

# Quinolone Antibiotics

## Facts About Ciprofloxacin

1. **Excellent Gram - coverage**
2. **Unreliable Staph, Strep, Enterococci coverage**
  - a. consider combining with another antibiotic for Gram + coverage
3. **Adverse Reactions**
  - a. photosensitivity
  - b. Avoid theophylline and caffeine
  - c. antacids and iron supplements reduce the absorption of Cipro
  - d. Tendinopathies/tendon rupture
  - e. Neuropathy
  - f. Cardiac side effects -- QT interval
4. **Similar IV and PO bioavailability**
5. **Cipro + Clindamycin (Gram + coverage) and potentially Metronidazole (anaerobic coverage) are commonly used together in diabetic foot infections**

# Spectrum of Coverage

## 1. Ciprofloxacin

- a. Aerobic, gram-negative bacilli
- b. Enterobacteriaceae (E. coli, Klebsiella, Proteus)
- c. Excellent coverage of pseudomonas
- d. Limited to no activity against Gram + organisms

## 2. Levofloxacin

- a. activity against Gram + organisms
  - i. Strep, Staph, some coag-negative Staph
- b. Some coverage against Gram - bacilli including Pseudomonas

## 3. Moxifloxacin

- a. Activity against Gram + organisms
- b. Reduced, but still some activity against Gram-bacilli
- c. Less active against Pseudomonas than Cipro or Levaquin

## 4. Delafloxacin

- a. Activity against Gram + organisms
- b. Reduced activity against Gram - organisms
- c. only quinolone that covers MRSA