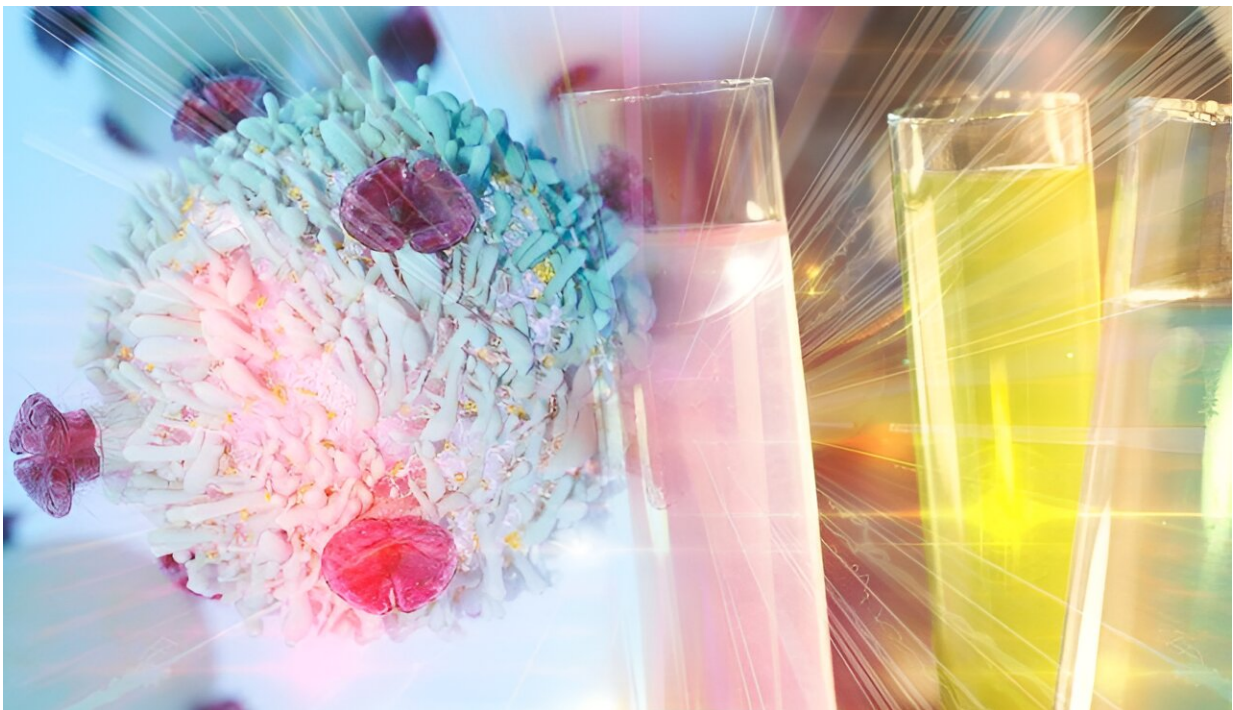


Second primary malignancies represent small proportion of adverse events after CAR T-cell therapy

March 20 2024, by Elana Gotkine



Second primary malignancies (SPMs) represent a small proportion of adverse events (AEs) reported by patients receiving chimeric antigen receptor T-cell (CAR T-cell) therapy, according to a letter to the editor published online March 14 in *Blood*.

Noting that CAR T-cell-eligible patients are often heavily pretreated and have a higher risk for treatment-related AEs, Magdi Elsallab, M.D., Ph.D., from Harvard Medical School in Boston, and colleagues analyzed the U.S. Food and Drug Administration AE Reporting System database to quantify reports of SPMs after CAR T-cell therapy.

The researchers identified 12,394 unique reports of CAR T-cell therapy AEs; 2,225 of these were associated with the System Organ Class "Neoplasms benign, malignant, and unspecified."

Overall, 536 SPM reports (4.3 percent) were included after application of exclusion criteria. Most of the reports included axicabtagene ciloleucel and tisagenlecleucel (51.7 and 33.0 percent, respectively). By high-level group term, the most frequent SPMs were leukemias (62.1 percent), which represented 2.7 percent of all CAR T-cell therapy reports, followed by skin neoplasms (10.1 percent). Leukemias included [myelodysplastic syndromes](#), acute myeloid leukemias, and T-cell large granular lymphocytic [leukemia](#) (208, 106, two cases, respectively).

"We will continue to monitor the data released by the FDA to learn more about CAR T-associated risks," Elsallab said in a statement. "However, it's crucial to stress that the benefits of CAR T-cell therapies still outweigh the risks for the approved indications."

Several authors disclosed ties to the pharmaceutical industry.

More information: Magdi Elsallab et al, Second Primary Malignancies After Commercial CAR T Cell Therapy: Analysis of FDA Adverse Events Reporting System (FAERS), *Blood Journal* (2024). [DOI: 10.1182/blood.2024024166](https://doi.org/10.1182/blood.2024024166)

Copyright © 2024 [HealthDay](#). All rights reserved.

Citation: Second primary malignancies represent small proportion of adverse events after CAR T-cell therapy (2024, March 20) retrieved 27 April 2024 from <https://medicalxpress.com/news/2024-03-primary-malignancies-small-proportion-adverse.html>

This document is subject to copyright. Apart from any fair dealing for the purpose of private study or research, no part may be reproduced without the written permission. The content is provided for information purposes only.