

Birmingham and Midland Eye Centre Topical Ophthalmic Antibiotic Selection Guide

This table relates to antibiotics for topical treatment only.

This is a guide for selecting a suitable topical ophthalmic antibiotic based on the microbiology sensitivity report. It does not replace clinical judgement and BMEC ophthalmic infection guidelines should be followed – in cases of doubt, antibiotic therapy should be discussed with the duty microbiologist and a consultant ophthalmologist.

		Alternatives (in order of preference)	
Sensitive to	First choice	Preserved	Preservative free
Miscellaneous			
Chloramphenicol	G. chloramphenicol 0.5%	G. fusidic acid 1% Check quinolone sensitivity	G. chloramphenicol 0.5% Oc. chloramphenicol 1% Oc. Polyfax® Check quinolone sensitivity Check cefuroxime sensitivity G. vancomycin 5%*,‡
Fusidic acid	G. fusidic acid 1%	G. chloramphenicol 0.5% Check quinolone sensitivity	G. chloramphenicol 0.5% Oc. chloramphenicol 1% Oc. Polyfax® Check quinolone sensitivity Check cefuroxime sensitivity
Azithromycin	G. azithromycin 1.5%	G. chloramphenicol 0.5% Check quinolone sensitivity	G. chloramphenicol 0.5% Oc. chloramphenicol 1% Oc. Polyfax® Check quinolone sensitivity Check cefuroxime sensitivity G. vancomycin 5%*,‡
Aminoglycosides			
Gentamicin	G. gentamicin 0.3%	G. gentamicin 1.5%‡ Check quinolone sensitivity	G. gentamicin 1.5%‡ G. amikacin 2.5%*,‡ Check quinolone sensitivity

Drugs marked in red contain penicillin; drugs marked in orange should be used with caution in penicillin allergy and avoided if there is any history of anaphylaxis to penicillin; drugs marked in green are safe in penicillin allergy. PF = preservative free.

*May not be readily available – check availability with pharmacy and discuss with microbiology for interim alternatives if supply will be delayed.

†Restricted – must be prescribed in accordance with BMEC ophthalmic infection policies

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		Alternatives (in order of preference)	
Sensitive to	First choice	Preserved	Preservative free
			Check cefuroxime sensitivity
Amikacin	G. amikacin 2.5% PF*‡	Check quinolone sensitivity	Check quinolone sensitivity Check cefuroxime sensitivity <i>Ps. aeruginosa:</i> check ceftazidime *
Beta-lactams			
Penicillin	G. chloramphenicol 0.5%	G. fusidic acid 1% G. penicillin 5000 units/ml	G. chloramphenicol 0.5% Oc. chloramphenicol 1% G. penicillin 5000 units/ml* G. cefuroxime 5%‡ G. vancomycin 5%*‡
Flucloxacillin	G. chloramphenicol 0.5%	G. fusidic acid 1%	G. chloramphenicol 0.5% Oc. chloramphenicol 1% G. cefuroxime 5%‡ G. vancomycin 5%*‡
Cefuroxime	G. cefuroxime 5% PF‡	Check quinolone sensitivity Check aminoglycoside sensitivity	Check quinolone sensitivity Check aminoglycoside sensitivity Check vancomycin sensitivity
Ceftazidime	G. ceftazidime 5% PF*‡		Check quinolone sensitivity Check aminoglycoside sensitivity
Glycopeptides			
Vancomycin	G. vancomycin 5% PF*‡	G. chloramphenicol 0.5% G. fusidic acid 1%	G. chloramphenicol 0.5% Oc. chloramphenicol 1% Oc. Polyfax®
Quinolones			
Ofloxacin	G. ofloxacin 0.3%‡	G. ciprofloxacin 0.3%‡	Oc. ciprofloxacin 0.3% G. levofloxacin 0.5%‡ Check cefuroxime sensitivity <i>Ps. aeruginosa:</i> check ceftazidime
Ciprofloxacin	G. ciprofloxacin 0.3%‡	G. ofloxacin 0.3%‡	Oc. ciprofloxacin 0.3%
Levofloxacin	G. levofloxacin 0.5%		
Moxifloxacin	G. moxifloxacin 0.5%		

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