



OVERVIEW

- What are DCTs?
- Why DCTs? The importance of DCTs
- DCT Global Market Size and Trends
- DCTs Opportunities
- Benefits vs Challenges of DCTs
- DCTs Iceberg Model for APAC
- Key Players in the DCTs Space
- DCT Case Study
- Innovation and Future trends in APAC





WHAT ARE DECENTRALISED CLINICAL TRIALS?

- A DCT is a clinical trial that utilize technology, processes, and services that minimize or eliminate the need for patients to physically visit a traditional research site
- DCTs represent a modern, 'patient-centered' approach to conducting clinical research, compared to traditional clinical trials

According to the FDA, DCTs are "the decentralization of clinical trial operations where technology is used to communicate with study participants and collect data."

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WHAT ARE DECENTRALISED CLINICAL TRIALS?

- Key characteristics and components of decentralized clinical trials are:
- ✓ Remote Participation
- ✓ Patient-Centricity
- ✓ Use of Digital Technologies/Virtual Tools
- ✓ Decentralized Data Collection
- ✓ Risk-Based Monitoring
- ✓ Hybrid Approaches













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WHY DCTs? DCTS address key unsolved issues of current randomized clinical trials

Focus on patient

- At-home delivery increases participation
- Direct-to-patient approach accelerates recruitment
- Personalized interaction maximizes retention and fosters better medical adherence
- Virtual study team facilitates patient journey

Improve data quality

- Mobile, connected devices enhance data gathering
- Centralized collection reduces variability
- Near real-time access enhances safety signal detection
- Increased data completeness and accuracy
- Better study results with greater patient diversity

Reduce overall trial cost

- Streamlined engagement, enrollment, trial management
- Fewer physical site visit costs
- Centrally managed workflows, monitoring and communications improve efficiency

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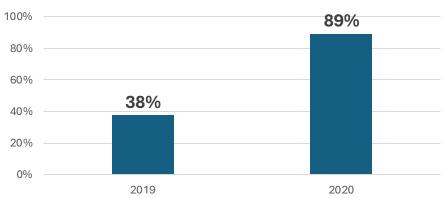
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source: www.capgemini.com



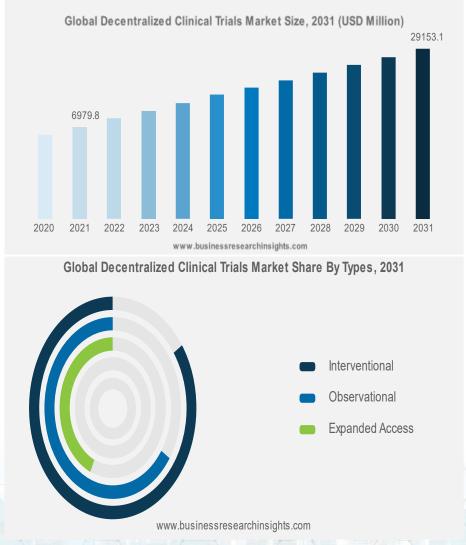
DCT GLOBAL MARKET SIZE AND TRENDS





Latest trends

- Evolving technology and services to lead market growth
 Driving factors
- Increased interaction with virtual systems to propel growth





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source:www.businessresearchinsights.com



DCTs OPPORTUNITIES

Key opportunities associated with decentralized trials:



Enhanced Patient Access and Diversity



Improved Patient Engagement and Retention



Real Time Data Collection





Integration of Real-World Evidence (RWE)



Remote Site Monitoring and Quality Oversight



Patient-Centric Trial Design



Facilitation of Innovative Trial Designs



Regulatory Support and Frameworks



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BENEFITS VS CHALLENGES OF DCTs

Benefits



Reduce Patient Burden



Increase Patient Retention



Increase Patient Diversity



Increase Patient Engagement



More efficient leading to cost-savings

Challenges



Technology Failure



Ensuring Data Quality



Regulatory Hurdles



Data Privacy & Security Concerns



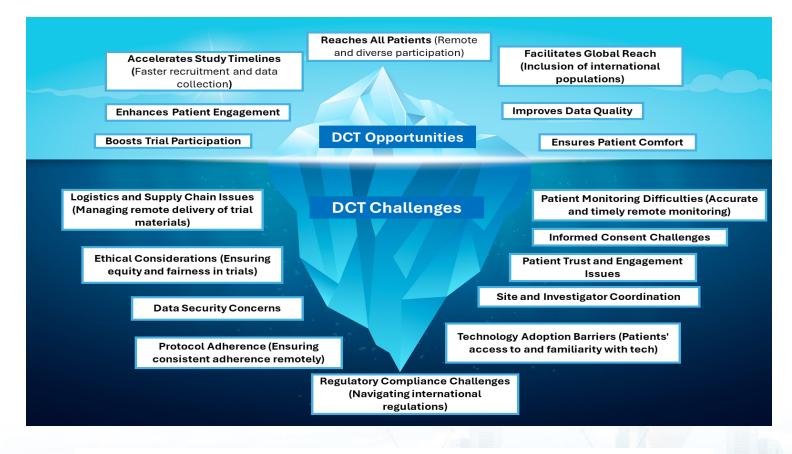
Integration with Healthcare Systems

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DCT ICEBERG - APAC



- Till date, not a single complete DCT trial has been conducted in APAC
- The success of DCT in APAC hinges on the early engagement of stakeholders, including sponsors, investigators, patients, vendors, CROs, and regulators



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KEY PLAYERS OPERATING IN DCTS SPACE



















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source: www.precisionbusinessinsights.com



DCT CASE STUDY

Fully Virtual Trial

Target: Home-use device.

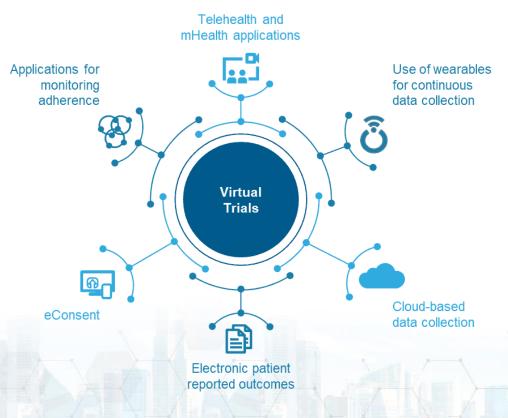
Recruitment: Participants were identified via social media with pre-screening questions.

Enrollment: Conducted via telehealth visits.

Training: Provided through virtual video sessions.

Management: Managed virtually by a CRO using telehealth and e-Diary/ePRO platforms.

Safety: Self-reported by participants, overseen by CRO's Safety Officer







INNOVATION AND FUTURE TRENDS IN APAC

- ✓ APAC countries are increasingly embracing digital health technologies...
- ✓ Regulatory bodies in APAC countries are increasingly supportive of DCTs.
 - ✓ e.g., Japan, South Korea, and Singapore
- ✓ Expansion of telemedicine infrastructure in APAC countries.
- ✓ Innovations in patient engagement platforms tailored to local languages and cultural preferences
- ✓ Expected increase in partnerships between pharma companies and CROs specializing in DCT solutions
- ✓ Exploration of real-world data (RWD) sources such as electronic health records (EHRs) into clinical trials.
- ✓ Hybrid Trial Designs is gaining popularity in APAC

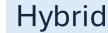


SCALING DECENTRALISED CLINICAL TRIALS

Fully Centralised



All trial procedures are conducted on-site





Trial procedures that require in person visits but have procedures that are done remotely/virtually

Fully Decentralised



All trial procedures conducted virtually

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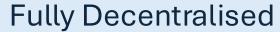


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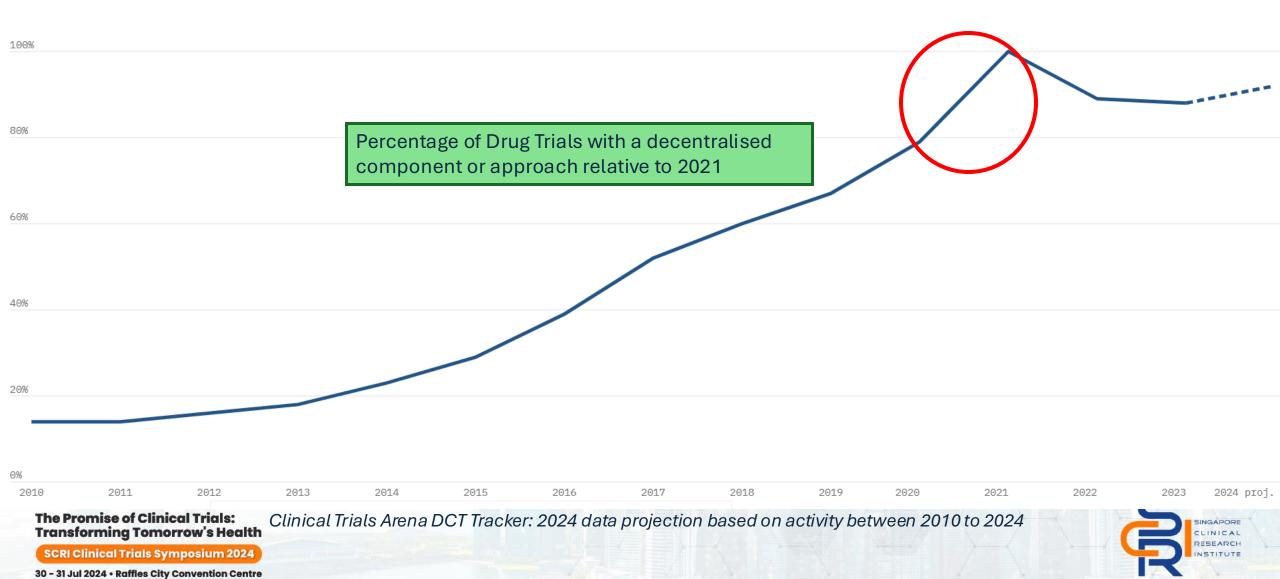
https://www.mckinsey.com/industries/life-sciences/our-insights/no-place-like-home-stepping-up-the-decentralization-of-clinical-trials

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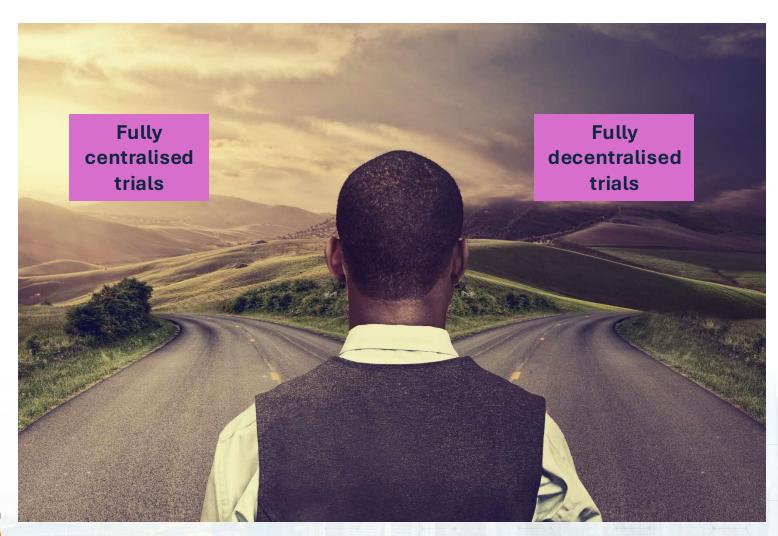
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DCT PROJECTION FOR THE FUTURE



DCTS: THING OF THE PAST OR THE WAY FORWARD?



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