Risk factors, health maintenance, disease prevention

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History of health prevention Those who are well do not need a physician, but the sick do." Jesus of Nazareth Mark 2:17





- Majority of deaths < 65 are preventable
- Mission = promote effective clinical prevention
 (but, first do no harm)
- Recommendations based on scientific evidence
- Audience = clinicians in primary care settings





USPSTF Rating System for Strength of Overall Evidence

- Good/Fair/ Poor
- Good: Evidence includes consistent results from well-designed, wellconducted studies in representative populations that directly assesses effects on health outcomes

USPSTF Recommendations and Ratings:

- A: strongly recommends/good evidence
- B: recommends/fair evidence
- C: no recommendation for or against/ fair evidence to improve outcomes, but, harms ~ benefits
- D: recommend against/fair evidence for ineffective or harms > benefits
- I: insufficient to recommend for or against/ evidence is lacking or of poor quality, or conflicting; benefit vs. harm cannot be determined









Web sites for guidelines

- USPSTF(for clinicians)
- www.ahrq.gov/clinic/gcpspu.htm (3rd edition)
- www.ahrq.gov/clinic/uspstf.htm (overview USPSTF)
 www.ahrq.gov/clinic/uspstfix.htm (bullets index)
 http://www.ahrq.gov/clinic/gcpspu.htm (updates to third edition)
- National Guideline Clearing House (AHRQ) <u>http://www.guideline.gov/index.aspx</u>
- Canadian Task Force on the Periodic Health Exam (CTFPHE)
 www.ctfphc.org/

Risk assessment Accuracy of the history documented is crucial Thoroughness of the history is crucial





Framingham 10 year risk assessment for MI/cardiac death

High risk > 20% ten yr risk Intermediate risk 10-20% ten yr risk Low risk < 10% ten yr risk

Some factors to consider when deciding who to screen:

- Age
- Sex
- Family history
 - Breast cancer (breast and ovarian cancer)
 - Colon cancer
- PMHx/surgical history
 - Diabetes? Gestational diabetes? obese?
 - Hysterectomy for benign or malignant reason?

Colon cancer

- All patients age 50 and over. "A" rec
 - Stool cards ("good" evidence)
 - Flexible sigmoidoscopy ("fair" evidence) Colonoscopy (no direct evidence)
 Barium Enema (no direct evidence)
- Begin earlier (<age 50) if higher risk
 - 20% of all colon cancers occur in pts with risk factors:
 - Family history of first degree relative dx < age 60
 - Family hx hereditary nonpolyposis colorectal CA
 - Personal history of longstanding ulcerative colitis

All women age 40 and over. "B" rec for screening mammography with or without a clinical breast exam q 1-2 yrs Decreases 10 yr risk of breast cancer by 20-25% Higher risk with family history (Bates p. 302-304): Premenopausal 1st degree relative Bilateral cancer in 1st degree relative BRCA1 and BRCA 2 genes Only 5-10% of all breast cancer

But 50% risk of dz if < age 50; 80% risk of dz by age 65



Gynecology yearly visit progress note at LUHS Counsel Tests Smoking cessation Occult blood Illicit drug cessation Pap Calcium/Vitamin D GC/Chlamydia Menopause/HRT risk Bone density benefits Cholesterol Domestic violence Mammogram Self breast exam Influenza vaccine Tetanus vaccine

Pediatric new patient database at LUHS

- Family history
- Does child live in a pre-1960 building?
- Do any smokers live with the child?
- Is a gun kept in the place where your child lives?
- Has anyone close to this child died?

Adult new patient database at LUHS

- Family history
- Blood transfusion?
- Cholesterol in last 5 years?
- Stool test for: blood, endoscopy, BE?
- Immunizations
- Do you own a handgun?
- Pap/Pelvic exam/Mammogram?
- Smoke?
- Alcohol?
- Seat belts?



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HEDIS

- =Health Employer Data Information Set
- 271 different insurance companies
- 71.3 million covered lives in America
- HMO or POS insurance
- Reports on 60 measures annually



HEDIS Measure example

Cervical Cancer screening Women age 18-65 One pap in three years Exclusion=hysterectomy for a benign diagnosis (surgical hx)

Influenza season 2004-2005

- Influenza causes 51,000 excess deaths/yr
- Influenza and Pneumonia
 - #7 overall cause of death in US, 2000
 - #8 cause of death in children age 1-14 in US, 2000
- Each year:
 - 10% to 20% of population is ill with influenza
 - 30% to 40% of school children get influenza



Quality Improvement at LUHS

- On going
- Every department
- CCE = Center for clinical effectiveness
 Quarterly reports
- Top down Dr. Barbato, CEO; VPs, every manager, every physician
- You will experience QI efforts at LUHS











• Children ages 6 months to 23 months

Increased Publicity Influenza season 2003-2004

- Posters in cases
- Posters on campus buses*
- Table tents on waiting room end tables*
- "Inside the system" newspaper*
- Patient mailed reminders of visits*
- Flu clinics in LOC lobby
- Mailed postcards to high risk pts Oct*
 - *new for 2003





Influenza 2004-2005, changes to increase vaccination rates

- Delete consent form
 - not legally required
 - Slowed down the process (a barrier)
- Standing order for adults for all LUHS 2004
 Take the doctor out of the loop
- Flu shots offered to inpatients at time of discharge if age 65 and older





