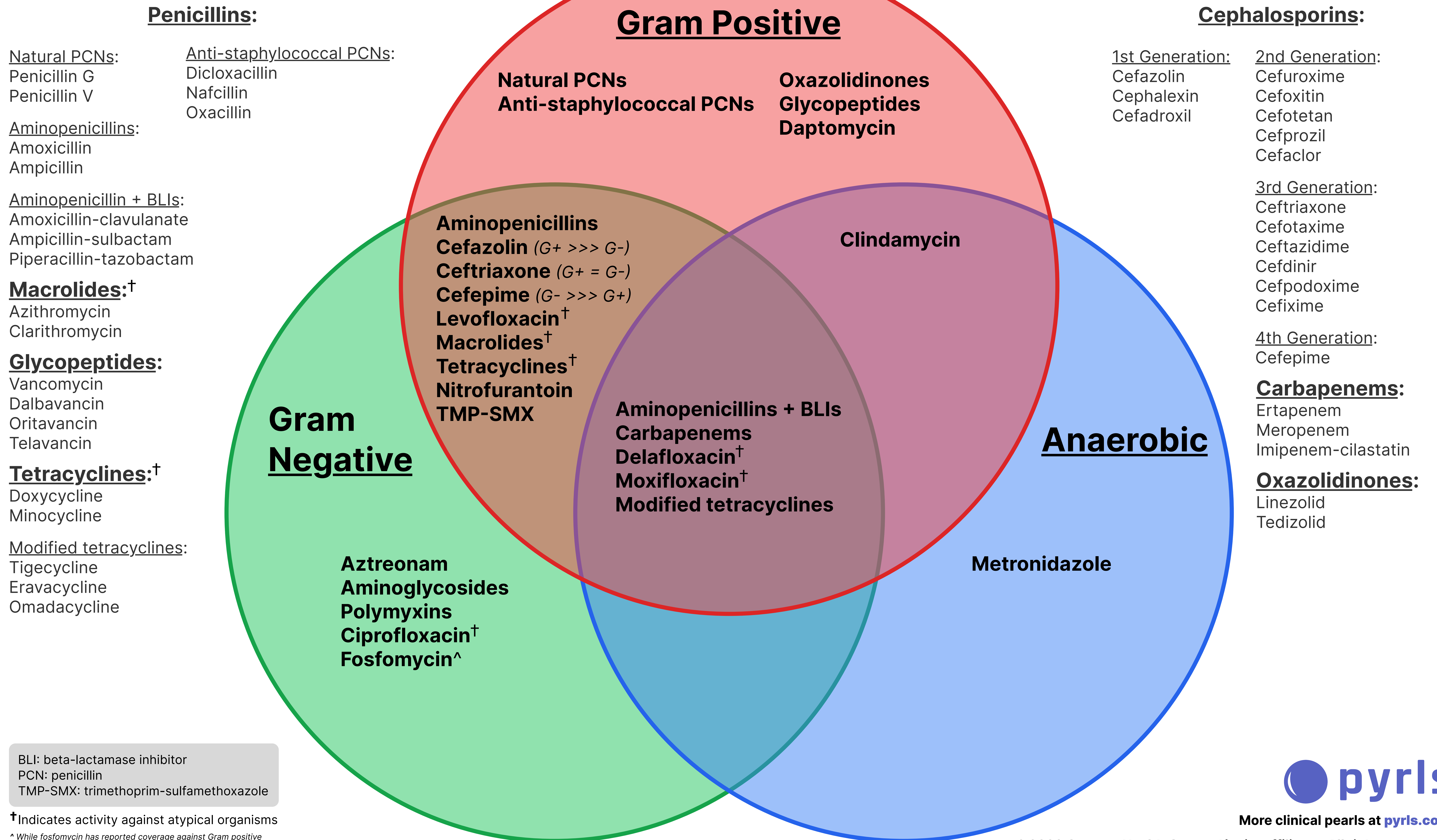


Antibiotic Spectrum of Activity: Venn Diagram

This visual representation provides a concise overview of the general coverage of various classes of antibiotics.
Please note that while this diagram offers valuable insights, it is not exhaustive and should be used as a quick reference rather than a comprehensive resource.



Antibiotic Spectrum of Activity

P. aeruginosa

Amikacin (<i>Amikin</i>)*	Delafloxacin (<i>Baxdela</i>)
Aztreonam (<i>Azactam</i>)	Imipenem-cilastatin (<i>Primaxin</i>)
Cefepime (<i>Maxipime</i>)	Imipenem-cilastatin-relebactam (<i>Recarbrio</i>)
Cefiderocol (<i>Fetroja</i>)	Levofloxacin (<i>Levaquin</i>)
Ceftazidime (<i>Fortaz</i>)	Meropenem (<i>Merrem</i>)
Ceftazidime-avibactam (<i>Avycaz</i>)	Meropenem-vaboractam (<i>Vabomere</i>)
Ceftolozane-tazobactam (<i>Zerbaxa</i>)	Piperacillin-tazobactam (<i>Zosyn</i>)
Ciprofloxacin (<i>Cipro</i>)	Polymyxin B
Colistimethate (<i>Coly-Mycin C</i>)	Tobramycin (<i>Tobi</i>)

MRSA

Ceftaroline (<i>Teflaro</i>)	Minocycline (<i>Minocin</i>)
Clindamycin (<i>Cleocin</i>)	Omadacycline (<i>Nuzyra</i>)**
Daptomycin (<i>Cubicin</i>)**	Oritavancin (<i>Kimyrsa, Orbactiv</i>)
Dalbavancin (<i>Dalvance</i>)	Tedizolid (<i>Sivextro</i>)**
Delafloxacin (<i>Baxdela</i>)	Telavancin (<i>Vibativ</i>)
Doxycycline (<i>Vibramycin</i>)	Tigecycline (<i>Tygacil</i>)**
Eravacycline (<i>Xerava</i>)**	TMP-SMX (<i>Bactrim, Bactrim DS</i>)
Linezolid (<i>Zyvox</i>)**	Vancomycin (<i>Vancocin</i>)

ESBL-E

Uncomplicated cystitis:
Nitrofurantoin, TMP-SMX, aminoglycosides^

Complicated UTIs or pyelonephritis:
TMP-SMX, ciprofloxacin or levofloxacin

Use carbapenem initially if a patient is critically ill or if resistance/toxicities prevent the use of TMP-SMX, ciprofloxacin or levofloxacin

Infections outside the urinary tract:
Meropenem, imipenem-cilastatin or ertapenem

CRE

Uncomplicated cystitis:
Nitrofurantoin, TMP-SMX, ciprofloxacin, levofloxacin, aminoglycosides^

<u>Complicated UTIs or pyelonephritis:</u> Ceftazidime-avibactam (<i>Avycaz</i>) Meropenem-vaboractam (<i>Vabomere</i>) Imipenem-cilastatin-relebactam (<i>Recarbrio</i>) Cefiderocol (<i>Fetroja</i>)	<u>Infections outside the urinary tract:</u> Ceftazidime-avibactam (<i>Avycaz</i>) Meropenem-vaboractam (<i>Vabomere</i>) Imipenem-cilastatin-relebactam (<i>Recarbrio</i>) Cefiderocol (<i>Fetroja</i>)
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TMP-SMX, ciprofloxacin or levofloxacin may be used if susceptibility is noted

CRE: carbapenem-resistant Enterobacterales

ESBL-E: extended-spectrum β -lactamase-producing Enterobacterales

VRE: vancomycin-resistant enterococci

* = breakpoints are limited to urinary isolates

** = expected activity against VRE

^ = for aminoglycosides single dose therapy is recommended



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