The Prostate Cancer Rehabilitation Clinic: a biopsychosocial clinic for sexual dysfunction after radical prostatectomy

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ABSTRACT

Purpose The most prevalent intervention for localized prostate cancer (pca) is radical prostatectomy (rp), which has a 10-year relative survival rate of more than 90%. The improved survival rate has led to a focus on reducing the burden of treatment-related morbidity and improving the patient and partner survivorship experience. Post-rp sexual dysfunction (sdf) has received significant attention, given its substantial effect on patient and partner health-related quality of life. Accordingly, there is a need for sdf treatment to be a fundamental component of pca survivorship programming.

Methods Most research about the treatment of post-rp sdf involves biomedical interventions for erectile dysfunction (ed). Although findings support the effectiveness of pro-erectile agents and devices, most patients discontinue use of such aids within 1 year after their rp. Because side effects of pro-erectile treatment have proved to be inadequate in explaining the gap between efficacy and ongoing use, current research focuses on a biopsychosocial perspective of ed. Unfortunately, there is a dearth of literature describing the components of a biopsychosocial program designed for the post-rp population and their partners.

Results In this paper, we detail the development of the Prostate Cancer Rehabilitation Clinic (pcrc), which emphasizes multidisciplinary intervention teams, active participation by the partner, and a broad-spectrum medical, psychological, and interpersonal approach.

Conclusions The goal of the pcrc is to help patients and their partners achieve optimal sexual health and couple intimacy after rp, and to help design cost-effective and beneficial rehabilitation programs.

Key Words Prostate cancer, sexual dysfunction, rehabilitation, biospsychosocial approaches

INTRODUCTION

Apart from non-melanoma skin cancer, prostate cancer (pca) is the most common type of cancer in North American men. Coupled with 10-year relative survival rates approaching 98%1, statistics suggest that, in large proportion, pca survivors require post-treatment survivorship care. The most common intervention for localized pca is radical prostatectomy (rp)2, which continues to demonstrate effectiveness in long-term cancer control3. Although survival rates are remarkable, and most patients live healthy lives for many years after rp, most patients experience sexual dysfunction (sdf) as a result of their pca treatment.

Erectile dysfunction (ed) has been shown to affect 26%–100% of men after rp4. A recent investigation into predictors of ed showed that up to 60% of men with pre-rp erectile function (that is, firm enough for penetration) report ed at 2 years after rp5. The period required for recovery of erectile function after surgery is suggested to vary in the range of 6–48 months6. However, in a survey of 1213

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patients 5 years after RP for PCA, only 28% reported having an erection firm enough for penetration. Moreover, despite trending improvements in sexual performance 2–5 years after RP, more than three quarters of the patients found their sfd to be distressing 7.

Investigation into health-related quality of life (HRQOL) for patients 1 year after RP has shown that more men are concerned with sfd than with the possibility of a cancer recurrence 8. The persistence of sfd side effects after RP can greatly interfere with the survivorship experience of PCA patients and can result in significant reductions in their HRQOL 9–11. Compared with healthy age-matched controls, PCA patients not only experience distressing physical side effects after RP, but also report significantly lower sexual confidence and sexual intimacy with their partners, a greater level of anxiety relating to sexual penetration, and a diminished sense of masculinity and self-confidence regarding their sexual abilities after treatment 12.

Research has further revealed that the partners of post-RP patients can suffer from increased stress and lower marital intimacy. Partners worry about the patient’s health and about being left alone 13. Fear of burdening the patient means that those concerns are often not communicated by the partner. Moreover, patient sfd after RP is negatively associated with partner marital adjustment and positively associated with partner experience of stress 14. Despite the challenges of sfd, couples who report good communication in their relationship experience better marital adjustment overall 14, which underscores the need for the partner’s participation in comprehensive or tailored survivorship care. Moreover, the involvement of partners in rehabilitative programs can potentially improve partner well-being and the likelihood of sexual rehabilitation success for men after RP 15.

Recognition of the physical and psychological changes that attend RP and their implications for patient and partner HRQOL has led many physicians to develop programs to treat sfd after RP 16. Similarly, a consensus statement from the International Consultation on Sexual Medicine has outlined 5 approaches to physiologic rehabilitation: phosphodiesterase type 5 inhibitors (PDE inhibitors), intracavernosal injections, intra-urethral alprostadil, vacuum erection devices, and neuromodulatory agents. However, evidence to support any specific rehabilitation paradigms is currently absent 17. Research examining the use of pro-erectile agents and devices after RP has shown that, despite reports of the effectiveness of sexual aids, patients motivated to maintain sexual functioning before RP often fail to initiate the use of pro-erectile agents and devices after RP 18. Furthermore, 30%–73% of patients initiating treatment after RP eventually discontinue the use of sexual aids 18, 19. Reasons for the discontinuation of pro-erectile agents and devices include loss of interest in sex, insufficient erection, and urethral pain and burning 20.

An interview study exploring satisfaction in 320 patients with ED after RP and their partners showed that, even though most patients sought help to improve their sexual difficulties, only 20% were happy with their sexual functioning at the time of the interview 21. Additional research similarly suggests that, despite attempts to use sexual aids, only 30%–62% of men remain sexually active or satisfied with their current sexual functioning 1–5 years after RP 20, 21. Those low rates of success in long-term sfd treatment suggest that physiologic treatments alone, such as sexual aids, are a necessary but insufficient step to long-term satisfaction and sexual rehabilitation. Experts in the field have therefore suggested that the introduction of psychological counselling might improve patient acceptance and adherence to pro-erectile agents and devices and also couple satisfaction 22, 23.

In contrast with the abundance of literature describing biomedical treatments for ED 23, 24, only a few studies involving PCA survivors have evaluated psychosocial interventions that focus on ED. Nonetheless, interventions that target sfd and ED show promising results. Davison et al. 25 evaluated a sexual rehabilitation program for men recovering from RP. In that study, patients were provided with information pertaining to available erectile aids and how to select the most appropriate ones. To enhance their sexual experiences, patients were also counselled on ways to adjust to sexual changes. Compared with baseline, patient levels of erectile function, orgasmic function, penetration, and overall satisfaction were significantly greater 4 months after the consultations. Similarly, Titta et al. 22 randomly assigned 57 Italian men to one of two groups: a control group (n = 28) whose members received intracavernosal injections of prostaglandin E1, and an experimental group (n = 29) whose members received the injections and sexual counselling. After 3, 6, 9, 12, and 18 months, the rates of orgasmic function, sexual desire, sexual satisfaction, and overall satisfaction were significantly higher, and the rate of drop-out from the intervention was significantly lower, in the experimental group compared with the control group 26, 27.

Researchers, recognizing the importance of the partner in PCA survivorship programming, have designed couple-centric psychosocial interventions. Canada and Schover 28 evaluated an intervention meant to enhance sexual rehabilitation for couples after PCA treatment. It included 4 education sessions about the sexual impact of the surgery and the various medical treatments for ED. Skills training was provided to improve sexual communication and general communication for the couple. In addition, cognitive–behavioral techniques addressed negative beliefs about cancer and sexuality. The researchers found that sexual functioning and sexual satisfaction in both the patient and his partner improved significantly after the intervention. In addition, once patients had more information about medical treatments for ED, their likelihood of using sexual aids increased significantly. However, despite initial improvements, sexual satisfaction returned to baseline 6 months after the intervention was completed. Further studies making use of psychological interventions to improve sexual functioning in PCA patients and their partners have also been shown to improve HRQOL, even in cases in which support was provided over the telephone 29 or a computer 30, 31.

Initial studies addressing the gap between the efficacy of pro-erectile agents and devices, their ongoing use, and improvements in patient and partner HRQOL provide support for biopsychosocial programming designed to help PCA patients and their partners. Despite growing enthusiasm for that approach on the part of PCA survivorship...
experts, the literature lacks descriptions of systematic, longitudinal biopsychosocial programming designed for the post-RP population. In the present paper, we detail the development and implementation of the Prostate Cancer Rehabilitation Clinic (PCRC), a biopsychosocial sexual health rehabilitation clinic that emphasizes multidisciplinary intervention teams, the active participation of the partner, and a broad-spectrum medical, psychological, and interpersonal approach. The goals of the PCRC are to help patients and their partners achieve optimal sexual health and couple intimacy after RP.

THE PCRC

In 2009, the PCRC was made available to all men who consented to a RP at the Princess Margaret Cancer Centre in Toronto, Ontario. The PCRC format and content were informed by relevant scientific literature and the findings of a qualitative interview study, performed by the authors, explicating the post-RP effects of SDF on the patient, partner, and couple. The study helped to identify the sources of patient and partner distress related to SDF after RP, the reasons for avoiding or rejecting the use of sexual aids, and factors that assist couples in adapting to changes in sexual functioning. Each component of the PCRC undergoes regular evaluation (data monitoring and participant feedback) and alignment to the developing scientific literature to ensure that the PCRC continues to evolve to adequately address participant concerns related to SDF.

Personnel and Staffing

The PCRC is staffed by an interprofessional team that includes urologists, uro-oncologists, sexual health counselors, psychologists, a nurse, researchers, a clerk, and a volunteer. A urologist or a nurse specializing in uro-oncology patient care oversees the physical health of the patients, and a clinical psychologist manages the clinical and research agendas. The sexual health counselors are psychology residents who have completed coursework in sexual health and cancer (for example, IPDE and SHAREtraining). Additionally, to reinforce “real world” experience, the sexual health counselors shadow and are shadowed for several months by senior PCRC staff.

Clinic Goals

The goals of the PCRC are to improve sexual functioning and to support the maintenance of intimacy after RP. Those goals are addressed by two complementary program components:

- A biomedical component (erectile rehabilitation) focuses on the long-term return of erectile functioning firm enough for penetration with or without erectile agents and devices, and the assessment and treatment of other sexual health concerns including climacturia, dysorgasmia (painful orgasms), and changes in penile size and shape.
- A psychosocial component (intimacy maintenance) involves the maintenance or restoration of the couple’s sexual activity and intimacy through adaptation to the ongoing use of pro-erectile therapy or adaptation to satisfying non-penetrative sexual activity, and intimacy counselling.

Referral Process

The PCRC is introduced to the patient and his partner preoperatively in an effort to ensure that the patient experiences continuity of care during the pre-to-post surgery transition. At the Princess Margaret Cancer Centre, all patients consenting to surgery receive a preoperative teaching appointment with the Urology Clinical Coordinator, who provides teaching and counseling about treatment-related side effects. During the preoperative appointment, the coordinator informs the man about the PCRC. Men who indicate interest are provided with a referral for a PCRC appointment at 6–8 weeks after their RP.

Key to the integration between uro-oncologist care and PCRC follow-up care is the successful transfer of patient and partner sexual health care to the PCRC. Since 2009, we have therefore collected PCRC patient uptake data. As a result of that standardization, we successfully documented interest in the clinic for 99% of eligible patients. The patient tracking has helped to advance an understanding of the hurdles to transferring care to the PCRC and has enabled appropriate adjustments that aim to ensure the best possible uptake. Initially, transfer of patients relied on self-identification and therefore resulted in a small fraction of eligible patients attending the PCRC. In 2011, in an effort to increase successful transfer of care, the PCRC was integrated as part of usual care in post-RP management. That initiative ensured that, during their preoperative appointment, men were informed that they would receive notification of an initial appointment in the PCRC 6–8 weeks after their RP. The inclusion of the PCRC as part of usual care was an effort to normalize rehabilitative treatment and to overcome patient non-involvement because of stigma related to sexual dysfunction and cancer.

Of the approximately 330 patients undergoing RP at Princess Margaret annually, 60% in 2011 and 66% in 2012 showed interest in participating in the PCRC. Encouragingly, 96% of the patients expressing intention to attend the PCRC actually presented to the clinic. The reasons patients provided for declining to participate included not being sexually active (62%), living far from the hospital (13%), lack of interest (10%), and other (15%)—for example, scheduling conflicts and requests to delay participation because of a wish to prioritize recovery from the cancer diagnosis and treatment). Patients are encouraged to bring their partners along for the clinic visits, and 62% of the participating patients attended at least 1 clinic visit with their partner.

Assessment

During the initial PCRC appointment (3–4 months after the RP), a sexual health counselor conducts a brief, structured clinical interview to determine the patient’s current and past sexual functioning. Patients are assessed for pre-RP erectile function and use of pro-erectile therapies, post-RP erectile function and bother, post-RP use of pro-erectile therapies, urinary dysfunction and bother, quality of orgasm and bother, climacturia and bother, changes in penis shape or size and bother, couple communication and intimacy and bother, and comorbidities and medications.
that might affect biomedical treatment recommendations. The assessment also includes a discussion about the sexual health values and goals of the patient or couple and specific sexual health concerns of the partner. The assessment as a whole is used to develop a personalized biopsychosocial treatment plan. Additionally, during follow-up PCRC appointments, sexual health counsellors continue to assess sexual activity engagement and, where appropriate, the effectiveness, acceptance, and enablers of and barriers to ongoing use of pro-erectile therapy. Finally, patients and partners are asked to complete a battery of patient-reported outcomes (PROs) at each appointment. The PROs are used to measure the effectiveness of the PCRC intervention and to produce quality assurance reports (see Table 1 for the PROs used).

**Intervention**

The PCRC provides both biomedical and psychosocial support for SD.

**Biomedical Component**

Historically, the biomedical approach to improving ED after RP involved penile rehabilitation, which is defined as offering intervention for ED before or after PCA treatment (or both) to achieve a return of natural erectile functioning similar to that achieved before the RP. The PCRC uses a broader biomedical perspective: erectile rehabilitation focuses on the long-term return of erectile functioning firm enough for penetration with or without the use of erectile agents or devices. Both strategies involve the use of pro-erectile agents or devices to promote the oxygenation of penile tissue so as to reduce the likelihood of structural damage. However, unlike penile rehabilitation, erectile rehabilitation focuses on helping patients or couples integrate pro-erectile agents into their sexual activity during their recovery trajectory after RP. The process helps to ensure that patients continue to engage in the use of PDE5is in the later months of recovery (that is, 6–24 months after RP), when, compared with non-use, the use of PDE5is is more likely to improve erectile function outcomes. The erectile rehabilitation process allows for the likelihood that desired outcomes will be achieved at a higher rate in the long term, improving patient self-esteem and maintaining patient–partner intimacy. In that regard, patients in the PCRC are recommended to attempt sexual activity (penetrative or non-penetrative, self-stimulation or with partner) at least weekly, combined with initiation of pro-erectile therapy at 6–8 weeks after the RP.

Our erectile rehabilitation algorithm is personalized to the goals of the patient or couple related to

- the achievement of firm erections within weeks of RP or to wait until further neural function returns;
- the use of medications or non-medication pro-erectile approaches; and
- attempts at sexual activity with pro-erectile therapy or to engage in non-penetration-based sexual activity.

The resulting treatment plan and therapeutic prescription account for patient–partner preference through medical prescription according to effectiveness, balanced

| Questionnaire | Patient | Partner | Male | Female | Pre-op | 6–8 | 3–4 | 7–8 | 12–13 | 17–18 | 22–24 | 27–30 | 33–36 | 39–42 | 45–52 | 55–60 | 63–66 | 69–72 | 75–80 | 83–86 | 89–92 | 95–100 |
|--------------|---------|---------|------|--------|--------|-----|-----|-----|------|-------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| Demographics (patient) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Demographics (partner) | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Sexual Health Inventory for Men | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Female Sexual Function Index | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| EDITS b | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Hospital Anxiety and Depression Scale | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Miller Social Intimacy Scale | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |
| Expanded Prostate Cancer Index Composite | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X | X |

**Table 1.** Patient reported outcomes

a An abridged and slightly modified 5-item version of the 15-item International Index of Erectile Function.

b Erectile Dysfunction Inventory of Treatment Satisfaction.
by invasiveness and patient desire or tolerance, with or without psychoeducation methods to achieve sexual satisfaction through non-invasive processes. For example, intracavernosal injection might be prescribed to patients who desire upfront erections. Patients who are willing to forgo firm erections early in their recovery in favor of promoting the oxygenation of penile tissue might be prescribed pDE5s. Similarly, for patients who are not interested in taking medication, a vacuum erection device might be prescribed; and for patients who are not focused on penetrative sex, sensitive focus exercises might be recommended. In all cases, patients receive relevant instruction during individualized physician and counselor training for the use of pro-erectile therapies (including intracavernosal injection, alprostadil, vacuum erection device, and pDE5s) and non-invasive sexual practices.

**Psychosocial Component**

The primary goal of the psychosocial component is to support maintenance of intimacy, pro-erectile therapy use, and regular satisfying sexual activity, whether penetration- or non-penetration-based. The core topics include education about and normalization of sexual health rehabilitation, post-RP response expectation, intimacy and passion, challenges to naturalness and spontaneity, adaptation to sexual response changes, performance anxiety, masculinity, grief and loss, partner concerns, communication and intimacy, importance of orgasms, sensual focus, sexual desire, adaptation to long-term use of pro-erectile therapy, and enjoyment of non-invasive sexual activity. As well, the psychosocial treatment protocol allows for personalization of the treatment based on the patient’s relationship status (single or coupled) and sexual orientation. As an example, patients who are single are offered guidance and recommendations about strategies for disclosure of the PCA diagnosis and treatment, and the resulting ED. Similarly, psychoeducation is offered to gay patients about the potential effect of sexual response changes corresponding to top, bottom, or versatile sexual positions.

**Clinic Visits: Timing and Content**

The PCRC program involves 7 clinic visits across 2 years, consisting of a pre-RP appointment, an appointment with the uro-oncologist at 6–8 weeks after the RP, and follow-up appointments with the multi-disciplinary team at 3–4, 7–8, 12–13, 17–18, and 22–24 months post-RP (for a detailed description of clinic visits, see Table II).

**Institutional Support and Funding**

The PCRC operates on private donor funding and research grants. The PCRC has not received institutional funding; however, support has been provided in the form of space allocation and human resources. Specifically, on a schedule of 3 days per month, the PCRC is provided with a clinic space consisting of 6 examination rooms. The urologist is compensated by OHIP (the Ontario Health Insurance Plan), and the registered nurse and psychologist contributions are absorbed by their annual salaries. Additionally, the team developed a multidisciplinary training protocol for psychology and urology residents and fellows. The inclusion of trainees allowed PCRC to respond to increasing participant volume. In February 2013, the PCRC received a Quality of Life Research Grant from the Canadian Cancer Society Research Institute, which was applied toward examining the PCRC’s effectiveness (publication pending).

**Research**

Research is an important part of the PCRC. Data from each of the 7 clinic visits are collected and stored for longitudinal analysis (see Tables I and II for lists of pROS and clinical data collected). Clinical records and psychosocial assessments for patients are stored in two relational databases. There are many research questions that we hope to explore from both a medical and a psychosocial perspective. We intend to examine the effect of the PCRC on patients in a variety of areas, including performance anxiety, maintenance of intimacy, adherence to treatment, satisfaction with sexual functioning, partner distress, couple communication, and the long-term use of pro-erectile agents. In addition, we have the capacity to examine physiologic and psychosocial responses to the use of pDE5s and other types of ED therapy, and to compare the effectiveness of the various treatment modalities.

**Future Directions of the PCRC**

To augment the care provided through the PCRC, we are developing the Kindness, Intimacy, Sexuality, and Satisfaction (KISS) manual. The KISS manual contains 13 chapters, all of which provide detailed information and diagrams specific to topics covered during the PCRC visits. Patients or couples are encouraged before each meeting to read the assigned chapters from the KISS manual. An important benefit of receiving the chapter assignments before the PCRC visit is that it provides patients with an opportunity to prepare questions that can be addressed during the clinic visit. Patients will also be able to review key points after the visit, which aligns with the recommendations of the American Medical Association that physicians should provide patients with educational handouts at the end of clinical visits. Research has shown that providing patients with materials to take home after treatment can increase the likelihood of treatment adherence and might increase recollection of information given during the clinic visit.

Our goal is to transition the PCRC from paper-based to electronic-based documentation and data collection to further enhance patient and partner care. To that end, the Treatment Fidelity Tracking Record has been transformed into an online document that is completed by the sexual health counsellors during each clinic visit, making documentation and review of the patient’s experience from prior clinic visits more efficient. Similarly, patients and partners complete their pROS using an iPad in the PCRC waiting area before each visit; however, the PCRC infrastructure currently does not allow for real-time scoring of the pROS and provision of feedback. By introducing immediate feedback, the patient and the sexual health counsellor would both be able to track pROS responses in a number of domains (for example, erectile function, intimacy, distress). Patients could use the feedback to track their progress over the trajectory of the recovery period, and sexual health counsellors could monitor patient functioning and respond to identified concerns. Overall, the updated process will provide a further
| Visit | Location | Timing | Therapy |
|------|----------|--------|---------|
| 1    | Preoperative clinic | At least 1 week before radical prostatectomy | - PCRC introduced as part of usual care  
- PCRC goals delineated  
- Education about changes to sexual response after radical prostatectomy  
- Education about the potential benefits of PDE5 inhibitors and their use after radical prostatectomy  
- Manage expectations about recovery and effectiveness of pro-erectile treatment  
- Instruction about Kegel exercises |
| 2    | Genitourinary oncology clinic | 6–8 Weeks after radical prostatectomy | - First postoperative visit with the urologic oncologist  
- Patient learns about the success of the radical prostatectomy (PSA results)  
- Urologic oncologist provides recommendations for PDE5 inhibitor use (at least once weekly)  
- Urologic oncologist provides prescription for PDE5 inhibitor |
| 3    | PCRC | 3–4 Months after radical prostatectomy | **Biomedical therapy**  
- Recommendation for sexual activity equivalent to pre-diagnosis (penetrative or non-penetrative)  
- Determine use of PDE5 inhibitor  
- Determine acceptance of PDE5 inhibitor specific to side effects  
- In case of response: maintenance of full-dose PDE5 inhibitor  
- In case of nonresponse: alternative PDE5 inhibitor or try intra-urethral alprostadil, vacuum device, or intracavernosal injection therapy (ICI)  
- If ICI, provide in-clinic physician training  
- Give instructions in systematic approach to pro-erectile therapy use  
**Psychosocial therapy**  
- Education about sexual rehabilitation as part of usual or comprehensive care  
- Introduction to the PCRC  
- Education about course of recovery (2 or more years)  
- Review systematic use of PDE5 inhibitor  
- Education about other pro-erectile therapies  
- Erectile therapy decision-making  
- Intimacy check-in and counselling  
- Importance of resuming sexual activity whether penetrative or non-penetrative  
- Manage expectations about recovery and effectiveness of pro-erectile therapies  
- Assessment and treatment recommendations for urinary incontinence  
- Support for continued Kegel exercises |
| 4    | PCRC | 7–8 Months after radical prostatectomy | **Biomedical therapy**  
- Determine effectiveness of treatment  
- In case of response: maintenance of full-dose PDE5 inhibitor  
- In case of nonresponse: alternative PDE5 inhibitor or try intra-urethral alprostadil, vacuum device, or ICI  
- If ICI, provide in-clinic physician training  
- Give instructions in systematic approach to pro-erectile therapy use  
- Assessment and treatment of other sexual health concerns (for example, climacturia)  
**Psychosocial therapy**  
- Couples communication: sexual response changes  
- Incorporating pro-erectile agents or devices into satisfying sexual activity  
- Overcoming losses in naturalness and spontaneity  
- Focus on partner’s sexual health concerns  
- Coping with other sexual health concerns (for example, anorgasmia)  
- Managing performance anxiety  
- Assessment and management of partner concerns  
- Intimacy check-in and counselling |
mechanism to encourage the "patient voice" to be included in their own care experience.

**Knowledge Translation**

The **PCRC** was designed with attention to the importance of knowledge translation. As a consequence, the protocol is highly structured. To ensure the reliability of treatment, a Treatment Fidelity Tracking Record is completed by the treating health care professional at each clinic visit. The Treatment Fidelity Tracking Record is specific to each clinic visit (for example, the 3- to 4-month post-*rp* visit) and includes check boxes associated with the ongoing assessment of sexual health concerns (anorgasmia, for instance), pro-erectile agent or device use (type, number of attempts, effectiveness), side effects, partner concerns, intimacy concerns, and clinic-specific psychosocial educational components (for example, performance anxiety). The **KISS manual** that complements those procedures supports sustainability and protects against treatment dilution, allowing for the **PCRC** to be packaged and distributed to other hospital-based treatment facilities.

**DISCUSSION**

It is widely recognized that psychosocial interventions for **PCa** survivors are needed to facilitate the healing process and to assist patients with their effort to return to normal functioning. Biomedical treatment for **ED** can improve sexual functioning in patients to some extent after *rp*; however, **sne** in patients treated for **PCa** is complex and usually transcends a physiologic cause. The broader issue of intimacy between the patient and his partner is
an important part of the survivorship experience that is rarely addressed during treatment\(^5\). The biomedical approach is itself not sufficient for treating \( \text{rp} \) in patients after \( \text{rp} \)—a more comprehensive treatment is needed. The biopsychosocial perspective of \( \text{sdf} \) after \( \text{rp} \), as implemented in the \( \text{pcrc} \), emphasizes a broad spectrum of medical, psychological, and interpersonal perspectives. The \( \text{pcrc} \) addresses factors that affect the couple’s experience of \( \text{sdf} \) after \( \text{rp} \) and also factors that influence early rejection of pro-erectile agents or devices so as to assist the couple in finding a satisfying solution to their sexual health concerns.

The \( \text{pcrc} \) has a number of important strengths. The program is delivered by a team that specializes in treating the effects of post-\( \text{rp} \) \( \text{sdf} \) on patients, partners, and couples. It is designed to accommodate the unique \( \text{sdf} \) effects on same-sex and heterosexual couples or individuals. One-on-one counselling is offered to patients and couples, supporting candid communication about intimate issues. Neese \textit{et al.}\(^{15} \) found that, compared with a group format, a couples-based intervention with a health care professional is preferred by 74% and 93% of patients and their partners respectively. That format is also important given that couples can experience difficulty seeking social support for \( \text{sdf} \). By facilitating communication for the couple, patients and their partners are enabled to become each other’s social support. The clinic uses automatic referral as a method for overcoming the stigma of seeking \( \text{sdf} \) treatment programming. The \( \text{pcrc} \) tries to increase treatment adherence by supporting couples for 2 years after the \( \text{rp} \), in a series of 7 clinic visits at specified time points.

The challenge to biopsychosocial programs in general, and to the \( \text{pcrc} \) specifically, is the absence of scientific literature exploring the determining factors that influence coping and adaptation on the part of the patient and the partner. Studies conducted into new psychological therapies for treating \( \text{sdf} \) in \( \text{pca} \) patients after \( \text{rp} \) show promising results\(^{50} \), but more research into the benefit of involving the patient’s partner in the intervention is needed.

**CONCLUSIONS**

A great number of men are diagnosed each year with \( \text{pca} \), and most will enjoy a long life after treatment. Thus, health care practitioners have a responsibility to ensure that \( \text{pca} \) survivors and their partners experience optimal \( \text{hrql} \) during their survivorship years. We propose the \( \text{pcrc} \): a multidisciplinary, couple-oriented, biopsychosocial program designed to help couples maintain intimacy and restore sexual functioning after \( \text{rp} \). Integrated into the \( \text{pcrc} \) is research to address the requirement for greater understanding of the needs of patients and couples surviving \( \text{pca} \) and to help design cost-effective and beneficial rehabilitation programs.

**CONFLICT OF INTEREST DISCLOSURES**

We have read and understood \textit{Current Oncology’s} policy on disclosing conflicts of interest, and we declare that we have none.

**AUTHOR AFFILIATIONS**

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