

Antibiotic Study Guide & Cheat Sheet

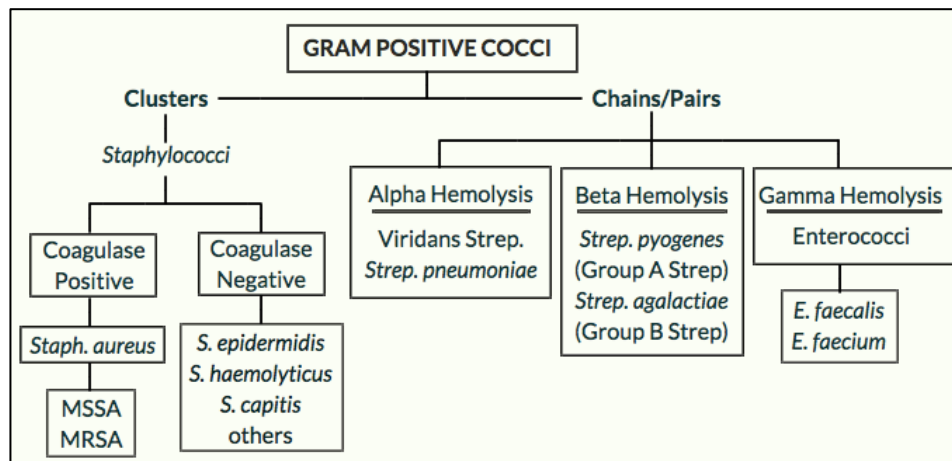


TRAINING

When You See...	Some drugs with activity...
MSSA	Oral: cephalexin dicloxacillin; IV: Oxacillin, nafcillin, ceftazolin
MRSA	Oral: SMX/TMP, doxycycline, clindamycin (+/-), linezolid, tedizolid; IV: vancomycin, daptomycin, telavancin, dalbavancin, oritavancin, ceftaroline
Enterococci	Ampicillin, then vancomycin, then linezolid (VRE), daptomycin (VRE), or tigecycline (VRE)
<i>Strep. pyogenes</i> or <i>Strep. agalactiae</i>	Penicillin, clindamycin
<i>Strep. pneumoniae</i> or Viridans Streptococci	Ceftriaxone, levofloxacin, (check for penicillin and macrolide resistance)
<i>Pseudomonas aeruginosa</i>	Oral: ciprofloxacin, levofloxacin; IV: piperacillin/tazobactam, ceftazidime, ceftazidime-avibactam, cefepime, ceftolozane-tazobactam, imipenem-cilastatin, meropenem, meropenem-vaborbactam, aztreonam, aminoglycosides, polymyxins
<i>Escherichia coli</i>	Oral: any oral cephs, amoxicillin-clavulanic acid, SMX/TMP, nitrofurantoin, fosfomycin, ciprofloxacin, levofloxacin; IV: ceftriaxone, ampicillin-sulbactam, cefepime, piperacillin-tazobactam, ertapenem
<i>Stenotrophomonas</i> sp	SMX/TMP, levofloxacin
ESBL+ Enterobacteriaceae	Carbapenems, ceftolozane-tazobactam, ceftazidime-avibactam, meropenem-vaborbactam, polymyxins, aminoglycosides, fosfomycin, fluoroquinolones
Carbapenem resistant	ESBL+ drug list minus carbapenems
Anaerobes	Oral: Metronidazole, clindamycin, amoxicillin-clavulanic acid, moxifloxacin; IV: ampicillin-sulbactam, piperacillin-tazobactam, cefoxitin, cefotetan, ertapenem, tigecycline
<i>Clostridium difficile</i>	Oral vancomycin or fidaxomicin, metronidazole (less preferred)
Atypicals	Macrolides, fluoroquinolones, tetracyclines
<i>Candida albicans</i>	Fluconazole
<i>Candida krusei</i>	Micafungin, anidulafungin, or caspofungin
<i>Aspergillus</i>	Voriconazole
CMV	PO: valganciclovir; IV: ganciclovir
HSV	PO: acyclovir, valacyclovir; IV: acyclovir
Cryptosporidium	Nitazoxanide

See This...	Think NOT for...
Daptomycin	Pneumonia
Tigecycline	Bacteremia or Pseudomonas
Linezolid	MRSA bacteremia
Cefepime	Anaerobes, Enterococci
Ertapenem	Acinetobacter, Pseudomonas, Enterococci - "APE"
Aztreonam	Gram positives
Aminoglycoside monotherapy	Non-UTI indication
Rifampin	Monotherapy
Micafungin	UTI or meningitis
Fluconazole	Candida krusei

With this...	Beware...
Beta-lactams	GI upset, seizures
SMX/TMP	Hyper-K+, allergy, myelosuppression
Fluoroquinolones	QT prolong, CNS effects, tendon rupture, peripheral neuropathy, binding cations
Aminoglycosides	Ototoxicity, nephrotoxicity
Macrolides	QT prolong
Tetracyclines	Phototox., esophagitis
Tigecycline	Nausea/ vomiting
Daptomycin	CK elevation
Linezolid	Thrombocytopenia, peripheral neuropathy, optic neuritis
Vancomycin	Nephrotoxicity
Rifampin	Hepatotoxicity, DDIs
Azoles	Hepatotoxicity, DDIs
Amphotericin B	Hypo-K, Hypo-Mg, infusion rxn, nephrotox



SPACE Bugs
 S- *Serratia*
 P- *Pseudomonas*
 A- *Acinetobacter*
 C- *Citrobacter*
 E- *Enterobacter*

Non-Fermenting GNRs
Burkholderia
Acinetobacter
Pseudomonas
Alcaligenes
Stenotrophomonas

MecA = methicillin resistance
VanA, VanB = vancomycin resistance
KPC = carbapenem resistance