10 Global Trends Shaping Clinical Data in 2025

Design for risk-based everything



Risk-based approaches can introduce higher data quality, greater resource efficiency, and shorter timelines. Clinical leaders cite risk-based approaches as the trend most valuable and likely to succeed, yet a shift in mindset is still needed to depart from traditional review models.



Combining risk-based checks with technology allows for a more targeted focus on critical data points.

02

Upskill data managers to enable clinical data science



managers to shift their workload from manual tasks to develop expertise in generating data-driven insights and predicting outcomes.

Increased automation will allow data



patient data flows, protocol designs, and improving standards.

Leaders will focus on optimizing

03

Focus shifts from Al hype to smart automation



Al does. Leaders are maximizing automation opportunities and putting saved hours towards AI pilot projects.

require the same human oversight that

Rule-based automation does not



complementing the rules-driven automation of medical coding.

Scaling metadata management has

the study design metadata that are

management and statistics.

common, shared, and critical to data

proved challenging. The resurgence of

metadata repository (MDR) is focusing on

Al augmentation is already

Move from 'all-

encompassing' MDR to common standards

Simplified standards will accelerate the path from study build to database lock.

Clinical data leaders are leveraging

on alleviating the patient burden as

early as the protocol design stage.

technology to put patients in control of

their trial experience. Some are focused

Expand patient optionality by thinking

05

holistically about the trial experience



'Bring your own device' is becoming

a preferred method to improve

patient experience.

Innovation is impacting sites in

06

at scale

Innovate for better

site experiences,



has been a challenging trend for most sites to adopt. **Quicker query review can greatly** simplify the site experience by

reducing the number of clicks and

keystrokes to action queries.

different ways, with varying degrees of

viable solution for the largest sites but

success. EHR-to-EDC integration is a

Trends to watch...

09

Expand participant diversity by

giving patients more choice

Prioritize critical data upfront with

endpoint-driven design

transparency

08

10

Increase data ownership and

Boost resilience and agility to

address politico-economic risks



Discover more in the full Trend Report

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