#### **Prostate Cancer**

Satellite Conference and Live Webcast Tuesday, September 7, 2010 2:00 - 4:00 p.m. Central Time

Produced by the Alabama Department of Public Health Video Communications and Distance Learning Division

# **Faculty**

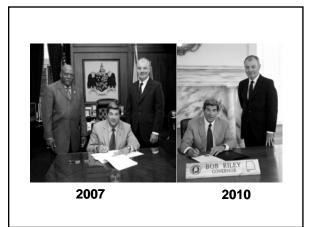
Thomas E. Moody, MD
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Urology Centers of Alabama
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# September is Prostate Cancer Awareness Month







#### **Prostate Cancer**

- "If you live long enough, you'll develop prostate cancer."
- "Prostate cancer won't kill you...
  You'll probably die with prostate
  cancer but not of it."

#### **Prostate Cancer**

- Most common cancer in men
- Second most common cause of death
- > 217,730 new cases each year
- > 32,050 men will die each year
- Early detection = chance for cure

#### **Prostate Cancer**

- Alabama 2010
  - -3,300 new cases
  - -600 deaths

#### **Prostate Cancer**

- Death rate per 100,000 population
  - -Washington, D.C.
    - 43.3
  - -Mississippi
    - 34.2
  - Alabama
    - 31.2

# Age-adjusted Death Rates for Alabama, 2003-2007

- Prostate
  - All races(includesHispanic)
  - -Male
  - -All ages



### **Free Prostate Screenings**

- Since September 2006 Urology
   Centers of Alabama has offered free prostate cancer screenings in the following Alabama counties:
  - Dallas

-Hale

-Jefferson

-Wilcox

Madison

- Marengo

- Perry

Butler

### **Free Prostate Screenings**

-Sumter -Pike

-Choctaw -Montgomery

-Bullock -Conecuh

-Monroe -Barbour

• 2,129 men have been screened since September 2006

# State of Alabama Cancer Funding

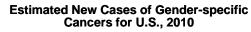
**Breast and Cervical** 

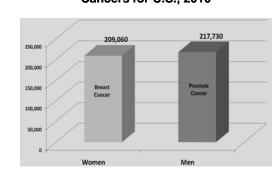
Year	Funding
2009	\$400,000
2010	\$400,000
2011	\$317,800

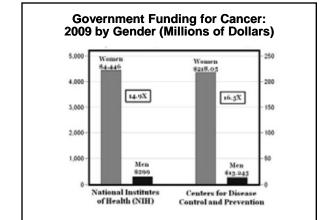
# State of Alabama Cancer Funding

#### **Prostate**

Year	Funding
2009	\$0.00
2010	\$100,000
2011	\$90,000







# Early Diagnosis of Prostate Cancer

- Symptoms?
  - -None

# **Early Detection** of Prostate Cancer

- Digital Rectal Exam (DRE)
- Prostate Specific Antigen (PSA)

### **Digital Rectal Exam**

- · Does not affect PSA level
- May detect 10-15% of prostate cancers that have normal PSA

### **Prostate Specific Antigen**

- Enzyme produced only by the prostate
- · Is prostate specific
  - -Not cancer specific

#### **PSA**

- Affecting PSA level
  - -BPH
  - Prostatitis
  - -Cancer
- Normal biologic variability 10-20%
- Ejaculation

#### **Prostatitis**

- Symptoms
- PSA after resolution
  - -Wait 1 month

#### **PSA** and Medications

- BPH medications
  - Tamsulosin, Alfuzosin
    - No effect on PSA
  - Dutasteride and Finasteride
    - Decrease PSA by 50% at 6 months
    - Rising PSA → reassess

#### **PSA**

- · Other helpful data
  - -Free and total PSA
    - Free > 25%
  - -PSA velocity
    - 0.75 per year
      - -Need at least 3 measurements

### **PSA Screening**

- Controversy?
  - -Against
    - Overdetection → overtreatment → morbidity
  - -For
    - 39% decrease in mortality since prostate screening

# Prostate cancer screenings cut death risk in half

PUBLIFICATION A Bloombery News

LONDON — A blood test for prostate cancer beloper found codustrible from the discussed by almost 20 percent after 14 years in a study, though overall mortality of the discussed with prostate cancer. Compared with 7 ed. 10,000 met who weren't offered the test, according to the screening of the state of the screening of the screening over the screening of the screening over the scre

### **New Screening Guidelines**

· Age for obtaining a baseline PSA lowered to 40 years of age

> - American Urological Association, Prostate-Specific Antigen Best Practice Statement: 2009 Update, p. 5.

#### **PSA Levels**

Age	PSA Levels
40 – 50	2.5
50 – 60	3.5
60 – 70	4.5
> 70	6.5

#### **PSA** and Detection of Prostate Cancer

PSA Level	Prostate Cancer
4 – 10	25%
> 10	50%

#### **New Screening Guidelines**

- · Why the change
  - Men dying at age 55 to 64 likely could have been cured by diagnosis and effective treatment prior to age 50
  - Younger men more likely to have curable prostate cancer

### **New Screening Guidelines**

- PSA more specific test for cancer in younger men
  - American Urological Association, Prostate-Specific
     Antigen Best Practice Statement: 2009 Update, p. 30.

# **New Screening Guidelines**

- When is a prostate biopsy indicated?
  - "The AUA is not recommending a single threshold value which should prompt prostate biopsy. The decision to proceed to prostate biopsy should be based primarily on PSA and DRE results but should take into account multiple factors...

### **New Screening Guidelines**

- ... including free and total PSA, patient age, PSA velocity, PSA density, family history, ethnicity, prior biopsy history and co-morbidities."
  - American Urological Association, Prostate-Specific Antigen Best Practice Statement: 2009 Update, p. 23.

### **Prostate Cancer Screening**

- · What is the standard of care?
  - -Yearly DRE and PSA?
  - Discuss PSA and ramifications
    - Document "defer"

### **PSA and Elderly**

- Men over 75 years
  - Should be considered only in certain circumstances depending on co-morbidities
    - Source: US Preventive Services Task Force

# Prostate Cancer Early Detection

- Prostate ultrasound and biopsy
  - -Indications
    - Abnormal DRE
    - Elevated PSA

#### **Prostate Cancer Treatment**

- Prostate ultrasound and biopsy
  - -Cancer grade
    - Gleason score
  - -Number of biopsies positive
  - -PSA level

#### **Prostate Cancer Treatment**

- Treatment options
  - -Observation
    - Watchful waiting
  - -Robotic prostatectomy
  - Radiation therapy
    - Seed implant
    - External radiation

#### **Prostate Cancer Treatment**

- -Cryotherapy
- -Hormonal therapy
  - Androgen suppression

#### **Prostate Cancer Prevention**

- Diet
  - Heart healthy = prostate healthy
  - Mediterranean diet
  - -Fruits, vegetables → lycopene, fiber
  - -Fish, fish oil → omega 3 fatty acids
  - -Soy, flaxseed → plant estrogens

#### **Prostate Cancer Prevention**

- Mega dose (vitamins, supplements)
  - Not recommended
  - Select trial Selenium, Vitamin E
    - -No benefit

# **Dietary Considerations**

- Mark Moyad, MD, MPH
  - Mediterranean diet
  - -Fish oil
  - -ASA 81 mg
  - Multivitamin
  - -Flaxseed

#### **Prostate Cancer Prevention**

- Finasteride and Dutasteride
  - -Used to shrink BPH and improve symptoms
  - -Prevent prostate cancer?
- \* Should decrease PSA by 50% at 6 months

#### **Prostate Cancer Prevention**

- · Prostate cancer prevention trial
  - -18,882 men > 55 yrs old
  - -PSA < 3.0
  - Finasteride vs. placebo
  - -7 year trial

#### **Prostate Cancer Prevention**

- Results
  - -25% reduction in prostate cancer
- Adverse effects
  - -Sexual function < 1%

# Prostate Cancer Early Diagnosis

- Summary
  - -PSA controversy
    - Age 40 75, 75 +
  - Prostate screening
    - Yearly DRE and PSA
  - -PSA BPH, infection, cancer
  - Dutasteride and Finasteride

# **New Screening Guidelines**

- Why the change?
  - Might reduce prostate cancer mortality and cost of screening
  - Provides basis for comparing future PSA results after age 50

# "Prostate Cancer and New Screening Guidelines"

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