

U.S. Oncology Information Systems Market Size, Share & Trends Analysis Report By Product & Service (Software, Professional Services), By Application (Medical Oncology, Surgical Oncology, Radiation Oncology), By End Use, And Segment Forecasts, 2025 - 2033

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Abstracts

Market Size & Trends

The U.S. oncology information systems market size was estimated at USD 900.29 million in 2024 and is projected to grow at a CAGR of 7.56% from 2025 to 2033. The growing prevalence of cancer among various demographics and the rising demand for advanced innovative oncology information systems (OIS) are some of the driving factors for the U.S. market. Oncology information solutions deployment is high in hospitals & cancer research institutes in the U.S. due to the rise in the prevalence of cancer and the increase in healthcare expenditure budget.

The U.S. oncology information system (OIS) market is poised for significant growth, driven by the rising cancer burden and the increasing integration of advanced healthcare IT solutions. According to the National Cancer Institute, over 2 million new cancer cases are projected to be diagnosed in the U.S. in 2024, with an estimated 611,720 cancer-related deaths. This escalating disease incidence necessitates robust data management and clinical decision support systems, thereby accelerating the demand for OIS platforms across healthcare facilities.

Moreover, the healthcare sector in the U.S. has witnessed a surge in the adoption of digital technologies aimed at optimizing workflows, administrative functions, and patient

care delivery. Oncology information systems, equipped with advanced functionalities such as treatment planning, data visualization, and patient tracking, have emerged as critical tools for improving clinical outcomes and operational efficiency.

Furthermore, increased investment in oncology R&D, supported by both public and private organizations, is fostering product innovation. For instance, the American Brachytherapy Society (ABS), a prominent nonprofit founded in 1978, actively supports the advancement of brachytherapy through professional education, research promotion, and awareness-building initiatives. Such organizations play a pivotal role in driving innovation and knowledge dissemination in oncology care.

The growing integration of artificial intelligence (AI) into oncology workflows is expected to further propel the expansion of the U.S. oncology information systems industry. In October 2024, Ontada, a McKesson Corporation subsidiary, partnered with Microsoft to utilize Azure AI, including Azure OpenAI Service, to enhance the processing of unstructured oncology data. This collaboration aims to extract actionable insights from complex clinical documents, ultimately supporting data-driven treatment planning and real-time decision-making.

These factors, such as rising cancer prevalence, expanding healthcare IT adoption, increased R&D activities, and AI-driven innovation, are collectively expected to drive sustained growth of the U.S. oncology information system market over the forecast period.

U.S. Oncology Information Systems Market Report Segmentation

This report forecasts revenue growth 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. oncology information systems market report based on product & service, application, and end use:

Product & Service Outlook (Revenue, USD Million, 2021 - 2033)

Software

Patient Information Systems

Treatment Planning Systems

Professional Services

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

Medical Oncology

Radiation Oncology

Surgical Oncology

End Use Outlook (Revenue, USD Million, 2021 - 2033)

Hospitals & Diagnostic Imaging Centers

Ablation Care Centers and Cancer Care Centers

Government Institutions

Research Facilities

This report can be delivered to the clients within 3 Business Days

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