

Decentralized Clinical Trials (DCT) Adoption Playbook

December 2021: Complimentary Abstract / Table of Contents



Our research offerings

This report is included in the following research program(s):

Life Sciences ITS, Clinical Development Technology

- ► Application Services
- ▶ Banking & Financial Services BPS
- ▶ Banking & Financial Services ITS
- ▶ Catalyst[™]
- Clinical Development Technology
- Cloud & Infrastructure
- Contingent Workforce Management
- Conversational AI
- Cost Excellence
- ► Customer Experience Management Services
- Cybersecurity
- Data & Analytics
- Digital Adoption Platforms (DAP)
- Digital Services
- ▶ Digital Workplace
- Engineering Services
- ► Enterprise Platform Services
- ► Finance & Accounting

- ► Financial Services Technology (FinTech)
- ► Global Business Services
- Healthcare BPS
- Healthcare ITS
- ▶ Human Resources
- ▶ Insurance BPS
- Insurance ITS
- Insurance Technology (InsurTech)
- ► Insurance Third-Party Administration (TPA) Services
- ▶ Intelligent Document Processing (IDP)
- ▶ Interactive Experience (IX) Services
- ► IT Services Executive Insights™
- ► Life Sciences BPS
- ▶ Life Sciences ITS
- ▶ Locations Insider™
- Marketing Services
- ▶ Market Vista™
- Mortgage Operations

- Multi-country Payroll
- Network Services & 5G
- ▶ Outsourcing Excellence
- ► Pricing-as-a-Service
- Process Mining
- Procurement
- ► Recruitment Process Outsourcing
- Retirements Technologies
- Rewards & Recognition
- Service Optimization Technologies
- ► Supply Chain Management (SCM) Services
- ► Talent Excellence GBS
- Talent Excellence ITS
- ▶ Technology Skills & Talent
- Trust and Safety
- Work at Home Agent (WAHA) Customer Experience Management (CXM)

If you want to learn whether your organization has a membership agreement or request information on pricing and membership options, please contact us at info@everestgrp.com

Learn more about our custom research capabilities

Benchmarking

Contract assessment

Peer analysis

Market intelligence

Tracking: service providers, locations, risk, technologies

Locations: costs, skills, sustainability, portfolios



Contents

For more information on this and other research published by Everest Group, please contact us:

Nitish Mittal, Partner Chunky Satija, Practice Director Anik Dutta, Senior Analyst

Nisarg Shah, Senior Analyst

l.	Introduction and overview	5
	Research methodology	6
	Background of the research	7
	Objective of the playbook	8
	Summary of key messages	9
2.	DCT adoption and market trends	10
	Everest Group's view of an end-to-end DCT platform	11
	Benefits of DCT adoption	12
	Trends in DCT adoption	14
	Challenges with DCT adoption	18
3.	DCT adoption framework	23
	Portfolio prioritization	25
	Sourcing criteria	27
	Organizational alignment	30
l.	DCT use case compendium	32
	Cardiology	33
	Dermatology	34
	Gynecology	35
	Gastroenterology	36
	Hematology	37

Contents

Infectious diseases	38
Mental health	39
Nephrology	40
Neurology	41
Oncology	42
• Pediatric	43
Rare diseases	44
Appendix	45
Glossary	46
Research calendar	47

Background and scope of the research

Decentralized Clinical Trials (DCTs), in which clinical trial data is collected through sensors or remote monitoring devices that are carried by a patient without the need to visit a site, can deliver many benefits to pharmaceutical companies including cost savings, better patient recruitment and retention, and improved data quality. COVID-19 had put the spotlight on DCTs that will last well beyond the pandemic-stricken years as the industry increasingly adopts digital solutions for conducting remote, virtualized, or decentralized trials. As enterprises grappled with regulatory uncertainties, there is need for upfront capital investment in sensors and products, and limited functionalities to decentralize clinical trials. In recent times, DCTs have proved to be a saving grace to restart paused clinical trials. Additionally, recent technological advances, the proliferation of wearables, and regulatory push to the industry to adopt DCTs following the COVID-19 situation have made the DCT landscape ripe for disruption.

Enterprises have accelerated their plans toward DCT adoption, looking to convert their piecemeal deployments into a comprehensive strategy aimed at enhancing the trial experience for patients, sponsors, and Contract Research Organizations (CROs). This report analyses DCT adoption across therapy areas and intends to guide enterprises towards a successful DCT adoption.

This report looks at:

- Current trends in DCT adoption
- Everest Group's framework for DCT adoption
- DCT use-case compendium

Scope of this report:





Industry
Life sciences (biopharmaceuticals, medical devices, and Contract Research Organizations)



Vendor offeringDecentralized clinical trial products



Use cases
Enterprise-stated and publicly available
information (57 distinct use cases) has been
analyzed for the purpose of this report

Preface

Decentralization has enabled the shift toward remote patient trials, making trials more convenient and accessible for patients. Though DCTs have put patient experience at the forefront, yet enterprises need to overcome several challenges for a successful adoption.

The aim of this playbook is to make enterprises aware of the current trends, benefits, and challenges in DCT adoption across therapy areas and help them design a strategy for seamless adoption of decentralization in clinical trials.

The momentum toward decentralization will continue post the pandemic and a DCT adoption framework will enable enterprises to adopt and scale DCT solutions.



Overview and summary of key messages

This playbook looks at 50+ DCT case studies across different therapy areas and informs enterprises about the trends, benefits, and challenges in DCT adoption to help them design a strategy for seamless DCT adoption.

Some of the findings in this report, among others, are:

Benefits of DCT adoption

- DCTs have put patient experience at the forefront and enterprise buyers are looking for product solutions aimed at increasing patient satisfaction and driving patient enrollments
- Additional benefits include reduction in trial costs and timelines while increasing patient diversity, enabling real-time data collection and complex analysis

DCT adoption trends

- Different therapy areas have different scope and implementation approaches toward decentralization, giving room for hybrid and completely
 decentralized trials. Highest DCT adoption is seen in the area of infectious diseases, led by the focus on vaccine development for COVID-19
- North America and Europe are at the top spots in terms of market priority; however, APAC countries have gained importance in recent times

Challenges in DCT adoption

- DCTs bring in a unique set of challenges with respect to data integrity, security, and quality, along with challenges in the areas of patient engagement, site technology adoption, and stakeholder management
- Patient-intuitive DCT solution offering seamless integrations, coupled with robust data and network security can help enterprises overcome some of the challenges

DCT Adoption framework

- For a successful DCT adoption, enterprises must prioritize on the therapy areas and carefully define their sourcing criteria. While large biopharma companies tend to prioritize end-to-end unified platforms, small and mid-sized companies focus on costs and vendor responsiveness
- It is critical to have commitment from top organizational leadership and cross-functional teams for successful DCT adoption

This study offers distinct chapters providing a deep dive into key aspects of decentralized clinical trials adoption; below are four charts to illustrate the depth of the report

Everest Group's view of an end-to-end DCT platform **Benefits of DCT adoption** Auxiliary support services Core modules Improved patient recruitment and retention DCTs have increased patient enrollments by eliminating site visits, accelerating patient screening, and making the process patient-centric. With Drug/device provisioning Patient screening eConsent Remote monitoring TeleVisit DCTs there is an ease of patient engagement and adherence, resulting in lower dropouts and higher retention rates. Patient enrollment Patient concierge Medication Reduced costs eCOA/ePRO adherence DCTs help in reducing costs for both patients and caregivers. Patients are not burdened with travel costs while sponsors can cut down on sites, Home nursing Medical record review investigators, and related travel costs. **CRO/sponsor experience** Patient experience Reduced trial timelines Reduction in trial timelines has been a long-term industry imperative and DCTs have taken a step in that direction. With accelerated patient 91 enrollment and data collection, the overall trial timelines are reduced to an extent with decentralized trials Increased Reduced Standardi More diverse patient population Virtual Patient Electronic patient diversity trial costs zed trial DCTs can accommodate patients from around the world, irrespective of their location, creating enrollment consent engagement and screening and trial activities gathering a diverse patient pool for trials. This increases the efficacy of the drugs as they can be tested on a broader pool of patients. and forms and for a remote outcomes inclusivity timeliness across with participati virtual seamless monitoring and fill in document in trials significantly multiple complex on in onboarding experience solutions electronic Getting real-time data locations scoring clinical With DCTs, real-time data is now readily available. There is no dependency on bulk paperwork or third parties for data verification. DCTs enable and trials analysis real-time and precise data collection, increasing the efficiency of the entire process. Challenges with DCT adoption **Everest Group's DCT adoption framework** DCTs bring in risks related to data security, integrity, storage, and accessibility. It is a considerable challenge to maintain data privacy and compliance as sponsors and patients rely heavily on remote communication and data collection Portfolio prioritization Organizational alignment Different levels of digital literacy, preference toward in-person physician visit, poor application design Determine the suitability of Plan stakeholder and insufficient communication from sites and sponsors often lead to patient disengagement and a poor trial implementing decentralization management for successful in trials for each therapy area adoption of decentralization Site adoption challenges Sites lack professionals having sound knowledge about DCT products and operations. Most sites are not well-equipped with the latest technologies, raising concerns about protocol compliance, data security, and

the unclear regulatory guidelines.

When it comes to the adoption of digital tools and technologies, there is limited clarity on regulatory

guidelines. The regulatory bodies support DCTs from a policy standpoint but certain challenges exist with

Sourcing criteria

Define the sourcing criteria for

both DCT products and vendors

Research calendar

Life Sciences IT Services

	Published Planned Current release
Flagship reports	Release date
Veeva Services PEAK Matrix® Assessment 2021	March 2021
Veeva Services Market Overview	July 2021
Decentralized Clinical Trial Products PEAK Matrix® Assessment 2021	July 2021
Decentralized Clinical Trial Products – Vendor Provider Profiles Compendium	August 2021
Decentralized Clinical Trial Products Market Overview	September 2021
Life Sciences Connected Medical Devices PEAK Matrix® Assessment 2021	Q4 2021
Life Sciences Commercial Services Specialists PEAK Matrix® Assessment 2021	Q4 2021
Life sciences Clinical Development Platform PEAK Matrix® Assessment 2022	Q1 2022
Life Sciences Digital Services PEAK Matrix [®] Assessment 2022	Q1 2022
Life Sciences Medical Devices Security Services PEAK Matrix® Assessment 2022	Q3 2022
Thematic reports	Release date
Connecting Life Sciences Manufacturing using Industrial IoT	March 2021
Evolution from Robotic Surgery to Digital Surgery	June 2021
Decentralized Clinical Trials (DCT) Adoption Playbook	December 2021
Sustainability in Life Sciences	Q1 2022
Reaping Success from an End-to-end Clinical Development Platform Landscape	Q1 2022

Note: For a list of all our published Life Sciences IT Services reports, please refer to our website page





Everest Group is a research firm focused on strategic IT, business services, engineering services, and sourcing. Our clients include leading global companies, service providers, and investors. Clients use our services to guide their journeys to achieve heightened operational and financial performance, accelerated value delivery, and high-impact business outcomes. Details and in-depth content are available at www.everestgrp.com.

Stay connected

Website

everestgrp.com

Social Media

in @Everest Group

@Everest Group

▶ @Everest Group

Blog

everestgrp.com/blog

Dallas (Headquarters)

info@everestgrp.com +1-214-451-3000

Bangalore

india@everestgrp.com +91-80-61463500

Delhi

india@everestgrp.com +91-124-496-1000

London

unitedkingdom@everestgrp.com +44-207-129-1318

Toronto

canada@everestgrp.com +1-647-557-3475

This document is for informational purposes only, and it is being provided "as is" and "as available" without any warranty of any kind, including any warranties of completeness, adequacy, or fitness for a particular purpose. Everest Group is not a legal or investment adviser; the contents of this document should not be construed as legal, tax, or investment advice. This document should not be used as a substitute for consultation with professional advisors, and Everest Group disclaims liability for any actions or decisions not to act that are taken as a result of any material in this publication.