



Antibiotics for the Management of Endodontic Infections

Efficacy of Antibiotics

- Ability to reach site of infection
- Concentration of antimicrobial (MIC)
- Susceptible vs. resistant bacteria
- Immune response of the host

Conditions NOT requiring antibiotics

- Symptomatic pulpitis
- Symptomatic periodontitis
- Localized fluctuant swelling

Indications for Adjunctive Antibiotics

Systemic Involvement

- Fever > 100 degrees F
- Malaise
- Lymphadenopathy
- Trismus

1st Line - Empiric Antibiotic Therapy

- Pen VK 500 mg q4-6h (1000 mg loading dose)
- Amoxicillin 500 mg q8h (1000 mg loading dose)
- Augmentin 500 mg q8h (1000 mg loading dose)
- Clarithromycin (Biaxin) 250-500 mg q12h (500 mg loading dose)

2nd Line - Empiric Antibiotic Therapy

- Add Metronidazole (Flagyl) 500 mg q6h (1000 mg loading dose) to Pen VK 500 mg q6h

or change to:

- Clindamycin (Cleocin) 300 mg q6h 600 mg loading dose

Antibiotic Prophylaxis: Dental extractions, periodontal procedures, placement of biomimetics, endodontic surgery, initial placement of ortho bands, intraligamentary local anaesthetic injections, prophylactic cleaning

Situation

Standard prophylaxis
 Can't take oral meds
 Allergic to penicillin

Agent

Amoxicillin
Ampicillin
Clindamycin
Biaxin
Clindamycin

Regimen

2.0 gm orally 1h before procedure
 2.0 gm IM 30 mins prior to procedure
 600 mg orally 1 h before procedure
 500 mg orally 1 h before procedure
 600 mg IV 30 mins prior to procedure

Allergy to Pen
 Can't take oral meds