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Allogeneic CMV Antigen-specific CD4+/CD8+ T-lymphocytes

National Cancer Institute

Source

National Cancer Institute. *Allogeneic CMV Antigen-specific CD4+/CD8+ T-lymphocytes*. NCI Thesaurus. Code C157340.

A population of allogeneic T-lymphocytes specifically reactive to cytomegalovirus (CMV) with potential antiviral activity. Allogeneic CMV antigen-specific T-cells are prepared via ex vivo stimulation of donor-derived peripheral blood mononuclear cells (PBMCs) with major cytomegalovirus structural protein, pp65 (ppUL83). T-cells that secrete interferon (IFN)-gamma in response to pp65 antigen exposure are selected and expanded for administration. Administration of the CMV antigen-specific CD4+ and CD8+ T-lymphocytes into hematopoietic stem cell transplant (HSCT) or immunocompromised patients infected with CMV may potentially reconstitute virus-specific responses, thereby controlling CMV infections.