Survival rates for people treated for breast or prostate cancer have increased steadily since 2000, which has been attributed to advances in early detection and improvements in treatments. However, breast and prostate cancer therapies that target estrogen and testosterone production are associated with hormone-deprivation symptoms—most commonly hot flashes—that may have a significant negative impact on quality of life. Compared to the healthy population, hot flashes occur most often in these two groups, so the authors conducted a literature search specifically for evidence-based interventions to manage hot flashes experienced by women treated for breast cancer and men treated for prostate cancer. The interventions reviewed were divided into two broad categories—pharmacologic and nonpharmacologic interventions—and categorized according to Oncology Nursing Society weights of evidence. Most of the interventions were rated effectiveness not established or lower; however, two drugs, venlafaxine and gabapentin, were rated likely to be effective. In addition, the placebo effect was noted to produce a high percentage of positive results in mitigating hot flashes.

Putting Evidence Into Practice: Evidence-Based Interventions for Hot Flashes Resulting From Cancer Therapies

Prostate and breast cancers remain the most frequently diagnosed cancers in men and women in the United States. In 2010, prostate cancer was estimated to account for 28% of all new cases of cancer in men and breast cancer was estimated to account for 28% of all new cases of cancer in women (Jemal, Siegel, Xu, & Ward, 2010). From 1999–2006, breast and prostate cancer overall survival rates have shown a steady increase, at 89% and 99%, respectively (National Cancer Institute, 2010b, 2010c). Early detection and improvements in treatment have contributed to improved survival rates. However, breast and prostate cancer therapies that target estrogen and testosterone production are associated with hormone-deprivation symptoms, most commonly hot flashes. Because hot flashes occur most often in these two groups...