Cancer diagnosis singly contributes to a significant poorer psychosocial adjustment (Derogatis & Derogatis, 1990; Wolberg, Romasaas, Tanner, & Malec, 1989). Derogatis and Derogatis (1990) viewed psychosocial adjustment as intrapsychic processes, or interactions between the person and other people and between the person and their sociocultural environment. Those interactions are achieved by the roles they perform, and the efficiency of those roles is associated with their interpretation of their own psychosocial adjustment (Derogatis & Derogatis, 1990). Seven principal domains of psychosocial adjustment have been identified, although individuals determine which domains are most important in their life (Derogatis & Derogatis, 1990) (see Table 1). Studies have found that 20%–38% of patients with cancer experience moderate to high levels of psychosocial maladjustment (Greer, 1994; Harrison & Maguire, 1994; Lima, 2005).

Although colorectal cancer is the third most commonly diagnosed cancer in Canada, mortality rates have been declining since 1996 (Canadian Cancer Society Steering Committee, 2010). Chemotherapy is used regularly, either alone or in combination with radiation, for the postoperative adjuvant treatment of colorectal cancer (Midgley & Kerr, 2000). Studies in various cancer populations indicate that people who are treated with systemic chemotherapy experience greater cognitive disturbances than those treated with more localized modalities, such as radiation therapy (Ahles et al., 2005; Schagen et al., 1999; van Dam et al., 1998). Therefore, as people live longer with colorectal cancer, healthcare professionals need to understand the long-term effects of chemotherapy, such as cognitive impairment.

An increasing volume of evidence exists showing the effects of chemotherapy on cognitive function, primarily in women with breast cancer who are receiving adjuvant chemotherapy treatment. As many as 75% of patients with breast cancer receiving chemotherapy have experienced moderate to severe cognitive impairment (Ahles et al., 2003; Brezden,