

United States CAR-T Cell Therapy Market, By Product (Abecma (idecabtagene vicleucel), Breyanzi (lisocabtagene maraleucel), Carvykti (ciltacabtagene autoleucel), Kymriah (tisagenlecleucel), Tecartus (brexucabtagene autoleucel), Yescarta (axicabtagene ciloleucel), Others), By Disease (Leukemia, Lymphoma, Multiple Myeloma, Others), By End User (Hospitals, Cancer Treatment Centers), By Region, Competition, Forecast & Opportunities, 2020-2030F

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Abstracts

Market Overview

The United States CAR-T Cell Therapy Market was valued at USD 3.25 Billion in 2024 and is projected to reach USD 5.72 Billion by 2030, growing at a CAGR of 9.85% during the forecast period. CAR-T (Chimeric Antigen Receptor T-cell) therapy represents a rapidly expanding segment within immuno-oncology, marked by transformative advances in biotechnology and cell engineering. This therapy involves modifying a patient's T-cells to express receptors targeting specific cancer antigens, enhancing the immune system's ability to eliminate malignant cells. The U.S. market has witnessed substantial growth, largely due to the effectiveness of CAR-T therapies in treating hematologic malignancies such as large B-cell lymphoma, leukemia, and multiple myeloma. As technological advancements continue and the therapy's use extends to new indications and patient populations, CAR-T therapy is becoming an integral component of cancer treatment. With increasing regulatory approvals and progress in manufacturing and scalability, the market is expected to remain on a strong upward trajectory, despite challenges around pricing and

access.

Key Market Drivers

Increasing Incidence of Cancer

The growing prevalence of cancer is a significant factor driving the expansion of the U.S. CAR-T Cell Therapy Market. In 2025, approximately 2,041,910 new cancer cases are projected to be diagnosed in the United States, with an estimated 618,120 cancer-related deaths. Among children and adolescents aged 0 to 19, nearly 14,690 new cancer cases are expected, with 1,650 anticipated fatalities. As the number of cancer diagnoses rises, so does the demand for advanced, targeted therapies like CAR-T. This treatment has shown remarkable success, particularly for patients with hematologic malignancies that are unresponsive to conventional therapies such as chemotherapy or radiation. CAR-T cell therapy offers a personalized and highly targeted approach that modifies a patient's own immune cells to attack cancer. With growing awareness and clinical success, CAR-T is increasingly being adopted as a preferred treatment option in cases where traditional approaches have failed, supporting its continued market expansion.

Key Market Challenges

High Cost and Accessibility Issues

The high cost of CAR-T therapy remains one of the most pressing challenges impacting market growth. A single treatment can range from USD 373,000 to USD 500,000, depending on the specific therapy and healthcare provider. The high expense stems from the complex, individualized manufacturing process involving the extraction, genetic modification, and reinfusion of a patient's T-cells. While insurance coverage for CAR-T therapies is increasing, many patients still face substantial out-of-pocket expenses, creating a significant access barrier. Healthcare institutions may also struggle with reimbursement and budgeting concerns, especially given the high upfront costs. This can limit patient access and place strain on treatment centers. Manufacturers face the dual challenge of maintaining innovation and cost-effectiveness while addressing market expectations for affordable care. Although the therapy's effectiveness is widely recognized, its long-term sustainability is questioned due to its pricing and accessibility limitations.

Key Market Trends

Expansion of CAR-T Applications to Solid Tumors

A prominent trend shaping the future of the U.S. CAR-T Cell Therapy Market is the exploration of CAR-T applications beyond hematologic cancers to include solid tumors. Currently, CAR-T therapies are primarily used for blood cancers like leukemia and lymphoma. However, efforts are underway to adapt this technology for solid tumors, including breast, lung, and pancreatic cancers, which collectively represent about 90% of cancer cases. This trend significantly expands the addressable market and creates new growth opportunities. Pharmaceutical companies and research institutions are focusing on developing CAR-T cells capable of overcoming the immunosuppressive tumor microenvironment and targeting solid tumor-specific antigens. Innovations that enhance the infiltration, survival, and persistence of CAR-T cells in solid tumors are essential to unlocking these new therapeutic avenues. Successful clinical translation of these therapies could mark a major milestone in cancer treatment and reshape the oncology landscape.

Key Market Players

Gilead Sciences, Inc (US)

Novartis United States

AbbVie Inc.

Myriad Genetics

NeoGenomics Laboratories

Intellia Therapeutics (US)

Agilent Technologies, Inc. (US)

Abcam plc.

Bio-Techne (ExoDx)

Sangam Therapeutics, Inc. (US)

Report Scope:

In this report, the United States CAR-T Cell Therapy Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

United States CAR-T Cell Therapy Market, By Product:

Abecma (idecabtagene vicleucel)

Breyanzi (lisocabtagene maraleucel)

Carvykti (ciltacabtagene autoleucel)

Kymriah (tisagenlecleucel)

Tecartus (brexucabtagene autoleucel)

Yescarta (axicabtagene ciloleucel)

Others

United States CAR-T Cell Therapy Market, By Disease:

Leukemia

Lymphoma

Multiple Myeloma

Others

United States CAR-T Cell Therapy Market, By End User:

Hospitals

Cancer Treatment Centers

United States CAR-T Cell Therapy Market, By Region:

Northeast

Midwest

South

West

Competitive Landscape

Company Profiles: Detailed analysis of the major companies present in the United States CAR-T Cell Therapy Market.

Available Customizations:

United States CAR-T Cell Therapy market report with the given market data, TechSci Research offers customizations according to a company's specific needs. The following customization options are available for the report:

Company Information

Detailed analysis and profiling of additional market players (up to five).

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