

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 entero- hepatic 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 concentra- tions in the absence of inflam- mation, metabolized in liver	

MACROLIDES/KETOLIDES

AZITHROMYCIN	longest t1/2		
	Advantages: less GI disturbances		
CLARITHROMYCIN	show cross-resistance with erythromycin		

ERYTHROMYCIN MOA: Interferes with aminoacyl translocation, preventing the transfer of the tRNA bound at

bances, less frequent dosing

the A site of the 50S rRNA complex to the P

Advantage: lower incidence of GI distur-

site of the rRNA complex

Destroyed by gastric acid and must be enteric

coated shortest t1/2

MACROLIDES/KETOLIDES (cont)

TELITH-Effective against macrolide-resistant organisms **ROMYCIN**

> 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 inflam-

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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ОТ	HERS		
CL	INDAMYCIN	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	
CH	ILORAMPHENICOL	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-DA-**LFOPRISTIN**

AE: venous irritation, athralgia and myalgia,

hyperbilirubinemia



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OXAZOLIDINONES

LINEZOLIDE PK: completely absorbed, widely distributed

throughout the body, excreted renally and non-re-

nally

AE: GI upset

AMINOGLYCOSIDES

STREPTOMYCIN 2nd line agent for the treatment of tuberculosis

in combination with other agents to prevent

emergence of resistance

AE: vestibular disturbances

Intrathecal **GENTAMICIN**

> 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-Synergistic effect against pseudomonas, LACTAM

proteus, enterobacter, klebsiella, serratia,

stenotrophomonas, and other gram negative rods that are resistant to multiple antibiotics

TOBRAMYCIN

Cautioned in pts with preexisting renal,

vestibular or hearing disorders

STREPTO+PCN Used for tuleremia and enterococcal carditis

KANAMYCIN Kanamycin-resistant strains may be cross-res-

(topical only) istant to amikacin

AMIKACIN Semisynthetic derivative of kanamycin, less

toxic

Indications: tx microorganisms resistant to

gentamicin and tobramycin

NEOMYCIN Indications: reduce the risk of infections during

(topical only) bowel surgery AMINOGLYCOSIDES (cont)

SPECTI-Indications: alternative treatment for drug-resistant

NOMYCIN 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), neurom-

uscular 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 failure, not metabolized

Used against aerobic gram negative bacilli Exhibit concentration-dependent killing

Postantibiotic effect



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