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Allogeneic Multivirus-specific Cytotoxic T Lymphocytes

National Cancer Institute

Source

National Cancer Institute. <u>Allogeneic Multivirus-specific Cytotoxic T Lymphocytes</u>. NCI Thesaurus. Code C115107.

A population of closely human leukocyte antigen (HLA)-matched, donor-derived cytotoxic T lymphocytes (CTLs) that are specifically reactive towards five viruses, Epstein-Barr virus (EBV), cytomegalovirus (CMV), adenovirus (AdV), human herpesvirus 6 (HHV6), and human polyomavirus type I (BKV), with potential antiviral activity. Infusion of the multivirus-specific CTLs into allogeneic hematopoietic stem cell transplant (HSCT) recipients provides virus-specific cellular immunity and causes specific anti-viral effects against active viral infections. The administered CTLs also prevent EBV, CMV, AdV, HHV6, and BKV reactivation and infection as well as inhibiting viral-associated diseases in immunocompromised patients. The allogeneic multivirus-specific CTLs may also provide cellular immunity towards the human polyomavirus type II (JC virus; JCV), which is highly homologous to BKV.

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