

Ophthalmological synopses

Antibiotics

<i>Antibiotic</i>	<i>Sensitivity of organisms</i>							
	<i>Staph. aureus</i>	<i>Penicillin-resistant Staph. aureus</i>	<i>Strep. pyogenes</i>	<i>Pneumo-coccus</i>	<i>Gonococcus</i>	<i>Proteus vulgaris</i>	<i>E. coli</i>	<i>Ps. pyocyanea</i>
Penicillin	+++		+++	+++	+++			
Erythromycin	+++		+++	+++	+++			
Novobiocin	+++		+++	+++	+++	+		
Bacitracin	+++		+++	+++	+++			
Methicillin (Celbenin)	++	+++	++	++	++			
Cloxacillin (Orbenin)	++	+++	++	++	++			
Ampicillin (Penbritin)	+++		+++	+++	+++		+++	
Carbenicillin (Pyopen)						+++	+++	+++
Tetracyclines	++		++	++	++	++	++	±
Chloramphenicol	++		++	++	++	++	++	±
Streptomycin	++		±	±	++	+++	+++	±
Neomycin	++		±	±	++	+++	+++	±
Kanamycin	++		±	±	++	+++	+++	±
Polymyxin B					++	+	++	+++
Colistin (Colomycin)					++	+	++	+++
Framycetin (Soframycin)	++		±	+++	++	++	+++	++
Gentamicin (Genticin)	+++	+++	±	±	++	+++	+++	+++

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<i>Concentration</i>	<i>Dose for severe intraocular infection</i>	<i>Systemic side-effects</i>	<i>Intraocular penetration when given systemically</i>
1000 u.	20 million u. daily by intravenous infusion plus probenecid	Least toxic of all antibiotics Allergic or hypersensitivity reactions may occur	++
	500 mg. 6-hrly oral	Nausea and vomiting	++
	100 mg. 4-hrly intramuscular	Diarrhoea	
	300 mg. 4-hrly intravenous	Hepatitis (rare)	
	500 mg. 6-hrly oral	Drug rash, fever,	+
	500 mg. twice daily intramuscular or intravenous	bone marrow depression, eosinophilia	
100 u.		May produce severe renal damage if given systemically	—
	2 g. 6-hrly intramuscular or intravenous	Allergy and hypersensitivity Reversible depression of bone marrow (rare) Albuminuria and haematuria	++
	2 g. 6-hrly intramuscular or intravenous	Allergy and hypersensitivity Mild gastrointestinal upsets	++
	1 g. 6-hrly oral (Gram +ve organisms)	Allergy and hypersensitivity	+++
	2 g. 4-hrly oral or 500 mg. 6-hrly intravenous (Gram -ve organisms)	Mild gastrointestinal upsets	
	Up to 12-30 g. daily intravenous	Allergy and hypersensitivity	?
	2 g. stat; 1 g. 8-hrly oral	Nausea, vomiting, diarrhoea, pruritis Superinfection Staining of deciduous teeth	++
	3 g. stat; 1 g. 8-hrly oral or intramuscular	Blood dyscrasias Skin rash, fever Abdominal cramps	++++
500 u.	1 g. 8-hrly intramuscular	Hypersensitivity 8th nerve damage Renal damage	++
		Renal and 8th nerve damage if given systemically	—
	3 g. stat; 1 g. 8-hrly intramuscular	Renal and 8th nerve damage, but safer than neomycin	+++
		Renal damage if given systemically	—
	1 million u. 6-hrly intramuscular	Drug rash, fever, parasthesiae, ataxia Haematuria Leucopenia	+
		Too toxic for systemic use	—
		8th nerve damage Transient rise in blood urea Proteinuria	?

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