

U.S. Leukemia Therapeutics Market Size, Share & Trends Analysis Report By Type (Chronic Myeloid Leukemia (CML), Chronic Lymphocytic Leukemia (CLL)), By Treatment, By Distribution Channels, And Segment Forecasts, 2025 - 2033

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Abstracts

The U.S. leukemia therapeutics market size was estimated at USD 7.23 billion in 2024 and is projected to reach USD 13.07 billion by 2033, growing at a CAGR of 6.80% from 2025 to 2033. The industry is expanding due to the strong adoption of targeted therapies that offer high clinical precision.

Increased use of genomic profiling supports accurate treatment selection and enhances overall therapeutic outcomes. Growth in CAR-T cell therapy utilization adds momentum through improved remission durability in high-risk patients. Advancements in bispecific antibodies strengthen options for relapsed and refractory cases. For instance, in March 2024, the National Cancer Institute (via the Surveillance, Epidemiology, and End Results Program) reported that in the U.S., there were an estimated 536,245 people living with leukemia in 2022, representing the prevalence of the disease. The broader integration of molecular diagnostics enhances patient identification for advanced therapies. Continuous development of next-generation agents sustains momentum in the market. The rising preference for personalized oncology care is expected to strengthen long-term treatment demand.

Therapeutic innovation strengthens market growth as clinical pipelines deliver novel mechanisms for acute and chronic leukemia. Wider availability of oral targeted agents improves adherence and supports strong commercial performance. Expansion of clinical evidence enhances prescriber confidence across major oncology networks. Increased survival rates create ongoing demand for maintenance and follow-up

therapies. High disease burden within aging populations drives treatment initiation across multiple leukemia types. Advancements in combination regimens have improved the depth of response in both frontline and salvage settings. For instance, in November 2025, Business Wire reported that the U.S. Food and Drug Administration (FDA) granted Orphan Drug Designation to Leukogene Therapeutics Inc.'s lead product candidate LTI-214 (also named M2T-CD33) for the treatment of Acute Myeloid Leukemia (AML), providing incentives such as tax credits on qualified clinical trial costs, waiver of certain FDA fees, and U.S. market exclusivity upon approval. Strong investment from major pharmaceutical companies accelerates the development and commercialization of new agents.

Improved treatment access through specialized oncology centers contributes to market expansion across the U.S. Growth in real-world evidence supports broader adoption of immunotherapy and targeted strategies. Higher utilization of high-value biologics strengthens revenue contribution across leading manufacturers. Enhanced therapeutic durability reduces the frequency of relapse and encourages continued long-term therapy. Rising clinical trial activity in major cancer institutions supports rapid evaluation of emerging platforms. An increased emphasis on precision treatment pathways supports the consistent uptake of advanced therapeutics. Continuous improvements in patient management practices reinforce sustained demand for leukemia treatments.

U.S. Leukemia Therapeutics Market Report Segmentation

This report forecasts revenue growth at country level and provides an analysis of the latest industry trends in each of the sub-segments from 2021 to 2033. For this study, Grand View Research has segmented the U.S. leukemia therapeutics market report based on type, treatment, and distribution channels:

Type Outlook (Revenue, USD Million, 2021 - 2033)

Chronic Myeloid Leukemia (CML)

Chronic Lymphocytic Leukemia (CLL)

Acute Lymphocytic Leukemia (ALL)

Acute Myeloid Leukemia (AML)

Others

Treatment Outlook (Revenue, USD Million, 2021 - 2033)

Chemotherapy

Targeted Therapy

Immunotherapy

Others

Distribution Channels Outlook (Revenue, USD Million, 2021 - 2033)

Hospital Pharmacy

Retail Pharmacy

Others

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