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**Antimicrobial Primer:
Things That Bug Us**

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Disclosures: Tracy Offerdahl, PharmD

- Dr. Offerdahl has the following financial disclosure:
 - Boiron: honorarium, webinar/speaker
- Has not received any assistance from any commercial interest in the development of this course


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Indications for Oral Antibiotics

- ✓ Hordeolum
- ✓ Preseptal cellulitis
- ✓ Dacryocystitis
- ✓ Conjunctivitis
 - Chlamydia
 - Gonococcal
- ✓ Blepharitis
- ✓ Bacterial keratitis
- ✓ Endophthalmitis



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Antibacterial Resistance Issues 

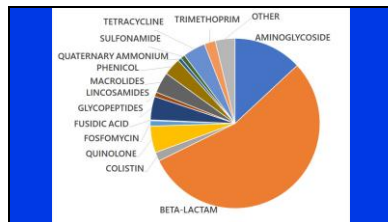
- ~ Bacteria, viruses, yeasts, etc. are able to exert resistance in many different ways!
- ~ Issues: over-use and inappropriate use of antimicrobial agents, incomplete use of a regimen (ie. Patient only takes 5 days of the antibiotic when they were supposed to take it for 10 days), choosing agents that are more broad than needed!
- ~ Common issues in optometry: beta-lactamase producing organisms!

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Amoxicillin + Clavulanate (Augmentin)

- ~ **Uber Amoxicillin!**
- ~ Works to eradicate beta-lactamase producing organisms (*Haemophilus influenzae*) as well as *Streptococcus pneumoniae* (at high doses), *Strep pyogenes* and non-resistant *Staph aureus*
- ~ 12 weeks old and older
- ~ Safe in pregnancy...category B and ok in breastfeeding
- ~ Watch for PCN allergies
- ~ Adults: 250, 500 and 875 mg
 - * Dose of clavulanate varies
- ~ Children < 100 pounds, oral suspension 25-45 mg/kg divided into two doses

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Cephalexin (Keflex)-1st Generation Ceph

- ~ Cross reaction with PCN sensitive patients – 3-10%... But some practitioners use it for QUESTIONABLE PCN allergic patients
- ~ Works to eradicate *Streptococcus pneumoniae* (at high doses) and non-resistant *Staph aureus*
 - * moderately effective against beta-lactamase producing organisms
- ~ Available in 250 and 500 mg
- ~ Category B pregnancy and ok in breastfeeding
- ~ Adult: typically, 500 mg bid x 1 week
- ~ FYI... Drug of choice for blow out fractures

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Cephalosporins: CLINICAL USES

First	Second	Third
Cephalexin (Keflex) Soft tissue/infect Not with MRSA	Cefuroxime (Cefix) Lyme, Gonorrhea, Infectio	Ceftriaxone (Rocephin) DOC Gonorrhea

Better Gram (-) coverage in higher generations

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