antibiotics (if person at higher risk of treatment failure ³ ; guided by susceptibilities when available)	
Co-amoxiclav	500/125 mg three times a day for 5 days
Levofloxacin ⁴	500 mg once a day for 5 days
Co-trimoxazole⁵	960 mg twice a day for 5 days
First choice intravenous antibiotics (if unable to take oral antibiotics or severely unwell; guided by susceptibilities when available) ⁶	
Amoxicillin	500 mg three times a day (see BNF for dosage in severe infections)
Co-amoxiclav	1.2 g three times a day
Clarithromycin	500 mg twice a day
Co-trimoxazole⁵	960 mg twice a day (see BNF for dosage in severe infections)
Piperacillin with tazobactam	4.5 g three times a day (see BNF for dosage in severe infections)
Second choice intravenous antibiotics	
Consult local microbiologist (guided by susceptibilities)	
² Where a person is receiving antibiotic prophylaxis ³ People who may be at higher risk of treatment fail risk of developing complications. ⁴ The European Medicines Agency's Pharmacovigila long-lasting side effects mainly involving muscles, antibiotics cannot be used (press release October ⁵ Co-trimoxazole should only be considered for use antibiotic (BNF, October 2018).	c populations, for example, hepatic impairment, renal impairment, and for administering intravenous antibiotics. s, treatment should be with an antibiotic from a different class. Iure include people who have had repeated courses of antibiotics, a previous or current sputum culture with resistant bacteria, or people at higher ance Risk Assessment Committee has recommended restricting the use of fluoroquinolone antibiotics following a review of disabling and potentially tendons, bones and the nervous system. This includes a recommendation not to use them for mild or moderately severe infections unless other 2018). in acute exacerbations of COPD when there is bacteriological evidence of sensitivity and good reason to prefer this combination to a single consider stepping down to oral antibiotics where possible.

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.