



Aa



Antibiotic spectrum

Drug spectra Uses
Dositoryan UTI

2) cycloserine

2nd line TB

3) Bacitracin

- *S. aureus nasal carriage*
- *Pseudomembranous colitis, endocarditis*

4) Glycopeptide
(Vancocin)

gram +ve

- *MRSA*
- *E. faecium*
- *fulminant P. colitis*

5) Penicillin G
(benzathine)

mainly gram +ve
spirochetes

- *Rheumatic fever prophylaxis*
- *Taws*
- *Leptospirosis*
- *Syphilis*
- *Rat bite fever*
- *gas gangrene*
- *streptococcus*
- *S. aureus*
- *meningococci*
- *gonococci*
- *actinomycosis*
- *anthrax*
- *tetanus*

6) Ampicillin, gram +ve like

moderate



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67 Ampicillin, amoxicillin

- gram +ve like penicillin
- gram -ve -
 - *Salmonella*, *Shigella*
 - *H. influenzae*
 - *E. coli*, *proteus*.
 - *H. pylori*

moderate

VTI - *E. coli*, *proteus*
 GIT - *salmonella*,
shigella
E. faecalis

Resp - *H. influenzae*
Pneumococcus

Severe

endocarditis
bacteremia
Listeria
meningitis - *H. influ.*
meningococci

7) Carbapenem Ticarcillin Piperacillin

- gram +ve
 gram -ve
 + *Pseudomonas*

severe gram -ve
disease

8) 1st Gen - cephalosporin

- cefadroxil
- cefalexine
- cefazoline***
- cefazidime***

gram +ve ↑↑↑
 gram -ve ↑
 aerobs
 X gram -ve
 anaerobs

VTI, cellulitis,
 mastitis
 (mild)

surgical prophyl

9) 2nd gen - cephalosporin

gram +ve ↑↑
 gram -ve ↑↑
 aerobs
 anaerobs

H. influenzae,
moraxella,
Pneumococci



Aa



q) 2nd gen
cephalosporin
cefuroxime

ceftetan
cefoxitin
cefaclor
ciprofloxacin

gram+ve \uparrow
gram-ve \uparrow
aerobs
anaerobs
gram+ve aerobs
gram+ve anaerobs

H. influenzae,
moraxella,
pneumococci
otitis media,
sinusitis,
pneumonia

surgical pro-
colorectal surger

PID
diverticulitis
peritonitis
lung abscess
(not Doc)

lo) 3rd gen
cephalosporin

ceftazidime
ceftriazone
cefpiprazone
cefixime - Doc - oral typhoid
ceftazidime

gram-ve
aerobs.

Doc

Typhoid
E. coli
Klebsiella
meningitis
(except listeria)
Gonorrhoea
Providencia
most gram-ve
aerobs except
Pseudomonas,
Proteus, serovaria

Doc

Pseudomonas,
melioidosis, febrile
neutropenia

eftazolone/ceftazidime + cibactam - complicated
abdominal infection

ll) 4th gen

gram-ve \uparrow



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Cefazolone/ ceftazidime + cibactam - Complicated abdominal infectn

- 11) 4th gen
cephalosporin
cefpirome
cefpime

gram-ve
(> ceftazidime)
+ pseudomonas

- 12) 5th gen
cephalosporin
ceftazidime
ceftriaxone

gram-ve MRSA
(> ceftazidime)

- 13) Carbapenem
Imipenem

all
(most wide spectrum)

- Doripenem
Meropenem
Ftazepenem

Serratia
acinetobacter
enterobacter
pseudomonas

PID, lung abscess,
diverticulitis.

- 14) Monobactam -
Aztreonam

gram-ve
only

penicillin allergy
gram-ve infed

- 15) Polymyxin

gram-ve
aerob

skin infectn
topical

- B
E/colistin

MDR- klebsiella,
pseudomonas,
enterobacter



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16) Daptomycin

gram +ve
(*Staphylococcus*
Enterococcus)

VRSA

VRE

(except pulmo
neph)

17) Tetracycline

- Doxycycline

gram +ve &
most gram -ve
except
Proteus
Pseudomonas
Providencia
enterobactere
acinetobactere

Mycoplasma hominis

Rickettsia

Chlamydia (STD)

cholera

Borrelia

Brucella

Plague prophylaxis

Pleuroderis

Pericarditis

syphilis

malaria

filaria

anthrax

SIADH

atypical pneumonia

Minocycline → *leprosy, acne*

Demeclocycline

Tetacycline

not used
in VTI, bacteremia,
meningitis

(↓ conc. in urine
& blood)

used in resistant
gram +ve & gram -ve
cases

18) Aminoglycoside

Streptomycin

Tobramycin

gram -ve
aerobs

plague

tularemia



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18) Aminoglycoside

Streptomycin

Tobramycin

Amikacin

Gentamicin

Paromomycin → malaria

Neomycin

Plazomicin ↓ gut

VTI

sterilization in
hepatic encephalopathygram -ve
aerobs

plague

tularemia

add on drug Ccell wall synthesis
inhibitors for
pseudomonas
enterobactere
Klebsiellaadd on forenterococcal
endocarditis2nd line TB

19) Macrolides

Erythromycin

Clarithromycin

Azithromycin

Telithromycin

gram +ve
(like penicillin)
few
gram -vepertussis
Diphtheria
R. fever prophylaxis
in penicillin
allergy{ leprosy
TB
MACCampylobacter
cholera in children
chlamydia & cholera
in pregnant
atypical pneumonia
↳ mycoplasma, legionella
chlamydia



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18) Oxytetracyclines

Linezolid

Tidezolid

VRSA } Pneumonia
VRE }

TB

19) Streptogramin

Daptomycin + Quinupristin

reserved drug
forVRSA
MRSA
VRE

20) Clindamycin

lincosamide

not active
against gram-ve
aerobsToxic shock sx
diaphragmatic
anaerobic
infectn
osteomyelitis

21) Chloramphenicol

Resistant Rickettsia

22) Pleuromutilins

Ritamulin

skin infectn

Defamulin

pneumococcus
(gram-ve)
H. influenzae.
Klebsiella→ resistant
CAP

23) Fidaxomicin

Pseudomembranous
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23) Fidaxomycin

Pseudomembranous colitis

24) Mupirocin

MRSA nasal carriage

25) Rifamixin

gut sterilization

26) Sulfonamides

- sulfadiazine

sulfoxazole

Sulfamethoxazole

sulfadoxin

gram +ve aerobes.

gram -ve aerobes

except

Rickettsia
Pseudomonas
not against
anaerobes

malaria

toxoplasma

burn pt.

27) Cotrimoxazole

(Trimethoprim +

sulfamethoxazole

cystitis

prostatis

nocardiosis

pneumocystis

tssporiasis

cyclosporiasis

28) Nalidixic acid

gram -ve

VTI

traveller's diarrhoea

29) Fluoroquinolones

Ciprofloxacin

wide

traveller's diarrhoea

anthrax

cholera

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29) Fluoroquinolones

wide

Ciprofloxacin

traveller's diarrhoea

anthrax

typhoid carriers

mass prophylaxis
of meningococci

pyelonephritis

TB

Moxifloxacin
Gatifloxacin
Levofloxacin) resp.
Pseudomonas
H. influenzae
Klebsiella
mycoplasma, chlamydia.
legionellaPneumonia
first line
drug

30) Methanamine

VTF

31) Nitrofurantoin

VTF