

Cheatography

Bugs-Drugs Cheat Sheet

by Thomas Von Chao (chautommy93) via cheatography.com/178810/cs/42637/

Gram (+) Organisms

Cocci	Aerobic (Cluster)	↳ Staph. aureus ↳ Staph. epidermidis ↳ Staph. saprophyticus
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Aerobic (Pair/Chain)	↳ Strep. pneumoniae ↳ Strep. pyogenes (Grp A) ↳ Strep. agalactiae (Grp B) ↳ Viridans streptococci ↳ Enterococcus faecium ↳ Enterococcus faecalis
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Anaerobic	↳ Peptococcus ↳ Peptostreptococcus
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Bacilli	Aerobic	↳ Corynebacterium ↳ Listeria (facultative aerobic & anaerobic) ↳ Lactobacillus ↳ Gardnerella ↳ Bacillus
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Anaerobic	↳ Clostridium ↳ Lactobacillus ↳ Actinomyces ↳ Propionibacterium
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Gram-positive bacteria, identifiable by their thick cell walls staining purple, are targeted by antibiotics like penicillin, glycopeptides (e.g., vancomycin), and lipopeptides (e.g., daptomycin) that disrupt cell wall synthesis or membrane integrity, depending on the bacterium's resistance and infection site.

Pneumonia (PNA): Pathogens

Community-acquired PNA (CAP)	(+) Strep. pneumoniae (-) Haemophilus influenzae (-) Moraxella catarrhalis (A) Mycoplasma pneumoniae (A) Legionella species (A) Chlamydia pneumoniae
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Pneumonia (PNA): Pathogens (cont)

Hospital-acquired PNA (HAP)	(+) MRSA
Ventilator-acquired PNA (VAP)	(-) Pseudomonas aeruginosa (-) Acinetobacter species (-) Enterobacteriaceae family
Aspiration	(-) Enterobacteriaceae family (+/-) Anaerobic organisms

Pneumonia (PNA) is the infectious disease of the Lower Respiratory Tract. The 3 main routes of inoculation are inhaled, bloodstream, and aspiration.

Skin & Soft Tissue Infections (SSTI)

Cellulitis	Folliculitis Furuncles, Carbuncles, Abscesses	S. aureus is the most common cause
	Diffuse cellulitis (Erysipelas)	Group A Strep (GAS; S. pyogenes) is the most common cause
	Impetigo	Strep pyogenes -or- S. aureus are the most common cause
	Necrotizing SSTIs	Streptococcus pyogenes (GAS) Mixed infection (Gram +/- and anaerobes) Clostridium species

Diabetic Foot Infections	Begin as skin ulceration, can spread into deeper tissue and bone	S. aureus Strep species Enterobacteriaceae Anaerobes
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Surgical Site Infections	(Develop >48 hrs post-op)	Staph. aureus Strep species
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Immuno-compromised	HIV, hematology/oncology	Common or unusual bacteria
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Gram (-) Organisms

Bacilli	Anaerobic	↳ Bacteroides ↳ Prevotella ↳ Fusobacterium
Aerobic (Fermenters)	Enterobacteriaceae:	↳ Proteus ↳ E. coli ↳ Klebsiella ↳ Enterobacter ↳ Serratia ↳ Salmonella ↳ Shigella ↳ Citrobacter Other (Vibrio/Aeromonas)
Aerobic (Non-fermenters)		↳ Pseudomonas ↳ Acinetobacter ↳ Stenotrophomonas ↳ Burkholderia
Aerobic (Fastidium)		↳ Haemophilus influenzae ↳ Helicobacter pylori ↳ Campylobacter ↳ Bartonella ↳ HACEK group
Cocci		↳ Neisseria ↳ Moraxella

Urinary Tract Infections: Pathogens

Uncomplicated UTIs	(-) PEK (E. coli, Klebsiella pneumoniae, Proteus) (+) Enterococci (+) Staph. saprophyticus
Complicated UTIs	The above pathogens + MDR pathogens in those with frequent UTIs and nosocomial UTIs (S. aureus, Pseudomonas)

Urinary Tract Infections can be acquired via **Ascending** (urethral colonization with fecal flora) or **Descending** (bloodstream → kidneys).

Uncomplicated is defined as UTI in young, otherwise healthy females.

Complicated is defined as everyone else (e.g. Pyelonephritis, Prostatitis, Catheter/Nosocomial related UTIs, and Renal stones)

Gram-negative bacteria have thin cell walls with an outer membrane, staining red in the Gram stain process. They are treated with antibiotics such as aminoglycosides, cephalosporins, and fluoroquinolones, which target protein synthesis, cell wall synthesis, and DNA replication, adapting to their unique outer membrane and resistance mechanisms.



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