PREVENTION OF INFECTIVE ENDOCARDITIS

Modified recommendations by the American Heart Association (Circulation 2007; 115: &NA;–)

Who requires Infective Endocarditis (IE) prophylaxis?

Patients with a:

1. Prosthetic cardiac valve
2. Previous endocarditis even in the absence of underlying heart disease.
3. Congenital Heart Disease (CHD), with one of the following conditions:
   a. Unrepaired or incompletely repaired cyanotic (blue) heart disease including shunts and conduits
   b. Completely repaired CHD with prosthetic material or device (placed by surgery or catheter intervention) during the first 6 months after procedure (to place prosthetic material)
   c. Repaired CHD with residual defects at the site or adjacent to prosthetic patch or device
4. Cardiac transplant recipients who develop transplant valvulopathy

What procedures are indications for IE prophylaxis?

1. Dental procedures likely to involve manipulation of the gingival tissue or the periapical region of teeth or perforation of the oral mucosa.
2. Respiratory procedures involving incision or biopsy of the respiratory mucosa such as tonsillectomy, adenoidectomy.
3. Infected tissue Incision and drainage of infected tissue.

What procedures DO NOT require IE prophylaxis?

1. Dental Procedures that IE Prophylaxis is NOT recommended:
   a. Anesthetic injection in non-infected tissue
   b. Placement of removable orthodontic appliances
   c. Adjustment of orthodontic appliances
   d. Placement of orthodontic brackets
   e. Shedding of deciduous teeth
   f. Bleeding from trauma to the lips or oral mucosa
2. Respiratory procedures that IE prophylaxis is NOT recommended:
   a. Bronchoscopy without biopsy
   b. Endotracheal intubation
   c. Myringotomy with tube insertion (PET’s)
3. ALL gastrointestinal or genitourinary procedures
   a. Including esophagogastroduodenoscopy (EGD) or colonoscopy even if biopsy performed
4. Other situations that IE prophylaxis is NOT recommended
   a. Ear and body piercing, tattoos
   b. Vaginal delivery or hysterectomy

Regimen for IE Prophylaxis

Single dose 30-60 minutes before procedure, complete dose within 30 minutes of starting the procedure.

1. Standard – Not allergic to penicillin:
   - Amoxicillin
     - Oral
     - Child*: 50 mg/kg
     - Adult (max child dose): 2 gm
   - Ampicillin
     - IV or IM
     - Child*: 50 mg/kg
     - Adult (max child dose): 2 gm
   - Cefazolin/ceftriaxone
     - IV or IM
     - Child*: 50 mg/kg
     - Adult (max child dose): 1 gm

2. Penicillin allergy
   - Clindamycin
     - Oral
     - Child*: 20 mg/kg
     - Adult (max child dose): 600 mg
   - Cephalaxin
     - Oral
     - Child*: 50 mg/kg
     - Adult (max child dose): 2 gm
   - Azithromycin/Clarithro
     - Oral
     - Child*: 15 mg/kg
     - Adult (max child dose): 500 mg
   - Cefazolin/ceftriaxone
     - IV/IM
     - Child*: 50 mg/kg
     - Adult (max child dose): 1 gm
   - Clindamycin
     - IV/IM
     - Child*: 20 mg/kg
     - Adult (max child dose): 600 mg

*Maximum Child Dose = Adult Dose

If you have questions, please call (412) 692-5759