Point-Counterpoint:

Early Detection of Prostate Cancer Is Not Valuable In a Lot of Men ~ E. David Crawford, MD

We Can't Go Backwards – Of Course Screening Has Saved Lives ~ Robert E. Donohue, MD

Screening does not impact mortality rates!

E. David Crawford, MD

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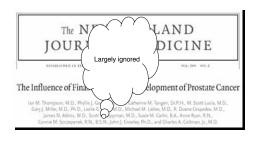


1989

- Prostate cancer became the most common cancer in American Males
- · And the second leading cause of death
- Options:
 - Do nothing
 - Prevention
 - Early detection
 - Improve outcome for advanced disease

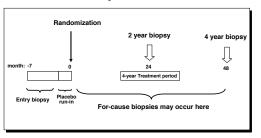
1989-Fast forward, what happened?

Prevention: PCPT 25% reduction



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REDUCE Schema to be presented



Andriole et al, J Urol 172:1314, 2004



Optimism that Screening Is Associated with a Fall in Mortality

- · Fall in mortality now seen
 - SEER
 - Olmsted County
 - -Exidence s conflicting, not strong
 - ๒ฅ๒๒gh to support public policy
 - Tyrol, Austria
- Mortality fall not seen where PSA screening not performed
 - Mexico-where little to no PSA screening is performed

PSA







Renal and Urology News June 2005, April 2008

The Clinical and Economic Burden of Prostate Cancer

- Number 1 cancer, 16% men, 3-4% death
- Cost 8 billion 11.2%
- First year of treatment cost \$40,873.20



PROSTATE SCREENING 2009 Recommendation Men who are in good health: annual PSA testing starting at age 50, or 40 if high-risk (AA, or with a father, brother or som with proposate cancer.) Centers for Disease Control and Prevention (CDC) U.S. Preventive Services Task Force (USPSTF) American College of Preventive Medicine (ACPM) Discuss risks/benefits. The need for screening questionable in elderly men with other chronic illnesses and men with life expectancies of less than 10 years.

PLCO Cancer Screening Trial

- · Multi-center randomized screening trial for:

 - LungColo-rectalOvarian
- 155,000 men and women aged 55-74
 Recruitment: 1993-2001
- Screening: 1993-2006
- Follow-up until 2015 by annual survey and mortality search



PLCO Screening Centers



Screening Interventions in **PLCO Trial**

- Prostate Annual DRE x 4 and PSA x 6
- · Lung Annual Chest Xray x 4 - Spiral CT for smokers
- · Colon FSG at years 1 and 6
- Ovary TVU x 4 and CA125 x 6

PLCO Screening Follow-up

- · Intervention Arm:
 - Screening results reported to patient and PCP
 - "Community standard of care" applied to biopsy and treatment decisions
- · Comparison Arm:
 - "Community standard of care"

PLCO Study Endpoints

- · Cause-specific mortality
- · Outcomes of screening exams
- · Incident and prevalent cancers

Original Article

Mortality Results from a Randomized Prostate-Cancer Screening Trial

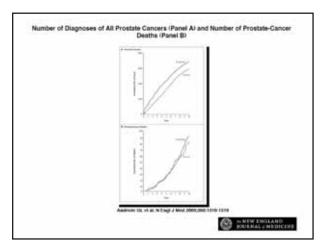
Gerald L. Andriole, M.D., E. David Crawford, M.D., Robert L. Grubb, III, M.D., Saundra S. Buys, M.D., David Chia, Ph.D., Timothy R. Charch, Ph.D., Mona N. Fouad, M.D., Edward P. Gelmann, M.D., Paul A. Kyale, M.D., Douglas J. Reding, M.D., Joel L. Weissled, M.D., Lance A. Yokochi, M.D., Barbara O'Brien, M.P.J., Josafhan D. Clapp, B.S., Joehus M. Rathines, M.S., Thomas L. Filley, B.S., Richard B. Hayes, Ph.D., Barnett S. Kramer, M.D., Grant Limittan, Ph.D., Anthony B. Miller, M.B., Paul F. Pinsky, Ph.D., Philip C. Prook, Ph.D., John K. Gohagan, Ph.D., Christine D. Berg, M.D., for the PLCO Project Team

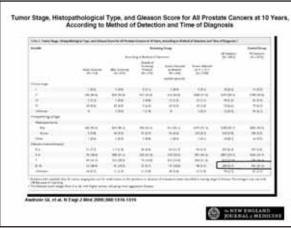
N Engl J Med olume 360(13):1310-1319 March 26, 2009

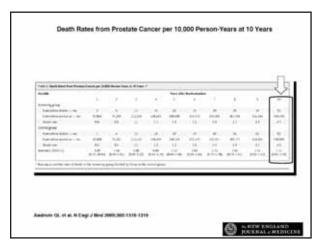














PLCO Trial Conclusions:

- 7-10 years, no difference in mortality
- Few CaP related deaths in either group- 92 screening and 82 control at 10 years
- Balance of benefits and harms unfavorable and does not support routine screening, at this time
- Even if mortality is shown to decrease, still significant harm to many men

PLCO Trial Conclusions:

- First report-planned follow for at least 13 years, more to come
- Contamination-as high as 50%, could be a contributing factor, improved therapy could also be a contributing factor-
- PSA not the best test, far from it
- · Need a better test and marker of progression

Thoughts

- Screening doesn't work for all cancers: Lung, neuroblastoma, and not all breast cancers
- Need to separate diagnosis from treatment, clearly over treating men
- But, need to remember that 28,000 men died in 2008 of CaP
- We need to figure out who needs to be diagnosed and effectively treated.



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Baseline	х	x	х	х	х	x		
Year 1	X	X	X	х		×		
Year 2			x					
Year 3		x	x	х	х	х	х	
Year 4			X	X		X		
Year 5			х	X	х	Х		
2004-2013								х
_			Compa	rison Arm	1			
	х	х				х		х

PLCO Prostate Subcommittee Thanks to participants

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