

PubMed

Format: Abstract

Full text links

N Engl J Med. 2016 Dec 29;375(26):2561-9. doi: 10.1056/NEJMoa1610497.



Regression of Glioblastoma after Chimeric Antigen Receptor T-Cell Therapy.

[Brown CE](#)¹, [Alizadeh D](#)¹, [Starr R](#)¹, [Weng L](#)¹, [Wagner JR](#)¹, [Naranjo A](#)¹, [Ostberg JR](#)¹, [Blanchard MS](#)¹, [Kilpatrick J](#)¹, [Simpson J](#)¹, [Kurien A](#)¹, [Priceman SJ](#)¹, [Wang X](#)¹, [Harshbarger TL](#)¹, [D'Apuzzo M](#)¹, [Ressler JA](#)¹, [Jensen MC](#)¹, [Barish ME](#)¹, [Chen M](#)¹, [Portnow J](#)¹, [Forman SJ](#)¹, [Badie B](#)¹.

Author information

Abstract

A patient with recurrent multifocal glioblastoma received chimeric antigen receptor (CAR)-engineered T cells targeting the tumor-associated antigen interleukin-13 receptor alpha 2 (IL13R α 2). Multiple infusions of CAR T cells were administered over 220 days through two intracranial delivery routes - infusions into the resected tumor cavity followed by infusions into the ventricular system. Intracranial infusions of IL13R α 2-targeted CAR T cells were not associated with any toxic effects of grade 3 or higher. After CAR T-cell treatment, regression of all intracranial and spinal tumors was observed, along with corresponding increases in levels of cytokines and immune cells in the cerebrospinal fluid. This clinical response continued for 7.5 months after the initiation of CAR T-cell therapy. (Funded by Gateway for Cancer Research and others; ClinicalTrials.gov number, [NCT02208362](#) .).

PMID: 28029927 DOI: [10.1056/NEJMoa1610497](#)[PubMed - indexed for MEDLINE] [Free full text](#)Publication Types, MeSH Terms, Substances, Secondary Source ID, Grant Support LinkOut - more resources

PubMed Commons

[PubMed Commons home](#)

0 comments

[How to join PubMed Commons](#)