

# **Decentralized Clinical Trials (DCTs) Market - Global Industry Size, Share, Trends, Opportunity, and Forecast, Segmented By Study Design (Interventional Trials, Observational Studies, Expanded Access Trials), By Therapeutic Area (Oncology, Cardiovascular Diseases, Infectious Diseases, Metabolic Disorders, Neurology, Immunology, Respiratory Diseases, Others), By End User (Pharmaceutical & Biotechnology Companies, Contract Research Organizations (CROs), Academic & Research Institutions, Others), By Region and Competition, 2020-2030F**

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## **Abstracts**

Global Decentralized Clinical Trials (DCTs) Market was valued at USD 9.63 Billion in 2024 and is expected to reach USD 21.34 Billion in the forecast period with a CAGR of 14.16% through 2030. The Global Decentralized Clinical Trials (DCTs) Market is experiencing significant growth as the pharmaceutical and biotechnology industries increasingly adopt digital solutions for clinical research. Decentralized clinical trials allow for the remote monitoring of patients and data collection through digital tools like wearable devices, telemedicine, and mobile applications, facilitating a more flexible and patient-centric approach to clinical research. These trials enable participants to engage in studies from the comfort of their homes, improving patient recruitment and retention rates while reducing geographical and logistical barriers. The integration of advanced technologies is driving innovation in trial design, making DCTs an attractive solution for

drug developers and medical researchers looking to streamline the clinical trial process.

Key drivers of the decentralized clinical trials market include the growing demand for faster drug development processes and the increasing need for patient-centric clinical trial models. DCTs offer a more efficient way of conducting clinical trials, as they help cut down on recruitment times and operational costs. Furthermore, with the rise of digital health technologies and telemedicine, the logistics of running clinical trials have improved, making it easier for participants to remain engaged in the trial process. These innovations support quicker collection of real-world evidence and ensure a broader representation of diverse patient populations, which is critical for the development of drugs that address unmet medical needs.

While DCTs present numerous advantages, several challenges need to be addressed for the market to fully reach its potential. Regulatory and compliance issues remain one of the key hurdles, as current regulations are often tailored to traditional clinical trial models. This requires adaptation to accommodate the digital and remote nature of DCTs. Additionally, issues around data security and patient privacy are growing concerns, as the increased use of electronic health records and remote monitoring tools exposes sensitive information to cyber threats. Despite these challenges, the growing demand for faster, more cost-effective clinical trials continues to fuel investment in decentralized models, making DCTs a significant trend within the clinical research landscape.

## Key Market Drivers

### Increasing Demand for Patient-Centric Clinical Trials

The increasing demand for patient-centric clinical trials is a major driver of the Global Decentralized Clinical Trials (DCTs) Market. This shift towards more patient-focused approaches in clinical research is driven by the need to enhance patient experience, improve engagement, and increase retention rates throughout the trial process. Traditional clinical trials often involve significant logistical hurdles for participants, such as long travel distances to clinical sites, time-consuming visits, and rigid schedules. These challenges can discourage participation and lead to high dropout rates, which hinder the success and efficiency of trials.

A study published in *Frontiers in Public Health* highlighted that globally, more than 80% of trials fail to enroll on time, resulting in extensions of study durations and the addition

of new study sites.

Decentralized clinical trials address these challenges by offering more flexible and accessible options for patients. With remote monitoring, virtual consultations, and mobile health apps, patients can participate in clinical trials from the comfort of their homes, reducing the burden of frequent site visits. This flexibility not only improves patient convenience but also enhances recruitment and retention by making it easier for patients to stay engaged with the trial.

The shift towards patient-centric trials also aligns with the broader trend of personalized medicine, where treatments are tailored to individual patient needs. DCTs allow for a more diverse and representative patient population, which is critical for developing treatments that work for a wide range of individuals. In this environment, patients can receive treatments that are more closely aligned with their specific health conditions, improving the likelihood of positive outcomes. A review published in *Frontiers in Public Health* noted that drop-out rates of 25%–30% are common in clinical trials, underscoring the importance of patient engagement strategies. As patients demand greater involvement and more flexible participation options, the shift toward patient-centric clinical trials will continue to fuel the growth of decentralized trials, making them a critical component of modern clinical research.

### Advancements in Digital Health Technologies

Advancements in Digital Health Technologies are a major driver of growth in the Global Decentralized Clinical Trials (DCTs) Market, as these technologies provide essential tools for conducting clinical trials remotely and efficiently. The increasing integration of digital health innovations, including telemedicine, wearable devices, mobile health apps, and remote patient monitoring systems, has revolutionized how clinical trials are designed and executed. These technologies allow for continuous data collection, real-time patient monitoring, and virtual consultations, enabling clinical trials to be conducted without the need for patients to travel to centralized sites.

A study published in *Contemporary Clinical Trials* in January 2021 highlighted that the use of digital health technologies in clinical trials has increased significantly over the past five years. The study noted that the relative frequency of clinical trials using digital health technologies increased from 0.7% in 2010 to 11.4% in 2020.

Wearable devices, such as smartwatches and biosensors, enable researchers to gather detailed physiological data, such as heart rate, blood pressure, and activity levels,

directly from patients in their home environments. Mobile apps also support patient engagement by providing easy access to trial-related information, reminders for medication adherence, and communication with study coordinators. These tools improve patient compliance, reduce dropout rates, and increase data accuracy, which are essential for the success of decentralized trials.

The ability to collect high-quality data remotely is transforming the clinical trial process, making it more efficient, cost-effective, and accessible. Digital health technologies allow for faster patient recruitment and retention, especially for hard-to-reach populations, by eliminating geographical and logistical barriers. These advancements are also improving the efficiency of clinical trial operations by streamlining data management, ensuring that trials can be conducted with greater speed and precision. As digital health technologies continue to evolve, their integration into clinical trials will likely accelerate, driving the adoption of decentralized trial models and expanding the overall market.

### Regulatory Advancements and Growing Acceptance

Regulatory advancements and growing acceptance have played a pivotal role in driving the growth of the Global Decentralized Clinical Trials (DCTs) Market. In May 2023, the U.S. Food and Drug Administration (FDA) took significant steps to support the use of decentralized clinical trials (DCTs) for drugs, biologics, and devices. The FDA issued a draft guidance titled 'Decentralized Clinical Trials for Drugs, Biological Products, and Devices,' providing recommendations for sponsors, investigators, and other stakeholders on implementing decentralized elements in clinical trials. This guidance clarifies that, where appropriate, FDA regulations can accommodate the adoption of methods to facilitate trial decentralization through the remote collection of trial data outside of a standard in-person clinical trial site.

In Europe, the European Medicines Agency (EMA) has been actively working to facilitate the integration of decentralized elements into clinical trials. The EMA's 'Accelerating Clinical Trials in the EU (ACT EU)' initiative aims to transform how clinical trials are initiated, designed, and conducted to promote the development of high-quality, safe, and effective medicines. This initiative includes projects focusing on decentralized clinical trials, such as the EU Decentralised Clinical Trials project, which began in March 2022. The project delivered a recommendation paper on the use of decentralized elements in clinical trials in December 2022, highlighting the agency's commitment to supporting innovative trial designs.

These regulatory advancements provide a clear framework for conducting DCTs,

making it easier for pharmaceutical companies and research organizations to implement decentralized trials. The growing acceptance of DCTs among stakeholders in the clinical trial ecosystem, including regulatory bodies, sponsors, and researchers, has also contributed to the market's expansion. As more successful trials demonstrate the viability and benefits of decentralized models, acceptance continues to rise. Regulatory agencies are increasingly allowing the use of virtual trials and decentralized methodologies for complex studies, such as oncology and rare disease trials, where patient recruitment and retention are major challenges. This regulatory flexibility has encouraged pharmaceutical and biotechnology companies to incorporate DCTs into their clinical development pipelines, speeding up drug approval processes while reducing costs and logistical burdens.

The evolving regulatory landscape provides a stable and supportive environment for DCTs, creating opportunities for wider adoption and integration across therapeutic areas. As regulatory frameworks evolve and become more accommodating to remote data collection and virtual trial components, the acceptance of decentralized trials is expected to further increase, driving substantial growth in the market. This shift is enhancing the speed, efficiency, and accessibility of clinical trials on a global scale.

## Key Market Challenges

### Regulatory and Compliance Issues

Regulatory and compliance issues present a significant challenge in the Global Decentralized Clinical Trials (DCTs) Market as the adoption of decentralized trial models grows. Decentralized trials often involve complex data collection, patient monitoring, and trial management across multiple locations, requiring adherence to various regulatory requirements across different jurisdictions. These regulations can vary considerably between regions, creating challenges for global trials that span multiple countries with differing healthcare regulations. For example, compliance with data privacy laws, such as GDPR in Europe and HIPAA in the U.S., is essential but difficult to maintain across borders, particularly when handling sensitive patient data remotely.

In addition, the use of new technologies in DCTs, such as telemedicine, wearable devices, and mobile health apps, introduces concerns about data security, patient confidentiality, and the accuracy of remotely collected data. Regulatory bodies have strict standards for ensuring data integrity and patient safety, and failure to comply with these standards can result in delays, penalties, or trial invalidation.

Another regulatory challenge is the approval process for remote monitoring tools and digital health devices, which are essential for DCTs. Some regions may have slower or more complex approval processes for these technologies, hindering the implementation of DCTs. The need for clinical trial sponsors to navigate these regulatory hurdles and ensure compliance across various jurisdictions can slow down the adoption of decentralized trials. Ensuring that DCTs meet the standards of regulatory authorities, while addressing local nuances and evolving compliance requirements, remains a critical challenge that must be managed effectively to foster the growth of DCTs.

### Complexity in Monitoring and Data Collection

One of the significant challenges facing the Global Decentralized Clinical Trials (DCTs) Market is the complexity in monitoring and data collection. Unlike traditional clinical trials that are conducted at centralized sites with direct oversight, decentralized trials rely heavily on remote monitoring technologies and digital tools for collecting and managing data. This shift introduces several hurdles, particularly around ensuring the accuracy, integrity, and consistency of the data collected across diverse locations and platforms.

Remote data collection often involves the use of wearable devices, mobile applications, and telemedicine platforms, which may vary in terms of functionality, compatibility, and reliability. Ensuring seamless integration of these various tools and maintaining data consistency can be challenging, especially when dealing with large-scale trials. Inaccurate or inconsistent data can compromise the quality of the trial, delay timelines, and increase costs, undermining the potential benefits of decentralized models.

Additionally, the need for real-time monitoring across multiple locations requires robust data management systems capable of handling vast amounts of information from different sources. These systems must be equipped to track patient adherence, address technical issues with devices, and ensure regulatory compliance for data security. The complexity of managing such systems and maintaining the privacy of patient data can become overwhelming, particularly when trials are conducted across regions with varying regulatory frameworks and standards for data protection. As decentralized trials grow in scale, addressing these challenges in monitoring and data collection will be critical to ensuring their success and widespread adoption.

### Key Market Trends

#### Focus on Real-World Evidence (RWE)



A significant market trend in the Global Decentralized Clinical Trials (DCTs) Market is the increasing focus on Real-World Evidence (RWE). RWE refers to the data collected from real-world settings, as opposed to controlled clinical trial environments. This trend is reshaping the way clinical trials are designed, as it enables researchers to gather insights into how treatments perform in everyday conditions, across diverse patient populations, and under routine clinical practices. The integration of RWE into DCTs is becoming crucial due to the growing demand for more generalized, practical, and patient-relevant data.

Decentralized clinical trials, with their remote monitoring capabilities and widespread use of digital health technologies, are uniquely positioned to collect RWE. Wearables, mobile apps, and telemedicine tools continuously gather patient data, which offers a comprehensive view of treatment outcomes and side effects in real-world environments. By incorporating RWE, decentralized trials can provide more accurate insights into drug safety, efficacy, and patient adherence, making clinical trial results more applicable to broader patient populations.

The focus on RWE is driven by the need to accelerate drug development and improve decision-making in regulatory approvals. Regulatory bodies, such as the FDA and EMA, are increasingly accepting RWE in clinical trials, which supports its integration into DCTs. This is especially relevant for rare diseases, personalized medicine, and post-market surveillance, where real-world data can offer vital insights. The trend towards RWE is expected to continue growing as stakeholders in the clinical research ecosystem seek to align trials more closely with the realities of patient experiences and treatment outcomes, further enhancing the value of decentralized clinical trials.

### Expansion of Hybrid Trial Models

The expansion of hybrid trial models is a significant trend in the Global Decentralized Clinical Trials (DCTs) Market, as it offers a balanced approach that combines the strengths of both traditional site-based trials and decentralized trials. Hybrid models integrate digital technologies with on-site visits, allowing patients to participate in trials remotely for routine assessments while still having access to physical sites for certain procedures, such as lab tests or specialist consultations. This approach provides flexibility for patients who may prefer remote participation while still benefiting from in-person visits for specific clinical needs.

Hybrid trials address a key challenge in clinical research: ensuring broad patient access

while maintaining rigorous trial protocols. By combining the benefits of decentralized models, like remote monitoring, telemedicine consultations, and digital data collection, with the structure and oversight of traditional clinical sites, hybrid models facilitate more comprehensive and patient-centered trials. This flexibility has become increasingly important as patients seek convenience and as clinical research organizations look for ways to improve recruitment, retention, and data quality.

The rise of hybrid trials is largely driven by advances in digital health technologies, such as wearable devices, mobile apps, and telehealth platforms, which make it easier to monitor patients remotely and collect real-time data. Hybrid models also offer solutions for trials involving complex treatments or rare diseases, where it may be challenging to enroll patients across multiple sites. As the demand for faster, more efficient clinical trials continues to grow, hybrid trial models provide an innovative solution that can reduce operational costs, shorten timelines, and improve patient engagement, positioning them as a key trend in the DCT market.

## Segmental Insights

### Therapeutic Area Insights

Based on the Therapeutic Area, Oncology emerged as the dominant segment in the Global Decentralized Clinical Trials (DCTs) Market in 2024. This is driven by several key factors. The increasing global incidence of cancer has led to a surge in clinical trials aimed at developing innovative treatments. For instance, the American Cancer Society projected approximately 1.9 million new cancer cases in the United States for 2022, highlighting the urgent need for effective therapies. Decentralized clinical trials offer significant advantages in oncology research, including enhanced patient access and engagement. By leveraging digital health technologies, such as telemedicine and wearable devices, DCTs enable real-time monitoring and data collection, facilitating broader patient participation and improving recruitment and retention rates. This patient-centric approach is particularly beneficial in oncology, where treatment regimens can be complex and lengthy, necessitating continuous patient involvement. Furthermore, the integration of advanced technologies like artificial intelligence and machine learning in DCTs enhances data analysis and patient monitoring, leading to more efficient and effective clinical trials. These technological advancements are crucial in oncology, where the complexity of cancer treatments and the need for personalized medicine require sophisticated data management and analysis. The combination of a high volume of clinical trials, the need for innovative treatment approaches, and the benefits offered by decentralized models positions oncology as the leading therapeutic area in the DCTs



market.

## End User Insights

Based on the End User, Pharmaceutical & Biotechnology Companies emerged as the dominant segment in the Global Decentralized Clinical Trials (DCTs) Market in 2024. This is due to several key factors. These companies are increasingly adopting decentralized trial models to accelerate the development of new drugs and therapies while reducing costs and logistical complexities. DCTs offer significant advantages, including improved patient recruitment and retention, especially in hard-to-reach populations, and the ability to conduct trials across multiple geographic locations without the need for extensive site infrastructure. This is particularly important in the pharmaceutical and biotechnology industries, where time-to-market and the ability to access diverse patient pools are critical for the success of new treatments. Moreover, pharmaceutical and biotechnology companies are under pressure to innovate rapidly in response to increasing competition and regulatory demands. DCTs enable faster data collection, real-time monitoring, and a more flexible approach to clinical trial design, all of which are crucial for meeting these demands. The shift towards personalized medicine, which often requires adaptive and patient-centric trial designs, further drives the adoption of DCTs. As these companies continue to invest in digital health technologies and virtual platforms, decentralized trials become an integral part of their clinical development strategies, ensuring they can conduct efficient, patient-friendly trials while maintaining high-quality data collection and compliance standards.

## Regional Insights

North America emerged as the dominant region in the Global Decentralized Clinical Trials (DCTs) Market in 2024. This is due to several factors that make it a key hub for clinical research and innovation. The region is home to a large number of pharmaceutical and biotechnology companies that are leading the adoption of decentralized trials to accelerate drug development. North America also benefits from advanced healthcare infrastructure, robust regulatory frameworks, and significant investment in digital health technologies, all of which support the successful implementation of DCTs. Additionally, the regulatory bodies in North America, such as the U.S. FDA, have increasingly developed guidelines to facilitate decentralized clinical trials, offering greater flexibility in trial design and implementation. This supportive regulatory environment encourages pharmaceutical and biotechnology companies to adopt DCTs for their clinical development programs. Patient-centric trial models are also gaining traction in North America, as patients demand more convenience and access to

clinical trials. The widespread adoption of telemedicine, wearable devices, and mobile health applications in the region has further fueled the growth of DCTs, enabling real-time patient monitoring and data collection. This combination of technological innovation, favorable regulations, and strong industry support has positioned North America as the leader in the decentralized clinical trials market.

### Key Market Players

IQVIA Inc.

Thermo Fisher Scientific Inc.

Laboratory Corporation of America Holdings

ICON plc

Clario

Science 37, Inc.

Parexel International Corporation

Obvio Health USA, Inc.

Signant Health

Reify Health, Inc.

### Report Scope:

In this report, the Global Decentralized Clinical Trials (DCTs) Market has been segmented into the following categories, in addition to the industry trends which have also been detailed below:

Decentralized Clinical Trials (DCTs) Market, By Study Design:

Interventional Trials

Observational Studies

Expanded Access Trials

Decentralized Clinical Trials (DCTs) Market, By Therapeutic Area:

Oncology

Cardiovascular Diseases

Infectious Diseases

Metabolic Disorders

Neurology

Immunology

Respiratory Diseases

Others

Decentralized Clinical Trials (DCTs) Market, By End User:

Pharmaceutical & Biotechnology Companies

Contract Research Organizations (CROs)

Academic & Research Institutions

Others

Decentralized Clinical Trials (DCTs) Market, By Region:

North America

United States

Canada

Mexico

Europe

France

United Kingdom

Italy

Germany

Spain

Asia-Pacific

China

India

Japan

Australia

South Korea

South America

Brazil

Argentina

Colombia

Middle East & Africa

South Africa

Saudi Arabia

UAE

## Competitive Landscape

**Company Profiles:** Detailed analysis of the major companies present in the Global Decentralized Clinical Trials (DCTs) Market.

## Available Customizations:

Global Decentralized Clinical Trials (DCTs) 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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