Safe and Effective Standards of Care

Supporting the administration of T-VEC for patients with advanced melanoma in the outpatient oncology setting

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BACKGROUND: Talimogene laherparepvec (T-VEC) is the first oncolytic virus (OV) to demonstrate therapeutic benefit for the treatment of advanced melanoma. As a live virus, the use of T-VEC in medical and surgical outpatient clinics posed challenges.

OBJECTIVES: The purpose of this article is to describe the challenges faced when introducing an OV treatment into outpatient clinics and the processes implemented to ensure safety for patients, caregivers, and staff across the care continuum.

METHODS: An interdisciplinary team of experts developed and implemented new practices and workflows to support the administration of T-VEC in the outpatient setting. Clinical staff were educated on this new treatment, its indications and side effects, and the practice standards created to support its use.

FINDINGS: T-VEC posed safety and logistical challenges that were successfully addressed and implemented. To date, 16 patients with locoregionally advanced melanoma have been treated with T-VEC. No adverse events occurred related to preparation or administration, which opens the door for similar therapies in the future.

MELANOMA IS SKIN CANCER THAT ARISES FROM THE MELANOCYTES in the epidermis. Its incidence has risen since 1980; an estimated 87,110 new melanomas will be diagnosed in 2017 (American Cancer Society, 2017; Howlader et al., 2013). Surgery cures most early-stage melanoma, but five-year survival rates for late-stage melanoma are as low as 15%–20% (American Cancer Society, 2017). Traditional treatment options for unresectable or metastatic melanoma include palliative surgery, radiation therapy, systemic chemotherapy, and immunotherapy with interleukin-2 (IL-2) (Dummer et al., 2015). Unfortunately, these treatments have had little impact on overall survival, leaving patients with no effective first-line treatment options.

Oncolytic Viruses

Oncolytic viruses (OVs) are emerging as vital agents in cancer treatment. Because of their intrinsic characteristics, viruses can be capitalized on to...