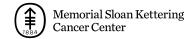


Prostate Cancer Survivorship

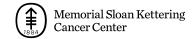
February 27, 2018 Christina Leung-Job, NP Peggy Lynch, NP Ann Kuo, MD

Authors/presenters report no relevant conflicts of interest



Outline

- Introduction: facts, stats, epidemiology
- Types of treatments patients receive
- Available guidelines
- Health promotion
- Screening for recurrence
- Screening for second cancers
- Long-Term and late effects of prostate cancer treatment
- Summary





Introduction: Facts and Statistics

Introduction

			Female		
Prostate	164,690	19%	Breast	266,120	30%
Lung & bronchas	121,600	14%	Lung & bronchus	112,350	13%
Colon & rectum	75,610	9%	Colon & rectum	64,640	7%
Urinary bladder	62,380	7%	Uterine corpus	63,230	7%
Melanoma of the skin	55,150	6%	Thyroid	40,900	5%
Kidney & renal pelvis	42,680	5%	Melanoma of the skin	36,120	4%
Non-Hodgkin lymphoma		5%	Non-Hodgkin lymphoma	32,950	4%
Oral cavity & pharynx	37,160	4%	Pancreas	26,240	3%
Leukemia	35,030	4%	Leukemia	25,270	3%
Liver & intrahepatic bile o		4%	Kidney & renal pelvis	22,660	3%
All sites	856,370	100%	All sites	878,980	100%
Male			Female		
Lung & bronchus	83,550	26%	Lung & bronchus	70,500	25%
Prostate	29,430	9%	Breast	40,920	14%
Colon & rectum	27,390	8%	Colon & rectum	23,240	8%
Pancreas	23,020	7%	Pancreas	21,310	7%
Liver & intrahepatic bile of	duct 20,540	6%	Ovary	14,070	5%
Leukemia	14,270	4%	Uterine corpus	11,350	4%
Esophagus	12,850	4%	Leukemia	10,100	4%
Urinary bladder	12,520	4%	Liver & intrahepatic bile duct	9,660	3%
Non-Hodgkin lymphoma	11,510	4%	Non-Hodgkin lymphoma	8,400	3%
Kidney & renal pelvis	10,010	3%	Brain & other nervous system	7,340	3%
All sites	323,630	100%	All sites	286,010	100%



Facts and Stats

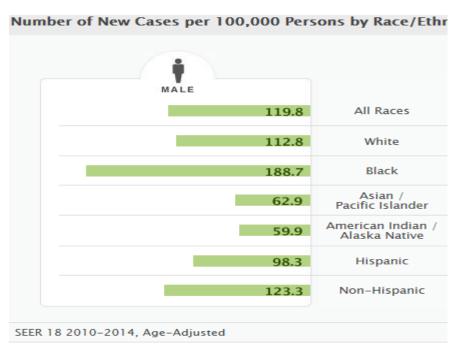
- 91% of prostate cancers are discovered at local or regional stage
 - Five-year survival approaches 100%!
- 5-year survival diagnosed at distant stage is 30%

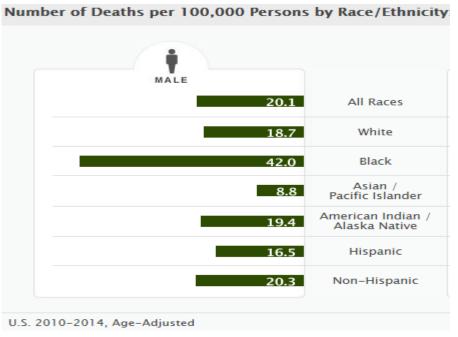
• 10-year survival rate for <u>all stages combined</u> is 98%



Facts and Stats

Risk is 74% higher in blacks than in whites – unclear why









What kinds of treatment do patients receive?

Treatment of Localized Prostate Cancer

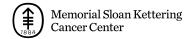
Expectant management options

Active surveillance:

Careful monitoring for disease progression with PSA, DRE, and prostate biopsy at regular intervals

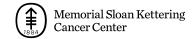
Watchful waiting:

Less intensive follow-up, fewer tests, monitoring symptoms



Topics not covered in detail today

- Chemotherapy
- Androgen Deprivation Therapy
 - Primary treating specialist will generally be managing the ADT throughout duration
 - PCP may need to be involved in monitoring and managing adverse effects of ADT
- Immunotherapy
- Metastatic disease
- Palliative care





Reference guidelines

Guidelines

American Cancer Society Prostate Cancer Survivorship Care Guidelines (CA Cancer J Clin 2014)

ACS process dictates that these guidelines will be updated and rewritten every 5 years

ASCO endorsement of ACS guidelines (J Clin Oncol 2015)

American Cancer Society Prostate Cancer Survivoratio Guideline

American Cancer Society Prostate Cancer Survivorship Care Guidelines

Ted A. Skolarus, MD, MPH¹; Andrew M.D. Wolf, MD²; Nicole L. Erb, BA²⁺; Durado D. Brooks, MD, MPH⁴; Brian M. Rivers, PhD, MPH²; Willie Underwood III, MD, MPH, MSci⁴; Andrew L. Salner, MD²; Michael J. Zelefsky, MD⁸; Jeanny B. Aragon Ching, MD¹; Susan F. Slovin, MD, PhD ¹⁰; Daniela A. Wittmann, PhD, MSW, CST¹¹; Michael A. Hoyt, PhD ¹² Victoria J. Sinibaldi, CRNP¹³; Gerald Chodak, MD ¹⁴; Mandi L. Pratt-Chapman, MA¹⁵; Rebecca L. Cowens-Alvarado, MPH¹⁶

Prostate cancer survivors approach 2.8 million in number and represent 1 in 5 of all cancer survivors in the United States. While guidelines exist for timely treatment and surveillance for recurrent disease, there is limited availability of guidelines that facilitate the provision of posttreatment clinical follow-up care to address the myriad of long-term and late effects that survivors may face. Based on recommendations set forth by a National Cancer Survivorship Resource Center expert panel, the American Cancer Society developed clinical follow-up care guidelines to facilitate the provision of posttreatment care by primary care clinicians. These guidelines were developed using a combined approach of evidence synthesis and expert consensus. Existing guidelines for health promotion, surveillance, and screening for second primary cancers were referenced when available. To promote comprehensive follow-up care and optimal health and quality of life for the posttreatment survivor, the suidelines address health promotion, surveillance for prostate cancer recurrence, screening for second primary cancers, long-term and late effects assessment and management, psychosocial issues, and care coordination among the oncology team, primary care clinicians, and nononcology specialists. A key challenge to the development of these guidelines was the limited availability of published evidence for management of prostate cancer survivors after treatment. Much of the evidence relies on studies with small sample sizes and retrospective analyses of facility-specific and population databases. CA Cancer J Clin 2014;64:225-249. © 2014 American Cancer Society.

Keywords: prostate cancer, survivorship, clinical care, follow-up, guidelines, primary care, quality of life, survivorship care plan, long-term effects, late effects, care coordination



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Introduction

Prostate cancer survivors approach 2.8 million in number and represent 1 in 5 of all cancer survivors and over 4 in 10 male cancer survivors in the United States. Given that long-term survival is common after prostate cancer treatment, distinctly characterizing cancer survivorship (the phase of care after active treatment) and addressing survivors' unique needs are critical to quality cancer care.2 Nearly a decade ago, a landmark report from the Institute of Medicine entitled From Cancer

JOURNAL OF CLINICAL ONCOLOGY

ASCO SPECIAL ARTICLE

Prostate Cancer Survivorship Care Guideline: American Society of Clinical Oncology Clinical Practice Guideline Endorsement

Matthew J. Resnick, Christina Lacchetti, Jonathan Bergman, Ralph J. Hauke, Karen E. Hoffman, Terrence M. Kuneel, Alicia K. Moreans, and David F. Penson

ABSTRACT The guideline aims to optimize health and quality of life for the post-treatment prostate cancer survivor by comprehensively addressing components of follow-up care, including health promotion, prostate cancer surveillance, screening for new cancers, long-term and late functional effects of the disease and its treatment insuchosocial issues, and coordination of care between the survivor's primary care physician and prostate cancer specialist.

The American Cancer Society (ACS) Prostate Cancer Survivorship Care Guidelines were reviewed for developmental rigor by methodologists. The American Society of Clinical Oncology (ASCO) Endorsement Panel reviewed the content and recommendations, offering modifications and/or qualifying statements when deemed necessary.

The ASCO Endorsement Panel determined that the recommendations from the 2014 ACS Prostate Cancer Survivorship Care Guidelines are clear, thorough, and relevant, despite the limited availability of high-quality evidence to support many of the recommendations. ASCO endorses the ACS Prostate Cancer Survivorship Care Guidelines, with a number of qualifying statements and modifications.

Recommendations

Assess information needs related to prostate cancer, prostate cancer treatment, adverse effects. and other health concerns and provide or refer survivors to appropriate resources. Measure prostate-specific antigen (PSA) level every 6 to 12 months for the first 5 years and then annually, considering more frequent evaluation in men at high risk for recurrence and in candidates for salvage therapy. Refer survivors with elevated or increasing PSA levels back to their primary treating physician for evaluation and management. Adhere to ACS guidelines for the early detection of cancer. Assess and manage physical and psychosocial effects of prostate cancer and its treatment. Annually assess for the presence of long-term or late effects of prostate cancer and

Porson, Vanderbit University Medical Center and Tennessee Valley Veterans Affairs Health Care System: Alicia K. Mongans, Vanderbilt-Ingram Cancer Contex. Nashville, TN, Christina Lacchetti, American Society of Clinical Oncology, Alexandria, VA: Jonathan Bergman, David Getten School of Med one. University of California, Los Angel ies and Veterans Health Administra Specialists, Omaha, NE; Karen E, Hoff-man, University of Texas MD Andersor

of Greater Los Angeles, Los Angeles, CA; Ralph J. Hautin, Netrosta Cancer Cancer Center, Houston, TX: and errence M. Kungel, Mainer Coattoon to Fight Prostate Cancer, Augusta, MI. Published online shead of print at

Matthew J. Floorist and David F.

www.joo.org.on.February 9, 2016. Clevoal Practice Guidelina Committee approval November 14, 2014.

Editor's note: This American Society of Clinical Choology clinical practice guide line endorsement depotes recomme dations based on the review and analysis of the relevant literature in the American Cancor Society Prostate Cancer Sunworship Care Guidelines. Additional information, which may include methodology and data supple ments, alide sets, patient versions. equently asked questions, and other



Health promotion in the prostate cancer survivor

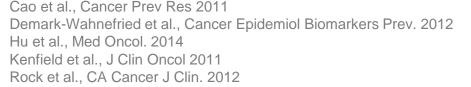
Health promotion

 Obesity: worse health outcomes (prostate cancer-specific mortality and biochemical recurrence)



 Exercise: some studies showing decreased risk of recurrence, lower overall and prostate cancer-specific mortality







Health promotion

- Common questions:
 - Diet
 - What supplements should I take?
 - Refer to MSK Herbs website
 - Integrative Medicine



Cao et al., Cancer Prev Res 2011
Demark-Wahnefried et al., Cancer Epidemiol Biomarkers Prev. 2012
Hu et al., Med Oncol. 2014
Kenfield et al., J Clin Oncol 2011
Rock et al., CA Cancer J Clin. 2012



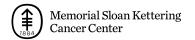


Screening for prostate cancer recurrence

Surveillance for Recurrence

How often should we monitor PSA?

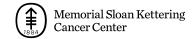
- Who should do the PSA?
 - ASK the specialist to be explicit. WHEN does the responsibility completely transfer to YOU?



Why check a PSA?

To monitor for "Biochemical recurrence"

- Definition
- When to refer back?



PSA levels

After radical prostatectomy

What to expect

PSA undetectable (<0.03 ng/mL within 2 months

Refer back if



PSA becomes detectable

After radiation therapy

PSA reaches lowest level ("PSA nadir") after 6 months to several years



PSA doubles*

- Target PSA < 1.0 ng/mL
- "PSA bounce": PSA rises then falls. Self limited, NOT a recurrence but can cause patient concern

*Note: if PSA hasn't doubled, provide reassurance and monitor annually



Practical pointers on PSA

- Common activities that may increase PSA: straining before urination, riding bike, sexual activity
- In RT patients, suggest avoiding above activities before a PSA check



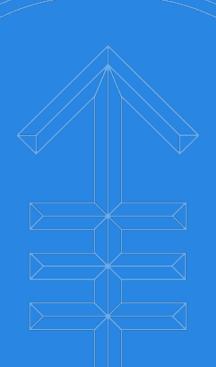
Digital Rectal Exam

Only in patients with history of RT and detectable PSA





Screening for second malignancies



Screening for Second Primary Cancers

- Slightly higher risk of secondary malignancies after RT compared with surgery
 - Irradiated area: bladder and colon/rectum
- No evidence supporting increased frequency or intensity of screening
- Adhere to routine screening guidelines
 - If any symptoms such as hematuria or rectal bleeding, proceed with workup
 - If not due to cancer, talk to treating radiation oncologist and other specialists for multidisciplinary management





Long-term and Late effects of prostate cancer treatment: Identification and management

Long-Term and Late Effects of Therapy

SURGERY

Urinary

- Incontinence (stress)
- Urgency, frequency, nocturia, dribbling
- Urethral stricture

Sexual

- Erectile dysfunction
- Lack of ejaculation
- Orgasm changes (without erection, associated with incontinence)
- Penile shortening

RADIATION THERAPY

Urinary

- Same as with surgery
- Hematuria

Sexual

- Progressive erectile dysfunction
- Decreased semen volume

Bowel

- Fecal urgency, frequency, incontinence
- Blood in stool
- Rectal inflammation, pain

BOTH: EXPECTANT MANAGEMENT

- Stress, anxiety, worry
- Risks associated with repeat biopsies, PSA, DREs
- Symptoms associated with disease progression

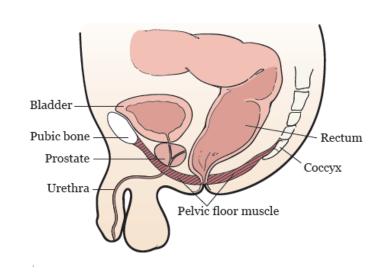


Management of Bowel dysfunction

- High-fiber diet, bulking agents, stool softeners, topical steroids, antiinflammatories
- Colorectal cancer screening per routine guidelines
- Other rectal symptoms (e.g. sphincter dysfunction, leakage of stool/mucous, rectal urgency and frequency): occur shortly after radiation therapy and usually improve over time; consider high-fiber diet and bulking agents (e.g. Metamucil®, Benafiber®)
- Refer to specialist if refractory or new onset symptoms



Kegels for men



How do I identify my pelvic floor muscles?

Muscle you tighten to prevent urine from leaking; to hold back gas when you don't want to pass it; to stop urine stream

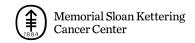
How do I perform Kegel exercises?

Hold pelvic floor muscle in for 10 sec. Slowly and completely relax for 10 seconds. Repeat 10 times, at least 3 times daily.

Don't use stomach, leg, or buttock muscles.

When should I do Kegel exercises?

Before you walk
Before you sneeze or cough
On your way to the bathroom
When you move from sitting to standing



Most frequently-expressed patient fears

- Recurrence
- PSA assay difference between treatment center and outside lab

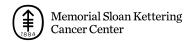


Assess for distress/depression

- 25% of prostate cancer patients experience increased anxiety
- Nearly 10% with major depressive disorder
- African American patients with cancer are less likely to seek, be referred to, and receive psychosocial services
- Effects of low testosterone may affect mood
- Men undergoing ADT with history of depression may be more likely to develop major depressive disorder

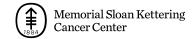


Korfage et al, Br J Cancer. 2006 Punnen et al. BJU Int 2013 Traeger et al, J Clin Oncol 2014 Zhang et al, Palliat Support Care 2012 Casey et al, Asian J Androl. 2012 Mohile et al, Crit Rev Oncol Hematol 2009



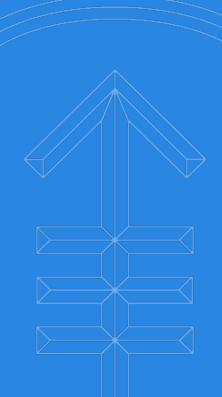
ADT: Overview of possible late effects

- Cardiovascular and metabolic effects
- Anemia
- Symptoms (hot flashes)
 - Consider SSRIs, SNRIs, or gabapentin (not approved by FDA)
- Bone health increased risk of osteoporosis and fractures
 - Baseline DXA; calculate FRAX score
 - High risk men: weekly bisphosphonate, annual IV zoledronic acid
 5mg, or denosumab





Summary and Take-Home Points



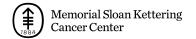
Summary

Things to do:

- Annual PSA; if high or rising refer back to specialist
- DRE only in patients with hx of RT and detectable PSA
- Follow guidelines for standard cancer screening
- Assess for and treat long-term and late effects:
 - Distress, depression, "PSA Anxiety"
 - Bowel, bladder, and sexual dysfunction
- Advise healthy habits (exercise, weight loss)
- For patients on ADT:
 - Optimize bone health with calcium and vitamin D
 - Baseline DEXA and FRAX score calculation
 - If high risk of fracture by FRAX score, consider bisphosphonate or denosumab

Things not to do:

- Routine labs
- Routine imaging



Resources

- NCCN guidelines
 https://www.nccn.org/professionals/physician_gls/pdf/prostate.pdf
- Kegel exercises for men: https://www.mskcc.org/cancer-care/patient-education/pelvic-floor-muscle-kegel-exercises-men
- MSK Male Sexual & Reproductive Medicine Program: 646-888-6024
- MSK Rehabilitation Center (includes physical therapy for pelvic floor dysfunction): 636-888-1900
- American Urological Association Guidelines (for hematuria) http://www.auanet.org/guidelines
- MSK Herbs https://www.mskcc.org/cancer-care/diagnosis-treatment/symptom-management/integrative-medicine/herbs





Thank you!!

Contact us at: survivorship@mskcc.org

