

Summary of antimicrobial prescribing guidance – managing common infections

- For all PHE guidance, follow PHE's principles of treatment.
- See BNF for appropriate use and dosing in specific populations, for example, hepatic impairment, renal impairment, pregnancy and breastfeeding. •
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BNF Click to access doses for children

Click to access NICE's printable visual summary

Infaction	Kov pointo	Medicine	Doses		Longth	Visual
mection	Key points		Adult	Child	Length	summary
▼ Lower respiratory tract infections						
Acute exacerbation of COPD	Many exacerbations are not caused by bacterial infections so will not respond to antibiotics. Consider an antibiotic, but only after taking into	First choice: amoxicillin OR	500mg TDS (see BNF for severe infection)	-		
NICE	account severity of symptoms (particularly sputum colour changes and increases in volume or thickness), need for hospitalisation, previous exacerbations, hospitalisations and risk of	doxycycline OR	200mg on day 1, then 100mg OD (see BNF for severe infection)	-	5 days	
complications, previous sputum culture and	complications, previous sputum culture and susceptibility results, and risk of resistance with	clarithromycin	500mg BD	-		
Public Health	repeated courses.	Second choice: use alterna	Card book, advected another with the			
England	Some people at risk of exacerbations may have antibiotics to keep at home as part of their exacerbation action plan.	Alternative choice (if person at higher risk of treatment failure):	500/125mg TDS	-		
Last updated: Dec 2018	See also the <u>NICE guideline on COPD in over 16s</u> .	co-trimoxazole OR	960mg BD	-		
		levofloxacin (with specialist advice if co- amoxiclav or co- trimoxazole cannot be used; consider safety issues)	500mg OD	-	5 days	
	IV antibiotics (click on visual summary)					

Infection	Key points	Medicine	Doses			Visual
Infection			Adult	Child	Length	summary
Acute exacerbation of bronchiectasis	Send a sputum sample for culture and susceptibility testing. Offer an antibiotic.	First choice empirical treatment: amoxicillin (preferred if pregnant) OR	500mg TDS		7 to 14 days	
(non-cystic fibrosis)	severity of symptoms and risk of treatment failure. People who may be at higher risk of	doxycycline (not in under 12s) OR	200mg on day 1, then 100mg OD	-		
	treatment failure include people who've had	clarithromycin	500mg BD			
NICE	sputum culture with resistant or atypical bacteria, or a higher risk of developing complications. Course length is based on severity of	Alternative choice (if person at higher risk of treatment failure) empirical treatment: co-amoxiclav OR	500/125mg TDS			
England	bronchiectasis, exacerbation history, severity of exacerbation symptoms, previous culture and susceptibility results, and response to treatment. Do not routinely offer antibiotic prophylaxis to	levofloxacin (adults only: with specialist advice if co-amoxiclav cannot be used; consider safety	500mg OD or BD		7 to 14 days	
Last updated:	prevent exacerbations.	issues) OR				
Dec 2018	Seek specialist advice for preventing exacerbations in people with repeated acute exacerbations. This may include a trial of antibiotic prophylaxis after a discussion of the possible benefits and harms, and the need for	ciprofloxacin (children only: with specialist advice if co-amoxiclav cannot be used; consider safety issues)	-			
	For detailed information click on the visual	IV antibiotics (click on visua	al summary)			
	summary.	When current susceptibilit	iotics accordingly			
COVID-19	Antibiotics should not be used for preventing or tre	ating COVID-19 unless there	is clinical suspicion of	additiona	l bacterial co-infectio	n.
	Do not use azithromycin to treat COVID-19.					
NICE	Do not offer an antibiotic for preventing secondary	bacterial pneumonia in people	e with COVID-19.			
	If a person in the community has suspected or con community-acquired pneumonia (below) for choice	nfirmed secondary bacterial pr es.	neumonia, start antibio	otic treatm	nent as soon as poss	ible, see
Last updated: June 2021	In hospital, start empirical antibiotics if there is clin pneumonia (below) for choices. Start antibiotics as certainly within 4 hours. Start treatment within 1 ho the <u>NICE guideline on sepsis</u> . For detailed information, see the <u>NICE guideline on mar</u>	ical suspicion of a secondary s soon as possible after estab our if the person has suspecte maging COVID-19.	bacterial infection in p lishing a diagnosis of ed sepsis and meets a	beople wit secondar ny of the	h COVID-19, see hos y bacterial pneumonis high-risk criteria for th	<i>spital-acquired</i> a, and his outlined in

Infoction	Key points	Medicine	Doses		Longth	Visual
IIIIection			Adult	Child	Lengin	summary
Acute cough	Some people may wish to try honey (in over 1s), the herbal medicine pelargonium (in over 12s),	Adults first choice: doxycycline	200mg on day 1, then 100mg OD	-		
NICE	cough medicines containing the expectorant guaifenesin (in over 12s) or cough medicines containing cough suppressants, except codeine, (in over 12s). These self-care treatments have limited evidence for the relief of cough	Adults alternative first choices: amoxicillin (preferred if pregnant) OR	500mg TDS	-	5 days	
Public Health	symptoms.	clarithromycin OR	250mg to 500mg BD	-	o days	
	infection: no antibiotic.	erythromycin (preferred if pregnant)	250mg to 500mg QDS or			
Last updated: Feb 2019	Acute bronchitis: no routine antibiotic. Acute cough and higher risk of complications (at face-to-face examination): immediate or back-up antibiotic. Acute cough and systemically very unwell (at face to face examination): immediate antibiotic.	F. • 9	500mg to 1000mg BD	-		
		Children first choice: amoxicillin	-	-		
		Children alternative first choices: clarithromycin OR	-			
	Higher risk of complications includes people with	erythromycin OR	-	-		
	prematurely; people over 65 with 2 or more of, or over 80 with 1 or more of: hospitalisation in previous year, type 1 or 2 diabetes, history of congestive heart failure, current use of oral corticosteroids. Do not offer a mucolytic, an oral or inhaled bronchodilator, or an oral or inhaled corticosteroid unless otherwise indicated.	doxycycline (not in under 12s)	-		5 days	
	For detailed information click on the visual summary.					

Infection	Key points	Medicine	Doses		Longeth	Visual
			Adult	Child	Length	summary
Community- acquired pneumonia NICE	Assess severity in adults based on clinical judgement and guided by a mortality risk score (CRB65 or CURB65) when these scores can be calculated: Iow severity – CRB65 0 or CURB65 0 or 1 moderate severity – CRB65 1 or 2 or CURB65 2 high severity – CRB65 3 or 4 or CURB65 3 to 5.	First choice (low severity in adults or non-severe in children): amoxicillin Alternative first choice (low severity in adults or non-severe in children): doxycycline (not in under 12s) OR clarithromycin OR	500mg TDS (higher doses can be used, see BNF) 200mg on day 1, then 100mg OD 500mg BD		5 days*	
Public Health England Last updated: Sept 2019	1 point for each parameter: confusion , (urea >7 mmol/l), respiratory rate \geq 30/min, low systolic (<90 mm Hg) or diastolic (\leq 60 mm Hg) blood pressure , age \geq 65. Assess severity in children based on clinical judgement. Offer an antibiotic. Start treatment as soon as possible after diagnosis, within 4 hours (within 1 hour if sepsis suspected and person meets any high risk criteria – see the <u>NICE guideline</u> <u>on sepsis</u>). When choosing an antibiotic, take account of severity, risk of complications, local antimicrobial resistance and surveillance data, recent antibiotic use and microbiological results.	erythromycin (in pregnancy) First choice (moderate severity in adults): amoxicillin AND (if atypical pathogens suspected) clarithromycin OR erythromycin (in pregnancy) Alternative first choice (moderate severity in adults): doxycycline OR clarithromycin Eirst choice (high	500mg QDS 500mg TDS (higher doses can be used, see BNF) 500mg BD 500mg QDS 200mg on day 1, then 100mg OD 500mg BD 500mg BD 500mg DS	-	5 days*	
* Stop antibiotics a microbiological resu is needed or the pe <i>For detailed informat</i>	* Stop antibiotics after 5 days unless microbiological results suggest a longer course is needed or the person is not clinically stable. <i>For detailed information click on the visual summary.</i>	severity in adults or severe in children): co-amoxiclav AND (if atypical pathogens suspected) clarithromycin OR erythromycin (in pregnancy) Alternative first choice (high severity in adults): levofloxacin (consider safety issues) IV antibiotics (click on visua	500mg BD 500mg QDS 500mg BD al summary)		5 days*	

Infection	Key points	Medicine	Doses		Longth	Visual
			Adult	Child	Length	summary
Hospital- acquired pneumonia	If symptoms or signs of pneumonia start within 48 hours of hospital admission, see <i>community</i> <i>acquired pneumonia (above).</i> Offer an antibiotic. Start treatment as soon as	First choice (non-severe and not higher risk of resistance): co-amoxiclav	500/125 mg TDS		5 days then review	
NICE Public Health England Last updated: Sept 2019	possible after diagnosis, within 4 hours (within 1 hour if sepsis suspected and person meets any high risk criteria – see the <u>NICE guideline</u> <u>on sepsis</u>). When choosing an antibiotic, take account of severity of symptoms or signs, number of days in hospital before onset of symptoms, risk of developing complications, local hospital and ward-based antimicrobial resistance data, recent antibiotic use and microbiological results, recent	Adults alternative first choice (non-severe and not higher risk of resistance) Choice based on specialist microbiological advice and local resistance data Options include: doxycycline	200mg on day 1, then 100mg OD	-	5 days then	
	contact with a health or social care setting before current admission, and risk of adverse effects with broad spectrum antibiotics.	penicillin allergy)	(can increase to 1 to 1.5g TDS or QDS)	-	review	
	available. Assess severity assessment tools are available. Assess severity of symptoms or signs based on clinical judgement. Higher risk of resistance includes relevant comorbidity (such as severe lung disease or immunosuppression), recent use of broad- apactrum optibilities cologications with multi drug	co-trimoxazole levofloxacin (only if switching from IV levofloxacin with specialist advice; consider safety issues)	500mg OD or BD	-		
	resistant bacteria, and recent contact with multi-drug resistant bacteria, and recent contact with health and social care settings before current admission. If symptoms or signs of pneumonia start within days 3 to 5 of hospital admission in people not at higher risk of resistance, consider following community acquired pneumonia for choice of antibiotic. For detailed information click on the visual summary.	Children alternative first choice (non-severe and not higher risk of resistance): clarithromycin Other options may be suitable based on specialist microbiological advice and local resistance data For first choice IV antibiotics	- (severe or higher risk	of resistar	- nce) andantibiotics to	
		For first choice IV antibiotics (severe or higher risk of resistance) and antibiotics to be added if suspected or confirmed MRSA infection see visual summary				