# Cheatography

## Patho/pharm quiz 2 Cheat Sheet by Tblue1132 via cheatography.com/93559/cs/20648/

#### Anti Microbial Drugs Names

Penicillins

Cephalosporins

Macrolides

Fluoroquinolones

Glycopeptide Antibiotic

Sulfonamides and Trimethoprim

## Penicilins

## Drug Name

Penicillin G, Penicillin V, Amoxicillin, Ampicillin

## Common Name

Almost all end in "cillin"

## Indications (why we use the drug)

Pneumonia Meningitis Endocarditis Pharyngitis Syphilis Prophylaxis- against bacterial endocarditis in at-risk clients prior to dental procedures

## Potential Side Effects

Diarrhea, epigastric distress, nausea, vomiting, rash, pain at IM injection site, phlebitis at IV injection site

## Life threatening Side Effects

Allergic reaction(anaphylaxisis) amoxicillin specific : seizures (high doses), clostridium difficile (CDIF) assoc. diarrhea

## Penicilins (cont)

## **Nursing Implications**

-Ask about allergies to penicillins -monitor for allergic reaction assess for infection before and after therapy -obtain specimen for culture BEFORE therapy -monitor for bowl function for CDIF and report to PCP -monitor kidney function(nephrotic) -if PT is taking PO(by mouth)penicillins advise PT to take with food and finish entire course of antibiotic , even if symptoms are resolved mechanism of action

Binds to bacterial cell wall membrane, causing a cell death . Known as "beta-lactam"

## Notes

1<sup>st</sup> class if antibiotics high levels of antibiotic resistance to early penicillins

## Fluoroquinolines

## Drug Names

Ciprofloxacin Ofloxacin Moxifloxacin Levofloxacin Norfloxacin

## Name Commonality

Almost all end in "oxacin"

## Fluoroquinolines (cont)

## Indication

-UTI -respiratory infections -GI tract infections -Infections of bones, joints, skin, soft tissues -Anthrax prophylaxis in those that have inhaled anthrax spores

## Potential Side Effects

Dizziness, headache, insomnia, diarrhea, nausea, Achilles' tendon rupture, phototoxicity (severe sunburn)

## Life threatening Side Effects

Elevated intracranial pressure(ICP) seizures suicidal thoughts hepatoxicity Clostriudim Difficule (CDIF) assoc. diarrhea hypersensitivity reaction SJS Torsade de Pointes

## Nursling Implications

-Monitor for allergic reaction -Assess for infection before and after therapy -Obtain specimen for culture before therapy -Monitor for skin rash and SJS -Monitor bowel function for CDIF assoc. diarrhea -Advise PT to observe and report swelling, pain, or inflammation at Achilles' tendon side and to stop taking med -Teach PT to avoid prolonged sun exposure

## Mechanism of Action

Inhibit enzymes necessary for bacterial DNA replication (DNA gyrase and topoisomerase IV)

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## Cephalosporins

#### **Drug Name**

1<sup>st</sup> gen: Cephalexin 2<sup>nd</sup> gen: Cefaclor 3<sup>rd</sup> gen:Ceftraixone 4<sup>th</sup> gen: Cefepime 5<sup>th</sup> gen: Ceftaroline

#### Name Commonaility

All start with "cef"

#### Indications

Note: dependent on generation -skin and skin structure infections -bone and joint infections -complicated and uncomplicated UTIs -Gynecological infections -lower respiratory tract infections - intra-abdominal infections -septicemia -meningitis -Otitis Media -Perioperative (surgery) prophylaxis

## Potential Side Effects

Pain at IM injection site phlebitis at IV injection site rash

## Life threatening Side Effects

Seizures(at high doses), CDIF associated diarrhea, allergic reaction (anaphylaxis), SJS(Steven-Johnson Syndrome)



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**Cephalosporins (cont)** 

#### **Nursing Implications**

-Ask about Allergies both Cephalosporins and Penicillins -monitor for allergic reactions -assess for infection before and after therapy -Obtain specimen for culture before therapy -Monitor bowel fucntion for CDIF assoc. diarrhea -Monitor for skin rash frequently and discontinue at 1<sup>st</sup> sign of use(SJS) -Monitor for kidney fucntion(nephrotic)

## Mechanism of Action

Bind to the bacterial cell wall membrane causing cell death . (Aka beta-lactam)

Note: each generation is likely to reach cerebrospinal fluid(CSF), less susceptible to antibiotic resistance and more effective against gram-negative organisms.

Common-class because they are broad-spectrum , well tolerated, and easy to administer.

## Sulfonamides & Trimethoprim

#### **Drug Names**

Trimethoprim-sulfamethoxazole Sulfadiazine Trimethoprim

#### Name Commonailty

## N/A

## Indications -UTI -Otitis Media -Chancroid

- -Pertussis (Whooping cough) -
- -Shingellosis
- -Pneumocystic jirovecii pneumonia
- -Bronchitis

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#### Sulfonamides & Trimethoprim (cont)

#### **Potential Side Effects**

Nausea, vomiting, rash, phlebitis

## Life threatening Side Effects

CDIF assoc diarrhea Hepatic Necrosis erythema multiforme toxic epidermal necrolysis Agranulocytosis Aplastic Anemia Hypersensitivity reaction SJS

## Nursing Implications

- -Assess for infection before and after therapy
  -Obtain Specimen for culture before therapy
  -Monitor IV site closely
  -Monitor for allergic reaction
  -Do not administer to PT w/ allergy to sulfa drugs, thiazide diuretics, loop diuretics, solfonylurea-type oral hypoglycemics(glipizide)
  -Assess for rash and stop at sign of SJS
  -Encourage liberal fluid intake
- -Monitor urine output

-DO NOT give to women who are pregnant or breastfeeding, or to infants younger than 2 months

-Monitor K+ levels (hyperkalemia) -Obtain regular CBC to monitor for hematologic disorders {{nl} -Monitor bowel fucntion for CDIF assoc diarrhea and provide to PCP

#### Mechanism of Action

Inhibits bacterial growth by stopping synthesis of tetrahydrofolate, which is essential for DNA, RNA, and protein production

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## Macrolides

#### **Drug Name**

Erythromycin Azithromycin Clarithromycin

## Name Commonalitiy

Almost all end in "mycin"

#### Indications

Alternative for PTs who have a penicillin
allergy
Legionnaries' Disease
Pertuesis(whooping cough) and other
respiratory infections
acute diphtheria
chlamydial infections
Pneumonia (due to Mycoplasma
pneumoniae)
Streptococcal infections

## Potential Side Effects

Abdominal Pain Diarrhea Nausea Vomitting

## Life-Threatening Side Effects

Ventricular arrhythmias Torases de Pointes Hepatoxicicity CDIF assoc. diarrhea acute generalized exanthermatous pustulosis drug reaction with eosinophilia and systemic symptoms(DRESS) SJS toxic epidermal necrolysis

## Macrolides (cont)

## **Nursing Implications**

-Monitor for allergic reactions -Assess for infection before and after therapy -Obtain specimen for culture before therapy -Monitor for skin rash frequently and discontinue at first sign of SJS -May cause increase in certain labs (serum bilirubin, AST, ALT, LDH, alkaline phophatase) -administer with meals -monitor for CDIF assoc. diarrhea and report to PCP -monitor for ototoxicity -monitor for dysrhythmias -Erythromycin inhibits metabolism if antihistamines, theophylline, Carbamazepine, warfarin, and digoxin

## Mechanism of Action

Inhibits bacterial protein synthesis

## **Glycopeptide Antibiotic**

## Drug Names

Vancomycin

## Name Commonality

N/A

## Glycopeptide Antibiotic (cont)

#### indications

Treatment of potential life-threatening infections when less toxic antiFestive are contraindicated
Particularly useful in staphylococcal infections (MRSA, methicillin resistant staphylococcus aureus)
Endocarditis
Meningitis
Pneumonia
Septicemia
Soft tissue infections in Pt who have allergies to penicillins or infections w/penicillin resistance

## Potential Side Effects

Nephrotoxicity, phlebitis, Nausea, Vomitting, Hypotension, Ototoxicity

## Life Threatening Side Effects

Hypersensitivity reaction(Anaphylaxis)

## **Nursing Implications**

-Assess for infection before and after therapy

-Obtain specimen for culture before therapy

-Monitor IV site closely (vanxomycin very irritating) and rotate infusion site -Monitor BP during therapy for hypotension

-Monitor for otoxcicity (toxic to ear and auditory nerve)

-Monitor for nephrotoxicity

-Monitor for allergic reaction

## Mechanism of Action

Binds to bacterial cell wall, resulting in cell death

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