

ORAL ANTIBIOTICS FOR ACUTE COPD EXACERBATIONS

Penicillins					
Drug Name	Supplied	Covered by ODB	Cost	Suggested dosing	Adverse Events
Amoxicillin					
Various generics	250 mg cap	YES	\$0.07-0.08 per cap	1000 mg TID PO for 5-7 days Dosage adjustment may be required for renal impairment	Rash, anaphylaxis (rare)
	500 mg cap		\$0.13-0.15 per cap		
	125 mg/5 ml oral liquid		\$3.53-4.06 per 100 ml		
	250 mg/ml oral liquid		\$5.40-6.21 per 100 ml		
	250 mg chewable tab	NO	\$0.75-0.86 per tab		
Amoxil	250 mg cap	NO	--		
	500 mg cap				
	125 mg/5 ml oral liquid				
	250 mg/5 ml oral liquid				
Amoxicillin/clavulanate					
Various generics	250/125 mg tab	YES	\$0.94-1.08	875/125 mg BID PO for 5-10 days Alternative: 500/125 mg TID PO for 5-10 days	Anaphylaxis, GI upset, diarrhea
	500/125 mg tab		\$0.76-0.87		
	875/125 mg tab		\$0.56-0.64		
	25/6.25 mg/ml oral liquid	NO	--		

	50/12.5 mg/ml oral liquid	NO	--	Dosage adjustment may be required for renal impairment
	400/57 mg/5 ml suspension			
Clavulin	250/125 mg tab	NO	--	
	500/125 mg tab	YES with valid NO SUBSTITUTION		
	875/125 mg tab			
	25/6.2 mg/ml oral liquid			
	50/12.5 mg/ml oral liquid			
	200/28.5 mg/5 ml suspension	YES	\$11.08-12.74 for 70 ml	
	400/57 mg/5 ml suspension	YES	\$21.20-24.38 per 70 ml	

Sulfonamide Combinations					
Drug Name	Supplied	Covered by ODB	Cost	Suggested Dosing	Adverse Effects
Sulfamethoxazole/trimethoprim					
Various generics	100/20 mg tab	NO	\$0.10-0.12	800/160 mg BID PO for 5-7 days Dosage adjustment may be required for renal impairment	Nausea, skin rash, Stevens-Johnson syndrome (rare).
	400/80 mg tab	YES	\$0.11-0.13 per tab		
	800/160 mg tab		\$0.16-0.18 per tab		
	40/8 mg/ml oral liquid		\$10.26-11.80 per 100 ml		
Septra	400/80 mg tab	NO	--		
	40/8 mg/ml oral liquid	NO	--		
Septra DS	800/160 mg tab	NO	--		
Bactrim	400/80 mg tab	NO	--		
Bactrim Sugar Free	40/8 mg/ml oral liquid	NO	--		
Bactrim DS	800/160 mg tab	NO	--		

Tetracyclines					
Drug Name	Supplied	Covered by ODB	Cost	Suggested dosing	Adverse Effects
Doxycycline					
Various generics	100 mg tab	YES	\$0.59-0.68 per tab	200 mg PO for 1 dose then 100 mg BID PO for 5-7 days	GI upset, photosensitivity
	100 mg cap	YES/FACILITATED ACCESS	\$0. 59-0.68 per cap		
Vibramycin	100 mg cap	YES/FACILITATED ACCESS	--		
Vibra-Tabs	100 mg tab	NO	--		
Periostat	20 mg cap	NO	\$1.43-1.64 per cap		
Aprilon	40 mg modified release cap	NO	\$2.90-3.34 per cap		

Cephalosporins					
Drug Name	Supplied	Covered by ODB	Cost	Suggested dosing	Adverse Effects
Cefuroxime					
Various generics	250 mg tab	YES	\$0.72-0.83 per tab	500 mg BID PO for 5-10 days	Dosage adjustment may be required for renal impairment GI intolerance, anaphylaxis (rare), rash
	500 mg tab		\$1.43-1.64 per tab		
Ceftin	250 mg tab	YES with valid NO SUBSTITUTION	--		
	500 mg tab		--		
	125 mg/5 ml suspension	YES	\$18.94-21.78 per 100 ml		

Fluoroquinolones					
Drug Name	Supplied	Covered by ODB	Cost	Suggested dosing	Adverse Effects
Ciprofloxacin					
Various generics	250 mg tab	YES	\$0.45-0.52 per tab	For patients at risk of <i>pseudomonas aeruginosa</i> : 500—750 mg BID PO for 7-21 days	Dosage adjustment may be required for renal impairment Headache, dizziness, peripheral neuropathy, tendon rupture (rare), QTc prolongation, liver injury, liver failure (rare), may worsen symptoms of myasthenia gravis and should not be used in this population.
	500 mg tab		\$0.50-0.58 per tab		
	750 mg tab		\$0.92-1.06 per tab		
	750 mg tab		\$2.44-2.81 per tab		
Cipro	250 mg tab	YES with valid NO SUBSTITUTION	--		
	500 mg tab				
	750 mg tab				
	10 g/100 mg oral suspension	YES LU REQUIRED LU 533 (1 yr)	\$60.78-69.90 for 100 ml		

Levofloxacin					
Various generics	250 mg tab	YES	\$1.20-1.38 per tab	750 mg OD PO for 5 days Alternative: 500 mg OD PO for 7 days	Dosage adjustment may be required for renal impairment Headache, dizziness, peripheral neuropathy, tendon rupture (rare), QTc prolongation, liver injury, liver failure (rare), may worsen symptoms of myasthenia gravis and should not be used in this population.
	500 mg tab		\$1.37-1.58 per tab		
	750 mg tab	NO	\$6.55-7.53 per tab		
Levaquin	250 mg tab	NO	--		
	500 mg tab				
	750 mg tab				
Moxifloxacin					
Various generics	400 mg tab	YES	\$1.52-1.75 per tab	400 mg OD PO for 5 days	Headache, dizziness, peripheral neuropathy, tendon rupture (rare), QTc prolongation, liver injury, liver failure (rare), may worsen symptoms of myasthenia gravis and should not be used in this population.
Avelox	400 mg tab	YES with valid NO SUBSTITUTION	--		
Avelox I.V	400 mg/250 ml injectable	EXCEPTIONAL ACCESS PROGRAM	--		

Extended Spectrum Macrolides					
Drug Name	Supplied	Covered by ODB	Cost	Suggested dosing	Adverse Effects
Azithromycin					
Various generics	250 mg tab	YES	\$0.94-1.08 per tab	500 mg OD PO for 3 days	Alternative: 500 mg PO for 1 day then 250 mg OD PO for 4 days GI intolerance, QTc prolongation
	100 mg/5 ml oral liquid		\$5.93-6.82 for 15 ml		
	200 mg/5 ml oral liquid		\$8.41-24.17 available in 15 ml, 22.5 ml or 37.5 ml \$201.76-232.02 for 10 vials		
	600 mg tab	YES LU REQUIRED LU 549 (1 yr)	\$7.63-8.77 per tab		
	500 mg injectable	NO	--		
Zithromax	250 mg tab	YES with valid NO SUBSTITUTION	--		
	100 mg/5 ml oral liquid				
	200 mg/5 ml oral liquid				
	600 mg tab	NO			
Clarithromycin					
Various generics	250 mg tab	YES	\$0.41-0.47 per tab	500 mg BID PO for 5-10 days	Bitter taste, GI intolerance, QTc prolongation
	500 mg extended release tab		\$1.26-1.45 per tab		

	125 mg/5 ml oral suspension		\$11.26-12.95 for 55 ml	ER tabs: 1000 mg OD PO for 5-10 days Dosage adjustment may be required for renal impairment
	250 mg/5 ml oral suspension		\$41.98-48.28 for 105 ml	
	500 mg tab	NO	\$2.20-2.53 per tab	
Biaxin BID	250 mg tab	YES with valid NO SUBSTITUTION	--	
	500 mg tab	NO		
Biaxin XL	500 mg extended release tab	YES with valid NO SUBSTITUTION	--	
Biaxin	125 mg/5 ml oral suspension	YES with valid NO SUBSTITUTION	--	
	250 mg/5 ml oral suspension			

REFERENCES:

Prescribe Smart: the Modern Drug Formulary. 2019. Accessed from: <https://www.prescribessmart.com/>. Accessed on 25-Mar-2022.

McIvor RA. "Drug Tables: Chronic Obstructive Pulmonary Disease". *Compendium of Pharmaceuticals and Specialites (CPS) Online Version*, Canadian Pharmacists Association (CPhA). 2021. Accessed from: <https://www-e-therapeutics-ca.libaccess.lib.mcmaster.ca/search#>. Accessed on: 25-Mar-2022.