

Fear of Cancer Progression

Findings from case studies and a nurse-led intervention

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BACKGROUND: Fear of cancer recurrence or progression (FOP) is a significant concern for cancer survivors. With the advent of new targeted therapies and immunotherapy, many patients with advanced cancer are living longer while dealing with uncertainty and fears related to cancer progression. Although some level of FOP is normal and adaptive, high levels adversely affect quality of life and healthcare costs.

OBJECTIVES: This article describes a nurse-led intervention for managing FOP in two patients with advanced gynecologic cancer. The intervention teaches skills for managing worry, challenging unhelpful beliefs, and modifying unhelpful coping behaviors.

METHODS: Preliminary findings from the two case studies are presented, including a comparison of post-treatment FOP scores to baseline scores.

FINDINGS: The participants reported feeling more focused, less overwhelmed, and more in control of their worries. Both participants achieved statistically reliable improvements in FOP scores.

KEYWORDS

fear of cancer recurrence; fear of cancer progression; fear; worry; coping

DIGITAL OBJECT IDENTIFIER

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FEAR OF CANCER RECURRENCE OR PROGRESSION (FOP) is the fear, worry, or concern about cancer returning or progressing (Lebel et al., 2016). Among cancer survivors, FOP is a prevalent unmet need associated with high levels of distress, anxiety, and depression (Sharpe et al., 2018; Thewes et al., 2014). About 49% of cancer survivors and as many as 70% of patients with advanced cancer experience moderate to high FOP (Butow et al., 2018), including intrusive thoughts, unhelpful coping behaviors, and difficulty making future plans (Lebel et al., 2016). Healthcare providers lack training in managing FOP (Butow et al., 2018). Providers may be unaware of FOP because patients may hesitate sharing their worries, particularly when family members are present (Economou & Reb, 2017). Nurses are well placed to discuss FOP with their patients (Dawson et al., 2016). This article describes a nurse-led intervention to manage FOP. Preliminary findings from two case studies are presented, including the change in FOP score from baseline to postintervention.

Background

FOP is a common reaction following an advanced cancer diagnosis (Ozga et al., 2015). Although some FOP is normal and even adaptive, some patients retain high FOP levels across time (Simard et al., 2013). Risk factors for clinically significant FOP include being newly diagnosed, being of a younger age, having cancer- or treatment-related side effects, and experiencing anxiety (Simard et al., 2013). FOP is problematic when poorly managed; high levels adversely affect quality of life (Lengacher et al., 2016; Tauber et al., 2019) and increase healthcare costs (Lebel et al., 2013). Patient behaviors include being hypervigilant about minor symptoms, requesting unnecessary tests, and constantly browsing the Internet for cancer-related information (Butow et al., 2018), which reinforces worry-driven behavior (Heathcote et al., 2018).

FOP may be an even greater concern in patients with advanced cancer (Lutgendorf et al., 2017; Mehnert et al., 2013). Targeted therapies and immunotherapies have increased patient survival. Treatment for extended durations and frequent monitoring contributes to FOP vulnerability (Thewes et al., 2017). Screening for FOP is not routinely done; however, screening for general distress is more common. FOP can be assessed by validated questionnaires with cutoff scores identifying those with dysfunctional FOP

levels. Butow et al. (2018) suggest screening for FOP in clinical practice. According to a systematic review (Thewes et al., 2012), two measures are recommended: the Fear of Cancer Recurrence Inventory–Severity subscale (Simard & Savard, 2009) and the FOP Short Form (SF) questionnaire (Mehnert et al., 2006).

Nurses are well positioned to ask patients about FOP and about coping strategies they are using to manage their fears. One approach is to normalize FOP by asking if the patient feels that their worries are excessive, overwhelming, or interfering with their life (Butow et al., 2018).

Overview of Interventions

Two meta-analyses confirmed the overall efficacy of FOP interventions (Hall et al., 2018; Tauber et al., 2019). In a review of mind-body interventions by Hall et al. (2018), FOP trials were categorized as mindfulness-based ($n = 3$), cognitive-behavioral therapy (CBT) ($n = 4$), communication skills ($n = 2$), and a gratitude intervention ($n = 1$). At postintervention, small to medium effects were found (Hedges' $g = 0.36$, $p < 0.001$). In Tauber et al. (2019), some studies used traditional CBT, in which the content of beliefs about FOP are challenged. Other studies used more contemporary CBT, where the process of worry and rumination are targeted, not thought content. Tauber et al. (2019) found that contemporary CBTs were more efficacious than traditional CBTs for FOP. However, several gaps in the studies were highlighted, including a focus on breast cancer and patients with early-stage disease. Most interventionists were psychologists. A report by Brebach et al. (2016) found that nurse-led FOP interventions have been effective, with uptake rates higher than non-nursing interventions. Training nurses to provide psychoeducational interventions is an efficient and cost-effective way to increase access to these services (McCarthy et al., 2018).

This article describes a nurse-led FOP intervention and preliminary findings from two patients with advanced gynecologic cancer. The Day-by-Day (DBD) intervention is adapted from Conquer Fear, an intervention found more efficacious than relaxation training in a large randomized trial of patients with early-stage cancer (Butow et al., 2017). Conquer Fear is based on a model that worry about cancer is normal, but some people have beliefs that worry is dangerous (i.e., the stress will bring the cancer back) or helpful (i.e., a recurrence will be identified more quickly). In addition, patients may become hypervigilant to physical sensations, which increases worry about recurrence (Sharpe et al., 2017). This FOP preoccupation makes it hard for people to engage in other life goals (Fardell et al., 2016). Using a case study approach, this article describes the intervention components and results.

Methods

Intervention Development

Adaptations to Conquer Fear were made to reflect the increased risk of recurrence among women with advanced gynecologic

cancer and to shorten individual sessions to accommodate patients with advanced cancer. In addition, case studies, surveillance guidelines, and resources were revised to be relevant to advanced cancer; threat monitoring behaviors were revised to reflect unhelpful coping strategies exhibited by the patients; and more emphasis was placed on values-based goal setting.

Nurse Training Intervention

The study team, consisting of two advanced practice nurses (APNs) (interventionists), the principal investigator (PI), a psychologist, and a senior research coordinator (a certified health education specialist), participated in a two-day training workshop led by Louise Sharpe, PhD, one of the Conquer Fear developers. The intervention components were explained, and the goals and content of each session and key skills for managing FOP were reviewed. Role-play was used to practice these skills.

Patient Sample

Using a convenience sample, two patients with stage III or IV gynecologic cancer were recruited from the outpatient medical oncology clinic at a free-standing comprehensive cancer center in southern California. Patients were eligible if they were at least three months after initial diagnosis and had a score of 34 or greater on the FOP-SF (Mehnert et al., 2006) or 24 or greater on the Impact of Event Scale–Revised (Sundin & Horowitz, 2002). The Impact of Event Scale–Revised measures cancer-related distress. Items are categorized into three subscales: intrusion, avoidance, and hyperarousal. Scores range from 0 to 88, and a score of 24 or greater indicates significant distress (Sundin & Horowitz, 2002).

The DBD intervention included components from the Conquer Fear curriculum (Butow et al., 2013) including (a) comprehensive psychosocial assessment; (b) values-based goal setting exercise; (c) worry management skills; (d) challenging unhelpful beliefs about worry; (e) modifying threat monitoring behaviors; (f) educating patients about follow-up guidelines and healthy lifestyle behaviors, and (g) developing a relapse prevention plan. The goals were to identify triggers, teach skills for managing worries, and promote values-based goal setting (Smith et al., 2015). Unhelpful beliefs about worry frequently underlie excessive threat monitoring behaviors (Sharpe et al., 2019) (see Table 1). The intent was to help patients find a middle ground between vigilance and hypervigilance for recurrence symptoms. The skills addressed problematic metacognitions (i.e., beliefs about worry) and associated behaviors contributing to FOP. Experiential exercises and home practice were used to reinforce session content.

Procedures

FOP (DBD) INTERVENTION SESSIONS: The intervention consisted of seven nurse-led, one-on-one sessions delivered during eight weeks (see Table 2). Patients were given videoconferencing instructions and emailed a session link for home participation. Session 1

consisted of a comprehensive psychosocial assessment, including prior losses and trauma, which can increase FOP. During session 2, patients reflected on how past experiences influenced their cancer response. Session 3 focused on values-based goal setting and attention training technique (ATT), which trains patients to focus their attention by noticing but not engaging in worrying thoughts (Butow et al., 2017) (see Table 3). Session 4 focused on other detached mindfulness and worry postponement skills. Detached mindfulness involves accepting one's thoughts while relating to them in a detached way (Gu et al., 2016). Worry postponement helps to challenge unhelpful beliefs about the uncontrollability of worry. Sessions 5 and 6 focused on modifying threat-monitoring behaviors and challenging unhelpful beliefs about worries. The final session, session 7, summarized goal-setting progress and helped patients develop a response plan for worries or triggers.

The APNs audiorecorded each session and completed session checklists to document covered content. During team meetings, the APNs reviewed cases with the PI and the team psychologist, who provided feedback on challenging cases. Patients completed the FOP-SF at baseline, 8 weeks, and 12 weeks.

Measures

FOP was measured using the FOP-SF, with 12 items selected from the original 43-item questionnaire (FOP-Q) (Herschbach et al., 2005). Items are scored from 1 (never) to 5 (very often). Total scores ranged from 12 to 60; a cutoff score of 34 or greater indicates dysfunctional levels of FOP (Herschbach et al., 2010). The FOP-SF was comprehensively validated in a large sample of patients with breast cancer (Hinz et al., 2015; Mehnert et al., 2006).

Analysis

To determine if a meaningful change occurred between baseline and postintervention FOP scores, the Reliable Change Index (RCI) was calculated (Jacobson et al., 1984). The RCI indicates whether the patient has made a reliable symptom change over the course of treatment (Ferguson et al., 2002). To calculate the RCI, the difference in raw scores from baseline to postintervention is divided by the standard error of the differences between scores. A score greater than 1.96 shows a reliable change (Jacobson & Truax, 1991).

Findings

Case Study 1

Gail is a 50-year-old woman with recurrent *BRCA1*-positive stage IV ovarian cancer. A single mother with two grown children, Gail has a strong faith and social support system. Following the card-sort exercise (Ciarrochi & Bailey, 2009), Gail identifies healthy eating and independence as non-negotiable values. The APN helps Gail identify specific goals, including diet maintenance, walking more, and furthering her education. Gail states that she is constantly preoccupied with thoughts of recurrence. She frequently

“Nurses are well positioned to ask patients about fear of cancer progression and coping strategies.”

calls her nurse about her tumor marker results and experiences anxiety whenever scans are due. She frequently examines her breasts and scans her body for new pains that might represent a cancer recurrence. Gail experiences both positive and negative beliefs about worry, believing that being alert to and investigating new symptoms keeps her safe. Alternatively, she states that this worry will make her sick. Although Gail keeps busy to try to avoid cancer thoughts, she states that she experiences intrusive thoughts, making it difficult for her to concentrate. Although Gail initially remained preoccupied with recurrence, with ATT practice, she states that she feels less self-focused and more relaxed. The APN reviews detached mindfulness exercises. Gail states that the cloud metaphor was most helpful. Gail uses a journal to record her worries to reference during her worry time. She states that journaling helps her feel more in control over her worries, allowing her to attend to more meaningful events at other times. Gail also reviews previous responses to triggers and creates a new plan for managing unhelpful coping behaviors. The detached mindfulness and ATT skills helped her notice worrying thoughts but not get caught up in them. She calls less frequently and has cut back on the frequency of body scanning. Gail said she feels inspired by her progress and motivated to continue skills practice.

ANALYSIS: Gail endorsed positive and negative beliefs about worry, distress around follow-up scans, and threat-monitoring behaviors, including frequent tumor marker inquiries and breast self-examinations. Her self-focused attention and intrusive thoughts interfered with her concentration. With skills practice, Gail reports less intrusive thoughts and threat-monitoring behaviors. She states that she feels calmer and more in control over her thoughts and worries.

At baseline, Gail had a clinically significant FOP level, as measured by the FOP-SF (Mehnert et al., 2006). The post-treatment FOP-SF score was compared with the baseline score using the RCI procedure (Jacobson & Truax, 1991) (see Table 4), and Gail's FOP-SF score was significantly reduced, indicating that she had made a statistically reliable improvement ($RCI = 4.35, p < 0.05$). In addition, at eight weeks follow-up, Gail was in the normal FOP-SF score range.

Case Study 2

Debra is a 65-year-old woman with stage III uterine cancer diagnosed two years prior. She completed neoadjuvant radiation therapy and chemotherapy, followed by surgery. Her husband recently died from colorectal cancer. Debra reveals she is most afraid of being alone and is depressed and lonely since her husband's death. In the past, she had been active in her church but now finds it stressful. The APN discussed the impact of Debra's grief and recent loss as contributing to her fears. Using the card-sort exercise, Debra states that her top values were her faith, having close relationships and feeling supported, and being

there for her family. The nurse encourages Debra to set small but attainable goals consistent with her values and explores ways in which she might seek support. Debra agrees to set a monthly social activity goal, such as attending a book club and volunteering at church. Focusing on these goals helps Debra deal with her grief and fears.

Debra states that she has intrusive thoughts about the possibility of cancer progression. She is particularly fearful at night, which affects her sleep. Triggers for intrusive thoughts include concerns about her family and follow-up scans. Debra endorses negative beliefs about worry, expressing that she could make

TABLE 1.
BELIEFS AND WORRY: SKILLS TO MANAGE WORRY AND THREATENING BELIEFS

BELIEFS ABOUT WORRY	EXAMPLES	QUESTIONS FOR CHALLENGING BELIEFS ABOUT WORRY	SKILLS TO MANAGE WORRY AND THREAT-MONITORING BEHAVIORS
Positive beliefs			
Thinking/believing that worrying is helpful, contributes to using worry as a strategy for dealing with illness (Butow et al., 2018)	<ul style="list-style-type: none"> ■ "Worrying helps me cope with my cancer." ■ "If I monitor my symptoms, I will likely detect a recurrence sooner." ■ "Worrying motivates me to keep vigilant." 	<ul style="list-style-type: none"> ■ If worry works, then people who worry more about FOP should experience it less often. ■ What evidence have you experienced that worrying is beneficial? ■ Does worrying help you look at FOP from all angles? 	<ul style="list-style-type: none"> ■ Worry postponement ■ Detached mindfulness ■ Attention training
Negative beliefs			
Thinking/believing that worry is harmful (Wells, 2008)	<ul style="list-style-type: none"> ■ "All new aches and pains tell me the cancer is coming back." ■ "Worrying about my cancer will cause it to recur/progress." 	<ul style="list-style-type: none"> ■ How do you know that your FOP is harmful? ■ Do you think that people who have experienced cancer recurrence, it's because they worried about it coming back? ■ If both positive and negative beliefs: If you believe that worrying is beneficial, how can it be harmful as well? 	<ul style="list-style-type: none"> ■ Worry postponement ■ Detached mindfulness ■ Attention training
Uncontrollability of worry			
Believing that worry is completely uncontrollable; worries become preoccupying	<ul style="list-style-type: none"> ■ "I have no control over worrying about my cancer." ■ "When I have thoughts about FOP, I find it hard to ignore them." ■ "Worry about cancer progression decreases my concentration on other things." 	<ul style="list-style-type: none"> ■ What happens to your worries about FOP when your child or partner needs your attention or help? ■ Were you successful in being able to postpone your worry? How would that be possible if your worry was uncontrollable? 	<ul style="list-style-type: none"> ■ Worry postponement ■ Detached mindfulness ■ Attention training ■ Values clarification
Avoidance			
Believing that not thinking or doing anything about the cancer prevents one from being reminded of it (Fardell et al., 2016; Fisher et al., 2019)	<ul style="list-style-type: none"> ■ "I only think positive thoughts and stop the doctor when she talks otherwise." ■ "I don't want to check my body in case I find something bad." ■ "If I don't think about my cancer, then I won't get upset over it." 	<ul style="list-style-type: none"> ■ What do you think will happen if you think about your cancer? ■ How can you take good care of yourself by avoiding what the doctor says? ■ How can you get the most benefit from your treatment while also avoiding your appointments? 	<ul style="list-style-type: none"> ■ Education that avoidance may provide temporary reassurance but contributes to higher FOP in the long run ■ Values clarification

FOP—fear of cancer recurrence or progression

herself sick if she continues to worry. Although she said she tries to avoid these thoughts, she finds it difficult to control her worries. Although the ATT was challenging initially, with practice it helped Debra to focus her thinking. Debra reports that the cloud metaphor helped her to let go of worrying thoughts. Debra would go to her worry room around 4 pm to think about her concerns. Postponing worries helps her feel less overwhelmed and more in control of her thoughts. Both ATT

and detached mindfulness skills help Debra break the worry cycle. Although she states that she has some residual fears at night, her sleep has become more restful. To manage triggers, Debra plans to use ATT to reinforce focused thinking as well as detached mindfulness and worry postponement to manage intrusive thoughts.

ANALYSIS: Debra's grief over the loss of her husband contributed to increased FOP. She endorsed mainly negative beliefs

TABLE 2.
CURRICULUM INTERVENTION SESSION CONTENT

SESSION	CONTENT	DESCRIPTION
1	Psychosocial assessment	Assessment focusing on fear of cancer progression and related thoughts and behaviors
	Introduction to treatment model	Use of metaphors to explain the model and goals of treatment
	Discussion of existential changes brought about by cancer	Losses, grief, and how cancer affects one's life
2	Discussion of potential vulnerability factors (Butow et al., 2018)	Reflection on how past experiences influence response to cancer (losses, traumatic events, psychosocial stressors)
	Introduction to card-sort exercise (Ciarrochi & Bailey, 2009)	Identification of the most important values in one's life
3	Values clarification (Fashler et al., 2018)	Discussion of the values clarification exercises
	Introduction to attention training technique (Wells, 1990)	Flash drive with guided auditory script to develop attention control
4	Worry management techniques: detached mindfulness (Wells, 2005)	Promotes flexibility in how one reacts to worries or fears and detachment from engagement with thoughts
	Worry postponement (Wells, 2008)	Delaying the process of worrying to a designated time point during the day
5	Threat monitoring	Identification of excessive or avoidance behaviors (e.g., worrying about vague symptoms; requests for additional clinic visits or surveillance testing (tumor markers/scans); development of a written agreement with plan to address excessive behaviors (if indicated)
	Education about follow-up care	Review of follow-up guidelines, symptoms to report, surveillance testing
	Introduction to healthy lifestyle guidelines and resources	Discussion of evidence-based guidelines; education about palliative and supportive care resources
6	Metacognitive beliefs that underlie excessive threat monitoring (Fardell et al., 2016)	Discussion of Metacognitions About Health Anxiety questionnaire (Bouman & Meijer, 1999); assessment of beliefs about the role and function of worry; challenging any unhelpful beliefs about worry or FOP
	Healthy lifestyle recommendations	Review of handouts and additional resources
7	Review of progress on values-based goal setting	Values, goals, and action table
	Reassessment of FOP severity	Discuss FOP-SF questionnaire; identify unhelpful metacognitions.
	Relapse prevention strategies	Identification of comprehensive list of triggers for worry and FOP; old plan/new plan table—new plans for managing triggers addressing attention focus, behaviors, and thinking patterns; "what if" exercise to encourage patient to think about their response to potential progression

FOP—fear of cancer recurrence or progression; SF—short form

Note. Based on information from Butow et al., n.d., 2013.

Note. The intervention consisted of 7 sessions delivered over 8 weeks with home practice activities. Sessions were approximately 45 minutes each.

about worry. Although she tried to avoid negative thoughts, worry overwhelmed her. Debra did not exhibit threat monitoring behaviors, reassured by her close medical surveillance. However, her self-focused attention and intrusive thoughts interfered with her concentration and sleep. With skills practice, Debra learned to manage intrusive thoughts. Postintervention, she stated she felt calmer, more focused, and her sleep improved.

At baseline, Debra had a clinically significant FOP level, as measured by the FOP-SF (Mehnert et al., 2006). The post-treatment FOP-SF score was compared with a baseline score using the RCI procedure (Jacobson & Truax, 1991). Her FOP-SF score was significantly reduced, indicating that she had made a statistically reliable improvement ($RCI = 3.45$, $p < 0.05$). In addition, at 12 weeks follow-up, she was in the normal FOP-SF score range.

TABLE 3.
MANAGING WORRY: VALUES, SKILLS, AND BEHAVIORS

SKILLS	EXAMPLES OF BEHAVIOR
Values clarification, card-sort exercise, and goals	
<ul style="list-style-type: none">■ Values can shift when major life events occur whether personal or global. One such event is being diagnosed with cancer. Clarifying values is reevaluating what is important and whether one is living in accordance with those values (Fashler et al., 2018).■ The card-sort exercise is a way to look at what is and is not important in life. There are 58 value statement cards including a couple of blank ones for writing one's own values (Ciarrochi & Bailey, 2009).■ Goals and actions are created based on the top 10 values the patient has chosen.	<ul style="list-style-type: none">■ Susan had three teenage children between the ages of 13 and 18, and her values had greatly changed since her cancer diagnosis 6 months earlier. Susan was asked to go through all the value statement cards, sorting them into three piles: not very important, moderately important, and highest importance (non-negotiable). She was then asked to choose her 10 most important values and why she chose each one. Sharing about each value helped Susan to articulate her thoughts and feelings. She was also asked if she was spending time on values that were not important. After choosing her top values, Susan wrote goals and actions to help her experience what really matters to her.■ Value 1: Being self-sufficient. Goal: Taking care of herself. Action: Eating healthy, staying active with consistent light exercise.■ Value 2: Living a stress-free life (as much as possible). Goal: Learn how to not worry about things that cannot be controlled. Action: Between 8 and 9 pm, do ATT exercise, read the Bible, pray, and go to bed no later than 10:30 pm.
ATT	
<ul style="list-style-type: none">■ While listening to a recording on a flash drive, participants focus their attention on individual sounds in the midst of competing sounds while resisting distraction to other sounds. The 12-minute recording consists of three phases. The primary aim is to teach patients to apply their attention more flexibly (Wells, 1990).	<ul style="list-style-type: none">■ Phase 1, selective attention (5 minutes): Patient is led to focus on individual sounds and spatial locations while simultaneously resisting other competing sounds or distractions.■ Phase 2, rapid attention switching (5 minutes): Patient is led to shift attention between individual sounds and spatial locations beginning with 1 sound every 10 seconds and increasing speed to 1 sound every 5 seconds.■ Phase 3, divided attention (2 minutes): Patient is led to divide their attention, attending to as many simultaneous sounds and spatial locations as possible.
Detached mindfulness	
<ul style="list-style-type: none">■ Teaches patients to notice their thoughts and worries but understand that their thoughts are separate from them as a person and not necessarily "truths" in and of themselves; this allows them to view worries as passing events in the mind that do not define or control them, nor are they to be judged or acted on. It is not avoidance, but rather to realize they are just thoughts (Wells, 2005).■ There are several exercises from which the patient can choose to use. The patient is taught to practice detached mindfulness in response to whatever triggers thoughts and worries.	<ul style="list-style-type: none">■ Example 1, clouds metaphor (brief version): Patient is asked to treat their thoughts and worries like passing clouds, knowing that, like the clouds, they will eventually pass by.■ Example 2, train metaphor (brief version): Patient is asked to liken oneself to a passenger waiting for a train. The busy station is like one's busy mind, and the thoughts and worries are the trains passing by. Letting those thoughts and worries go with the trains helps the patient understand they do not need to get on the wrong train.
Worry postponement	
<ul style="list-style-type: none">■ Teaches patients to notice triggering thoughts and worries and delay processing them until a later designated time point; this allows the patient to experience the emotions associated with their thoughts and worries but not get caught up in them. The maximum time for this exercise is 20 minutes.■ This exercise helps to challenge beliefs about the uncontrollability of worry and to disengage from judgments about worry (Wells, 2008).	<ul style="list-style-type: none">■ Example: John, with stage IV lung cancer, was very worried about upcoming computed tomography scan results because they would reveal the efficacy of his treatment. Using worry postponement, John wrote down his thoughts and worries in a small notebook. He chose to spend 20 minutes in the late afternoon on the outside porch swing to go over his notes. This gave him the opportunity to actively worry and problem solve. Whenever 20 minutes was not enough time, he would continue the next day during the designated time. There were times when thoughts and worries would come back, but John learned to not engage with them, to write them down, and to process them at the designated time. This practice allowed him to stay focused in the present.
ATT—attention training technique	

Discussion

FOP is a prevalent unmet need in patients with advanced cancer (Ozga et al., 2015; Sharpe et al., 2017). The findings from the case studies support the benefits of a nurse-led intervention to help patients manage FOP. The DBD intervention helps patients reflect on their most important values and targets unhelpful beliefs about worry and related coping behaviors. When confronted with a life-threatening illness, patients may lose sight of what gives their life meaning, spending time on less important activities. Helping patients reflect on their primary values provides direction and meaning in life (Fashler et al., 2018). Patients with FOP are often burdened with worry, which may underlie unhelpful coping behaviors. Some patients may avoid cancer reminders, increasing FOP (Fardell et al., 2016). Although frequent self-examination or requests for additional surveillance tests may provide temporary reassurance, these behaviors ultimately increase FOP (Butow et al., 2018). The DBD intervention teaches patients skills to manage intrusive thoughts and worries that they can use in their daily lives. The skills practice promotes focused attention, flexibility in response to worry, and thought detachment.

Nurses and other healthcare providers may not recognize FOP in patients or may be reluctant to discuss it (Curran et al., 2017; Thewes et al., 2014). These patients may be known to the clinical team because they call frequently with minor complaints or seek unnecessary tests for reassurance. Many providers are uncertain how to manage FOP (Thewes et al., 2014). Rather than ordering unnecessary tests, providers who carefully listen to the patient’s concerns and discuss the evidence-based rationale for surveillance decisions communicate understanding and confidence (Butow et al., 2018).

Lessons Learned

Based on the case studies describing the patients’ experience receiving the DBD intervention, patients requested more flexibility related to intervention sessions and practicing skills. One patient preferred phone delivery, whereas the other preferred in-person sessions. One patient found it difficult to access a

TABLE 4.
FOP-SF SCORES FOR CASE STUDY PARTICIPANTS

PARTICIPANT	T1	T2	RCI	p	T3
	SCORE	SCORE			SCORE
Gail	40	26	4.35	< 0.05	17
Debra	41	37	3.45	< 0.05	26

FOP-SF—Fear of Cancer Progression—Short Form; RCI—reliable change index; T1—baseline; T2—8 weeks postintervention; T3—12 weeks postintervention
Note. RCI compares change in T1 and T2 scores. A score of 1.96 or greater is needed to achieve significance. FOP-SF scores range from 12 to 60, with higher scores indicating greater FOP. Cutoff score for clinically significant FOP is 34.

IMPLICATIONS FOR PRACTICE

- Understand that fear of cancer recurrence and progression (FOP) is one of the most common unmet needs in cancer survivors. Although low levels may be normal, higher levels result in distress and impaired quality of life.
- Assess FOP and its impact on patients’ lives and, if needed, teach practical skills for managing FOP.
- Explore the use of FOP interventions for women with advanced-stage gynecologic cancer. Most previous FOP interventions have occurred in the context of early-stage disease.

computer to listen to the ATT flash drive during the day and suggested having a smartphone app. Although the patients found the card-sort exercise very helpful, they reported difficulty narrowing down their top values. The APNs learned to explain the goal of the value cards up front and ask patients to choose their top 10 non-negotiable values.

Implications for Nursing

This article describes a nurse-led intervention for managing FOP in patients with advanced gynecologic cancer. If patients are experiencing FOP, a nurse can encourage patients to express their fears. Nurses can assess how FOP affects the patient’s daily life, considering prior losses or trauma that may heighten FOP. By incorporating intervention techniques, nurses can help patients identify triggers, teach practical skills for managing triggers and worries, and challenge beliefs that contribute to unhelpful coping behaviors. The card-sort exercise can help patients identify their most important values and set goals aligned with those values. Teaching patients about recurrence symptoms, follow-up care, and healthy lifestyles equips them with ways to take control of their health.

Oncology nurses provide much of the emotional and psychosocial support for patients with advanced cancer and their family members (Wittenberg et al., 2018). APNs and many clinical nurses have expertise in managing symptoms and psychosocial concerns, but few have specific FOP training. Nurses are in a unique position to provide this care because they routinely interact with patients. With focused training, oncology nurses have successfully used CBT and related techniques (Melton, 2017; Zhang et al., 2018). Partnering with psychologists and social workers will help provide guidance to patients with more complex needs. Patients with pre-existing mental health conditions or history of unresolved trauma may require specialized psychosocial treatment.

Conclusion

FOP is a significant concern for patients with advanced cancer. This article highlights a nurse-led intervention for managing FOP. The case studies illustrate the intervention components, which teach skills for managing worry and help patients modify unhelpful coping behaviors. Skills include attention training, detached mindfulness, and worry postponement. After the intervention, patients reported feeling more focused and in control of their worries. Both achieved reliable improvements in FOP-SF scores.

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- Applying the nurse-led fear of cancer recurrence or progression (FOP) intervention, which patients in your practice would benefit, helping them to be (a) more focused, (b) less overwhelmed, and (c) more in control of their worries?
- Using the intervention's techniques, how would you teach your patients so they (a) identify FOP triggers, (b) gain practical skills to manage FOP triggers and worries, and (c) can challenge their beliefs that contribute to unhelpful coping behaviors?
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