Breast cancer survivors:

Assessment and management of long-term treatment effects



2. Discuss management of long-term treatment effects of breast cancer therapy.

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After a breast cancer diagnosis, patients must navigate a host of difficult treatment decisions, debilitating physical and psychological symptoms, and treatment side effects. Even after completing treatment, many patients continue to struggle with significant physical and emotional stress, including anxiety, fear of recurrence, depression, and feelings of hopelessness and isolation. Before the most recent advances in cancer research, patients generally perceived quality cancer care as

achieving remission after treatment. Patients now find themselves living with long-term treatment effects for which they may have received little education to manage. And, unfortunately, their primary care providers also may lack formal education of cancer treatment's side effects.

Addressing long-term side effects

Opportunities for addressing comprehensive survivorship care exist in many cancer settings. For example, integration of survivorship care for breast cancer survivors should be implemented upon initial diagnosis with the start of adjuvant therapy. At the Greenville Health System Cancer Institute, Center for Integrative Oncology and Survivorship (CIOS), patients with breast cancer can attend an integrative oncology visit with a survivorship nurse practitioner (NP) and survivorship nurse navigator as soon as they're diagnosed. In preparation for the integrative oncology visit, the nurse navigator reviews the patient's health record to anticipate individual patient needs. During the visit, the NP assesses the patient for physical and psychosocial needs and provides referrals and resources to appropriate support services within CIOS and the community.

All nurses—whether they work in oncology settings or primary care—should have a basic understanding of the long-term effects of breast cancer treatment, including fatigue, hot flashes and night sweats, sexuality and intimacy difficulty, sleep disturbance, weight changes, and fear of recurrence.

Fatigue

Cancer-related fatigue (CRF) is the most common side effect of cancer treatment.

Overview: The National Comprehensive Cancer Network defines fatigue as a feeling of ongoing, draining exhaustion that limits



Fatigue assessment

The Brief Fatigue Inventory (npcrc.org/files/news/brief_fatigue_inventory .pdf) is an assessment tool developed by the University of Texas, MD Anderson Cancer Center to measure cancer-related fatigue in ambulatory oncology settings.

- The self-report tool contains items that focus on patient activity and ability to perform normal activity in the previous 24 hours.
- Assessment takes about 5 minutes.
- Conducting this assessment at each visit offers insight into the patient's fatigue level and helps guide patient care.

the patient's ability to participate in activities and interferes with quality of life. CRF may last for months or even years after completing cancer therapy.

Symptoms of CRF include a combination of subjective and objective conditions that the cancer survivor perceives as overwhelming. Some patients report a constant lack of energy and an inability to participate in normal activities of living. They frequently report feeling tired

even after 8 hours of sleep. Many patients also correlate fatigue with cognitive deficits such as trouble concentrating and finding words. (See *Fatigue assessment*.)

Management: According to the National Cancer Institute, exercise is the most effective intervention for CRF. Other benefits of exercise include reducing the chance of breast cancer recurrence, maintaining a healthy body weight, increasing mobility, building self-esteem, improving sleep hygiene, reducing treatment-related side effects, and achieving faster recovery from cancer treatments. (See *Move it.*)

Refer patients to an exercise program such as oncology rehabilitation after they complete cancer treatment. These programs introduce patients who are sedentary to the concept of exercise. And for those patients who were active before their diagnosis, rehabilitation programs can help them regain mobility, strength, and endurance that was lost during treatment.

Hot flashes and night sweats

Vasomotor symptoms (hot flashes or night sweats) are commonly reported by breast cancer survivors.

Overview: Hot flashes are defined as a temporary but sudden onset of body warmth accompanied by facial flushing with or without sweating. Hot flashes and night sweats (hot flashes experienced while sleeping) occur in both women and men. The onset of hot flashes varies among breast cancer survivors and may be reported as sudden or gradual. Hormone-blocking medications and nonhormonal pharmacologic cancer therapies used in breast cancer therapy contribute to these symptoms.

According to the National Cancer Institute, approximately two-thirds of women who are postmenopausal and have a history of breast cancer experience hot flashes that interfere with quality of life by affecting

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sleep, mood, and concentration. A thorough assessment of quality of life is necessary to determine the need for education and intervention. (See Assessment in a flash.)

Management: Educate patients about diet and behavioral triggers that may precipitate and contribute to the frequency and severity of hot flashes and night sweats. Explain that they should avoid alcohol and caffeine, hot or spicy food, hot baths or showers, and smoking. Healthy lifestyle changes include regular exercise, a balanced nutritious diet, and stress-reduction techniques such as yoga. As with any behavior change, patients may resist, so encourage slow, subtle, and attainable goals on their quest for a healthy lifestyle.

Sexuality and intimacy

The inability to engage in sexual activity because of lack of desire, inability to achieve orgasm, or pain with intercourse are collectively classified as symptoms of sexual dysfunction.

Overview: Breast cancer therapy can propel women into menopause, causing a distressing cascade of physical symptoms that result in sexual dysfunction. The psychological effects of a cancer diagnosis-anxiety and depression-and pre-existing stress and spousal conflict can worsen sexual dysfunction.

Management: Discussing sexuality can be difficult for some patients and requires your sensitivity. The PLISSIT model promotes discussion with open-ended questions, information, specific suggestions, and referrals. (See Discussing sexual health.)

Sleep disturbance

Sleep disturbance is reported by 30% to 75% of patients newly diagnosed or recently treated for breast cancer. This is about two times higher than in the general population.



Move it

The American Cancer Society's 2017 guidelines for adults on nutrition and physical activity for cancer prevention recommend:

- participating in at least 150 minutes of moderate-intensity or 75 minutes of vigorous-intensity activity (or a combination) each week
- spreading activity evenly throughout the week
- limiting sedentary behavior such as sitting, watching television, and activities involving electronic devices.

to fall asleep to help you understand the underlying causes of the insomnia. Many patients say that they find themselves lying awake for prolonged periods of time, and when questioned further, they admit to persistent thoughts of worry and that their minds are "constantly racing," preventing relaxation.

Management: Eliminating sleep disturbances requires a solid sleep routine. Talk to patients about establishing consistent bedtimes and waking times, ensuring a cool dark environment, incorporating mindful breathing techniques and yoga, adding comfort measures such as warm baths before bed, and eliminating all electronic devices (cell phones, tablets, television) at least 2 hours before bedtime. Also instruct them to use the bedroom only for sleep and sexual activity.

Weight changes

Weight gain is a prevalent problem among patients treated for breast cancer.

Overview: Makari-Judson and colleagues report that weight gain of 2.5 to 11 lbs during breast can-

All nurses should have a basic understanding of the long-term effects of breast cancer treatment.

Overview: Sleep disorders are described as changes in one's sleep pattern. Insomnia is common among breast cancer survivors and can manifest as difficulty falling asleep or staying asleep. Common causes of insomnia include anxiety and depression, which typically are provoked by diagnosis, cancer treatment modalities including steroidal medications, and hot flashes. Talk with the patient about past and present sleep patterns, especially difficulty falling asleep or staying asleep. Ask the patient how long it takes

cer diagnosis and treatment is associated with loss of lean body mass and fat gain. This most commonly occurs in patients younger than 50 years old who require chemotherapy.

The incidence of weight gain during breast cancer therapy has increased throughout the years. Before the 1990s, weight gain was a less prevalent side effect of treatment because of few effective antiemetic agents. Anthracyclinebased regimens, which are commonly used in breast cancer treatment, are highly emetogenic and



Assessment in a flash

Hot flashes are a common side effect of breast cancer treatment. Use the Hot Flash Related Daily Interference Scale (http://bit.ly/2Q9Yi1Z) to assess the effects of hot flashes on patients' quality of life.

Patients rank how much hot flashes have interfered with the following aspects of their life during the past week (0 = not at all; 10 = very much so):

- work
- social activities
- leisure activities
- sleep
- mood

- concentration
- relations with others
- sexuality
- enjoyment of life
- overall quality of life.

have prompted the development of more effective antiemetic drugs. Adjunctive steroid medications are used to complement the effects of antiemetics; however, they contribute to increased appetite and weight gain.

Management: Women who gain more than 13 pounds during breast cancer diagnosis and treatment have a 1.5 times increased risk for breast cancer recurrence. To reduce chances of weight gain, begin prevention strategies at diagnosis.

After identifying risk factors for weight gain, implement behavior-modification techniques and goal setting. Provide referrals to a dietitian for education about the importance of a plant-based diet that includes at least five servings of fruits and vegetables each day. Phytochemicals in plant-based food groups protect human cells from oxidative

damage that can lead to cancer. Also explain that engaging in moderate physical activity before treatment begins can help decrease fatigue levels by 40% to 50%.

After completing breast cancer treatment, patients may have difficulty implementing a daily exercise routine because of the profound fatigue and physical deconditioning that accompanies treatment and being sedentary. Many communities have programs dedicated to creating lifestyle and behavior change. For example, the Moving On oncology rehabilitation program at Greenville Health System provides a 3-month philanthropically supported exercise program for cancer survivors. It's directly supervised by an oncology certified registered nurse and three oncology certified physical trainers. Another option is the YMCA, which partners with

LIVESTRONG to offer free or low-cost 3-month exercise programs for cancer survivors. The program includes exercise navigation for patients who need one-on-one guidance and support.

Fear of recurrence

Many cancer survivors struggle with the fear of disease recurrence after treatment has ended.

Overview: Completing cancer treatment is a celebratory moment typically marked by a bell-ringing ceremony. However, many patients experience high levels of anxiety as they leave the acute phase of survivorship and enter an extended phase. They may fear no longer being followed by their oncology providers and nurses as often as they were during active treatment, and they miss the frequent social interaction with patient peers. In the extended phase of survivorship, patients often live each day worrying about every ache and pain and the possibility of cancer progression or spread. Although thoughts of cancer recurrence plague many patients at levels that affect their quality of life, a certain level of anxiety is necessary to promote adherence to recommended cancer surveillance and follow-up.

Management: Teach patients about strategies to identify and control triggers that escalate their fear and anxiety. Triggers may include scheduled follow-up examinations, a cancer diagnosis anniversary date, and annual cancer surveillance such as mammograms. Reassure patients that fear and anxiety are common, and encourage them to share their concerns with their healthcare team for referrals to support groups or individual counseling. Self-help strategies to relieve stress include mindfulness breathing techniques, yoga, and massage therapy.

Navigating survivorship

Effective navigation of breast can-



Discussing sexual health

Sexual dysfunction that results from breast cancer treatment side effects can be addressed using the PLISSIT model to promote candid conversations between patients and clinicians.

Permission—Create a comfortable environment by asking patients open-ended questions and giving them permission to talk about what they perceive as problems with their sexual health.

Limited Information—After a sexual problem has been identified, provide the patient with specific information and examples about the nature of the sexual problem, including signs and symptoms and how best to approach treatment.

Specific Suggestions—To give patients specific suggestions, you must thoroughly understand the dynamics and consequences of the identified sexual issues. When you're equipped with this knowledge, you can play a significant role in helping the patient identify coping and management strategies.

Intensive Therapy—Make referrals for additional physical and psychological support and guidance. Referrals for sexual dysfunction may include sexual health counselors, pelvic floor physical therapists, and self-help websites (such as will2love.com) that offer evidence-based strategies for managing many sexual health issues, such as relieving vaginal dryness, reducing pain during penetration, and addressing lack of sexual arousal and inability to climax.

cer survivorship begins at diagnosis and lasts throughout the cancer continuum. Many providers lack knowledge of the debilitating late and long-term effects of cancer treatment, and nurses have an important role to play in educating their colleagues and patients. You can help close the gap in patient care by working with your oncology and non-oncology nursing peers to help guide the course of meaningful patient education, thereby improving patient outcomes.

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Please mark the correct answer online.

1. When should survivorship care for patients with breast cancer be implemented?

- a. 1 to 2 months after the final treatment
- b. Immediately after completion of the final treatment
- c. When treatment is 50% completed
- d. At initial diagnosis with the start of adjuvant therapy

2. The Brief Fatigue Inventory

- a. should be completed monthly.
- b. takes about 5 minutes to complete.
- c. is administered by a clinician.
- d. focuses on activity in the past week.

3. The most effective intervention for cancer-related fatigue is

- a. exercise.
- b. rest.
- c. a healthy diet.
- d. losing weight.

4. The American Cancer Society's guidelines on nutrition and physical activity for cancer prevention recommend participating in at least

- a. 60 minutes of moderate-intensity or 45 minutes of vigorous-intensity activity (or a combination) each week.
- b. 150 minutes of moderate-intensity or 30 minutes of vigorous-intensity activity (or a combination) each week.
- c. 100 minutes of moderate-intensity or 75 minutes of vigorous-intensity activity (or a combination) each week.
- d. 150 minutes of moderate-intensity or 75 minutes of vigorous-intensity activity (or a combination) each week.

5. Which statement about vasomotor symptoms experienced by breast cancer survivors is correct?

- a. Vasomotor symptoms are rare in women who are postmenopausal and have a history of breast cancer.
- b. Vasomotor symptoms can be assessed by using the Hot Flash Related Weekly Interference Scale.
- c. Hormone-blocking medications used in breast cancer therapy contribute to vasomotor symptoms.
- d. Nonhormonal pharmacologic cancer therapies used in breast cancer therapy don't cause vasomotor symptoms.

6. Women who experience vasomotor symptoms should avoid all of the following *except*

- a. caffeine.
- b. alcohol.
- c. warm showers.
- d. cigarette smoking.

7. When addressing problems related to sexual health, the nurse should

- a. ask yes-or-no questions.
- b. provide general suggestions.
- c. avoid referrals.
- d. give specific suggestions.

8. Sleep disturbances in breast cancer survivors

- a. occur about two times higher than in the general population.
- b. occur about three times higher than in the general population.
- c. are reported by 10% to 20% of patients.
- d. are reported by 25% to 45% of patients.

9. Which advice for someone with a sleep disturbance is most likely to be effective?

- a. Ensure a warm sleeping environment.
- b. Establish consistent bedtimes and waking times.
- c. Don't take warm baths before bed-
- d. Avoid electronic devices 15 minutes before bedtime.

10. Which statement about weight change in breast cancer survivors is correct?

- a. Weight gain of 5 to 15 pounds is associated with loss of lean body mass and fat gain.
- b. Weight gain of 13 pounds is associated with a 2.5 times increase in risk for breast cancer recurrence.
- Weight gain commonly occurs in patients younger than 50 years old who require chemotherapy.
- d. Weight gain commonly occurs in patients younger than 60 years old who require radiation therapy.

11. Which is *not* a correct statement about the fear of cancer recurrence?

- a. Follow-up appointments or annual cancer surveillance may trigger patients' fear
- Many patients experience high anxiety as they leave the acute phase of survivorship.
- c. Mindful breathing techniques are not usually effective in this situation.
- d. Self-help strategies such as yoga and massage therapy can be used to manage stress.

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