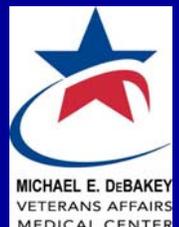


Quality of Life for Men with Prostate Cancer: Targets for Intervention

David M. Latini, PhD

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Agenda

- What is “quality of life”?
- How do we measure it?
- Why do we care?
- What do we know?
- What do we still need to know?
- Where do we go from here?

What is Quality of Life?

- Quality of life is a descriptive term that refers to people's emotional, social and physical well-being, and their ability to function in the ordinary tasks of living.
- Ex.
 - Functional status
 - Symptom distress

How is it usually measured?

- General health-related quality of life
 - SF-36, SF-12, FACIT, EUROQOL, etc.
- Disease-specific
 - UCLA Prostate Cancer Index,
 - Expanded Prostate Cancer Index

Why do we care about PCa QOL?

- Generally dx is early in disease process
- Survival time is usually good
- Current treatments carry with them a number of side-effects for many men

Prostate Cancer Treatment-Related Symptoms

Depends on Treatment Selected

- **Radical Prostatectomy** may lead to
 - Erectile difficulties
 - Urinary incontinence
- **Radiation Therapy** may lead to
 - Bowel problems (burning/pain, incontinence)
 - Erectile difficulties
- **Hormonal therapy** may lead to
 - Fatigue, cognitive changes, weight gain, bone loss, hot flashes, gynecomastia, loss of libido and erectile functioning

**What do we know about PCa
QOL?**

PCa registries

- **Clinical and QOL data**
 - Cancer of the Prostate Strategic Urologic Research Endeavor (CaPSURE™)
 - Prostate Cancer Outcomes Study (PCOS)
- **Clinical data only**
 - Center for Prostate Disease Research (CPDR)
 - Shared Equal Access Regional Cancer Hospital (SEARCH)

PCa QOL timeline

- 1994 – PCOS begins enrollment
- 1995 – Litwin publishes QOL *JAMA* article
- 1995 - CaPSURE™ begins enrollment
- 2000 – Wei publishes EPIC validation study

- 2007 - > 1,900 studies on PCa QOL since 1995

PCOS

- Drawn from six NCI SEER cancer registries
- Participants diagnosed between October 1, 1994 and October 31, 1995, N = ~3,500
- Survey questionnaire sent to patients at 6, 12, 24, and 60 months after the initial diagnosis.
- ~ 26 publications
- Penson and colleagues recently funded to collect longer term outcome data

CaPSURE

- 31 sites, primarily community-based urology practices around the US
- ~ 13,000 men ever enrolled, ~ 7,500 men currently being followed
- Approximately 100 published papers, 25 in QOL
- Patient-reported outcomes collected at enrollment and in biennial mail survey

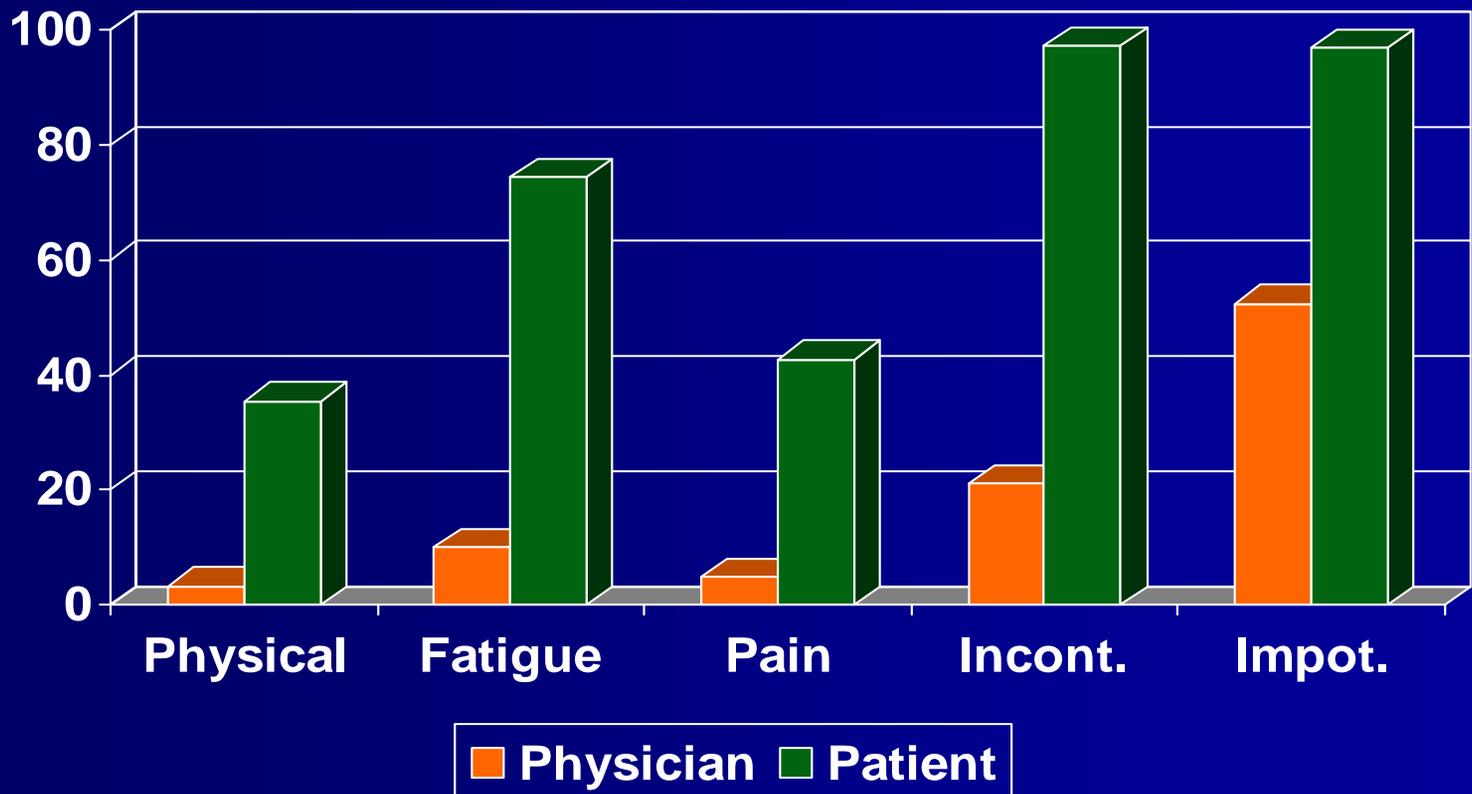
Major Categories of Data

- ~ 1,000 data variables
- Clinical Data
 - Physician reported
 - At diagnosis and each subsequent visit
 - Hospitalizations, death data
- Patient-Reported Outcomes
 - QOL, resource use
 - Enrollment Qx
 - 2 follow-up Qx mailings each year, 75-80% response rate

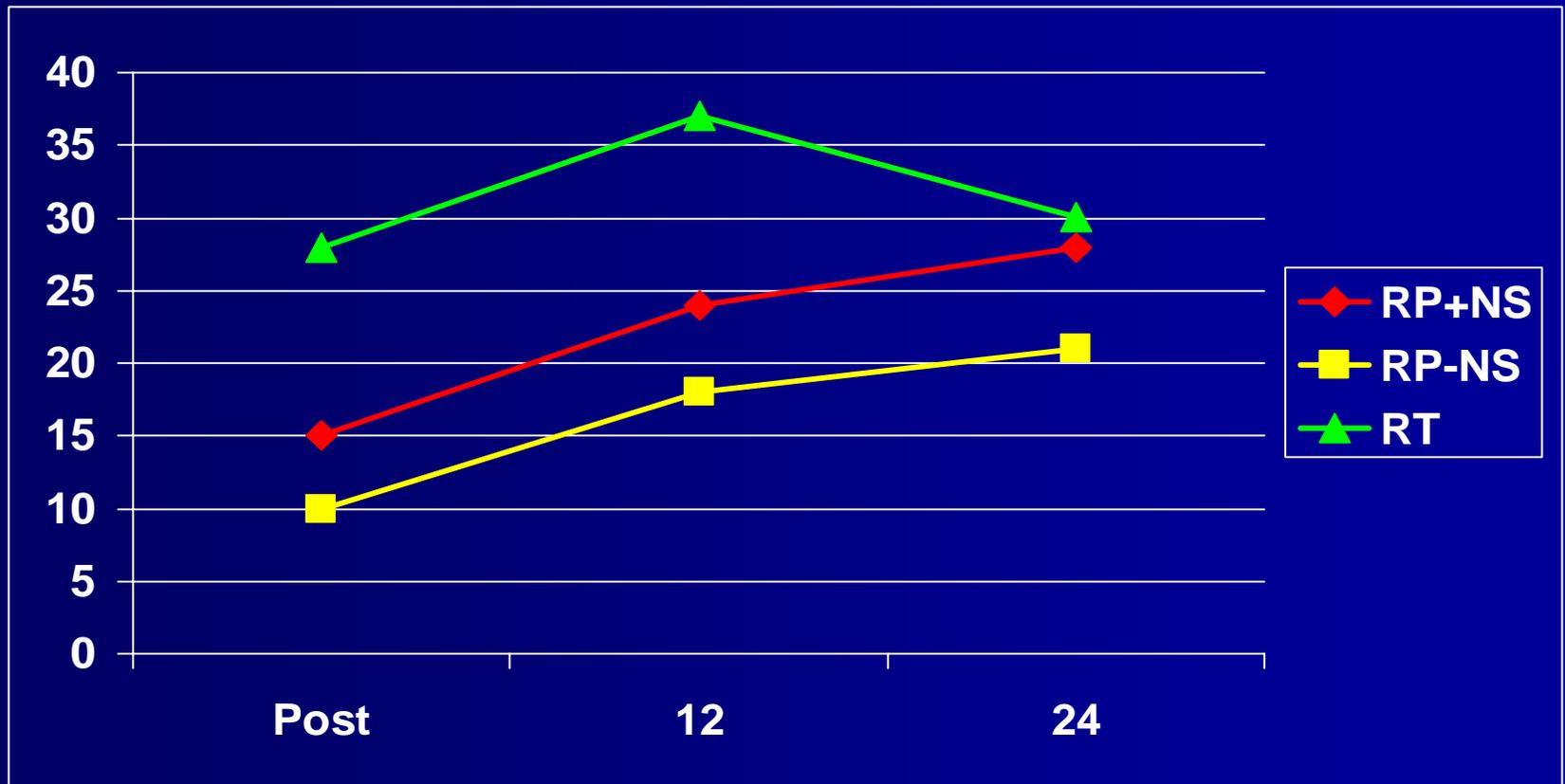
Early CaPSURE QOL Studies

Patient/Physician Reporting HRQOL

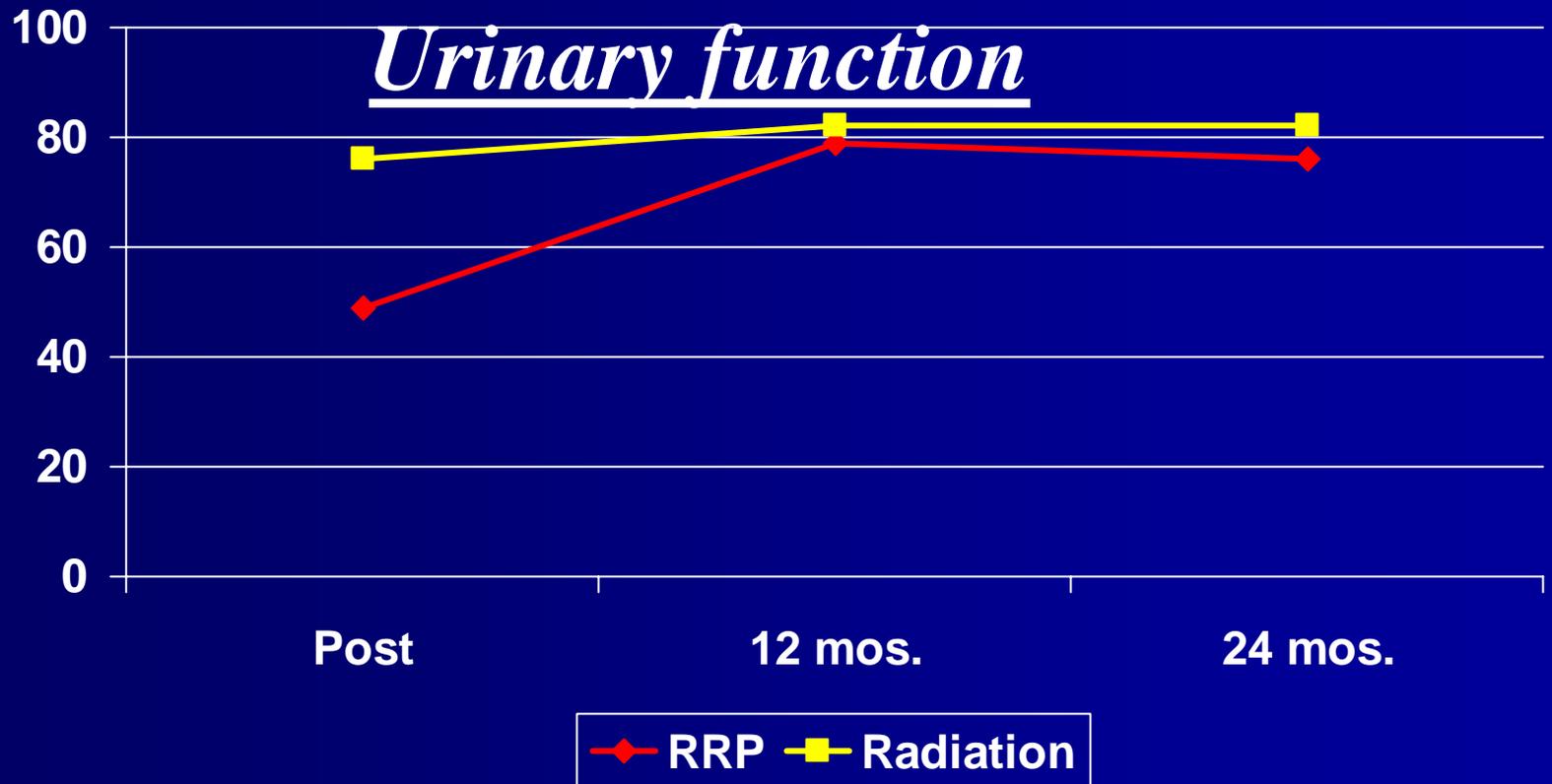
Percentage Reporting Impairment



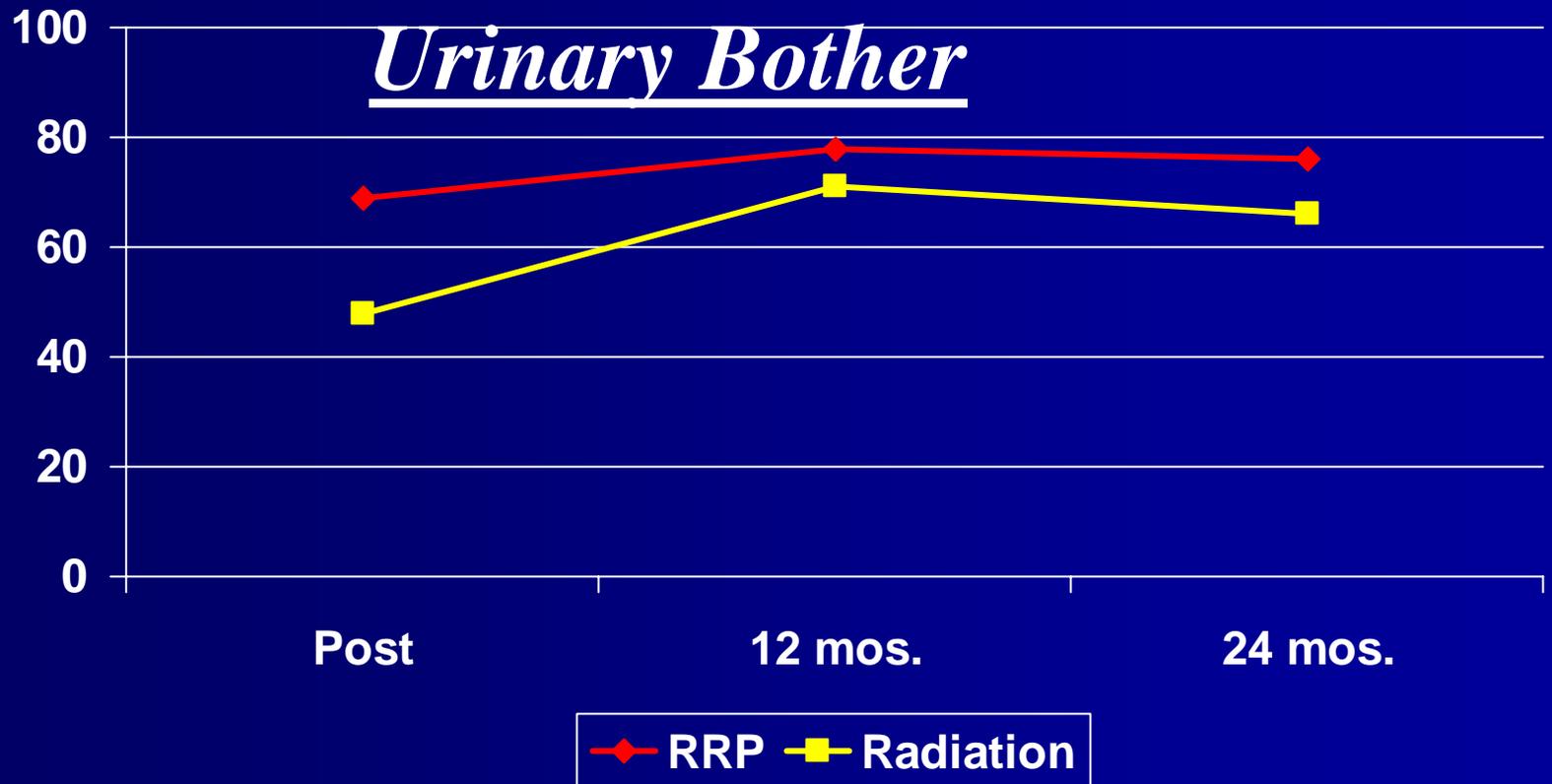
Nerve-sparing surgery



RP vs. Ext Beam Rad.



RP vs. Ext Beam Rad.

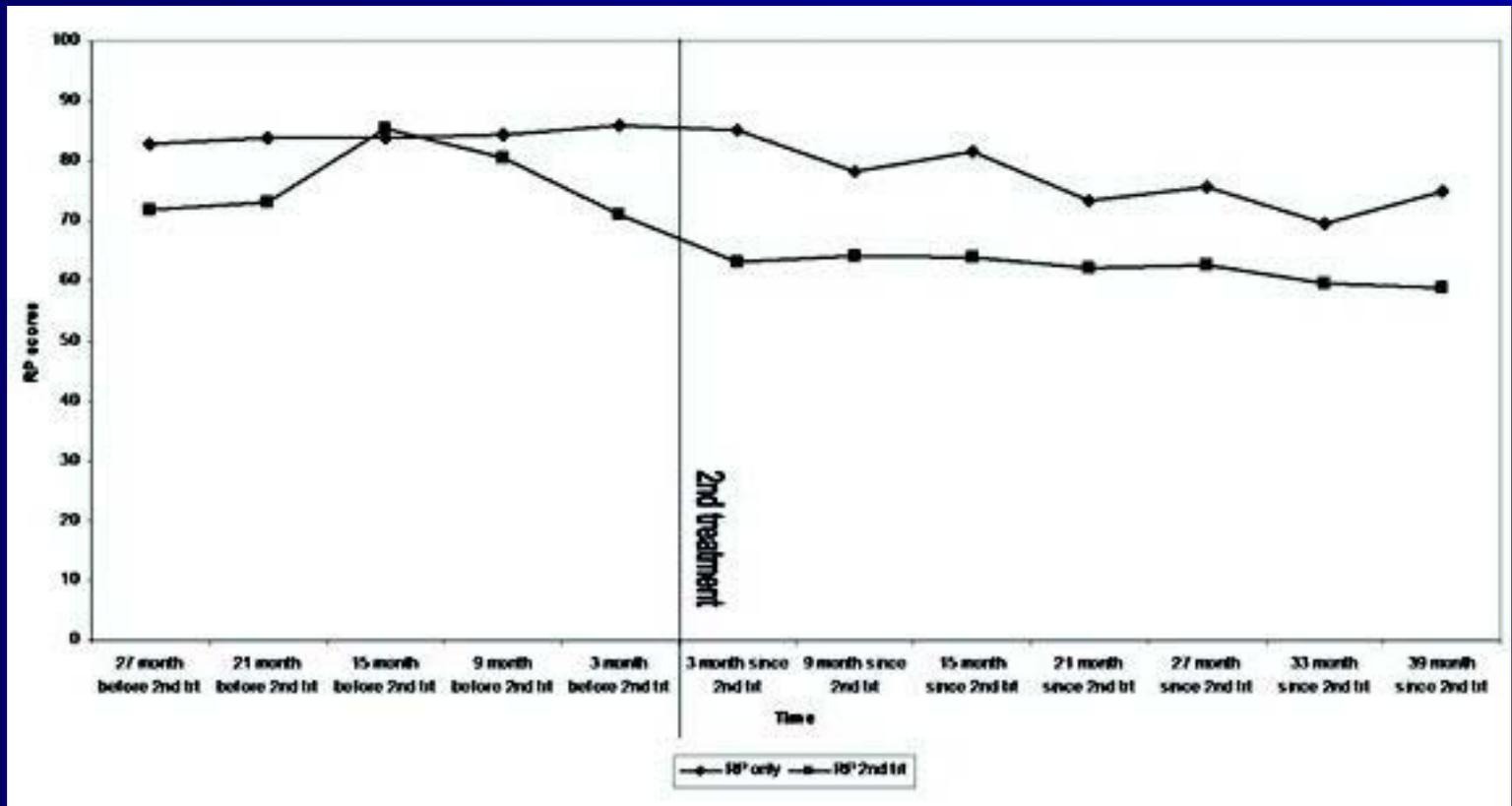


Recent CaPSURE QOL Studies

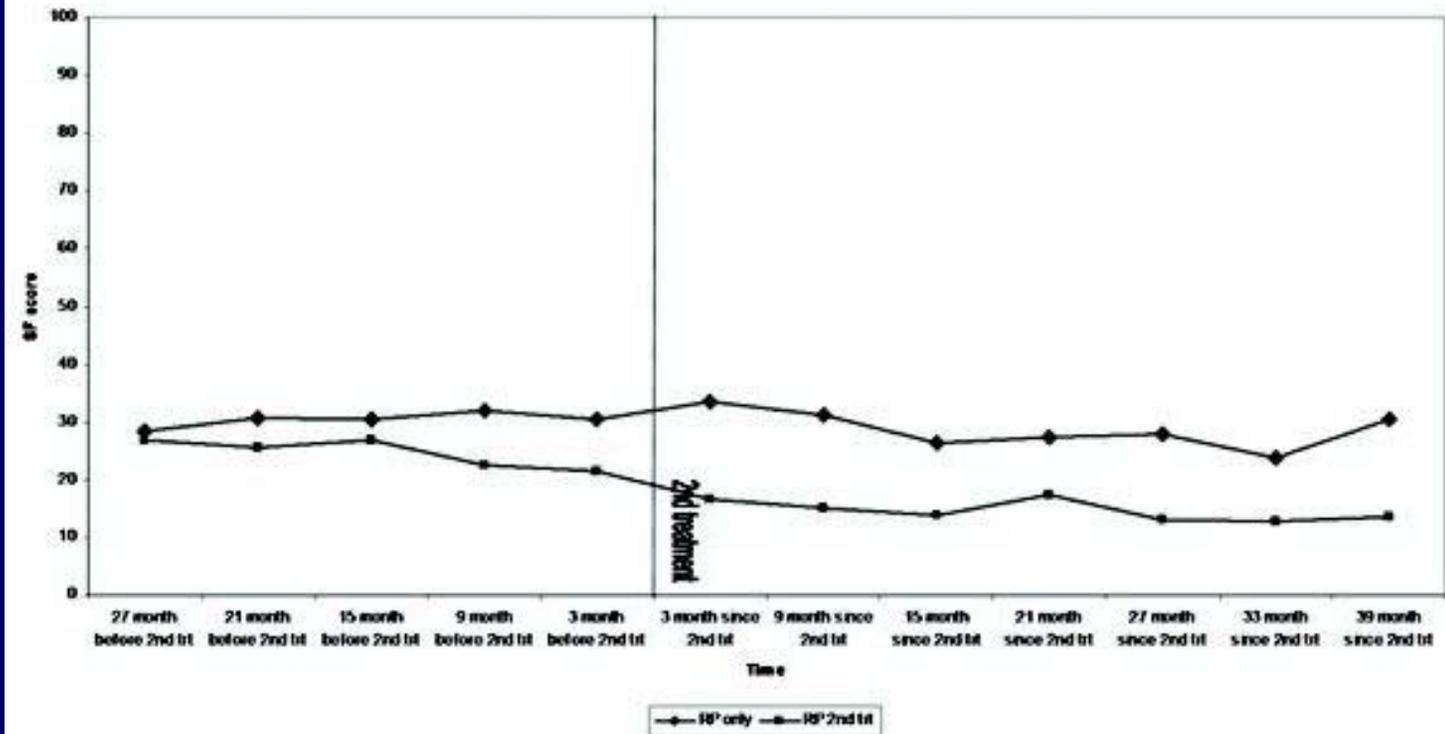
QOL after 2nd tx post-rp

- 2 groups – surgery and no 2nd tx vs. surgery plus 2nd tx
- 897 men – 722 had surgery only and 175 had 2nd tx
- Compared QOL over time for the 2 groups
- 2nd tx men presented with worse disease at enrollment and had worse general QOL

SF-36 – Role Physical – 2nd tx after RP



SF-36 – Sexual Fx – 2nd tx after RP



Education and QOL in the VA

- VA is an equal-access system
- 248 CaPSURE participants treated by 3 VA sites
- Controlling for age, ethnicity, income, year of diagnosis, and site, men with less formal education, compared with those with more, had worse QOL at 24M in
 - Physical Functioning ($p < .05$),
 - Role Physical ($p < .01$),
 - Role Emotional ($p < .01$),
 - Vitality ($p < .01$),
 - Mental Health ($p < .01$),
 - Social Function ($p < .01$),
 - General Health ($p < .001$)
 - Urinary ($p < .01$)
 - Sexual ($p < .05$) functioning.

Anxiety and time to treatment for men on surveillance

- 105 men choosing surveillance rather than active treatment
- Observed for 3 years, 36 men treated, 69 remained on surveillance
- After controlling for baseline disease status, ethnicity, education, age, and PSA velocity, the change in cancer anxiety was a significant predictor receiving treatment.
- Some men on surveillance make treatment decisions based on anxiety, rather than on disease status alone.

Fear of recurrence, treatment satisfaction, and quality of life after RP

- 333 men treated with surgery
- Treatment satisfaction at 6M, fear of recurrence at 12M, QOL at 18M
- Controlled for age, education, number of comorbid medical conditions, and cancer severity
- Better MH related to lower FOR ($p < 0.0001$), higher TS ($p < 0.001$), and the interaction of TS \times FOR ($p < 0.05$) significantly predicted higher mental health QOL scores.
- Better PH related to lower FOR ($p < 0.01$), and the interaction of TS \times FOR ($p < 0.01$)
- Men reporting lower TS and greater FOR endorsed significantly lower levels of QOL compared to other patients in the sample.

Where do we need more research?

- Men with low health literacy
 - Bennett et al – low educ. vs. low literacy
- Gay men
 - Blank et al and Latini et al
- Longer term outcomes – 10+ years
 - Penson et al
- **Intervention studies**

IOM report, 2006

- “Intervention for consequences of cancer and its treatment, for example: medical problems such as lymphedema and sexual dysfunction; symptoms, including pain and fatigue; psychological distress experienced by cancer survivors, and their caregivers.”

– *From Cancer Patient to Survivor: Lost in Transition*

Prostate cancer interventions

- Based on effective programs from BrCa, HIV
- Focused mostly on psychological distress
- Main studies to date
 - Bailey et al – Uncertainty mgt for men on AS
 - Canada et al – Couples intervention for ED
 - Carmack Taylor et al – exercise for ADT patients
 - Giesler et al – Computer-based sx mgt
 - Lepore et al – 6 session psychoeducation groups
 - Maliski et al – description of individualized nursing process, not a standardized intervention
 - Mishel et al – telephone, CBT for uncertainty reduction plus physical symptom mgt
 - Penedo et al – CBT/stress management

Unmet needs for PCa information

- Boberg et al, 2003
 - Greatest need – education programs related to treatment-related symptoms and cancer recurrence.
- Templeton et al, 2003
 - Among men on HT, treatment symptoms and how to manage them were the two most commonly reported areas of unmet informational needs
- Ullrich et al, 2003
 - Distress highest in men with recurrence and physical symptoms.

Psychoeducational groups

- Compared 2 interventions (group education with group education plus discussion) and a control group.
- Both intervention groups increased prostate cancer knowledge.
- Less educated men benefited more from the intervention than men with more education.

The bottom line

- Few intervention studies.
- Most based on what we know from research in breast cancer.
- Most focus on distress, when men are more interested in sx mgt.
- Distress is reduced as sx are better managed.
- Targeted descriptive studies are needed.
- Intervention studies that build on our 10+ years of descriptive studies are needed!

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