Background: Considered to be a secondary malignancy, Epstein-Barr virus (EBV)–associated post-transplantation lymphoproliferative disorder (PTLD) is a potentially fatal complication of hematopoietic cell transplantation (HCT). With 50%–70% of all reported cases of PTLD being associated with EBV, the incidence in HCT is relatively low. However, mortality rates in this population of patients are 70%–90%.

Objectives: The focus of this article is to discuss published literature regarding the risk factors, clinical manifestations, diagnosis, prevention, and potential treatment options for EBV-PTLD, as well as nursing implications and the importance of patient education in high-risk HCT recipients.

Methods: This review of literature focused on locating, summarizing, and synthesizing data from published clinical studies that focused on treatment options, guidelines, and recommendations for EBV-PTLD. CINAHL® and PubMed databases were used to search for articles published within the past 10 years that included the following key words: post-transplantation lymphoproliferative disorder, Epstein-Barr virus, and hematopoietic cell transplantation.

Findings: Prevention and preemptive therapy are paramount when caring for patients undergoing HCT. Early determination of risk, close observation of EBV DNA levels in the blood, and prompt initiation of therapy are essential to improving patients’ overall prognosis. Reduction in immunosuppression is considered first-line therapy for those diagnosed with EBV-PTLD. The literature also supports rituximab-based therapies, administration of EBV-specific cytotoxic T cells, and donor lymphocyte infusion as treatment strategies.

Sarah Jiménez, MSN, ARNP, AOCNP®, is a bone marrow transplantation clinical leader at the University of Florida Health Shands Cancer Hospital. The author takes full responsibility for the content of the article. This study was supported, in part, by a grant from the American Cancer Society (No. GSCNP-12-241-01). The content of this article has been reviewed by independent peer reviewers to ensure that it is balanced, objective, and free from commercial bias. No financial relationships relevant to the content of this article have been disclosed by the author, planners, independent peer reviewers, or editorial staff. Jiménez can be reached at smountney1509@hotmail.com, with copy to editor at CJONEditor@ons.org. (Submitted November 2013. Revision submitted April 2014. Accepted for publication April 28, 2014.)

Key words: post-transplantation lymphoproliferative disorder; Epstein-Barr virus; hematopoietic cell transplantation

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