BREAKING DOWN KEY TECH TRENDS FOR CLINICAL TRIALS IN 2025

MOST CLINICAL TRIALS STILL FAIL

2025 is drawing near and the sad truth is:

90%

development fails

of clinical drug



complete a successful clinical trial The stakes are high, and the need for innovation has never been more urgent. Let's look at

on average to



one successful drug

some key technology trends in 2025 that are set to solve these long-standing puzzles.

Accelerating Clinical Trials What's happening: AI/ML is speeding up key steps of clinical trials:

Al's Undeniable Role in

Patient recruitment



Al can analyze vast datasets to identify ideal participants faster-those that

benefit from the trial, adhere to its protocol, and remain until completion. Predictive modeling



allowing researchers to predict drug outcomes even before human trials.

Clinical trial design

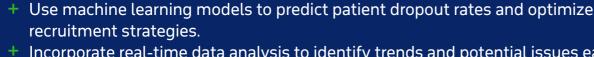
Al supports adaptive trial designs by continuously analyzing real-world data,

Machine learning algorithms simulate countless scenarios in seconds,



adjusting protocols, and optimizing variables based on patient responses.

What you can do



† Incorporate real-time data analysis to identify trends and potential issues earlier in the trial.

Implement AI to automate tasks like site selection and trial monitoring.



What's happening: Wearables are reshaping the way we collect data through its real-time, patient-centric

take that a step further: using AI to analyze the vast data from these devices. 🗸 What you can do

Integrate wearable device data into your CTMS to get

methodologies. And in 2024, we've seen companies

Greater Adoption of Sensors and Wearables

continuous, real-time insights on patient health.

- Develop dashboards that make wearable data easy for clinicians to track and analyze.
- Ensure that your CTMS can securely store and manage the vast amount of data wearables generate, keeping
- everything compliant.

What's happening: The FDA recently released draft guidance supporting DCTs to enhance diversity and address varying medicinal needs. With the rising acceptance of telehealth, even pharma giants are

Gain Huge Support

also expanding into DCTs.

throughout the trial.

Decentralized Clinical Trials (DCTs)

What you can do Update your CTMS to manage remote patient monitoring and data collection from decentralized locations.



+ Use telemedicine integrations to track patient progress and maintain direct communication

+ Ensure compliance by implementing tools that

consistency with regulatory guidelines.

aggregate data from diverse sources, maintaining



Blockchain Holds The Future of Trial Data

+ Migrate your CTMS to a cloud platform for real-time access to trial data, no matter where your teams are. Implement cloud storage to scale up your data

security and flexibility.

What you can do

to regulators.

Big Shift to Cloud-Based Clinical Database Systems

What's happening: Cloud platforms are making it easier to manage trials across multiple locations, with built-in

management capabilities as your trials expand globally.

stakeholders on the same page, from researchers

+ Use cloud-based collaboration tools to keep all

- What's happening: Blockchain now offers a new level of security for the life sciences industry by making trial data decentralized and tamper-proof, ensuring compliance with privacy regulations.

ensuring compliance with FDA and EMA standards. + Enhance patient trust by offering a tamper-proof system for managing consent forms and

logs for clinical trial data exchanges.

Integrate blockchain to create secure, transparent

Use it to track and audit data flow in real time,

What you can do

personal data.

Al

- Start using Al-driven tools real-time patient data and to automate data entry and gain better insights patient recruitment. intotrial progress.

SPECIFIC STEPS YOU CAN TAKE TODAY Wearables **DCTs** Use wearables to collect Adapt your system for remote

trials with telemedicine

and remote data collection.

flexibility and collaboration.

KMS Healthcare is here to help you implement these trends in your clinical trial solution. Reach out to discuss

Cloud

Move your trial management

to the cloud for greater

Blockchain

Apply blockchain to protect

patient privacy and

secure your data.

Contact KMS Healthcare at:

how we can support your journey.



 kms-healthcare.com