Background: The positive effects of regular exercise for cancer survivors are becoming increasingly apparent. However, comprehensive examination of the benefits of modest levels of physical activity is somewhat lacking.

Objectives: This study aimed to test the hypothesis that participating in a 12-session exercise program will improve depression, fatigue, aerobic endurance, muscular strength, and quality of life (QOL) in patients with cancer.

Methods: A group of 20 older adult women with a prior cancer diagnosis were evaluated during a 6- to 10-week exercise program that occurred twice weekly. The majority of patients had breast cancer (n = 14), but treatment status varied (11 were currently undergoing treatment, and 9 were post-treatment). Each patient completed initial and exit assessments, which consisted of three physical function tests and three psychosocial questionnaires. Patient charts contained the initial and final assessment scores and personal demographics.

Findings: Analyses of pre- and postprogram data using paired t tests revealed that 12 exercise sessions (each lasting about an hour) significantly improved six-minute walk test, 30-second sit-and-stand test, hand grip strength test (dominant and nondominant hand), and overall QOL scores in patients. As a result, moderate levels of exercise have a beneficial effect in this population.

All cancer treatments potentially have serious side effects, including fatigue, muscle or hair loss, nausea, pain, weakness, loss of appetite or ability to perform activities of daily living, depression, anxiety, and sleep disruptions (Hanna, Avila, Meteer, Nicholas, & Kaminsky, 2008). In addition, specific treatments and surgical procedures can lead to lymphedema, restricted range of motion, joint pain, and osteoporosis (Schwartz, Mori, Gao, Nail, & King, 2001; Segal et al., 2001). Together, these can lead to loss of physical function, weight management issues, depression, decreased cardiovascular health, and, ultimately, an overall decline in quality of life (QOL) (Adamsen et al., 2009; Campbell, Mutrie, White, McGuire, & Kearney, 2005; Sandel et al., 2005; Valiance, Courneya, Plotnikoff, Yasui, & Mackey, 2007).

Compared to healthy, aged-matched controls, patients with cancer demonstrate multiple measures of impaired psychological and physical well-being during and after treatment. Aerobic endurance, muscular strength, depression, fatigue, and QOL are commonly assessed health and fitness components that are negatively affected by cancer (Gerritsen & Vincent, 2015).