

OTHER B LACTAMS Cheat Sheet

by olkimmilo via cheatography.com/42456/cs/12779/

CEPHALOSPORINS

Indications Respiratory, UTI, skin/bone infections, septicemia,

gonorrhea, bacterial meningitis

AE Hypersensitivity, NVD, pain at IM injection site

1st GENERATION CEPHALOSPORINS

CEPHALEXIN

CEFAZOLIN Only 1st gen parenteral still used

Long T1/2

Surgical prophylaxis, UTI, SSTI

Act as penicillin G substitutes and have activity against Proteus mirabilis, E. coli, and Klebsiella pneumoniae (PEcK)

2ND GENENRATION CEPHALOSPORINS

CEFUROXIME

CEFOXITIN

CEFOTETAN AE: hypoprothrominemia, disulfiram-like rxns with

ethanol

CEFONICID

CEFAMANDOLE AE: hypoprothrominemia, disulfiram-like rxns with

ethanol

Indication: community-acquired infections of the respiratory tract (H. influenzae, Moraxella catarrhalis, S. pneumoniae) and UTI (Escherichia

3RD GENERATION CEPHALOSPORINI

CEFIXIME	Useful activity against B. fragilis
CEFDINIR	Useful activity against B. fragilis

CEFTAZIDIME

CEFOXATIME

CEFTRIAXONE Penetrate CNS and used to treat meningitis caused

by gram-negative rods except L. monocytogenes

Indication: Useful activity genital, anal, and pharyngeal penicillin-resistant N. gonorrhoeae

CEFOTAXIME Penetrate CNS and used to treat meningitis caused

by gram-negative rods except L. monocytogenes

CEFOPERAZONE AE: hypoprothrominemia, disulfiram-like rxns with

ethanol

Indications: Hospital-acquired gram-negative bacteremia

4TH GENERATION CEPHALOSPORIN

CEFIPIME Only one in the US, penetrates CNS

5TH GENERATION CEPHALOSPORIN

CEFTAROLINE

CEFTOBIPROLE metabolized in plasma, majority excreted in urine

CARBAPENEMS

DORIPENEM

IMIPINEM-CILASTIN Inactivated by dehydropeptidases in renal tubes

MEROPENEM

Greater activity against gram negative aerobes and less activity against gram positives compared

to imipenem

ERTAPENEM

Indications : infections resistant to other drugs, enterbacter infections, extended spectrum B lactam producing gram negatives

PK: penetrates CNS, cleared by kidney

MONOBACTAMS

AZTREONAM Indications: pts allergic to penicillins and/or

cephalosporins to treat pneumonia, meningitis, and

sepsis, penetrates CNS

No activity against gram-positive organisms

BACITRACIN (topical)

MOA Inhibits cell wall formation by interference with the dephosphorylation of the C55-isoprenyl pyrophosphate, a molecule that carries the building-blocks of the peptidoglycan

bacterial cell wall

Indica Highly nephrotoxic when administered systemically and is thus tions used topically for gram positive cocci and bacilli skin infections

CYCLOSERINE

MOA Structural analog of D-alanine and inhibits the incorporation

of D-alanine into peptidoglycan pentapeptide chain

Indications Treats tuberculosis

Toxicity Serious dose-related CNS toxicity



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Published 11th September, 2017. Last updated 11th September, 2017. Page 1 of 2. Sponsored by **ApolloPad.com**Everyone has a novel in them. Finish Yours! https://apollopad.com



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GLYCOPEPTIDES	
VANCOMYCIN	Resistance in enterococci develops due to modification in binding site (D-ala-D-ala D-lactate) and increased numbers of D-ala-D-ala residues (S. aureus) Effective against gram positive producing lactamases and those resistant to nafcillin and methacillin (MRSA, MRSE) or allergic to penicillin or cephalosporin
	репісінії ог серпаюзропії
	Indications: infections caused by MRSA (sepsis, endocarditis), penicillin-resistant enterococci, individuals with prosthetic heart valve, oral administration of antibiotic induced colitis due to C. diff
	SE: fever, chills, phlebitis
VANCO + GENT	Use: enterococcal endocarditis (penicillin allergy)
VANCO + CEFTRIAXONE VANCO + CEFOTAXIME VANCO + RIFAMPIN	Use: meningitis (penicillin-resistant strain of pneuomococcus
TELAVANCIN	Two mechanisms of action; first is the same as vancomycin and the second is it disrupts the bacterial cell membrane potential and increases membrane permeability
	t1/2 is 8 hours allowing for daily dosing
	Teratogenic

GLYCOPEPTIDES (cont)		
DAPTOMYCIN	Long half life of 6-11 days allows for weekly dosing Methicillin-susceptible and methicillin-resistant Streptococcus pneumoniae, Streptococcus pyogenes, Corynebacterium jeikeium, E. faecalis and E. faecium (including VRE)	
	Indications: skin infections and bacteremia caused by S. aureus	
	AE: constipation, nausea, HA, insomnia	
FOSFOMYCIN	MOA: inhibits UDP-N acetylglucosamine 3-Enolpyruvte transferase	
	Indications: UTI	



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