Cancer remains a major cause of illness and death in the United States, although new treatments are improving survival rates. The American Cancer Society (2004) estimated that the five-year relative survival rate was 63% for all patients with cancer diagnosed and followed from 1992–1999. Although chemotherapy has been very effective in many cancers and produced cures in some cancers such as acute leukemia, Hodgkin disease, and testicular tumors, it has significant side effects. Chemotherapeutic drugs are particularly toxic to highly proliferative tissues such as hair follicles and oral mucosa. In particular, approximately one million episodes of mucositis occur annually in the United States (Dodd et al., 2000). According to Epstein and Schubert (1999), oral mucositis is the most common condition requiring systemic analgesics during cancer therapy. Because of the use of growth factors and the dose response seen with many agents in vitro, high-dose chemotherapy is increasingly used for many hematologic and solid malignancies (Avritscher, Cooksley, & Elting, 2004). This trend is likely to contribute to an increased incidence of mucositis episodes.

Mucositis is a general term that describes the inflammatory response of mucosal epithelial cells to the cytotoxic effects of chemotherapy. All mucous membrane-covered surfaces from the mouth to the rectum may be affected (Camp-Sorrell, 2000). Mucositis may include inflammation of the oral mucosa (stomatitis), esophagus (esophagitis), or gastrointestinal tract (gastroenteritis). Stomatitis occurs in approximately 40% of patients undergoing chemotherapy and more than 75% of patients undergoing bone marrow transplantation (Wojtaszek, 2000). The incidence and severity of mucositis vary greatly among patient populations, yet mucositis significantly reduces quality of life and patients’ treatment experiences.

Oral pain is the major clinical problem associated with stomatitis; however, thorough pain assessment may be lost among other assessment parameters. Pain assessment must be tied to the extent of mucosal injury for appropriate interventions. An assessment tool that includes physical, functional, and pain parameters is presented in this article. Because mucositis is a dose-limiting toxicity of many cancer therapies, it can impact survival directly (Avritscher et al., 2004).

Unresolved or untreated mucositis can create complications that jeopardize outcomes and increase morbidity, including infections and impaired nutritional status. In severe inflammation or ulceration of the oral or oropharyngeal mucosal membranes (Wojtaszek, 2000). This inflammation causes numerous symptoms, including dysphagia, dyspepsia, malabsorption, diarrhea, pain, and infection. The terms mucositis and stomatitis are used interchangeably.

The International Association for the Study of Pain (IASP) developed a definition of pain: “Pain is an unpleasant sensory and emotional experience associated with actual or potential tissue damage, or described in terms of such damage.”

Submitted May 2004. Accepted for publication August 23, 2004. (Mention of specific products and opinions related to those products do not indicate or imply endorsement by the Clinical Journal of Oncology Nursing or the Oncology Nursing Society.)

Digital Object Identifier: 10.1188/04.CJON.622-628