A 30-year-old man named M.E. had chronic graft-versus-host disease (GVHD) in his eyes, skin, and gastrointestinal tract. He received a matched, unrelated allogeneic transplantation six years ago that included total body radiation. He did not receive prophylactic treatment for GVHD prior to transplantation and, within 30 days, he experienced acute GVHD symptoms that resolved within six months post-transplantation. Two years after the transplantation, M.E. began feeling burning and scratching symptoms in his eyes and experienced pain and difficulty keeping his eyes open. His physician treated him with lubricating eye drops, topical and oral steroids, and cyclosporine eye drops. He also was taking immunomodulators, including tacrolimus and mycophenolate mofetil, as systemic therapy for GVHD. Those treatment options did not improve his ocular manifestations. His physician referred him to an ophthalmologist who specialized in ocular GVHD. He was treated with punctual plugs one year after his ocular symptoms began, but they repeatedly fell out. As the symptoms worsened, his eyes often appeared very red and swollen. He had great difficulty driving to and from work because of the bright lights, burning sensations, and frequent need to administer lubricating eye drops. M.E. struggled daily with the severity of his symptoms until his local optometrist suggested that he should go to the Boston Foundation for Sight for informed evaluation of scleral lenses. Four years post-transplantation, M.E. was seen and fitted with the lenses, and he reported relief within 48 hours. He remained in Boston for two weeks to be trained to apply the scleral lenses. When he returned home, he was able to enjoy things that he had been unable to do or had suffered through for two years. Scleral lenses improved M.E.’s quality of life by relieving his photophobia and eye pain and improving overall functional status.

Ocular Graft-Versus-Host Disease

Patients are surviving hematologic malignancies (e.g., leukemia, lymphoma, multiple myeloma) because of the increased use of hematopoietic stem cell transplantation (Fraser et al., 2006). Despite the advances in treatment, patients receiving allogeneic transplantations may experience major complications (e.g., GVHD) that can significantly affect quality of life and become life threatening. GVHD, the most common complication, occurs because the hematopoietic stem cells do not recognize the host’s tissues and begin to attack like an exaggerated immune response (Choi, Levine, & Ferrara, 2010). In contrast to...