Virtual Reality as a Distraction Intervention for Women Receiving Chemotherapy

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Key Points...

➤ One way to cope with chemotherapy-related symptom distress is through the use of distraction interventions (concentrating on pleasant or interesting stimuli instead of focusing on unpleasant symptoms).
➤ A virtual reality distraction intervention decreased chemotherapy-related symptom distress in a sample of women with breast cancer.
➤ By decreasing chemotherapy-related symptoms, virtual reality has the potential to increase compliance with treatments, affect survival, and enhance quality of life.

Breast cancer is the leading cause of cancer mortality among women aged 30–50. One out of every eight women will develop breast cancer in her lifetime (Jemal et al., 2003). Standard treatment for breast cancer often involves neoadjuvant or adjuvant chemotherapy treatment. These treatments can cause severe side effects such as nausea, vomiting, and fatigue. To achieve a cure, women often must tolerate high levels of symptom distress as a result of treatment- and disease-related side effects. The purpose of this pilot study was to explore the use of virtual reality as a distraction intervention to relieve symptom distress, fatigue, and anxiety in women receiving chemotherapy for breast cancer.

Symptom distress is a global concept that encompasses the discomfort experienced from a wide variety of symptoms. Symptom distress interferes with a person’s ability to perform activities of daily living and adversely affects quality of life (Ehlke, 1988; Pickett, 1991). Frequently reported symptoms associated with cancer chemotherapy are nausea and vomiting (Pickett; Watson & Marvell, 1992). As many as 60% of patients experience these side effects. Acute chemotherapy symptoms such as nausea and vomiting may begin with the chemotherapy infusion and last for 48 hours (Bender et al., 2002; Rhodes, Watson, Johnson, Madsen, & Beck, 1987). Research has shown that patients who are anxious during the first chemotherapy treatment are more likely to experience anticipatory nausea with subsequent treatments (Coons, Leventhal, Nerenz, Love, & Larson, 1987). These investigators also found that adults who are younger and those who develop anticipatory nausea are more likely to experience distress with chemotherapy treatments. For some patients, antiemetics are effective for the treatment of nausea and vomiting. However, nonpharmacologic interventions also have the potential to relieve these symptoms.

Other common physical symptoms associated with chemotherapy include anorexia, fatigue, and anxiety (Sarna, Lindsey, Digital Object Identifier: 10.1188/04.ONF.81-88