

Guideline 26-4

A Quality Initiative of the Program in Evidence-Based Care (PEBC), Cancer Care Ontario (CCO)

Follow-up Care and Psychosocial Needs of Survivors of Prostate Cancer

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An assessment conducted in February 2024 deferred the review of Guideline 26-4. This means that the document remains current until it is assessed again next year. The PEBC has a formal and standardized process to ensure the currency of each document (PEBC Assessment & Review Protocol)

Guideline 26-4 is comprised of 5 sections. You can access the summary and full report here:

https://www.cancercareontario.ca/en/guidelines-advice/types-of-cancer/266

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Guideline 26-4: Section 1

Follow-up Care and Psychosocial Needs of Survivors of Prostate Cancer: Recommendations Summary

Note To Users Of This Summary

This Recommendations Summary may be useful as a quick reference to this guideline. Users are advised to consult the Complete Guideline Report for more information about the evidence base for these recommendations, the quality of the evidence, the interpretation of the evidence and the guideline development process.

GUIDELINE OBJECTIVES

The primary objective of this guideline is to develop recommendations related to the frequency by which prostate-specific antigen (PSA) levels should be tested in men after curative-intent treatment for prostate cancer and to define the most appropriate diagnostic testing if biochemical (BC) recurrence occurs. The secondary objective is to develop recommendations that address psychosocial issues, sexual health, fatigue, urinary health, and bowel heath outcomes associated with treatment for prostate cancer.

TARGET POPULATION

Prostate cancer patients who have undergone curative-intent treatment are the target population for this guideline. For prostate cancer patients who are on active surveillance, please refer to PEBC Guideline 17-9.

INTENDED USERS

This guideline is targeted for radiation oncologists specializing in prostate cancer, family physicians, urologists, nurses, allied health professionals, and any other care provider involved in follow-up care of prostate cancer.

RECOMMENDATIONS

RECOMMENDATION 1

No evidence-based recommendation can be made with respect to follow-up schedule of PSA testing for prostate cancer survivors following curative-intent treatment with surgery.

However, if PSA levels remain undetectable, the Prostate Cancer Follow-up Expert Panel suggests the following as a reasonable schedule. This schedule for PSA testing is in line with PSA kinetics following therapy, other guidelines, and their clinical experience:

- Every three months in year 1
- Every six months in year 2
- Annually thereafter

Qualifying Statements for Recommendation 1

• If PSA levels become detectable, a more frequent PSA surveillance schedule may be appropriate.

• Even though PSA follow-up is recommended annually until end of life, healthcare professionals should use their own discretion in determining the applicability of annual surveillance in patients who are unlikely to benefit from salvage therapy.

RECOMMENDATION 2

No evidence-based recommendation can be made with respect to follow-up schedule of PSA testing for prostate cancer survivors following curative-intent treatment with non-surgery primary therapy, including any form of radiation therapy, cryotherapy, or high-intensity focused ultrasound.

However, the Prostate Cancer Follow-up Expert Panel suggests the following as a reasonable schedule. This schedule for PSA testing is in line with PSA kinetics following therapy, other guidelines, and their clinical experience:

- First test six months after treatment completion
- Every six months until end of year 5
- Annually thereafter

Qualifying Statements for Recommendation 2

Even though PSA follow-up is recommended annually until end of life, healthcare
professionals should use their own discretion in determining the applicability of annual
surveillance in patients who are unlikely to benefit from salvage therapy.

RECOMMENDATION 3

Upon biochemical recurrence, the following diagnostic imaging may be considered:

Diagnostic Test	Appropriateness	Notes		
When local salvage therapy is planned after radiotherapy:				
Bone scan	Usually appropriate	 Appropriate for all men being considered for local salvage therapy 		
CT	Usually appropriate	Appropriate for thorax, abdomen and pelvis imaging		
Multiparametric	Sometimes	Appropriate when used for targeted biopsy		
MRI	appropriate			
FDG, NaF, or	Not usually	Use of NaF and choline PET should be considered		
choline PET	appropriate	experimental		
When salvage radiotherapy is planned after radical prostatectomy:				
Bone scan	Not usually	If performed before initiating salvage RT, would not		
	appropriate	change treatment decision		
CT	Not usually	• If performed before initiating salvage RT, would not		
	appropriate	change treatment decision		
Multiparametric	Not usually	• If performed before initiating salvage RT, would not		
MRI	appropriate	change treatment decision		
FDG, NaF, or	Not usually	Use of NaF and choline PET should be considered		
choline PET	appropriate	experimental		

Abbreviations: CT, computed tomography; FDG, fluorodeoxyglucose; MRI, magnetic resonance imaging; NaF, sodium fluoride; PET, positron emission tomography; PSA, prostate-specific antigen; RT, radiation therapy.

Note: Salvage therapy refers to follow-up treatment provided after biochemical recurrence.

Qualifying Statements for Recommendation 3

- Diagnostic imaging should only be ordered if that test will result in management decisions; consideration should be given to the appropriateness of the test, coupled with available salvage options.
- Salvage therapies following radiation therapy or ablation therapies need to be performed at specialized centres, with imaging decisions dependent on the local evaluation process.

RECOMMENDATION 4

In men who are not being evaluated through regularly scheduled clinical visits, a PSA test should be performed if the following symptoms develop. Additionally, diagnostic imaging specific to the patient's symptom(s) may be indicated.

- Severe and progressive axioskeletal bone pain
- Unexplained weight loss
- Hematuria
- New urinary symptoms
 - o Significant incontinence requiring changing of undergarments, pads, or diapers
 - Urgency
 - Obstructive symptoms
 - Voiding discomfort
 - Nocturia
- Swelling of legs
- New bowel symptoms
 - Rectal bleeding
 - Rectal pain
 - Urgency
 - Change in bowel movement
- Fatigue
 - o Tiredness unrelated to sleep disturbance
 - Lack of energy
 - Weakness or lack of muscle strength
 - Physical, emotional and/or cognitive exhaustion

RECOMMENDATION 5

Men experience very specific and oftentimes long-lasting effects after their primary therapy, usually occurring more than three months after surgery or radiation, or during/after androgen deprivation therapy (ADT). Follow-up healthcare providers should be aware of the domains of quality of life potentially affected by treatment for prostate cancer and the management options available to combat them. Research surrounding management options is lacking. Included management options that are based on the clinical standard in Ontario or expert opinion of the Prostate Cancer Follow-up Expert Panel have been denoted with an asterisk (*). The symptoms listed are based on known profiles; however, individual men respond differently to treatments, resulting in individual side-effect profiles. To ensure optimal quality of life in these men, individual patient-reported outcomes should be measured.

Side-Effect	Primary Treatment	Management Options
Sexual Dysfunction		
		ual health of cancer patients is under development (PEBC Guideline 1

Side-Effect	Primary Treatment	Management Options	
6) and will provi	de more in-dep	th recommendations for sexual dysfunction outcomes.	
Erectile dysfunction	Surgery, RT, and ADT	 Men may be prescribed PDE5 inhibitors as first line treatment* Men who do not respond to PDE5 inhibitors will need more advanced treatments and should be referred to a urologist* Men may be referred to penile rehabilitation programs, which include PDE5 inhibitors, vacuum constriction devices, intracorporal or intraurethral therapy, or placement of penile prostheses* 	
Loss of libido	Surgery, RT, and ADT	 Men and their partners should be referred to a healthcare professional with training in sexual health counselling Testosterone therapy can be considered in men with signs and symptoms of testosterone deficiency and documented low serum testosterone levels provided their cancer is treated and without evidence of persistent or recurrent disease, and if prescribed by the treating oncologist after extensive review of the potential risks* 	
Anorgasmia	Surgery, RT, and ADT	 Men and their partners should be referred to a healthcare professional with training in sexual health counselling* 	
Dry ejaculate	Surgery, RT, and ADT	Men should be educated on dry ejaculate*	
Climaturia	Surgery, RT, and ADT	 Men should be provided education on self-management strategies, such as emptying the bladder before sexual relations, use of a condom, use of a penile constriction band, and Kegel exercises* 	
Penile shortening or curvature	Surgery, RT, and ADT	 Men may be prescribed PDE5 inhibitors, intraurethral and intracorporal prostaglandins, vacuum erection device, or penile prostheses* 	
Infertility	Surgery, RT, and ADT	 Men and their partner should be informed that men treated with rP will become infertile Men and their partners should be informed that some men treated with RT may remain fertile, even when experiencing sexual dysfunction symptoms* 	
Urinary Dysfunct	ion		
Obstructive symptoms	Surgery and RT	 Men should be referred to a urologist to determine whether bladder neck dilatation, transurethral resection, or clean intermittent catheterization may be necessary* Selective alpha antagonists (not in men who underwent rP) may be prescribed* 	
Urgency symptoms	Surgery and RT	 If the man is able to completely empty his bladder, anticholinergic medications may be appropriate* All refractory symptoms should result in a referral to a urologist for evaluation and escalation of therapy if appropriate* 	
Hematuria	RT	• Men with hematuria should be referred to a urologist for evaluation*	
Incontinence requiring urinary pads	Surgery and RT	 Men with persistent leakage impacting QoL should be referred to a urologist to evaluate the cause of incontinence (stress, overflow, etc)* Exercise intervention including resistance, flexibility, and Kegel exercises may improve continence. Specialized physiotherapists may help patients with stress incontinence following rP 	
		 In men with post-prostatectomy incontinence who are unable to perform pelvic floor training, urethral slings or artificial urinary sphincters can be considered 	
Bowel Dysfunction			
Rectal bleeding	RT	All men with rectal bleeding should be referred to a	

Side-Effect	Primary Treatment	Management Options
	Treatment	gastroenterologist for colonoscopy if not done within five years*
		• For men with rectal bleeding post-RT, referral to a
		gastroenterologist who has experience in managing RT proctitis is
		recommended. The anterior rectum should only be biopsied when
		absolutely necessary as this can cause a fistula of the rectum*
		• For men with bleeding secondary to RT proctitis, the following
		strategies may be considered: *
		⊙ Dietary changes to bulk stool
		○ Hydration education
		 Medical treatments (Salofalk [mesalamine] suppositories, topical
		formalin, or argon plasma laser treatments)
		o Refractory RT proctitis should be considered for hyperbaric
		oxygen
Urgency and	RT	For men with urgency and frequency symptoms, the following
frequency		options may be considered: *
symptoms		o Dietary changes to bulk stool
		O Hydration education Modical treatments (antidiarrheals, antichelinersics)
		 Medical treatments (antidiarrheals, anticholinergics) Pelvic floor muscle therapy
Other Physical Si	ide-Fffects	or etvic noor muscle therapy
Anemia	ADT	Investigation for common sources of anemia should be considered*
Body	ADT	Men should be encouraged to participate in an exercise program
composition		o Strategies thoroughly described in PEBC Guideline 19-5 (in
alterations		development)
Fatigue	Surgery, RT,	Men should be encouraged to participate in an exercise program
	and ADT	 Strategies thoroughly described in PEBC Guideline 19-5 (in
		development)
Gynecomastia/	ADT	• In severe cases, surgical excision can be considered and patients
Mastodynia		should be referred to the appropriate specialist*
Hot flushes	ADT	• Treatment with diethylstilbestrol, megestrol acetate, venlafaxine,
		cyproterone acetate, and medroxyprogesterone have been shown to
		decrease number of hot flushes, but should be used with caution
		because treatment with these medications have been associated
		with adverse side-effects (e.g., gynecomastia, depression, weight
D		gain, muscle spasms, insomnia, nausea, elevated blood pressure)
Physical	ADT	Men should be encouraged to participate in an exercise program
activity/ function		o Strategies thoroughly described in PEBC Guideline 19-5 (in
Bone health	ADT	development)
QoL and Psychos		This outcome described in PEBC Guideline 3-14v2 (in development)
Cognitive side-	ADT	
effects	מא	Healthcare provider may consider neurocognitive assessment*
Psychological	Surgery, RT,	In-office psychological therapy and pharmacotherapy as appropriate
distress	and ADT	Recommendations for depression in cancer survivors are described in
(depression		PEBC Guideline 19-4v2
and anxiety)		- EDG GUIGGUIG 17 17E
General QoL	Surgery, RT,	During scheduled follow-up clinical visits, the psychosocial status of
and	and ADT	men should be assessed and distress should result in referral to
Psychosocial		specialized psychosocial care*
sequelae		Patients should be encouraged to participate in an exercise program
		 Strategies more thoroughly described in PEBC Guideline 19-5 (in
		development)

Side-Effect	Primary Treatment	Management Options
		• Referral to applicable support groups for coping training for couples, as well as social and emotional QoL well-being, may be considered
Abbreviations: ADT, androgen deprivation therapy; PDE5, phosphodiesterase type 5; QoL, quality of		

RECOMMENDATION 6

No diet plan can be recommended because no diet plan or food supplement has been associated with improved cancer outcomes.

RECOMMENDATION 7

For prostate cancer survivors who have completed curative-intent therapy, surveillance is required and may be provided by the treating oncologist, urologist, family physician, nurse practitioner, or hospital-based nurses. Models of care are described more thoroughly in <u>PEBC</u> Guideline 26-1.

Qualifying Statements for Recommendation 7

- All healthcare practitioners that provide PSA surveillance should manage PSA as per the current CCO Prostate Cancer Pathway.
- Although the identified literature only evaluated hospital-based nurse-led care and shared care within the hospital setting, expert opinion supports family physicians being involved in all survivorship care models.
- With the greater emphasis on a person-centred approach to care, a multidisciplinary approach to survivorship, which includes a psychosocial focus to recovery, is recommended. Although the shared care model identified by the literature did not include a psychosocial intervention focus, in order to provide person-centred care, expert opinion supports multiple disciplines being involved in shared care models.