About 60% of patients with cancer receive radiation therapy at some point in their treatment course. The acute side effects of therapy are related to the site being treated and can include dysphagia, taste changes, pain, xerostomia, mucositis, nausea and vomiting, diarrhea, and the appearance of anorexia or cachexia. Those side effects can impede the ingestion and absorption of food, therefore negatively impacting a patient’s nutritional status.

Impaired nutritional status affects quality of life, frequency of emergency room visits and hospitalizations, treatment interruptions, and ultimately, morbidity and mortality of the patient (Bosaeus, Daneryd, Svanberg, & Lundholm, 2001; Dewys et al., 1980; Grossvenor, Bulcavage, & Chlebowski, 1989; Ottery, 1996; Ravasco, Monteiro-Grillo, Vidal, & Camilo, 2003). Dewys et al. reported the effects of weight loss on the prognosis of more than 3,000 patients with 12 different tumor types. Weight loss was found to be an independent predictor of shorter survival in the majority of tumor categories, even in patients with a favorable performance status. Bosaeus et al. studied the effect of dietary intake and resting energy expenditure on weight status in patients with advanced tumors and found that hypermetabolism and continued weight loss were associated with decreased survival. Involuntary weight loss greater than 5% of total weight in one month or more than 1%–2% per week is an indicator of malnutrition (Beaver, Matheny, Roberts, & Myers, 2001).

To date, nursing intervention with education and support has been the only nutritional approach in most outpatient settings to deter further weight loss in patients. Understanding the role that nutrition plays in the management of cancer and ensuring that patients with cancer receive adequate nutrition are essential components of quality care. Nursing intervention alone is often inadequate in addressing weight loss because of lack of time, education, and resources. Timely and persistent intervention from a trained nutrition professional is essential in the outpatient setting. Patients feel better emotionally and physically and are more in control of their situation after having a nutrition consultation (Schiller et al., 1998).

### Literature Review

Because dietary issues can arise, increase, and persist throughout all stages of cancer care, screening is important before, during, and after treatment with referrals to a dietitian if warranted. In a study of 50 patients with head and neck cancer receiving radiation therapy, 44% had eating difficulties...