

PROTEIN SYNTHESIS INHIBITORS Cheat Sheet

by olkimmilo via cheatography.com/42456/cs/12777/

	TETRACYCLINES		
	Indications	Rickettsial infections (rocky mountain spotted fever), chlamydia, lyme disease, mycoplasmal infections, chronic severe acne, cholera, gastric/duodenal ulcer caused by H. pylori	
	PK	Excreted in bile, urine, breast milk, undergo enterohepatic circulation	
	GI	GI, deposition of drug in bones and teeth, liver failure, phototoxicity, vertigo, avoid in pregnant	

TETRACYCLINES					
SHORT	CHLORTETRACYCLINE				
	TETRACYCLINE				
	OXYTETRACYCLINE				
INTERM EDIATE	DEMECLOCYCLINE	treats SIADH			
	METHACYCLINE				
LONG	DOXYCYCLINE	treat infections in pts with anuria (eliminates via bile, feces)			
	MINOCYCLINE	achieves high CNS concentrations in the absence of inflammation, metabolized in liver			

MACROLIDES/KETOLIDES

AZITHROMYCIN show cross-resistance with erythromycin

longest t1/2

Advantages: less GI disturbances

CLARITHROMYCIN show cross-resistance with erythromycin

Advantage: lower incidence of GI disturbances,

less frequent dosing

ERYTHROMYCIN MOA: Interferes with aminoacyl translocation,

preventing the transfer of the tRNA bound at the A site of the 50S rRNA complex to the P site of the

rRNA complex

Destroyed by gastric acid and must be enteric

coated shortest t1/2

MACROLIDES/KETOLIDES (cont)

TELITHR OMYCIN Effective against macrolide-resistant organisms

Indications: respiratory tract infections, including community-acquired bacteria pneumonia, acute exacerbations of chronic bronchitis, sinusitis and strepto

pharyngitis

Indications: community acquired pneumonia (mycoplasma, legionella, chlamydia), pertussis, campylobacter jejuni gastroenteritis, MAC (azalides)

PK: Well distributed, CNS penetration limited except with inflammation. Most of drug is concentrated in the liver and excreted in the bile, some inactivated in the liver by demethylation.

AE: GI, jaundice, ototoxicity

Bacteriostatic, bactericidal at high doses

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CLINDAMYCIN Indications: pencillin-resistant anaerobic

infections

Clinical use: SSTI

Pharmacology: high bone concentrations **Toxicity:** diarrhea, allergy, skin rashes, pseudomembranous colitis caused by

overgrowth of C. diff

CHLORAMPHENICOL Indications: Rickettsiae (typhus and Rocky

Mountain spotted fever); bacterial meningitis

Clinical use: eye infections

AE: GI disturbances, gray baby syndrome,

aplastic anemia

PEARL: Because of its toxicity and resistance, its use is restricted to life-threatening infections

for which no alternative exists

STREPTOGRAMINS

QUINUPRISTIN-DALFOPRISTIN

AE: venous irritation, athralgia and myalgia,

hyperbilirubinemia

OXAZOLIDINONES

LINEZOLIDE

PK: completely absorbed, widely distributed throughout

the body, excreted renally and non-renally

AE: GI upset



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AMINOGLYCOSIDES				
STREPTOMYCIN	2 nd line agent for the treatment of tuberculosis in combination with other agents to prevent emergence of resistance AE: vestibular disturbances			
GENTAMICIN	Intrathecal Indications: mainly used in combo for severe infections (sepsis and pneumonia) caused by resistant strains of gram negative bacteria, infected burns/woulds/lesions, prevention of catheter infections			
GENT+B- LACTAM	Synergistic effect against pseudomonas, proteus, enterobacter, klebsiella, serratia, stenotrophomonas, and other gram negative rods that are resistant to multiple antibiotics			
TOBRAMYCIN	Inhalation Cautioned in pts with preexisting renal, vestibular or hearing disorders			
STREPTO+PCN	Used for tuleremia and enterococcal carditis			
KANAMYCIN (topical only)	Kanamycin-resistant strains may be cross-resistant to amikacin			
AMIKACIN	Semisynthetic derivative of kanamycin, less toxic Indications: tx microorganisms resistant to gentamicin and tobramycin			
NEOMYCIN (topical only)	Indications: reduce the risk of infections during bowel surgery			

AMINOGLYCOSIDES (cont)				
SPECTIN OMYCIN	Indications: alternative treatment for drug-resistant gonorrhea or gonorrhea in pcn-allergic pts			
	No cross-resistance with other drugs used in gonorrhea AE: pain at injection site, fever, nausea			
AE: Ototoxicity (reversible), nephrotoxicity (reversible),				
neuromuscular blockade				

PK: Levels in most tissue are low. No CNS penetration. High accumulation in renal cortex and lymph of inner ear. Excreted into the urine by glomerular filtration. Accumulation occurs in patients with renal

Used against aerobic gram negative bacilli Exhibit concentration-dependent killing Postantibiotic effect

failure, not metabolized



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