



4^{os} Encontros de Andrologia
Onco-Andrologia
Vigilância activa - Subutilização?
Jorge Fonseca

“There are more people making a living from prostate cancer than there are dying from it.”

“The current state of prostate cancer may not be good medicine but it sure is good business.”

Although these comments were first made almost 30 years ago, they undoubtedly would be equally applicable today.

Dr. Willet Whitmore noted the increasing use of radical prostatectomy for carcinoma of the prostate and recognized that many men were being subjected to the morbidity of surgery without necessarily deriving any benefit.



Published in final edited form as:

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The Worldwide Epidemiology of Prostate Cancer: Perspectives from Autopsy Studies

Gabriel P. Haas, MD¹, Nicolas Delongchamps, M.D.¹, Otis W. Brawley, M.D.³, Ching Y. Wang, DVM, Ph.D.¹, and Gu

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Haas et al.

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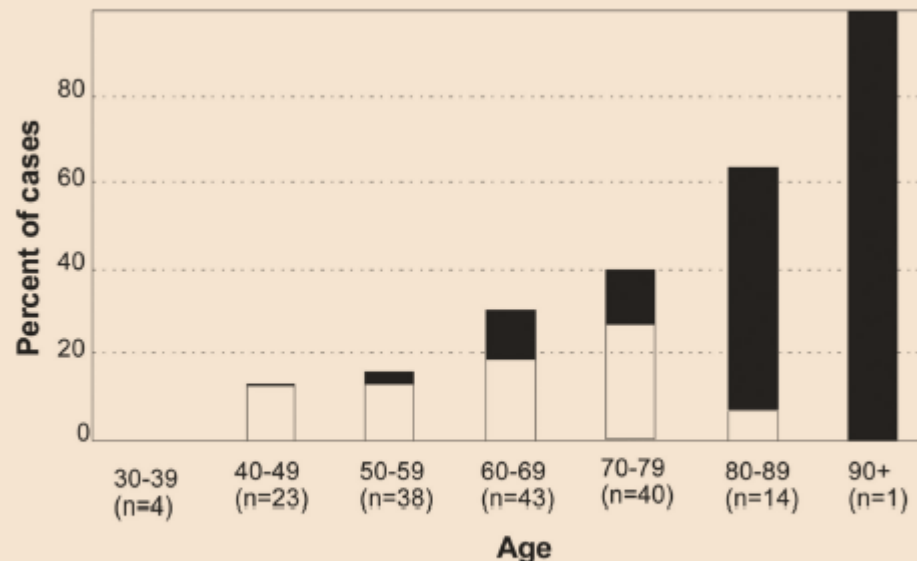


Fig. 2. Prevalence of prostate cancer in autopsy cases with increasing age³⁴.



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The Worldwide Epic from Autopsy Studi

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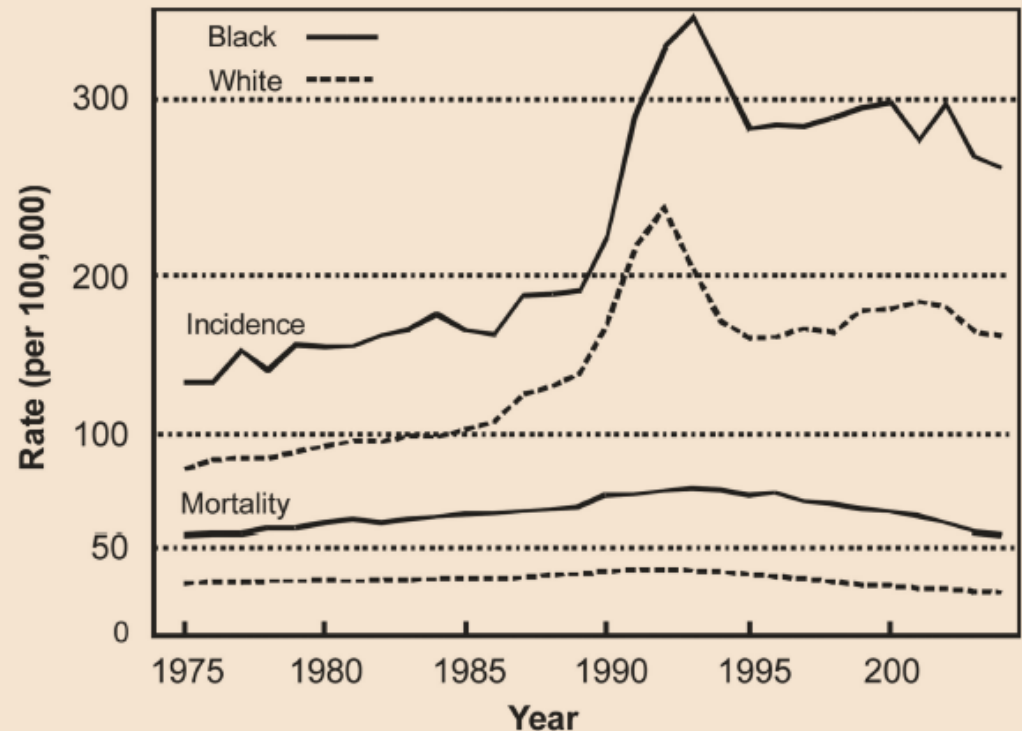


Fig. 1.
Age-adjusted total US incidence and mortality rates for prostate cancer, all ages.. 1995-2004.
Age-adjusted to the 2000 US Std Population

In the USA there were an estimated 217 730 new cases of prostate cancer and 32 050 deaths in 2010, which represented 28% of new cancer cases and 11% of all cancer deaths in men.



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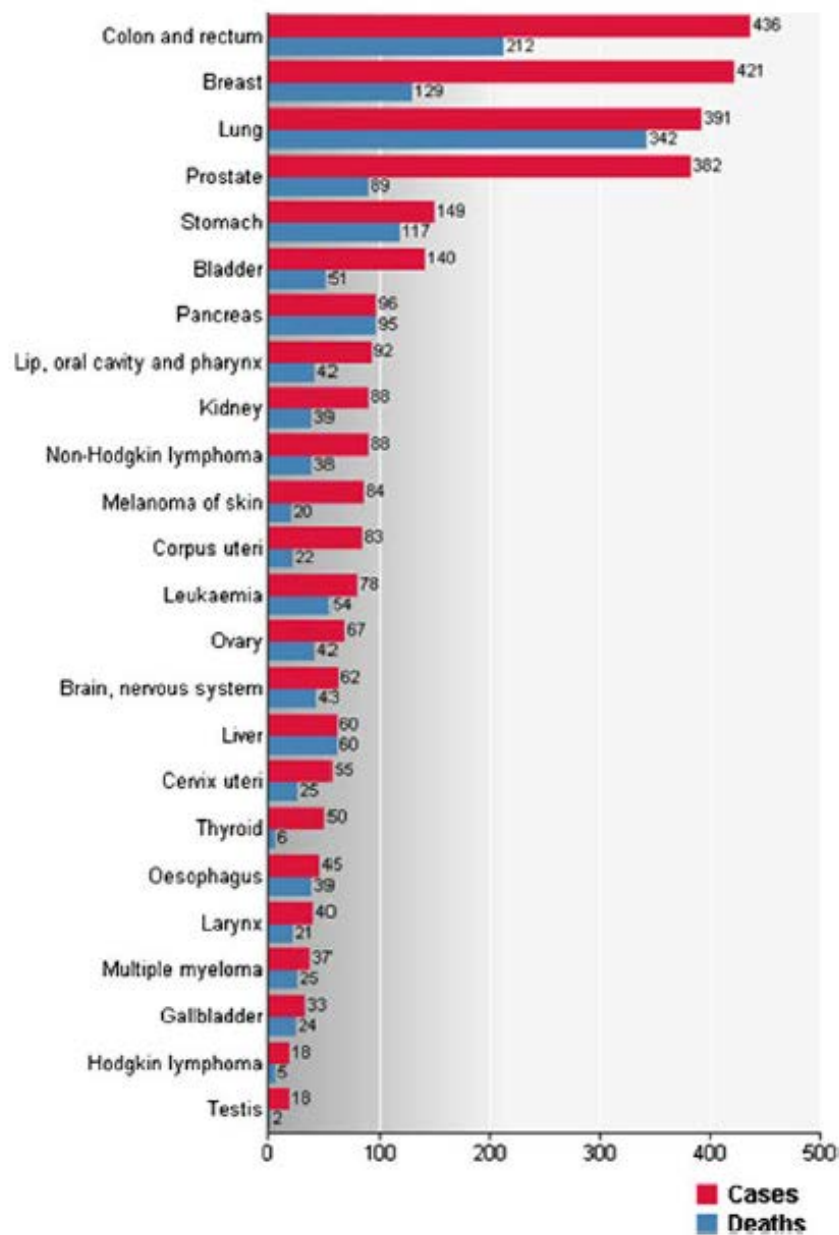


Estimates of cancer incidence and mortality in Europe in 2008

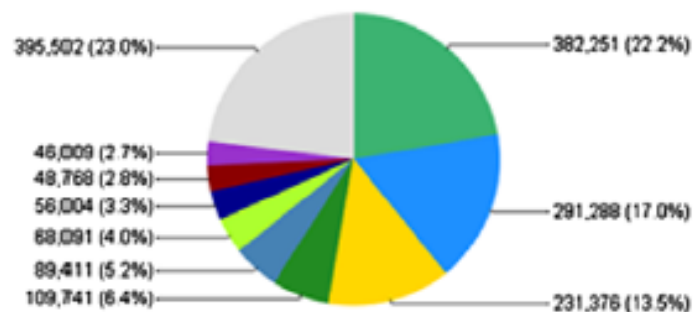
J. Ferlay ^{a,*}, D.M. Parkin ^b, E. Steliarova-Foucher ^a

^a Incidence, ^b Mortality
Table 2 – Estimated numbers of cancer cases and deaths from cancer in Europe in 2008 (in thousands).

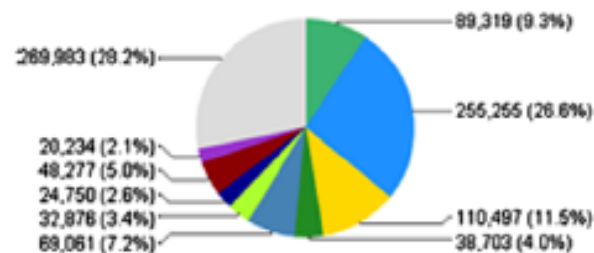
	Incidence			Mortality		
	Both sexes	Male	Female	Both sexes	Male	Female
— Oral cavity and pharynx	91.9	68.1	23.8	41.7	32.9	8.8
Arti Oesophagus	44.7	34.1	10.6	38.6	29.4	9.2
Rec Stomach	149.2	89.4	59.8	116.6	69.1	47.5
Rec Colon and rectum	435.6	231.4	204.2	212.1	110.5	101.6
Dec Liver	60.2	39.2	21.0	60.1	38.4	21.7
Acc Gallbladder	32.9	12.4	20.5	23.7	8.6	15.1
Ava Pancreas	96.0	48.8	47.2	95.2	48.3	46.9
— Larynx	40.4	36.6	3.8	21.1	19.4	1.7
Key Lung	390.9	291.3	99.6	342.1	255.3	86.8
Can Melanoma of skin	84.0	39.2	44.8	20.1	10.6	9.5
Dea Breast			420.8			129.3
Eur Cervix uteri			54.8			25.0
Inci Corpus uteri			82.5			21.7
Mor Ovary			66.7			41.9
Pre Prostate		382.3			89.3	
— Testis		18.3			1.7	
— Kidney	88.4	56.0	32.4	39.3	24.8	14.5
— Bladder	139.5	109.7	29.8	51.3	38.7	12.6
— Brain, nervous system	61.5	33.3	28.2	43.1	23.2	19.9



Male Cases



Deaths



- Prostate
- Lung
- Colon and rectum
- Bladder
- Stomach
- Lip, oral cavity and pharynx
- Kidney
- Pancreas
- Non-Hodgkin lymphoma
- Other

Fig. 2 – Estimated numbers of cancer cases and cancer deaths in the 40 European countries (in thousands).



Platinum Priority – Prostate Cancer

Editorial by James W.F. Catto on pp. 16–18 of this issue

Trends in Mortality From Urologic Cancers in Europe, 1970–2008

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Article info

Article history:

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Published online ahead of
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Keywords:

Bladder cancer

Europe

Kidney

Mortality

Prostate

Testis

Trends

Background: In recent decades, there have been substantial changes in mortality from urologic cancers in Europe.

Objective: To provide updated information, we analyzed trends in mortality from cancer of the prostate, testis, bladder, and kidney in Europe from 1970 to 2008.

Design, setting, and participants: We derived data for 33 European countries from the World Health Organization database.

Measurements: We computed world-standardized mortality rates and used joint-point regression to identify significant changes in trends.

Results and limitations: Mortality from prostate cancer has leveled off since the 1990s in countries of western and northern Europe, particularly over the last few years while it was still rising in Bulgaria, Romania, and Russia. In the European Union (EU), it reached a peak in 1995 at 15.0 per 100 000 men and declined to 12.5 per 100 000 in 2006. Mortality from testicular cancer has steadily declined in most countries in western and northern Europe since the 1970s. The declines were

0.75 in 1980 to 0.32 per 100 000 men in 2006, with stronger declines up to the late 1990s and an apparent leveling off in rates thereafter. Over the last 15 years

Platinum Priority – Prostate Cancer

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Trends in Mortality From Urologic Cancers in Europe, 1970–2008

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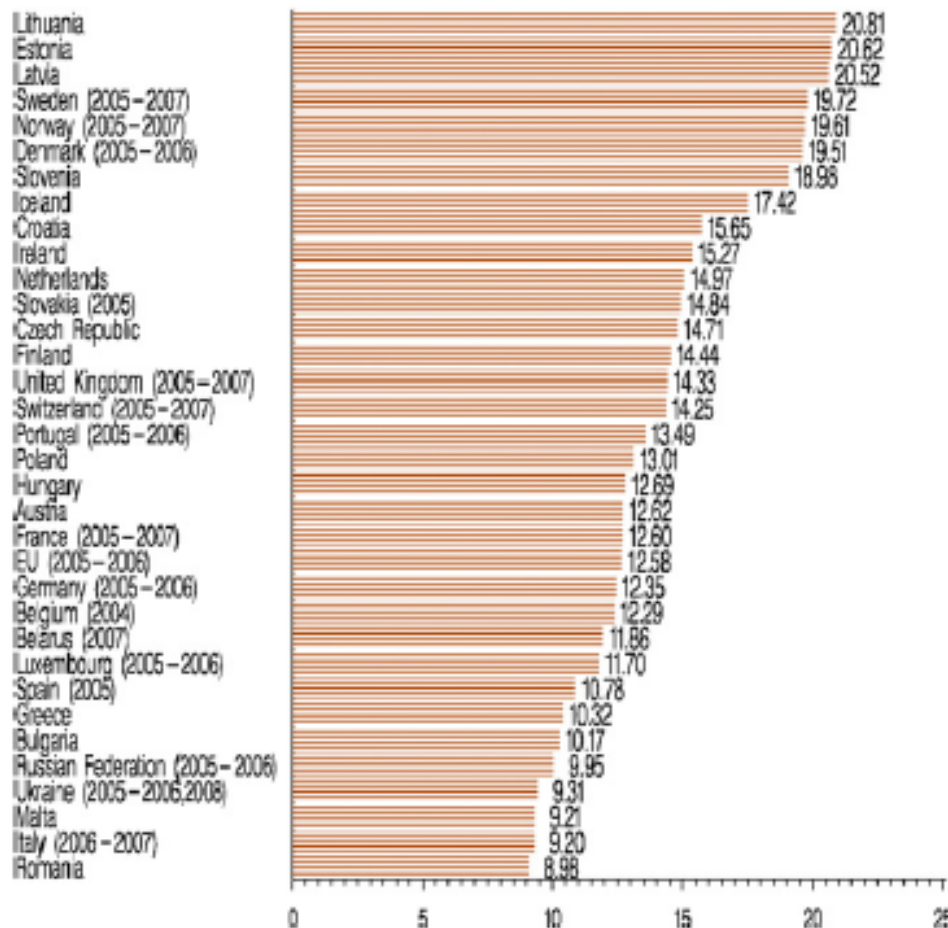
Mortality

Prostate

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Trends

a) Prostate



Platinum Priority – Prostate Cancer

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Trends in Mortality From Urologic Cancers in Europe, 1970–2008

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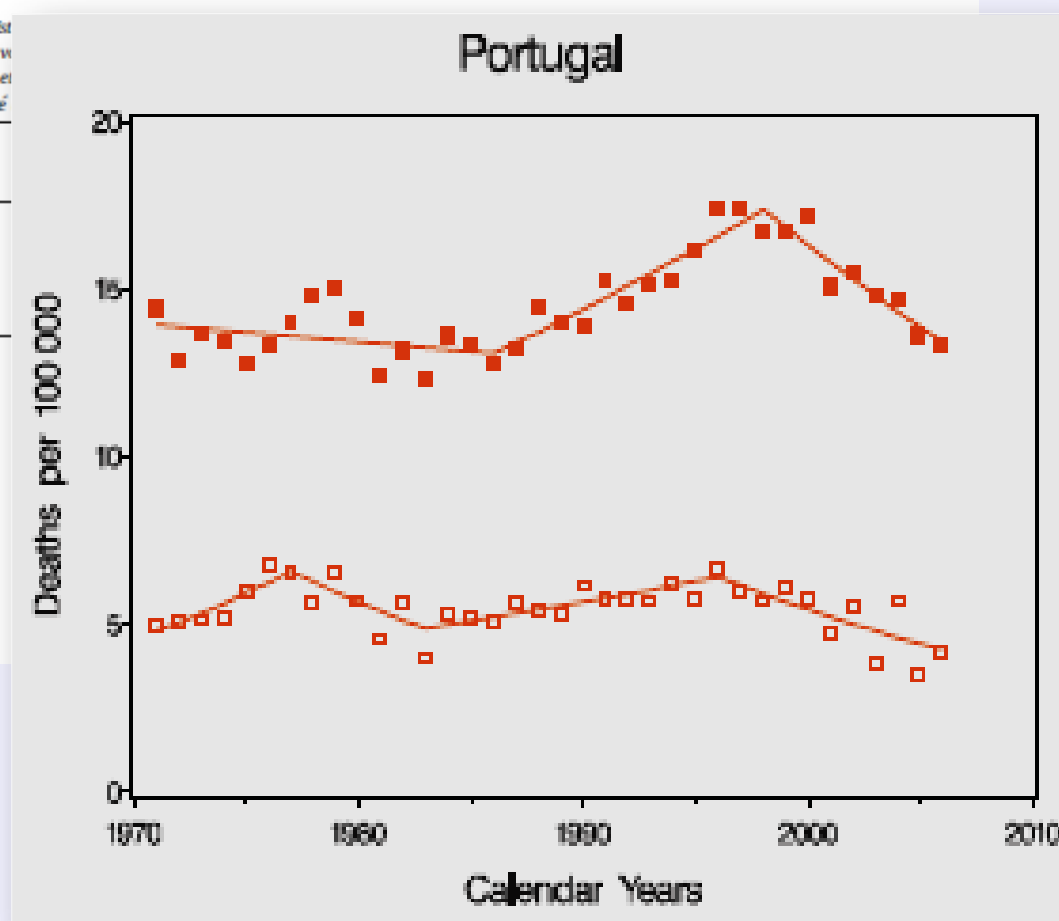
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ORIGINAL ARTICLE

Mortality Results from a Randomized Prostate-Cancer Screening Trial

Gerald L. Andriole, M.D., E. David Crawford, M.D., Robert
Saundra S. Buys, M.D., David Chia, Ph.D.,
Mona N. Fouad, M.D.,
David

CONCLUSIONS

After 7 to 10 years of follow-up, the rate of death from prostate cancer was very low and did not differ significantly between the two study groups. (ClinicalTrials.gov number, NCT00002540.)

The... of screening with prostate-specific-antigen (PSA) testing and digital rectal examination on the rate of death from prostate cancer is unknown. This is the first report from the Prostate, Lung, Colorectal, and Ovarian (PLCO) Cancer Screening

ORIGINAL ARTICLE

Screening and Prostate-Cancer Mortality in a Randomized European Study

Fritz H. Schröder, M.D., Jonas Hugosson, M.D., Monique J. Roobol, Ph.D.,
Teuvo L.J. Tammela, M.D., Stefano Ciatto, M.D., Vera Nelen, M.D.,
Maciej Kwiatkowski, M.D., Marcos Lujan, M.D., Hans Lilja, M.D.,
Pekka Taneli, Ph.D., Daniel Denis, M.D., Franz Becker, M.D.

CONCLUSIONS

PSA-based screening reduced the rate of death from prostate cancer by 20% but was associated with a high risk of overdiagnosis. (Current Controlled Trials number, ISRCTN49127736.)

The authors' affiliations are listed in the Appendix. Address correspondence to Dr. Schröder at the Erasmus Medical Center, P.O. Box 2040, Rotterdam 3000 CA, the Netherlands, or at secr.schroder@erasmusmc.nl.

*Members of the European Randomized Study of Screening for Prostate Cancer (ERSPC) are listed in the Appendix.

This article (10.1056/NEJMoa0810084) was published at NEJM.org on March 18, 2009.

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Screening for Prostate Cancer was initiated in the early 1990s to evaluate the effect of screening with prostate-specific-antigen (PSA) testing on death rates from prostate cancer.

METHODS

We identified 182,000 men between the ages of 50 and 74 years through registries in seven European countries for inclusion in our study. The men were randomly assigned to a group that was offered PSA screening at an average of once every 4 years or to a control group that did not receive such screening. The predefined core age group for this study included 162,243 men between the ages of 55 and 69 years. The primary outcome was the rate of death from prostate cancer. Mortality follow-up was identical for the two study groups and ended on December 31, 2006.

ARTICLE

Prostate Cancer Screening in the Randomized Prostate, Lung, Colorectal, and Ovarian Cancer Screening Trial: Mortality Results after 13 Years of Follow-up

Gerald L. Andriole, E. David Crawford, Robert L. Grubb III, Sandra S. Buys, David Chia, Timothy R. Church, Mona N. Fouad, Claudine Isaacs, Paul A. Kvale, Douglas J. Reding, Joel L. Weissfeld, Lance A. Yokochi, Barbara O'Brien, Lawrence R. Ragard, Jonathan D. Clapp, Joshua M. Rathmell, Thomas L. Riley, Ann W. Hsing, Grant Izmirlian, Paul F. Pinsky, Barnett S. Kramer, Anthony B. Miller, John K. Gohagan, Philip C. Prorok; for the PLCO Project Team

Manuscript received March 17, 2011; revised November 8, 2011; accepted November 9, 2011.

Correspondence to: Philip C. Prorok, PhD, Biometry Research Group, Division of Cancer Prevention, National Cancer Institute, 6130 Executive Blvd, Ste 3132, Bethesda, MD 20892-7354 (e-mail: prorokp@mail.nih.gov).

Background The prostate component of the Prostate, Lung, Colorectal, and Ovarian (PLCO) Cancer Screening Trial was undertaken to determine whether there is a reduction in prostate cancer mortality with organized annual screening compared with opportunistic screening. Prostate cancer mortality has been reported previously. We report extended follow-up results.

Methods A total of 76 685 men were randomized to the intervention or control arm. The intervention arm received organized annual screening from July 2001 to July 2006, and the control arm received usual care.

After 13 years of follow-up, there was no evidence of a mortality benefit for organized annual screening in the PLCO trial compared with opportunistic screening, which forms part of usual care, and there was no apparent interaction with age, baseline comorbidity, or pretrial PSA testing.

J Natl Cancer Inst 2012;104:125–132

Participants were followed to 10 years and 57% to 13 years. At 13 years, 4250 men in the intervention arm were diagnosed with prostate cancer in the intervention arm compared with 3815 in the control arm. The cumulative mortality rates for prostate cancer in the intervention and control arms were 108.4 and 97.1 deaths per 10 000 person-years, respectively, resulting in a relative increase of 12% in the intervention arm (RR = 1.12, 95% CI = 1.07 to 1.17). After 13 years of follow-up, the cumulative mortality rates from prostate cancer in the intervention and control arms were 3.7 and 3.4 deaths per 10 000 person-years, respectively, resulting in a non-statistically significant difference between the two arms (RR = 1.09, 95% CI = 0.87 to 1.36). No statistically significant interactions with respect to prostate cancer mortality were observed between trial arm and age ($P_{\text{interaction}} = .81$), pretrial PSA testing ($P_{\text{interaction}} = .52$), and comorbidity ($P_{\text{interaction}} = .68$).

Conclusions After 13 years of follow-up, there was no evidence of a mortality benefit for organized annual screening in the PLCO trial compared with opportunistic screening, which forms part of usual care, and there was no apparent interaction with age, baseline comorbidity, or pretrial PSA testing.

J Natl Cancer Inst 2012;104:125–132

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Prostate-Cancer Mortality at 11 Years of Follow-up

Fritz H. Schröder, M.D., Jonas Hugosson, M.D., Monique J. Roobol, Ph.D., Teuvo L.J. Tammela, M.D., Stefano Ciatto, M.D., Vera Nelen, M.D., Maciej Kwiatkowski, M.D., Marcos Luis Cordero, M.D., Marco Zappa, Ph.D., Louis J. Denis, M.D., Franz Recker, M.D., Alberto Finelli, M.D., Chris H. Bangma, M.D., Gunnar Aus, M.D., Sigurdur Gudjonsson, M.D., Theodorus van der Kwast, M.D., and Andreas Hübner, M.D.

CONCLUSIONS

Analyses after 2 additional years of follow-up consolidated our previous finding that PSA-based screening significantly reduced mortality from prostate cancer but did not affect all-cause mortality. (Current Controlled Trials number, ISRCTN49127736.)

...rogen (PSA) testing on ...
...ing results. We updated prostate-
...andomized Study of Screening for Prostate
... of follow-up

The authors' affiliations are listed in the Appendix. Address reprint requests to Dr. Schröder at the Department of Urology, Erasmus University Medical Center, NH-324, Boelelaan 125, Rotterdam 3000

Mortality results from the Göteborg randomised population-based prostate-cancer screening trial



Jonas Hugosson, Sigrid Carlsson, Gunnar Aus, Svante Bergdahl, Ajik Khatami, Pär Loddling, Carl-Gustaf Pihl, Johan Stranne, Erik Holmberg, Hans Lilja

Summary

Background Prostate cancer is one of the leading causes of death from malignant disease among men in the developed world. One strategy to decrease the risk of death from this disease is screening with prostate-specific antigen (PSA); however, the extent of benefit and harm with such screening is under continuous debate.

Methods In December, 1994, 20000 men born between 1930 and 1944, randomly sampled from the population register, were randomised by computer in a 1:1 ratio to either a screening group invited for PSA testing every 2 years ($n=10\,000$) or to a control group not invited ($n=10\,000$). Men in the screening group were invited up to the upper age limit (median 69, range 67–71 years) and only men with raised PSA concentrations were offered additional tests such as digital rectal examination and prostate biopsies. The primary endpoint was prostate-cancer specific mortality, analysed according to the intention-to-screen principle. The study is ongoing, with men who have not reached the upper age limit invited for PSA testing. This is the first planned report on cumulative prostate-cancer incidence and mortality calculated up to Dec 31, 2008. This study is registered as an International Standard Randomised Controlled Trial ISRCTN54449243.

Findings In each group, 48 men were excluded from the analysis because of death or emigration before the randomisation date, or prevalent prostate cancer. In men randomised to screening, 7578 (76%) of 9952 attended at least once. During a median follow-up of 14 years, 1138 men in the screening group and 718 in the control group were diagnosed with prostate cancer, resulting in a cumulative prostate-cancer incidence of 12.7% in the screening group and 8.2% in the control group (hazard ratio 1.64; 95% CI 1.50–1.80; $p<0.0001$). The absolute cumulative risk reduction of death from prostate cancer at 14 years was 0.40% (95% CI 0.17–0.64), from 0.90% in the control group to 0.50% in the screening group. The rate ratio for death from prostate cancer was 0.56 (95% CI 0.39–0.82; $p=0.002$) in the screening compared with the control group. The rate ratio of death from prostate cancer for attendees compared with the control group was 0.44 (95% CI 0.28–0.68; $p=0.0002$). Overall, 293 (95% CI 177–799) men needed to be invited for screening and 12 to be diagnosed to prevent one prostate cancer death.

Interpretation This study shows that prostate cancer mortality was reduced almost by half over 14 years. However, the risk of over-diagnosis is substantial and the number needed to treat is at least as high as in breast-cancer screening programmes. The benefit of prostate-cancer screening compares favourably to other cancer screening programs.

Funding The Swedish Cancer Society, the Swedish Research Council, and the National Cancer Institute.

Introduction

The European Randomised Study of Screening for Prostate Cancer (ERSPC) is a randomised, population-based trial that

These reports provide the first level one evidence that

Lancet Oncol 2010; 11: 725–32

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2045(10)70146-7

See [Reflection and Reaction](#) page 702

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Mortality results from the Göteborg randomised population-based prostate-cancer screening trial



Jonas Hugosson, Sigrid Carlsson, Gunnar Aus, Svante Bergdahl, Ali Khatami, Pär Lodding, Carl-Gustaf Pihl, Johan Stranne, Erik H Hans Lilja

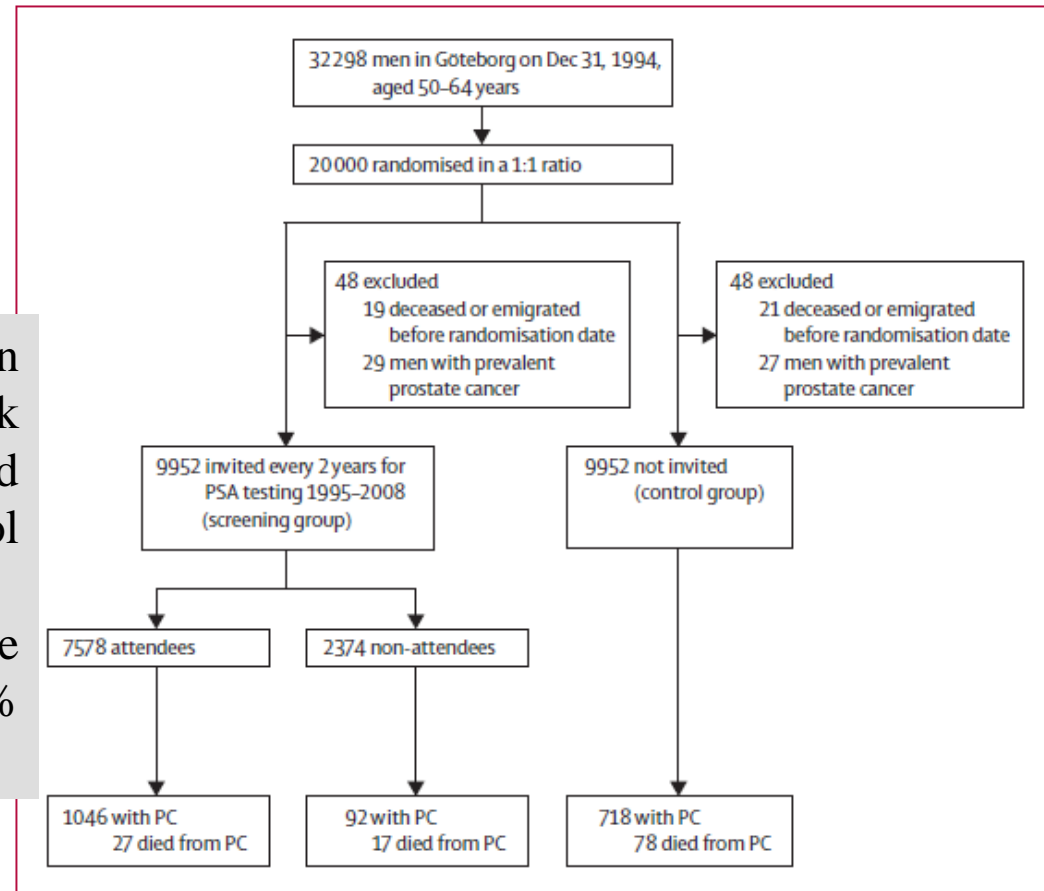
Summary

Background Prostate cancer is one of the leading causes of death from malignant disease among men in world. One strategy to decrease the risk of death from this disease is screening with prostate-specific antigen (PSA); however, the extent of benefit and harm with such screening is under continuous debate.

Methods In December, 1994, 20 000 men born between 1930 and 1944, randomly sampled from the national population register, were randomised by computer in a 1:1 ratio to either a screening group invited for PSA testing (n=10 000) or to a control group not invited (n=10 000). Men in the screening group were invited up to age 71 (median 69, range 67–71 years) and only men with raised PSA concentrations were offered additional PSA testing, digital rectal examination and prostate biopsies. The primary endpoint was prostate-cancer specific mortality.

This trial showed a greater reduction in mortality, with an overall relative risk reduction of 44% in all men randomised to screening, compared with the control group, after 14 years.

This figure increased to 56% in the subgroup of screening attendees and 77% in men aged < 60 years.



Time Trends and Local Variation in Primary Treatment of Localized Prostate Cancer

Matthew R. Cooperberg, Jeanette M. Broering, and Peter R. Carroll

A B S T R A C T

Purpose

In the absence of high-level evidence or clinical guidelines supporting any given active treatment approach over another for localized prostate cancer, clinician and patient preferences may lead to substantial variation in treatment use.

Methods

Data were analyzed from 36 clinical sites that contributed data to the Cancer of the Prostate Strategic Urologic Research Endeavor (CaPSURE) registry. Distribution of primary treatment use was measured over time. Prostate cancer risk was assessed using the D'Amico risk groups and the Cancer of the Prostate Risk Assessment (CAPRA) score. Descriptive analyses were performed, and a hierarchical model was constructed that controlled for year of diagnosis, cancer risk variables, and other patient factors to estimate the proportion of variation in primary treatment

selection explicable by practice site.

Results

Among 11,892 men analyzed, 6.8% elected surveillance, 49.9% prostatectomy, 11.6% external-beam radiation, 13.3% brachytherapy, 4.0% cryoablation, and 14.4% androgen deprivation monotherapy. Prostate cancer risk drives treatment selection, but the data suggest both overtreatment of low-risk disease and undertreatment of high-risk disease. The former trend appears to be improving over time, while the latter is worsening. Treatment varies with age, comorbidity, and socioeconomic status.

J Clin Oncol 28:1117-1123. © 2010 by American Society of Clinical Oncology

Screening for Prostate Cancer: A Review of the Evidence for the U.S. Preventive Services Task Force

Roger Chou, MD; Jennifer M. Croswell, MD, MPH; Tracy Dana, MLS; Christina Bougatsos, BS; Ian Blazina, MPH; Rongwei Fu, PhD; Ken Gleitsmann, MD, MPH; Helen C. Koenig, MD, MPH; Clarence Lam, MD, MPH; Ashley Maltz, MD, MPH; J. Bruin Rugge, MD, MPH; and Kenneth Lin, MD

Background: Screening can detect prostate cancer at earlier, asymptomatic stages, when treatments might be more effective.

Purpose: To update the 2002 and 2008 U.S. Preventive Services Task Force evidence reviews on screening and treatments for prostate cancer.

Data Sources: MEDLINE (2002 to July 2011) and the Cochrane Library Database (through second quarter of 2011).

Study Selection: Randomized trials of prostate-specific antigen-based screening, randomized trials and cohort studies of prostatectomy or radiation therapy versus watchful waiting, and large, ob-

servative cohort studies of treatments. One good-quality trial found that prostatectomy for localized prostate cancer decreased risk for prostate cancer-specific mortality compared with watchful waiting through 13 years of follow-up (relative risk, 0.62 [CI, 0.44 to 0.87]; absolute risk reduction, 6.1%). Benefits seemed to be limited to men younger than 65 years. Treating approximately 3 men with prostatectomy or 7 men with radiation therapy instead of watchful waiting would each result in 1 additional case of erectile dysfunction. Treating approximately 5 men with prostatectomy would result in 1 additional case of urinary incontinence. Prostatectomy was associated with perioperative death (about 0.5%) and cardiovascular events (0.6% to 2%), and radiation therapy was

Conclusion: Prostate-specific antigen-based screening results in small or no reduction in prostate cancer-specific mortality and is associated with harms related to subsequent evaluation and treatments, some of which may be unnecessary.

positive results. Serious infections or urine retention occurred after 0.5% to 1.0% of prostate biopsies. There were 3 random-

ized trials and 23 cohort studies of treatments. One good-quality trial found that prostatectomy for localized prostate cancer decreased risk for prostate cancer-specific mortality compared with watchful waiting through 13 years of follow-up (relative risk, 0.62 [CI, 0.44 to 0.87]; absolute risk reduction, 6.1%). Benefits seemed to be limited to men younger than 65 years. Treating approximately 3 men with prostatectomy or 7 men with radiation therapy instead of watchful waiting would each result in 1 additional case of erectile dysfunction. Treating approximately 5 men with prostatectomy would result in 1 additional case of urinary incontinence. Prostatectomy was associated with perioperative death (about 0.5%) and cardiovascular events (0.6% to 2%), and radiation therapy was

For author affiliations, see end of text.
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Screening for Prostate Cancer: A Review of the Evidence for the U.S. Preventive Services Task Force

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Background: Screening can detect prostate cancer at earlier, randomized trials and 23 cohort studies of treatments. One good-quality

Editorial Comment: In October 2011 the U.S. Preventive Services Task Force issued a draft of their recommendation on prostate specific antigen (PSA) screening. The panel concluded that “there is moderate or high certainty that the service has no net benefit or that the harms outweigh the benefits” and discouraged use of the test by issuing a grade D ruling. On careful scrutiny of this article by Chou et al, which formed the basis for the panel recommendation, it is difficult to understand how an impartial group of experts could reach such a dogmatic decision. Their conclusion is based on a pooled meta-analysis of 5 randomized trials, including 3 which they concluded were poor. The flaws in the PLCO (Prostate, Lung, Colorectal and Ovarian) Cancer Screening Trial, which had complete followup out to only 7 years, were overlooked,¹ and the post hoc reanalysis in healthy men was ignored.² In the ERSPC (European Randomized Study of Screening for Prostate Cancer) the number needed to treat of 48 to save 1 life at 9 years was used rather than the Göteborg trial, where the number needed to treat at 14 years fell to 12.³

after 0.5% to 1.0% of prostate biopsies. There were 3 random-

This article was published at www.annals.org on 7 October 2011.

The panel does not mention that screening and aggressive treatment are not recommended in men with a life expectancy of less than 10 years. The side effects of screening (discomfort, worry and infections), along with concern about over diagnosis and overtreatment with impotence, incontinence and rectal injury, were enumerated without mention of the burden of suffering and pain associated with progression of prostate cancer, metastases and death from the disease. Also the panel failed to reconcile their conclusions with the observed benefits over the past 20 years: 1) the presence of metastases to bone at diagnosis has fallen from 1 out of 5 (20%) in 1990 to 1 out of 25 (4%) today; 2) prostate cancer deaths have fallen 40% within the last 15 years; and 3) using the Catalonia calculation, “if you apply the age adjusted death rate of 39 per 100,000 in 1990 to the year 2007, if there had been no PSA testing nor improvement in treatment there would have been 59,000 deaths in 2007. Instead there were 35,000, a reduction of 24,000.” If screening does not save lives, why were there so many fewer deaths in 2007?

The U.S. Preventive Services Task Force is a panel of primary care physicians and epidemiologists whose composition is designed to eliminate bias, and thus neither urologists nor experts in prostate cancer were on the panel. However, are primary care physicians unbiased? After all, are they not the individuals who constantly complain about the burden of having an informed discussion with patients when they have so little time to address other matters? Are they also not the ones who are concerned that if they fail to obtain a PSA, or misinterpret it, they are liable for damages if a delayed diagnosis is made? Was the panel impartial? Is that why their decision was unfair? To understand what is fair, read the next comment.

Patrick C. Walsh, M.D.

available at www.sciencedirect.com
journal homepage: www.europeanurology.com



Letters to the Editor NOT referring to a recent journal article

Comment on the US Preventive Services Task Force's Draft Recommendation on Screening for Prostate Cancer

follow-up durations are short relative to the natural history of PCa. For several reasons, even 10 yr of follow-up after randomisation is too short to draw conclusions about

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EUROPEAN UROLOGY 61 (2012) 851–856

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European Association of Urology



Letters to the Editor NOT referring to a recent journal article

revealed dramatic improvement in screening efficacy.

The USPSTF recommendation relied heavily on the PLCO trial results. PLCO was a very flawed trial compared to ERSPC. There are many reasons for this. The initially published assumptions for the power calculations [10] were not fulfilled: 37 000 men in each group would have been necessary to document a 27% mortality reduction in

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are not included in the analysis.

A key component of the USPSTF decision relates to the risk of overtreatment of indolent PCa. Active surveillance has been increasingly embraced as a solution to the problem of overtreatment. More than 3000 patients managed prospectively by active surveillance have been reported in the published literature [25], and this approach is becoming increasingly adopted throughout the Western world. This means that aggressive treatment can be restricted to those patients with intermediate- and high-risk PCa, and the number needed to treat is likely to fall even further.

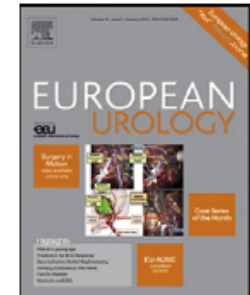
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Letters to the Editor NOT referring to a recent journal article

the United States. According to the most recent data available, 90% of men with low-risk PCa receive radical therapy [26]. The USPSTF position on overtreatment is valid. However, this recommendation reflects the US situation and should not be interpreted as applying to PSA screening in constituencies for which active surveillance for low-risk

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Letters to the Editor NOT referring to a recent journal article

term data (ie, the Göteborg study) document mortality reduction of 50% and a number needed to treat as low as seven. Overtreatment can be reduced by active surveillance. The USPSTF has “thrown the baby out with the bathwater.” PSA, used intelligently (as suggested by Schroder [27]), has the potential to reduce PCa mortality at an acceptable cost.

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Guidelines

2012 edition

8.1.1.2 *Active surveillance (AS)*

Active surveillance is also known as 'active monitoring'. It is the new term for the conservative management of PCa. Introduced in the past decade, it includes an active decision not to treat the patient immediately. Instead, the patient is followed up under close surveillance and treated at pre-defined thresholds that classify progression (i.e. short PSA doubling time and deteriorating histopathological factors on **repeat biopsy**). The treatment options are intended to be curative.

symptomatic tumors were usually high-grade and advanced and were often fatal. Other tumors were found incidentally at the time of surgery for benign enlargement of the prostate. These were often low-grade and localized.

After the introduction of PSA screening in 1987, there was a spike in the rate of prostate cancer cases detected, followed by a persistent elevation over the pre-PSA testing era but no increase in prostate cancer deaths. Other 20-year follow-up studies indicate that only 5% of these men die of prostate cancer.

All of these trends led to the need to modify the approach to diagnosis and treatment of prostate cancer. Today, most cases of prostate cancer are diagnosed by exam-

is a disease-management strategy that delays curative treatment until it is warranted on the basis of defined indicators of disease progression. In contrast, watchful waiting is a strategy that forgoes curative treatment and initiates intervention only when symptoms occur.

The 3 components of a given observational management strategy are eligibility criteria, follow-up protocols to monitor disease progression, and indicators for treatment.

The evidence report identified 16 studies that meet the definition of active surveillance and another 13 that followed patients who did not receive treatment and were followed for symptom progression (watchful waiting).

The most widely accepted criterion for active surveil-

modifying the anxiety-provoking term “cancer” for this condition should be strongly considered. Treatment of low-risk prostate cancer with radical prostatectomy or radiation therapy leads to side effects, such as impotence and incontinence, in a substantial number of patients. Active surveillance has emerged as a viable option that should be offered to patients with low-risk prostate cancer. More than 100 000 men per year who receive a diagnosis of prostate cancer in the United States are candidates for this approach. However, many unanswered questions about active surveillance strategies and prostate cancer require further research and clarification. These include improvements in the accuracy and consistency of pathologic diagnosis of prostate cancer, consensus on which men are the most appropriate candidates for active surveillance, the optimal protocol for active surveillance and the potential for individualizing the approach on the basis of clinical and patient factors, optimal ways to communicate the option of active surveillance to patients, methods to assist patient decision making, reasons for accepting or rejecting active surveillance as a treatment strategy, and short- and long-term outcomes of active surveillance.

Well-designed studies to address these questions and others raised in this statement represent an important health research priority. Qualitative, observational, and interventional research designs are needed. Because of the

lance should be offered participation in multicenter research studies that incorporate community settings and partners.

From University of California, Los Angeles, Schools of Medicine and Public Health and Jonsson Comprehensive Cancer Center, Los Angeles, California; Oregon Health & Science University, Portland, Oregon; University of Washington and University of Washington School of Medicine, Seattle, Washington; University of New England, Biddeford, Maine; Shared Decision Making Resources, Georgetown, Maine; University of Georgia, Athens, Georgia; Lombardi Comprehensive Cancer Center and Georgetown University Hospital, Washington, DC; Intermountain Healthcare, University of Utah School of Medicine, and Amrisys, Salt Lake City, Utah; Albany Medical College and Urological Institute of Northeastern New York, Albany, New York; The University of Iowa, Iowa City, Iowa; United Healthcare, Minneapolis, Minnesota; The Johns Hopkins University School of Medicine and The Sidney Kimmel Comprehensive Cancer Center, Lutherville, Maryland; Wake Forest School of Medicine, Winston-Salem, North Carolina; and Harvard School of Public Health and Dana-Farber Cancer Institute, Boston, Massachusetts.

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Platinum Priority – Prostate Cancer

Editorial by Peter Albertsen on pp. 836–837 of this issue

Careful Selection and Close Monitoring of Low-Risk Prostate Cancer Patients on Active Surveillance Minimizes the Need for Treatment

Mark S. Soloway^{*}, Cynthia T. Soloway, Ahmed Eldefrawy, Kristell Acosta, Bruce Kava, Murugesan Manoharan

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Article info

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Keywords:

Prostate cancer
Active surveillance
Sexual function

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minimum, moderate (≤ 16) erectile dysfunction.

Conclusions: If guidelines for AS are narrowly defined to include only patients with Gleason 6, tumor volume $\leq 20\%$ in one or two biopsy cores, and PSA levels ≤ 10 , few patients are likely to require treatment. Progression-free survival of those treated is likely to be equivalent to patients with similar clinical findings treated at diagnosis.

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PSA ≤ 10 and

Measurements: Kaplan-Meier

survival. Logistic regression determined the predictors of

function, continence, and outcome were obtained and analyzed.

Results and Conclusions: The AS cohort consisted of 730 patients with a mean age of

The NEW ENGLAND JOURNAL of MEDICINE

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JULY 19, 2012

VOL. 367 NO. 3

Radical Prostatectomy versus Observation for Localized Prostate Cancer

Timothy J. Wilt, M.D., M.P.H., Michael K. Brawer, M.D., Karen M. Jones, M.S., Michael J. Barry, M.D.,
William J. Aronson, M.D., Steven Fox, M.D., M.P.H., Jeffrey R. Gingrich, M.D., John T. Wei, M.D.,
Patricia Gilhooly, M.D., B. Mayer Grob, M.D., Imad Nsouli, M.D., Padmini Iyer, M.D., Ruben Cartagena, M.D.,
Glenn Snider, M.D., Claus Roehrborn, M.D., Ph.D., Roohollah Sharifi, M.D., William Blank, M.D.,
Parikshit Pandya, M.D., Gerald L. Andriole, M.D., Daniel Culpin, M.D., and Thomas Wheeler, M.D.,
for the Prostate Cancer Intervention versus Observation Trial (PIVOT) Study Group

CONCLUSIONS

Among men with localized prostate cancer detected during the early era of PSA testing, radical prostatectomy did not significantly reduce all-cause or prostate-cancer mortality, as compared with observation, through at least 12 years of follow-up. Absolute differences were less than 3 percentage points. (Funded by the Department of Veterans Affairs Cooperative Studies Program and others; PIVOT ClinicalTrials.gov number, NCT00007644.)

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Radical Prostatectomy versus Observation for Localized Prostate Cancer

13,022 Men with newly diagnosed prostate cancer entered into screening registry

5023 Were eligible

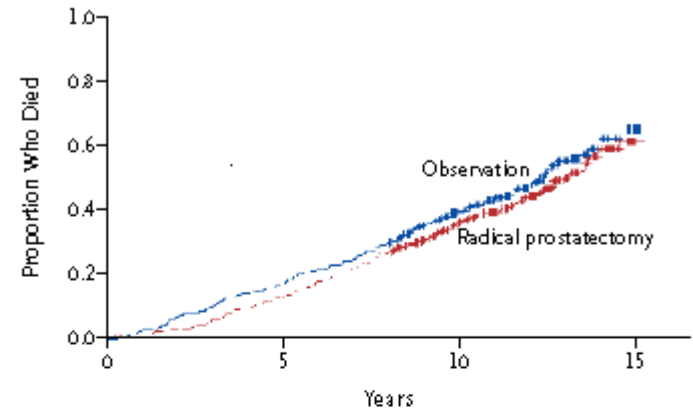
4292 Declined to participate

731 Underwent randomization

364 Were assigned to radical-prostatectomy group
281 Underwent radical prostatectomy
53 Underwent observation
6 Underwent attempted radical prostatectomy but incomplete owing to positive lymph nodes
14 Underwent EBRT
9 Underwent brachytherapy
1 Underwent unspecified irradiation

367 Were assigned to observation group
292 Underwent observation
36 Underwent radical prostatectomy
1 Underwent attempted radical prostatectomy but incomplete
29 Underwent EBRT
8 Underwent brachytherapy
1 Underwent cryotherapy

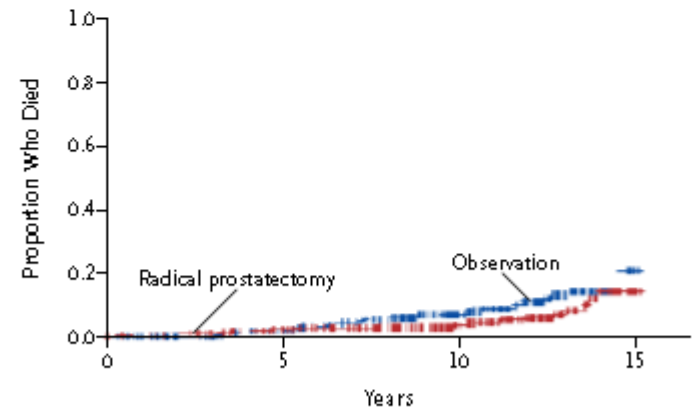
A Death from Any Cause



No. at Risk

Observation	367	341	315	288	258	176	106	26	0
Radical prostatectomy	364	352	329	300	267	187	126	36	0

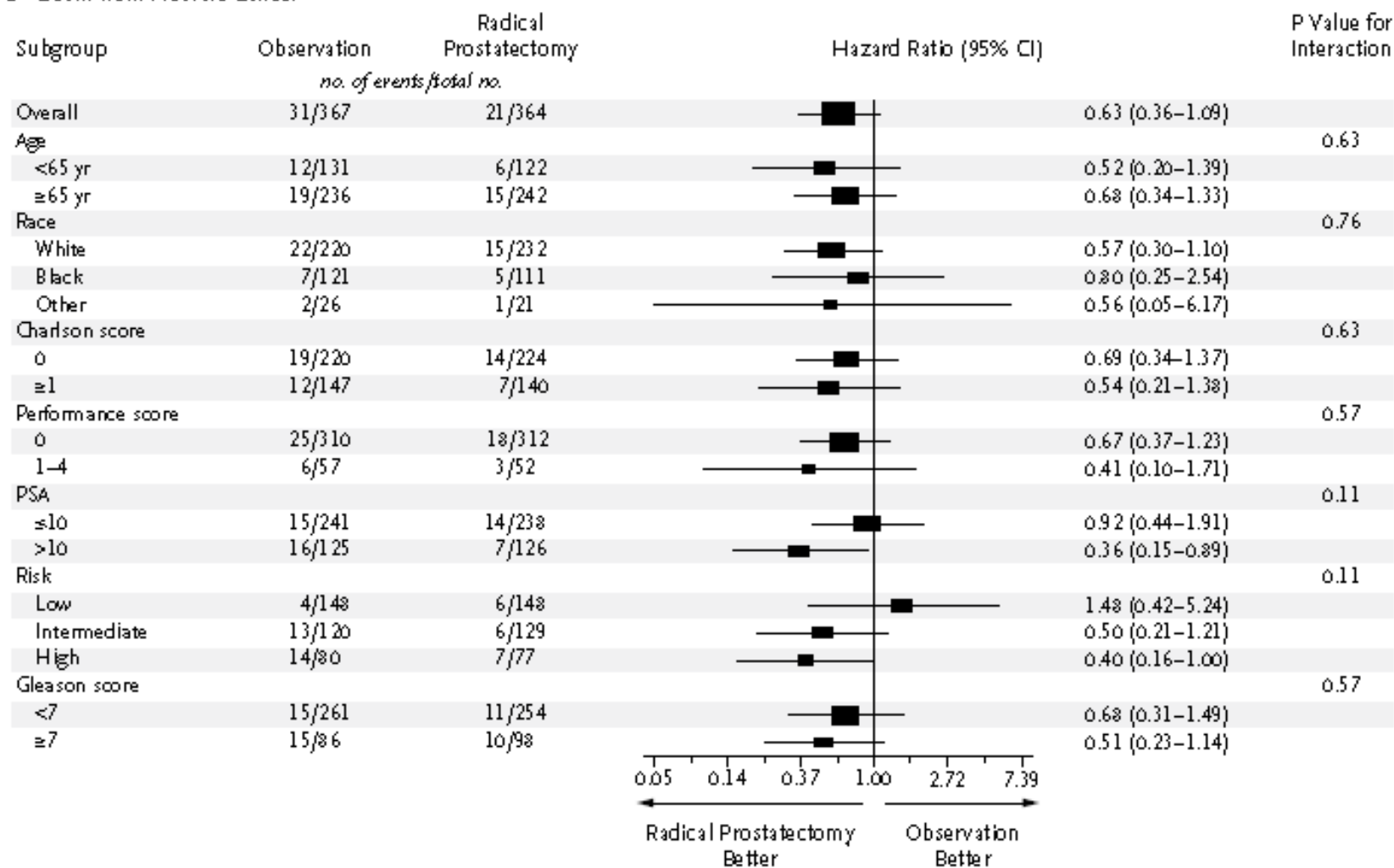
B Death from Prostate Cancer



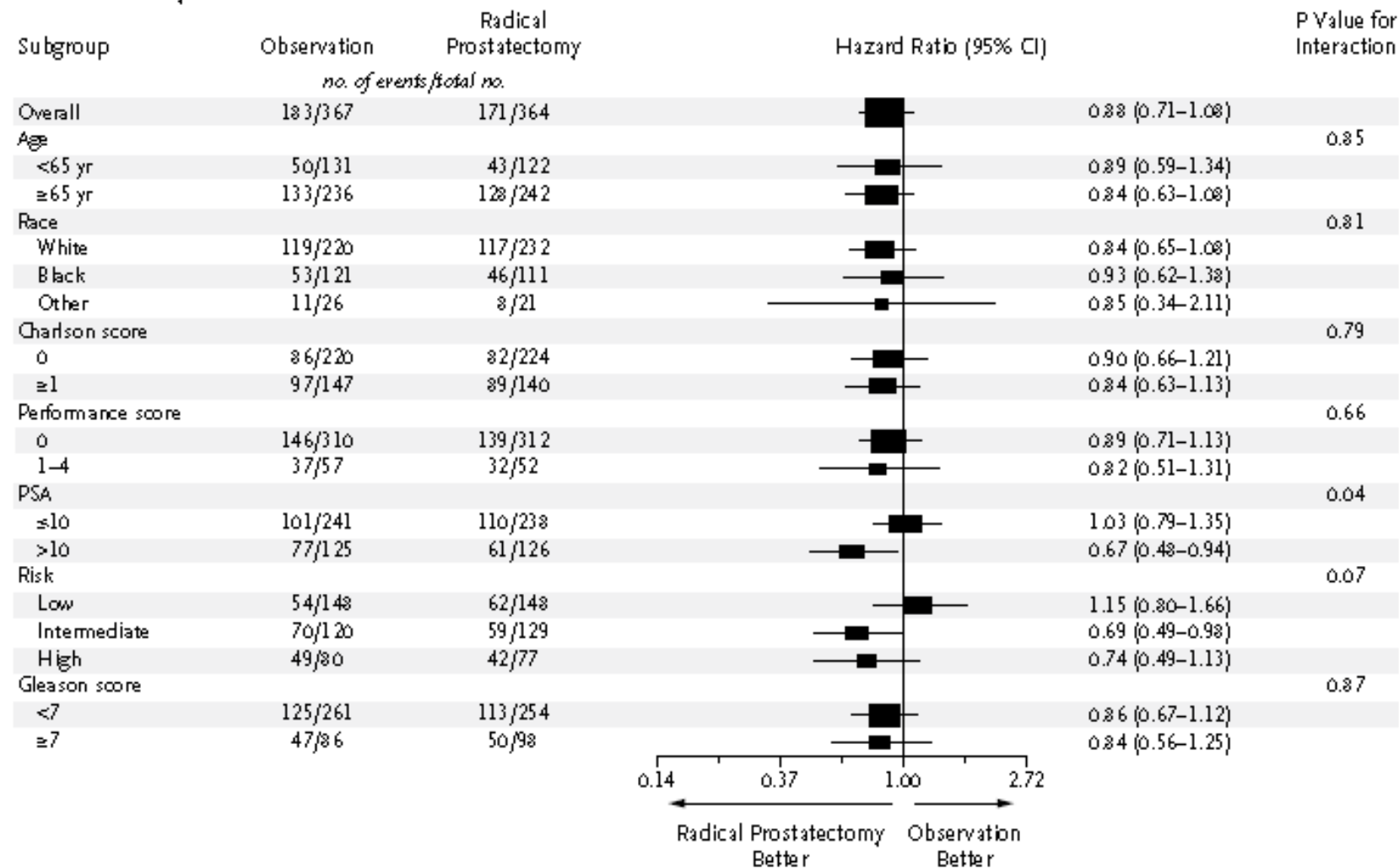
No. at Risk

Observation	367	341	315	288	258	176	106	26	0
Radical prostatectomy	364	352	329	300	267	187	126	36	0

B Death from Prostate Cancer



A Death from Any Cause



Active Surveillance for Prostate Cancer Compared With Immediate Treatment

An Economic Analysis

Kirk A. Keegan, MD¹; Marc A. Dall'Era, MD^{2,3}; Blythe Durbin-Johnson, PhD⁴; and Christopher P. Evans, MD^{2,3}

BACKGROUND: The costs associated with a contemporary active surveillance strategy compared with immediate treatment for prostate cancer are not well characterized. The purpose of this study is to elucidate the health care costs of an active surveillance paradigm for prostate cancer. **METHODS:** A theoretical cohort of 120,000 men selecting active surveillance for prostate cancer was created. The number of men remaining on active surveillance and those exiting to each of 5 treatments over 5 years were simulated in a Markov model. Estimated total costs after 5 years of active surveillance with subsequent delayed treatment were compared with immediate treatment. Sensitivity analyses were performed to test the effect of various surveillance strategies and attrition rates. Additional analyses to include 10 years of follow-up were performed. **RESULTS:** The average simulated cost of treatment for 120,000 men initiating active surveillance with 5 years of follow-up and subsequent delayed treatment resulted in per patient cost savings of \$16,042 (95% confidence interval [CI], \$16,039-\$16,046) relative to initial curative treatment. This represents a \$1.9 billion dollar savings to the cohort. The strict costs of active surveillance exceeded those of brachytherapy in the ninth year of follow-up. A yearly biopsy within the active surveillance cohort increased costs by 22%, compared with every other year biopsy. At 10 years of follow-up, active surveillance still resulted in a cost benefit; however, the savings were reduced by 38% to \$9944 (95% CI, \$9941-\$9948) per patient relative to initial treatment. **CONCLUSIONS:** These data demonstrate that active surveillance represents a considerable cost savings over immediate treatment for prostate cancer in a theoretical cohort after 5 and 10 years of follow-up.

Cancer 2012;118:3512-8. © 2011 American Cancer Society.

Active Surveillance for Prostate Cancer Compared With Immediate Treatment

An Economic Analysis

Kirk A. Keegan, MD¹; Marc A. Dall'Era, MD^{2,3}; Blythe Durbin-Johnson, PhD⁴; and Christopher P. Evans, MD^{2,3}

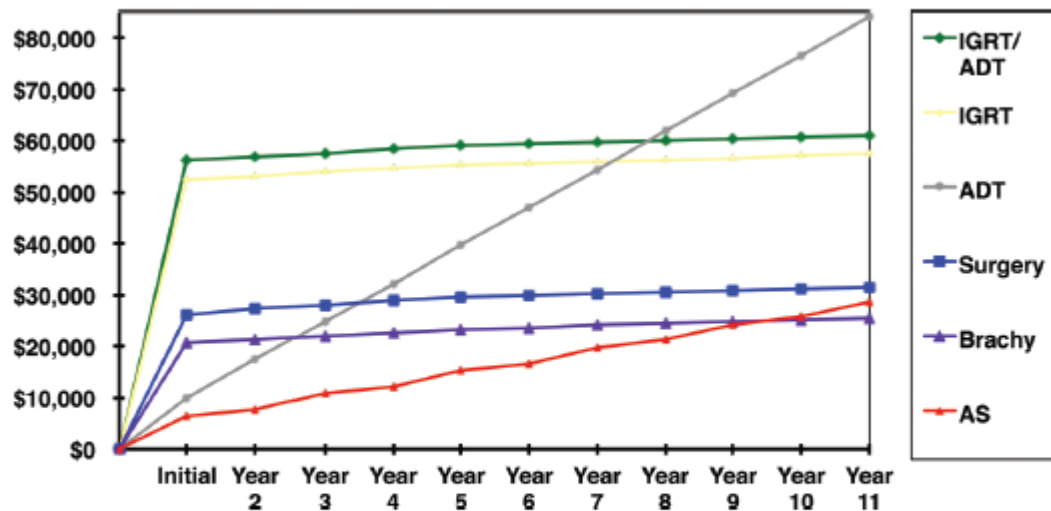


Figure 1. Costs of primary treatment and active surveillance (AS) are shown, with follow-up costs at every other year biopsy. ADT, androgen deprivation therapy; Brachy, brachytherapy; IGRT, image-guided radiotherapy.

By Tomas Philipson, Michael Eber, Darius N. Lakdawalla, Mitra Corral, Rena Conti, and Dana P. Goldman

An Analysis Of Whether Higher Health Care Spending In The United States Versus Europe Is 'Worth It' In The Case Of Cancer

ABSTRACT The United States spends more on health care than other developed countries, but some argue that US patients do not derive sufficient benefit from this extra spending. We studied whether higher US cancer care costs, compared with those of ten European countries, were “worth it” by looking at the survival differences for cancer patients in these countries compared to the relative costs of cancer care. We found that US cancer patients experienced greater survival gains than their European counterparts; even after considering higher US costs, this investment generated \$598 billion of additional value for US patients who were diagnosed with cancer between 1983 and 1999. The value of that additional survival gain was highest for prostate cancer patients (\$627 billion) and breast cancer patients (\$173 billion). These findings do not appear to have been driven solely by earlier diagnosis. Our study suggests that the higher-cost US system of cancer care delivery may be worth it, although further research is required to determine what specific tools or treatments are driving improved cancer survival in the United States.

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The People-to-People Health
Foundation, Inc.

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Mitra Corral is an associate director of health services in the US Medical Group at Bristol-Myers Squibb, in Princeton, New Jersey.

Sexual function with localized prostate cancer: active surveillance vs radical therapy

Roderick C.N. van den Bergh^{†*}, Ida J. Korfage[†], Monique J. Roobol^{*}, Chris H. Bangma^{*}, Harry J. de Koning[†], Ewout W. Steyerberg[†] and Marie-Louise Essink-Bot[†]

Departments of ^{*}Urology and [†]Public Health, Erasmus University Medical Centre, Rotterdam, and ^{*}Department of Social Medicine, Academic Medical Centre, Amsterdam, The Netherlands

Accepted for publication 7 October 2011

Study Type – Outcomes (cohort sample)
Level of Evidence 2b

What's known on the subject? and What does the study add?
The study compares the sexual function of men with localized prostate cancer who chose active surveillance (AS) versus those who chose radical therapy (RT).

OBJECTIVE

To our knowledge, this is the first study to primarily focus on the sexual function of men on AS and to compare it with men who received radical therapy. Thong et al. [24] studied the health-related QoL and symptom

sexual function was compared between groups, and determinants were analysed in

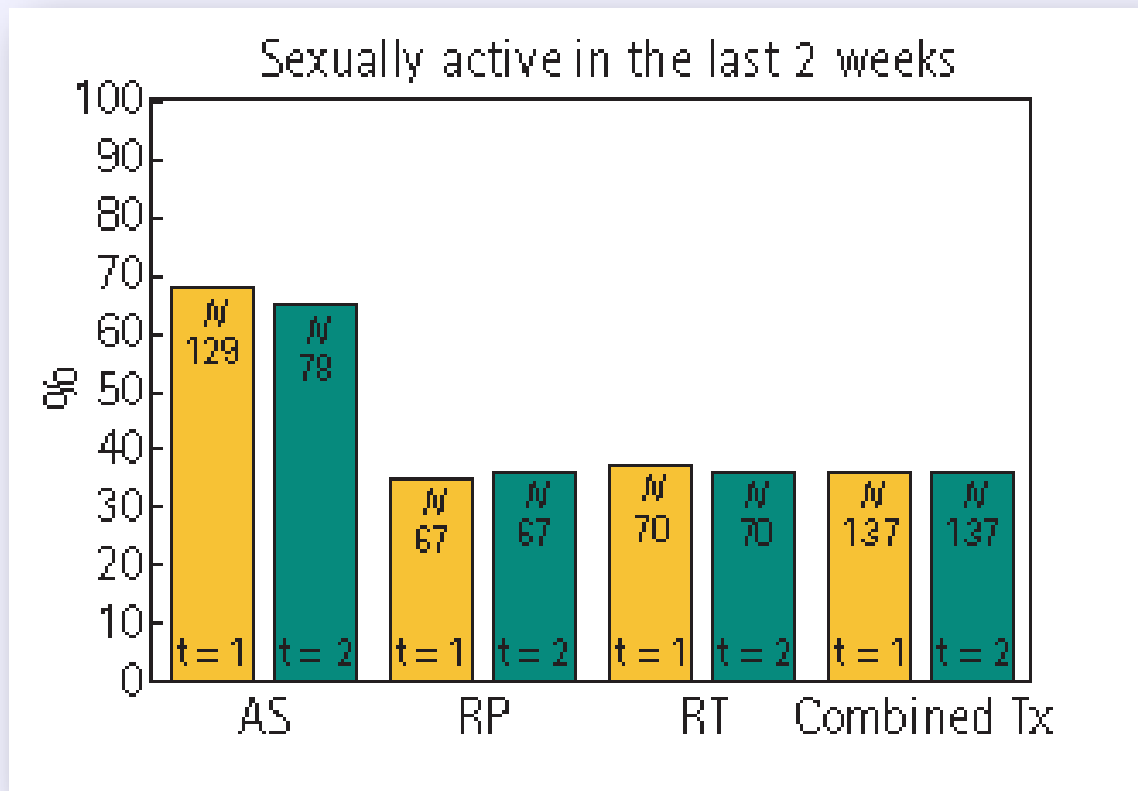
• A total of 44–51% of men in the AS group, 96% of men in the RP group, 73–76% of men in the RT group and 84–85% of men in the combined Tx group who were sexually active had problems getting or keeping an erection.

problems getting or keeping an erection for those on AS.
• The study was non-randomized; the latest advances in RP and RT might impact results.

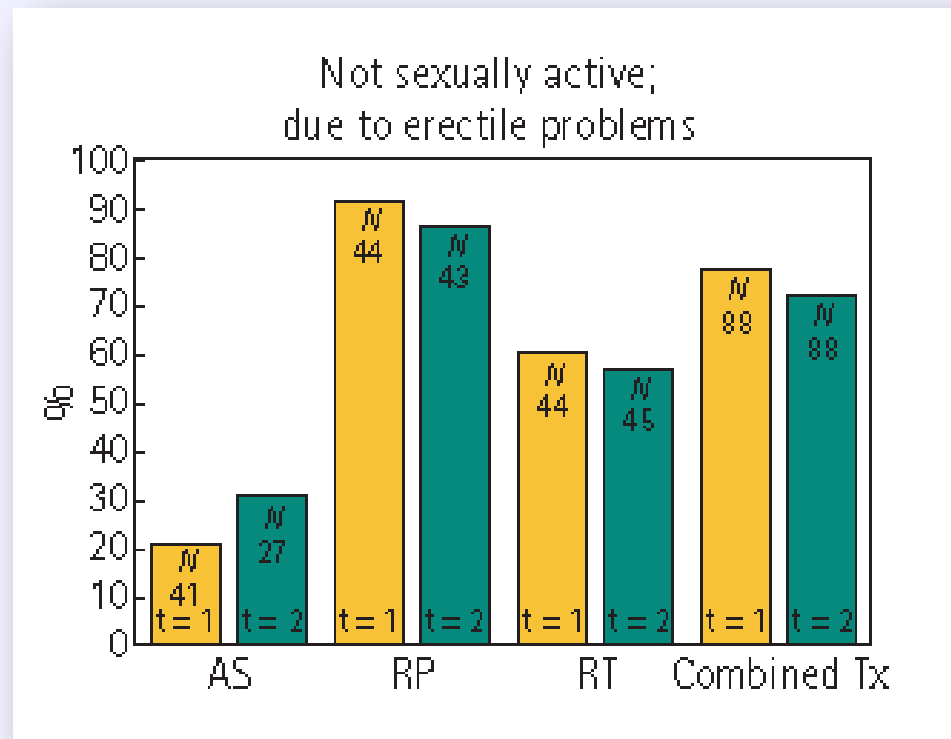
KEYWORDS

active surveillance, prostate cancer, quality of life, radical prostatectomy, radiation therapy, sexual function

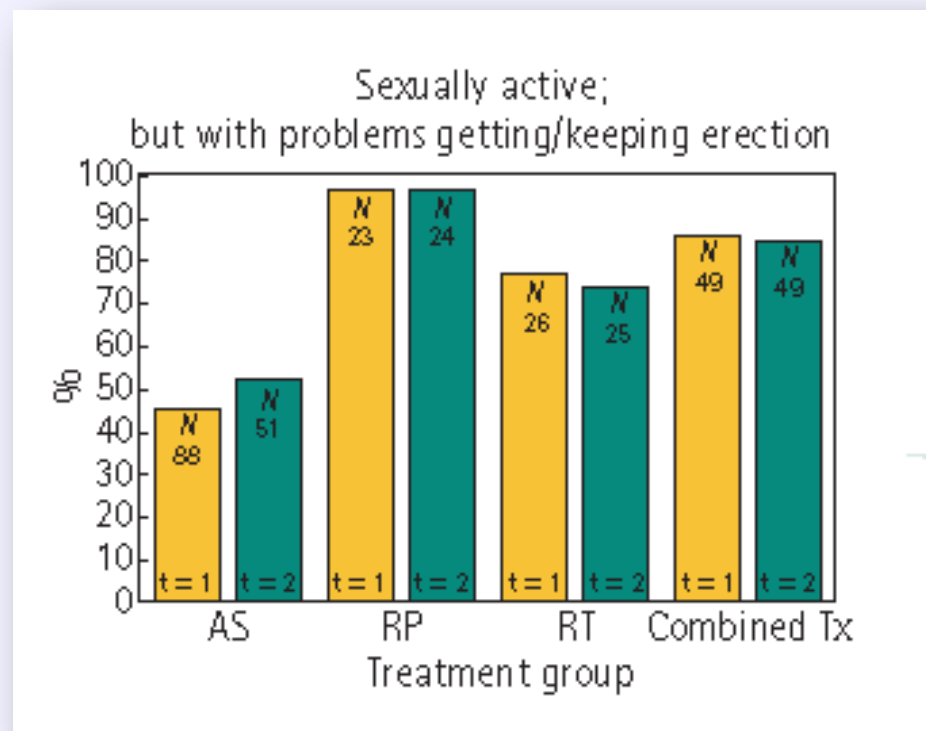
Sexual function with localized prostate cancer: active surveillance vs radical therapy



Sexual function with localized prostate cancer: active surveillance vs radical therapy



Sexual function with localized prostate cancer: active surveillance vs radical therapy



CONCLUSIONS

- Men with localized PCa on AS were more often sexually active than similar men who received radical therapy, especially RP. If not sexually active, this was less often attributable to erectile dysfunction for those on AS. If sexually active, this was less often associated with problems getting or keeping an erection for those on AS.
- The study was non-randomized; the latest advances in RP and RT might impact results.

You're Kidding...I Have Cancer? A Patient's Perspective on Coping With Prostate Cancer and Why Active Surveillance Was Not Chosen

David A. Lipton

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J Natl Cancer Inst Monogr 2012;45:140–142

I teach. In fact, I

should not.

Statistics do not necessarily control treatment decisions for prostate cancer. Gut perceptions also play an important role. If active surveillance is to become a more prevalently adopted treatment, it well may be that the medical profession will have to discover how to influence that gut perception.

a discussion
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have it, the
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What I Learned From Engaging In a Treatment Selection Process

What is it that might be gleaned from an analysis of a decision-making process for responding to a diagnosis of prostate cancer when that process was conducted arguably by a relatively

Multidisciplinary Care and Pursuit of Active Surveillance in Low-Risk Prostate Cancer

Ayal A. Aizer, Jonathan J. Paly, Anthony L. Zietman, Paul L. Nguyen, Clair J. Beard, Sandhya K. Rao, Irving D. Kaplan, Andrzej Niemierko, Michelle S. Hirsch, Chin-Lee Wu, Aria F. Olumi, M. Dror Michaelson, Anthony V. D'Amico, and Jason A. Efstathiou

Ayal A. Aizer, Harvard Radiation Oncology Program; Jonathan J. Paly, Anthony L. Zietman, Sandhya K. Rao, Andrzej Niemierko, Chin-Lee Wu, Aria F. Olumi, M. Dror Michaelson, Jason A. Efstathiou, Massachusetts General Hospital; Paul L. Nguyen, Michelle S. Hirsch, Anthony V. D'Amico, Brigham and Women's Hospital; Paul L. Nguyen, Anthony V. D'Amico, Dana-Farber Cancer Institute; Irving D. Kaplan, Beth Israel Deaconess Medical Center, Boston, MA.

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Authors' disclosures of potential conflicts of interest and author contributions are found at the end of this article.

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ABSTRACT

Purpose

Multidisciplinary clinics offer a unique approach to the management of patients with cancer. Yet, limited data exist to show that such clinics affect management. The purpose of this study was to determine whether consultation at a multidisciplinary clinic is associated with selection of active surveillance in patients with low-risk prostate cancer.

Patients and Methods

The study comprised 701 men with low-risk prostate cancer managed at three tertiary care centers in Boston, MA in 2009. Patients either obtained consultation at a multidisciplinary prostate cancer clinic, at which they were seen by a combination of urologic, radiation, and medical oncologists in a concurrent setting, or they were seen by individual practitioners in sequential settings. The primary outcome was selection of active surveillance.

Results

Crude rates of selection of active surveillance in patients seen at a multidisciplinary clinic were double that of patients seen by individual practitioners (43% v 22%), whereas the proportion of men treated with prostatectomy or radiation decreased by approximately 30% ($P < .001$). On multivariate logistic regression, older age (odds ratio [OR], 1.09; 95% CI, 1.05 to 1.12; $P < .001$), unmarried status (OR, 1.66; 95% CI, 1.01 to 2.72; $P = .04$), increased Charlson comorbidity index (OR, 1.37; 95% CI, 1.06 to 1.77; $P = .02$), fewer positive cores (OR, 0.92; 95% CI, 0.90 to 0.94; $P < .001$), and consultation at a multidisciplinary clinic (OR, 2.15; 95% CI, 1.13 to 4.10; $P = .02$) were significantly associated with pursuit of active surveillance.

Conclusion

Multidisciplinary care is associated with increased selection of active surveillance in men with low-risk prostate cancer. This finding may have an important clinical, social, and economic impact.

J Clin Oncol 30:3071-3076. © 2012 by American Society of Clinical Oncology

Multidisciplinary Care and Pursuit of Active Surveillance in Low-Risk Prostate Cancer

Approximately 70% of patients with prostate cancer have low-risk disease (ie, Gleason score, ≤ 6 ; pretreatment prostate-specific antigen [PSA], ≤ 10 ng/mL; clinical stage, T1c or T2a), and such patients have the most favorable prognosis.⁴ Current trends in practice patterns suggest that approximately 91% to 95% of low-risk patients in the United States receive definitive therapy; only 5% to 9% undergo active surveillance.^{5,6} No prospective trials of patients with low-risk prostate cancer support the notion that definitive treatment improves disease-specific sur-

Multidisciplinary Care and Pursuit of Active Surveillance in Low-Risk Prostate Cancer

Results

Crude rates of selection of active surveillance in patients seen at a multidisciplinary clinic were double that of patients seen by individual practitioners (43% v 22%), whereas the proportion of men treated with prostatectomy or radiation decreased by approximately 30% ($P < .001$). On multivariate logistic regression, older age (odds ratio [OR], 1.09; 95% CI, 1.05 to 1.12; $P < .001$), unmarried status (OR, 1.66; 95% CI, 1.01 to 2.72; $P = .04$), increased Charlson comorbidity index (OR, 1.37; 95% CI, 1.06 to 1.77; $P = .02$), fewer positive cores (OR, 0.92; 95% CI, 0.90 to 0.94; $P < .001$), and consultation at a multidisciplinary clinic (OR, 2.15; 95% CI, 1.13 to 4.10; $P = .02$) were significantly associated with pursuit of active surveillance.

Conclusion

Multidisciplinary care is associated with increased selection of active surveillance in men with low-risk prostate cancer. This finding may have an important clinical, social, and economic impact.

Multidisciplinary consultation with urologic, radiation, and medical oncologists increases the likelihood that patients receive a balanced perspective on the risks and benefits of all available options.¹⁷ Such a model of care may afford patients the opportunity to make informed decisions that are more consistent with their goals of care. One may speculate that physician claims of efficacy and morbidity are at lower risk of exaggeration under these immediately audited conditions. **If multiple physicians agree on active surveillance and support one another in the recommendation then the patient's understandable concerns about the lack of immediate treatment for their cancer may be reassuringly allayed.**

Presenting Treatment Options to Men with Clinically Localized Prostate Cancer: The Acceptability of Active Surveillance/Monitoring

Jenny L. Donovan

Correspondence to: Jenny L. Donovan, PhD, School of Social and Community Medicine, University of Bristol, Canynge Hall, 39 Whatley Road, Bristol BS8 2PS, UK (e-mail: jenny.donovan@bristol.ac.uk).

Presenting treatment options to men with localized prostate cancer is difficult because of the lack of definitive evidence and the range of treatment options available. Active surveillance and monitoring programs are now a recognized treatment option for men with low-risk localized prostate cancer, but many patients are not fully aware of the details of such programs, and most still opt for immediate radical (surgery or radiotherapy) treatment. The provision of high-quality information with decision aids has been shown to increase the acceptability of active surveillance/monitoring programs. This chapter outlines techniques for providing high-quality information about active surveillance/monitoring, based on the findings of a randomized controlled trial of treatments for localized prostate cancer. **The ProtecT (Prostate testing for cancer and Treatment) trial has randomized over 1500 men between active monitoring, radical surgery, and radical radiotherapy by ensuring that information was tailored to men's existing knowledge and views.** Care was taken with the content, order, and enthusiasm of the presentation of treatments by recruitment staff, and clinicians and other health professionals were supported to feel comfortable with being open about the uncertainties in the evidence and helped to rephrase terminology likely to be misinterpreted by patients. These techniques of information provision should be added to the use of decision aids to enable patients diagnosed with clinically localized prostate cancer in routine practice to reach well-informed and reasoned decisions about their treatment, including full consideration of active surveillance and monitoring programs.

J Natl Cancer Inst Monogr 2012;45:191–196

Focal Therapy for Localized Prostate Cancer: A Phase I/II Trial

H. U. Ahmed,*† A. Freeman, A. Kirkham, M. Sahu, R. Scott, C. Allen,‡
J. Van der Meulen and M. Emberton§

From the Division of Surgery and Interventional Science, University College London (HUA, RS, ME), Department of Urology (HUA, ME), Department of Histopathology (AF) and Department of Imaging (UK, CA) University College London Hospitals NHS Foundation Trust; Clinical Effectiveness Unit, Royal College of Surgeons of England (UV, ME); and Health Services Research Unit, London School of Hygiene and Tropical Medicine (VM), London, United Kingdom

Focal therapy has been investigated as a potential alternative to active surveillance in the management of low-risk prostate cancer.

Focal therapy aims targets the cancer rather than the prostate in an attempt to preserve tissue and function.

Purpose: Men with localized prostate cancer currently face a number of treatment options that treat the entire prostate. These can cause significant sexual and urinary side effects. Focal therapy offers a novel strategy that targets the cancer rather than the prostate in an attempt to preserve tissue and function.

Materials and Methods: A prospective, ethics committee approved trial was conducted to determine the side effects of focal therapy using high intensity focused ultrasound. Multiparametric magnetic resonance imaging (T2-weighted, dynamic contrast enhanced, diffusion-weighted) and template transperineal prostate mapping biopsies were used to identify unilateral disease. Genitourinary side effects and quality of life outcomes were assessed using validated questionnaires. Posttreatment biopsies were performed at 6 months and followup was completed to 12 months.

Results: A total of 20 men underwent high intensity focused ultrasound hemiablation. Mean age was 60.4 years (SD 5.4, range 50 to 70) with mean prostate specific antigen 7.3 ng/ml (SD 2.8, range 3.4 to 11.8). Of the men 25% had low risk and 75% had intermediate risk cancer. Return of erections sufficient for penetrative sex occurred in 95% of men (19 of 20). In addition, 90% of men (18 of 20) were pad-free, leak-free continent while 95% were pad-free. Mean prostate specific antigen decreased 80% to 1.5 ng/ml (SD 1.3) at 12 months. Of the men 89% (17 of 19, 1 refused biopsy) had no histological evidence of any cancer, and none had histological evidence of high volume or Gleason 7 or greater cancer in the treated lobe. In addition, 89% of men achieved the trifecta status of pad-free, leak-free continence, erections sufficient for intercourse and cancer control at 12 months.

MRI = magnetic resonance imaging
PSA = prostate specific antigen
SPC = suprapubic catheter
TPM = template prostate mapping
TRUS = transrectal ultrasound

Submitted for publication August 30, 2010.
Study received ethics committee approval.

Conclusions: Our results appear sufficiently promising to support the further evaluation of focal therapy as a strategy to decrease some of the harms and costs associated with standard whole gland treatments.

Indexed by the Cancer Research United Kingdom Clinical Trials Awards and Advisory Committee/Feasibility Studies Committee, and approved by the National Cancer Research Network.

For another article on a related topic see page 1484.

PROSTATE cancer is associated with treatment options that remain controversial.¹ Whole gland therapy using surgery or radiotherapy is associated with well documented morbidity in-

cluding urinary incontinence (5% to 20%), erectile dysfunction (30% to 60%) and bowel toxicity (5% to 10%). Active surveillance provides a rational choice for some individuals with

Is cure possible?

Is cure necessary?

Is cure possible only when it is not necessary?

The most favorable results in the treatment of the localized prostate cancer are in patients with low-grade and low-volume disease, many of whom may not have suffered from clinical disease progression in their lifetime.

However, cure is necessary in many patients because carcinoma of the prostate remains the second leading cause of cancer death in men.

We need to identify patients most likely to benefit from therapy and to improve the treatment options for those with aggressive or advanced tumors.

Unidade de Próstata

A vigilância ativa é, em muitos casos, a melhor opção para assegurar a qualidade de vida dos doentes diagnosticados com cancro da próstata.

A Unidade de Próstata do Centro Clínico Champalimaud está organizada numa equipa multidisciplinar que avalia personaladamente cada doente e define o plano terapêutico mais adequado entre as múltiplas opções de tratamento apropriadas a cada situação clínica.

Esta equipa de especialistas em cancro da próstata inclui urologistas, oncologistas médicos, radioterapeutas, radiologistas, especialistas em medicina nuclear, patologistas, geneticistas, nutricionistas, enfermeiros, psico-oncologistas e especialistas em cuidados paliativos que abordam a complexidade da doença nos seus diversos estádios de forma a oferecer conselho, diagnóstico, tratamento e reabilitação adequados.

O cancro da próstata é o tumor maligno mais frequente e a terceira causa de morte por cancro no homem. Em Portugal estimam-se 5000 novos doentes e 1880 mortes por ano. Este tumor tem frequentemente um crescimento indolente, não comprometendo a vida ou a qualidade de vida dos doentes.

A equipa da Unidade de Próstata:

Dr. Jorge Fonseca (Urologia)
Dr. Nuno Gil (Oncologia médica)
Dr. Jorge Rebola (Urologia)
Prof. Carlo Greco (Radioterapia)
Dr. Nuno Pimentel (Radioterapia)
Dr. Luís Rosa (Radiologia)
Dra. Inês Santiago (Radiologia)
Prof. Durval Costa (Medicina nuclear)
Dra. Carla Oliveira (Medicina nuclear)
Prof. António Lopez Beltran (Patologia)
Dra. Anna Colomer (Patologia)
Dra. Luzia Travado (Psico-oncologia)
Dr. Sérgio Castedo (Genética)
Dr. Nuno Vau (Oncologia médica)

