

ACTIVE LEARNING TEMPLATE: Medication

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MEDICATION Levofloxacin

REVIEW MODULE CHAPTER _____

CATEGORY CLASS Antibiotic

PURPOSE OF MEDICATION

Expected Pharmacological Action

inhibits DNA enzyme gyrase in susceptible microorganisms, interfering with bacterial cell replication, repair

Therapeutic Use

bactericidal: tx of bacterial infections, acute exacerbation of chronic bronchitis, sinusitis, CA PNA, nosocomial PNA, UTI, pyelonephritis, skin structure infections, prostatitis, inhalation anthrax, plague

Complications

Side Effects: diarrhea, nausea, abd pain, dizziness, drowsiness, HA, ophthalmic: local burning, margin crusting, itching, altered taste

Adverse Effects: abx associated colitis, other superinfections (from altered bacterial balance in GI tract), photosensitivity, tendonitis, tendon rupture, peripheral neuropathy, CNS effects, may exacerbate muscle weakness in pts with myasthenia gravis

Medication Administration

PO: 250mg, 500mg, 750mg
*do not admin antacids, sucralfate, iron, or multivitamin w zinc w/i 2hrs of admin

IV: 250mg/50mL, 500mg/100mL, 750mg/150mL
*admin no less than 60 min for 250/500mg, 90 min for 750mg

*usual for IV/PO = 250-750mg q24h

Contraindications/Precautions

Contraindications: hypersensitivity to levofloxacin & other fluoroquinolones

Cautions: CNS disorders, seizure disorder, renal impairment, bradycardia, RA, elderly myasthenia gravis, cerebral arteriosclerosis, pt @ risk for QT interval prolongation, diabetes, risk for tendon rupture, tendonitis

Nursing Interventions

- receive full med hx
- obtain baseline ECG
- monitor serum glucose, renal fx, LFT, daily pattern of BM/consistency
- be alert for hypersensitivity rxn/superinfection
- monitor for muscle weakness, pain, swelling, bruising, popping of tendons

Interactions

Drug: may dec effect of BCG, antacids/sucralfate/zinc dec absorption, NSAIDs inc risk of CNS stimulation/seizures, meds that prolong QT interval may inc risk of arrhythmias, may inc anticoag effect of warfarin

Lab: may alter serum glucose

Client Education

- *essential to complete drug tx regimen despite sx improvement
- report episodes of diarrhea, abd pain, fever, blood streaked stool, severe allergix rxn, tendon inflammation/swelling, NS problems
- tx may cause heart problems such as palpitations
- do not take aluminum/Mg containing antacids, multivitamins, zinc or iron products at least 2 hrs before or 6 hrs after dose
- drink plenty of fluids

Evaluation of Medication Effectiveness

reduced infection and accompanying sx w/o causing adverse effects, negative bacterial culture