

ACTIVE LEARNING TEMPLATE: Medication

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REVIEW MODULE CHAPTER _____

MEDICATION Cefazolin

CATEGORY CLASS Antibiotics

PURPOSE OF MEDICATION

Expected Pharmacological Action

• Binds to bacterial cell wall membrane causing cell death

Therapeutic Use

• Bactericidal action against susceptible bacteria

Complications

DERM: rash, SJS, hives GI: diarrhea, N/V, CDAD cramps
HEMAT: leukopenia, neutropenia, thrombocytopenia LOCAL: pain at IM site, phlebitis at IV site NEURO: seizures (↑ dose)
MISC: anaphylaxis, superinfection

Medication Administration

IM/IV (Adults): 300mg - 1g
Q 6-8 hrs

IV Adults < 20kg: prep prophylaxis
3g with 30-60 mins prior to incision
add 300mg-1g surgically > 2 hrs
< 20kg: 1-2g →

Contraindications/Precautions

• hypersensitivity to cephalosporins and penicillins

USE CAUTIOUSLY in: Renal impairment, Hx of GI disease (esp. colitis), renal/hepatic impairment, prior nutritional state, extended antibiotic use or prev. stabilized on anticoagulant
Dose: dose adjustment due to age-related ↓ in renal fx

Nursing Interventions

• Assess vitals
• Monitor IV site freq for pain, redness, swelling
• Change sites every 48-72 hr
• Dilute w/ sterile water for injections
Admin slowly over 3-5 min
• Hx of prev rx, specimen culture

Interactions

Drug-Drug: ↓ excretion and ↑ levels of renally excreted cephalosporins (antibiotic derived from mold)
may potentiate effects of anticoagulants ↑ risk of bleeding

Client Education

• Explain purpose / side effects
• Notify of all medications
• Advise to report signs of superinfections (furry or white patches on tongue, vaginal itching / discharge, loose stool, small stools) and allergy
• Notify HCP of fever, rash, diarrhea, certain blood, mucus, pus

Evaluation of Medication Effectiveness

• Bactericidal action against susceptible bacteria