

# MCPIV DRUG LIST 1 Cheat Sheet

by olkimmilo via cheatography.com/42456/cs/12778/

B-LACTAMS	
PENICILLINS	
CARBAPENEMS	
CEPHALOSPORINS	
MONOBACTAMS	
GLYCOPEPTIDES	
Tetracyclines – impairs the bactericidal effects of B-lactams	

## PENICILLINS

MOA Bind to transpeptidases and block cross-linking of peptidoglycan residues resulting in weak cell walls and bacterial lysis in bacteria that are actively growing

PK Excreted really

Penetration into the eye, prostate, and CNS is poor, Absorption impaired by food-take 1-2 hrs before or after meal to prevent protein binding, acid inactivation

AE Hypersensitivity, anaphylaxis, super infections, diarrhea, convulsions (high dose, renal failure, epileptic pts), hematolgic toxicities, nephritis, cation toxicity

#### **PENICILLINS**

PENICILLIN G Unstable in acidic pH, given IV over IM

More active against gram-negative organisms (i.e.,

Neisseria) than penicillin V.

PENICILLIN V More resistant to acid

Penicillin G procaine and Penicillin G benzathine (i.m.) - formulated to delay absorption, resulting in prolonged blood and tissue concentrations.

ANTI-STAPHYLOCOCCAL PENICILLINS	
METHICILLIN	No longer used in US
NAFCILLIN	Excreted biliary
OXACILLIN	Excreted by kidney and biliary
DICLOXACILLIN	Excreted by kidney and biliary
CLOXACILLIN	Excreted by kidney and biliary
Indications: MSSA, MSSE, Bone, joint, urinary tract, skin, endocarditis, meningitis	

## AMINOPENICILLIN (EXTENDED-SPECTRUM)

AMPICILLIN UTI, sinusitis, otitis, lower respiratory tract infections

AMOXICILLIN

**Indications:** Respiratory infections, UTI, skin, bacterial meningitis, septicemia, endocarditis, GI infections (**typhoid fever**, dysentery)

More expensive

### ANTI-PSEUDOMONAL (UREIDO-PENICILLIN)

CARBENICILLIN No longer used in US
PIPERACILLIN Most potent

**TICARCILLIN** 

PIPERACILLIN-TAZOBACTAM

TICARCILLIN-CLAVULANIC ACID

**Indications**: Folliculitis, osteomyelitis, endocarditis, UTI, respiratory tract, wounds, bacteremia, CNS

Formulation of ticarcillin and piperacillin with  $\beta$ -lactamase inhibitors (formulation with clavulanic acid or tazobactum, respectively), extends the antimicrobial spectrum to include penicillinase-producing organisms

NOTES PENICILLINS		
PROBENICID	Increases serum levels of penicillins	
NAFCILLIN	Only one not excreted renally	
AMOXIC- ILLIN	Only one that doesn't undergo acid inactivation (absorption not impaired by food)	



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