Development of an Evidence-Based Exercise and Education Cancer Recovery Program

Ruth E. Van Gerpen, RN, MS, APRN-CNS, AOCNS®, and Betsy J. Becker, PT, MPT, CLT-LANA

Background

Cancer-related fatigue (CRF) is one of the most common and distressing side effects experienced by patients with cancer. Increased activity and exercise have been shown to significantly impact cancer-related fatigue and are beneficial during and after treatment. This article describes the development and implementation of a 12-week evidence-based exercise and education program for cancer survivors in a community medical center. Participants consistently reported significant improvements in fatigue, depression, sleep disturbances, pain, and quality of life. The improvements were independent of the type of cancer, extent of disease, or treatment status. Additional benefits described by participants were support, a sense of belonging, and being understood.

Program Development

LifeSpring, an exercise and education program for individuals with cancer, was developed in 2007 to impact CRF. The brainchild of an oncology clinical nurse specialist (CNS) and director of health enhancement services, the program was created using the successful model from cardiac rehabilitation (American Association of Cardiovascular and Pulmonary Rehabilitation, 1999) and the increasing evidence in the oncology nursing and physical therapy literature on the impact of physical exercise on CRF. Led by a physical therapist, an interdisciplinary team of medical and radiation oncologists, general surgeons, nurses, and cancer survivors provided input into the structure, content, and format of the program. For additional insight, information on participant recruitment and retention, program design, education session topics, screening tools, and anecdotal reports of successes and failures from other cancer recovery programs were obtained through phone interviews with program leaders.

The program is provided at no cost to participants. Funding is provided by the medical center’s foundation and covers the cost of t-shirts with the LifeSpring logo, resistance bands for home use for each participant, handout materials, snacks, and balloons to release at graduation. The therapist time for planning, preparation, and session facilitation is reimbursed by the foundation. Honoraria for several speakers (e.g., art therapist, women’s health management, and support groups improve energy and reduce fatigue (Knobf, Musanti, & Dorward, 2007; Schwartz, 2007).