

### As of 2004, every year in the US...

- 14.2 million colonoscopies,
- 2.8 million flexible sigmoidoscopies,
- As many EGD's,
- 25 cases of Infectious endocarditis-temporal association.

Seeff LC et al., How many endoscopies are performed for colorectal cancer screening? Results from CDC's survey of endoscopic capacity. Gastroenterology 2004;127:1670-7.

## Procedures with highest rate of bacteremia...

- 1. Esophageal dilatation 12% 22% in 3 prospective trials.
- 2. Sclerotherapy of varices mean of 14.6%
- 3. Variceal ligation mean of 8.8%
- 4. ERCP without obstruction of the CBD 6.3%
- 5. ERCP with obstruction of CBD 18%
- 6. EGD and colonoscopy mean of 4.4%

## Patient's daily activities...

- 1. Brushing and flossing 20% 68%
- 2. Use of a toothpick 20% 40%
- 3. Chewing food 7% 51%

## AHA Guidelines (2007)

Prophylactic antibiotics solely to prevent IE was no longer recommended for patients undergoing GI Endoscopy.

## AHA – Highest risk for IE included in the following patients:

- 1. Prosthetic cardiac valves.
- 2. History of IE.
- 3. Cardiac transplant patients with valvulopathy.
- 4. Congenital heart disease (CHD) with unrepaired cyanotic defects and repaired CHD with prosthetic devices for 6 months.

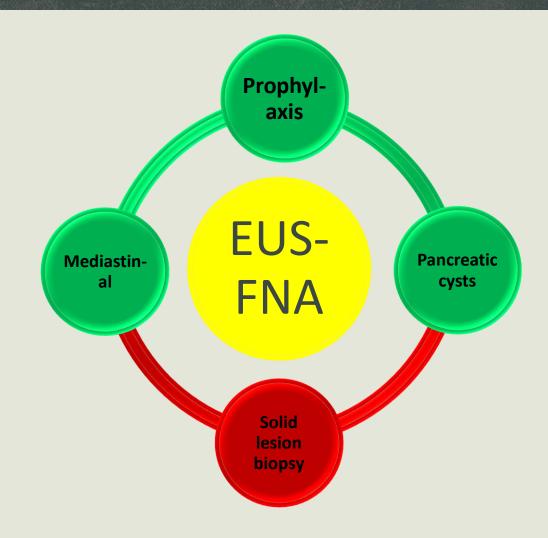
RECOMMENDATION – Antibiotic prophylaxis for GI procedures <u>if</u> there's active enterococci infection of the GI tract.

#### ERCPs..

- ERCP without cholangitis or CBD obstruction –
   no antibiotics
- ERCP with cholangitis and/or CBD obstruction –antibiotics

#### EUS-FNAs...

- EUS-FNA for solid lesion biopsy no prophylaxis
- EUS-FNA for mediastinal or pancreatic cysts – suggested prophylaxis



# Situations in which prophylaxis is recommended:

- 1. Percutaneous endoscopic gastrostomy (PEG) tubes
- 2. Cirrhosis with GI bleeding

Prophylaxis





Percutaneous
Endoscopic Gastrostomy
(GEP)

Cirrhosis w/ GI bleeding

## Maybe?

- 1. Neutropenia (<500 cells/uL absolute neutrophil count) if undergoing GI procedure with high risk for bacteremia.
- 2. Immunocompromised status with normal neutrophil count judgement call.
- 3. Peritoneal dialysis prophylaxis may prevent peritonitis.

#### **NEVER Recommended...**

- 1. Synthetic vascular grafts.
- 2. CAD stents.
- 3. Pacemakers or defibrillators.
- 4. Vena Cava filters or peripheral vascular stents.
- 5. Orthopedic hardware no evidence of benefit for prophylactic antibiotics.