Effects of Darbepoetin Alfa Administered Every Two Weeks on Hemoglobin and Quality of Life of Patients Receiving Chemotherapy

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Key Points . . .

➤ The erythropoietic agent darbepoetin alfa is effective and well tolerated when dosed every two weeks (Q2W), improving hemoglobin levels and reducing fatigue.

➤ Darbepoetin alfa dosed Q2W has similar efficacy to widely used weekly and three-times-weekly regimens of epoetin alfa.

➤ Darbepoetin alfa can improve patients’ quality of life, directly through relief of anemia symptoms and indirectly through reduction of the frequency of injections and thus the number of clinic visits.

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n recent years, much attention has been focused on anemia in patients with cancer and its effect on their health-related quality of life (QOL). Anemia is highly prevalent in patients with cancer, either as a result of the cancer itself or as a consequence of treatments, be they chemotherapy, radiation, or surgery (Gropman & Itri, 1999; Johnston & Crawford, 1998; Mercadante, Gieb, Marrazzo, & Filosto, 2000; Tchekmedyan, 2002). More than half of all patients with cancer may be affected by anemia (Gillespie, 2002; Groopman & Itri, 1999; Johnston & Crawford). In addition to myelosuppressive or nephrotoxic chemotherapy, underlying causes of anemia in patients with cancer include destruction or displacement of bone marrow, bleeding, nutritional deficiencies, and chronic anemia of cancer (Erslev, 2000; Mercadante et al.). Hemolytic anemia also may occur in lymphoproliferative disorders, such as chronic lymphocytic leukemia and lymphoma, because of the destruction of red blood cells (RBCs) through an inappropriate autoimmune response (Mojacarr, Bosch, & Rozman, 1997).

Anemia is associated with a range of debilitating symptoms, in particular fatigue (Cella, 1998, 2002; Curt, 2000; Holzner et al., 2002; Ludwig & Pecorelli, 2000). Fatigue can have significant effects on patients’ QOL. For example, it can reduce . . .