

# CenterWatch 2025 Al Benchmarking Report





What We Did

**Survey Methodology** 

### Background & Learning Goals



#### **Situation**

Al is rapidly reshaping the clinical trial landscape, with organizations across the research ecosystem recognizing its potential to accelerate timelines, improve data quality, and reduce costs.

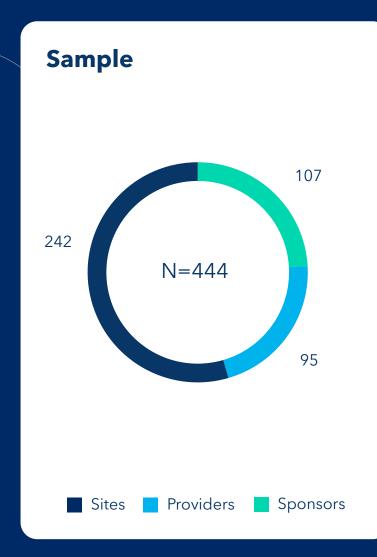
Our goal was to capture the current state of Al integration and understand how organizations are adopting and leveraging Al to transform trial operations, improve efficiency, and overcome longstanding barriers.

### **Objectives**

- Understand the current state of Al adoption across the clinical trial landscape.
- Identify key drivers and barriers influencing Al implementation in clinical trial operations.
- Support the industry's transformation by providing actionable insights that guide Al adoption and foster innovation in clinical trials.

### Research Overview





### **Approach**

10-minute online survey, fielded in September and October 2025.

Key topics included:

- Al Adoption & Application Areas.
- Drivers & Barriers to Al Adoption.
- Training, Education & Organizational Readiness.

### **Recruitment**

Survey recruitment channels included:

- WCG sponsor and site networks.
- Social networks (e.g., LinkedIn).

## Sample Composition



	Sponsors		Providers		Sites	
TYPE	Top 20 Biopharma Top 50/Mid-sized Biopharma Other Mid-sized Biopharma Small/Specialty Biopharma Pre-Revenue Biopharma Medical Device Company Other Pharma/Sponsor	27% 14% 8% 12% 18% 18% 3%	Consulting Company Academic Research Organization Non-CRO Clinical Service Provider Small/Specialty CRO Mid-sized CRO Large CRO Other		Academic Medical Center Independent Research Site Physician Practice Community Hospital Integrated HC Delivery System Site Network Other	39% 18% 14% 14% 9% 5% 1%
ROLE/FUNCTION	Clinical Development/Ops Quality Assurance/Control Executive Management Clinical DM/Biostats Medical Affairs Regulatory Affairs Alliance Management Other	58% 14% 6% 6% 6% 4% 3% 3%	Clinical Development/Ops Executive Management Medical/Scientific Regulatory Affairs Quality Assurance/Control Data Management Business Development Other	32% 12% 11% 10% 9% 9% 5% 12%	CRC Site Leadership/Owner Research Admin Staff Regulatory/Compliance Physician/Pl CRN IRB Other	25% 19% 17% 10% 10% 6% 5% 8%



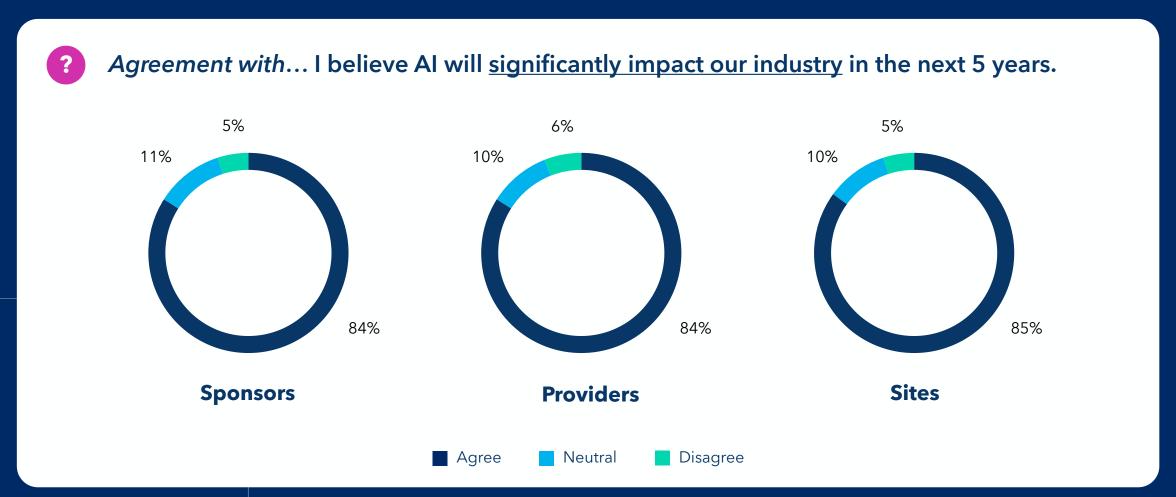
## What We Learned

Perceptions and Implementations of AI in Clinical Trials

# The Industry is Well-Aligned on the Anticipated Impact of Al in the Near Future



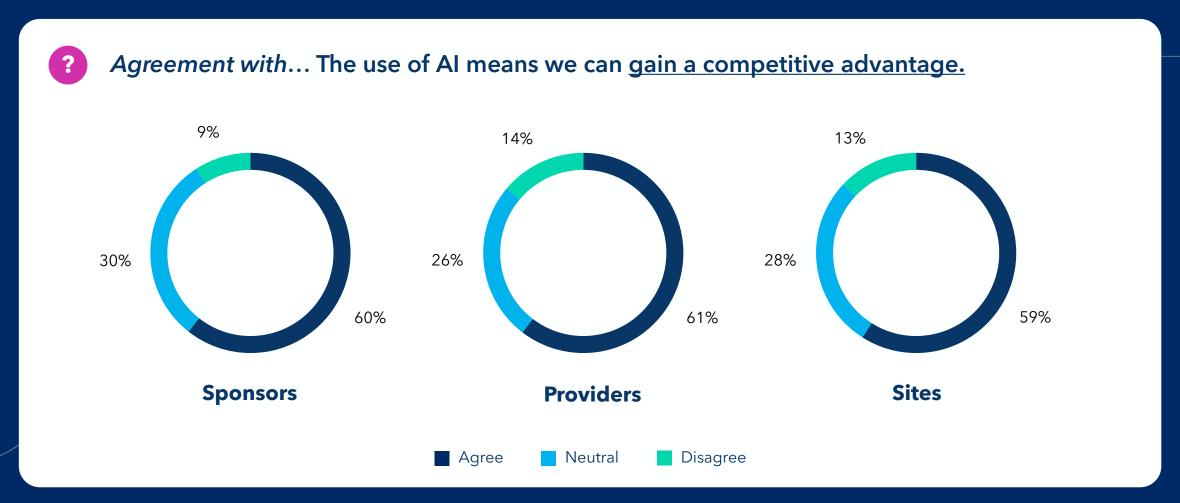
Sample: Sponsors=106, Providers=94, Sites=239



## A Majority Feel that AI has the Potential to Offer a Competitive Advantage



Sample: Sponsors=106, Providers=94, Sites=239



# Few are Highly Engaged in Implementation Today, Especially Sites, Where Only 9% Indicate Al Adoption



Sample: Sponsors=106, Providers=94, Sites=239

**?** Current State of Al Adoption in Your Organization

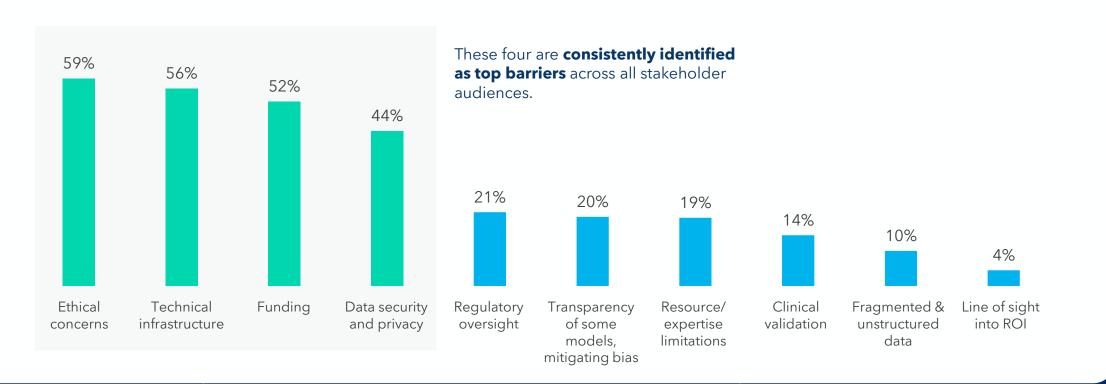
Total Implementing AI 52% 57% 39% 3% 3% Advanced Integration Al is deeply embedded across the 19% 16% organization's clinical research 21% 2% processes. 18% 9% 7% Active Adoption Regularly utilizing AI in several operational areas. 38% 32% 30% Early Implementation Have initiated pilot projects or small-scale applications. **Providers Sites Sponsors** 

# Among Those **Not Yet** Adopting AI, "Fundamental" Concerns - Ethics, Technology, Funding & Data Security - Emerged as Key Barriers



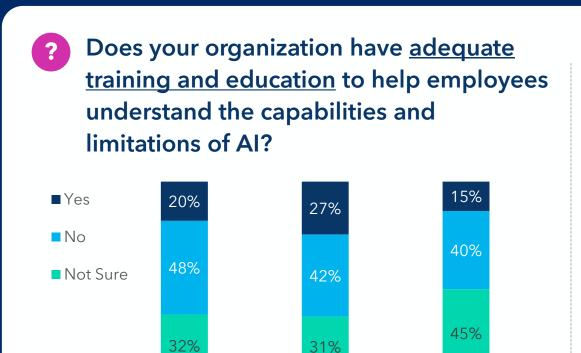
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# Barriers to Al Adoption in Your Organization \*\*Sample: Respondents not actively adopting, N=382 \*\*Sample: Respondents not actively adopting, N=382 \*\*Sample: Respondents not actively adopting, N=382



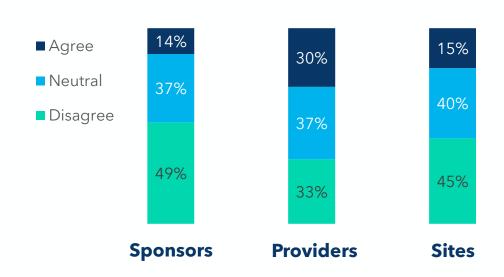
# A Lack of Training and Preparation May Also Be Acting as Barriers to Moving Forward with Al Integration in Clinical Trials





**Providers** 





Sample: Respondents not actively adopting, Sponsors=85., Providers=77, Sites=220

**Sites** 

**Sponsors** 

### Key Take-Aways



### Perceptions and Implementation of AI in Clinical Trials

- There is a universal expectation that AI will have significant near-term impact on the industry and the business of conducting clinical trials, potentially creating opportunity for stakeholders to gain advantage in the competitive landscape.
- However, a majority of stakeholders are either **very early in their implementation of AI or may not consider it a priority today** only about 1 in 5 sponsors and providers are actively adopting AI, and sites even less-so.
- At this early stage, there appear to be **significant barriers related to "fundamental" issues of ethics, technology, funding and data quality** that may prevent or slow the pace at which Al integration comes to fruition in clinical trials.

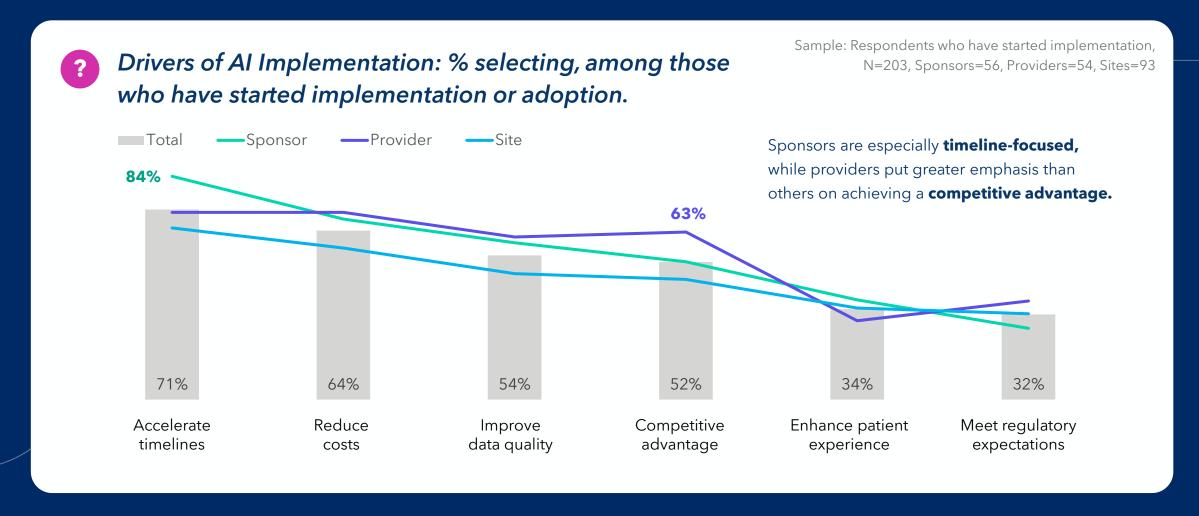


## What We Learned

**Insights from Early Adopters** 

# Early Adopters of AI are Primarily Driven by Anticipated Efficiencies in Terms of Both Time and Cost









Stakeholder utilization of specific AI elements is varied as are their perceptions of where AI is having the greatest positive impact...

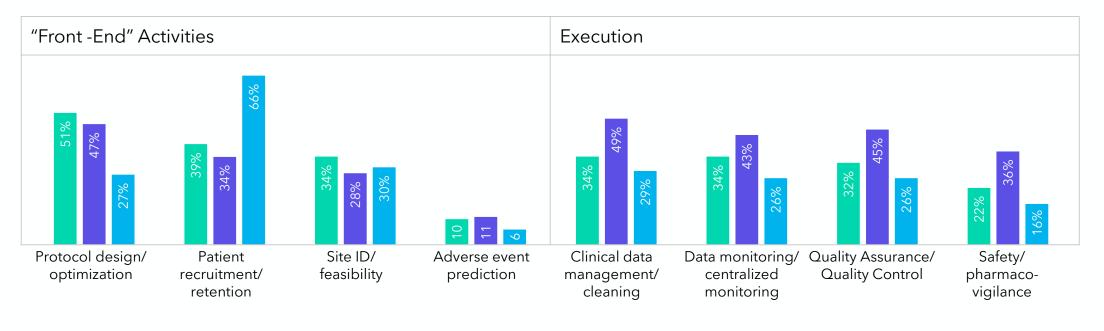




Sample: Respondents who have started implementation, Sponsors=41, Providers=47, Sites=70

Trial aspects in which AI is being implemented% selecting, among those who have started implementation or adoption.





# Perceptions of Impact also Differ for Stakeholders, Though All Find Al's Use in Developing Training Materials to be a Top Outcome



Sample: Respondents who have started implementation, Sponsors=51, Providers=48, Sites=83

Top 5 Positive Outcomes% indicating positive outcome, among those who have started implementation



### Key Take-Aways

### **Insights from Early Adopters**

- Saving time and money are the key drivers of Al implementation; some recognize the potential to improve data quality and gain a competitive edge. Fewer are thinking about the use of Al as a tool to improve participant experience or achieve regulatory compliance, suggesting that more education may be beneficial in these areas.
- Early adopters within each stakeholder audience have taken different approaches to integrating AI in clinical trials:
  - Sponsors: Appear focused on utilizing Al to optimize protocols and start-up activities.
  - <u>Providers</u>: Have the widest breadth of AI use today, with emphasis on **data management**.
  - <u>Sites</u>: More singularly focused on using AI to enhance participant recruitment.

- While perceptions of Al's impact vary across stakeholders, all agree on its value in developing training materials.
- This variation in top outcomes across stakeholders highlights Al's multifaceted role in clinical trial optimization.



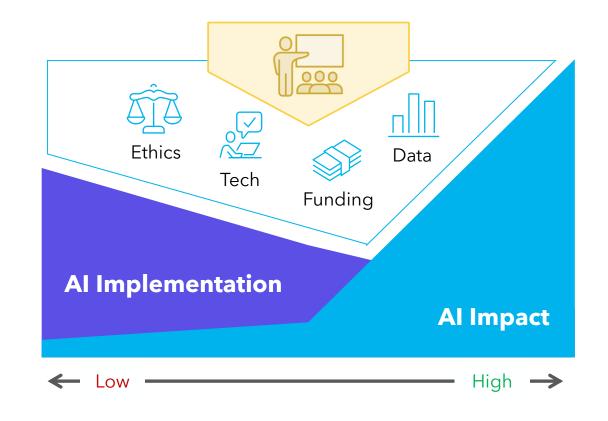
# What Happens Next

**Next Steps to Al Integration** 

### Bridging the Al Gap: Building Al Readiness



- There is a disconnect today between the level of AI implementation and the foreseeable impact it will have on the industry in the near future.
- Filling this "gap" will require education, training, and preparation on hurdles that are most top-of-mind for stakeholders today ethics, technology funding, and data security.



## What Are Considerations for Achieving Successful Al Adoption?





Develop the infrastructure and invest in upgrades or vetted AI platforms.



Prioritize the development of AI champions or centers of excellence.



Optimize data governance/privacy frameworks.



Actively engage with ethics charters or advisory groups.



Nurture regulatory alignment support.

### **Key Actions**

#### **Sponsors and CROs**





Speeding up drug
development is critical
to get therapeutic
agents to patients faster.
Leveraging Al as a tool
can help to accelerate
timelines and
potentially reduce costs.



Prioritize what clinical trial activities can benefit most from Al. Implementation in protocol design and study start-up is a recommended starting point.



Optimal areas for additional AI development and integration include data management and quality.



Ensure you address
potential concerns
about technology
infrastructure, funding,
ethics, and data security.

### **Key Actions**

### **\'** WCg™

#### **Providers**



Focus on **leveraging AI** for **increased operational efficiency and workflow optimization** (i.e., improved time and cost efficiency).



Emphasize benefits pertaining to data management and quality.



**Recognize the competitive edge** gained as a result of Al adoption.



Strengthen your ability to address technology infrastructure concerns and build confidence in ROI to encourage adoption and engagement.

### **Key Actions**

#### Sites





Optimize
participant
engagement and
retention by
positioning Al as a
practical tool for
research staff.



Ease site burden
as AI can help
ease integration
and training
support.



Identify potential for broader use in data management.



Address ethical concerns in order to build trust in Al.



Provide support to alleviate concerns about site burden and incremental costs.

### Unlocking Success Through AI-Enablement



Study Planning and Design Activities Can Be Strengthened with WCG ClinSphere®

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Knowing changes everything. WCG is redefining the clinical trial landscape by equipping sponsors, CROs, and sites with trial intelligence, clarity, and objectivity needed to anticipate challenges, optimize outcomes, and accelerate breakthroughs.

Protocol design and optimization: Effectively integrate predictive, regulatory, and operational insight into one decision engine that enables (and informs) successful decisions with WCG ClinSphere® Trial IntelX<sup>TM</sup>.

Participant recruitment and retention: Simplify and streamline study participant management with WCG ClinSphere® Total Enrollment. Site ID and feasibility:
Optimize and simplify
your study planning, site
identification, and
selection processes with
WCG ClinSphere® Total

Feasibility.

Adverse event
prediction: Al-powered
analytics identify
emerging risks and
performance patterns
across thousands of
trials providing early
warning before issues
surface.

### Unlocking Success in Al Adoption



With a Trusted Partner Throughout Your Organization's Al Journey

#### **KEY AREAS OF IMPACT INCLUDE:**

- **Ethical considerations:** Al continues to play an increasingly important role in clinical research, including protocol design, consent considerations, patient privacy and confidentiality, and participant recruitment. Deep expertise, guidelines, and tools are available via WCG's IRB, The WCG/MRCT Multi-stakeholder Taskforce focused on Ethics Review of Human Research Involving AI, and the WCG Avoca Quality Consortium.
- Security & Privacy: Move forward with confidence knowing that WCG's best-in-class InfoSec team is firmly committed to safeguarding data integrity and security.
- **Training:** Leverage the industry's first comprehensive, end-to-end clinical trial training solution that unites inperson, virtual, hybrid, and on-demand training with engagement tools, enhanced analytics, and expert consulting via WCG Total Training
- Al Usage at Sites: Ensure participant safety, data integrity, regulatory compliance, and operational efficiency, with special training for clinical research coordinators.



WCG is at the forefront of accelerating clinical research worldwide, serving as the trusted and preferred partner to biopharmaceutical and medical device companies, contract research organizations (CROs), research institutions, and site partners. Offering a unique combination of expertise, next-generation data and insights, and tech-enabled solutions, WCG reduces complexity and optimizes study operations and outcomes while maintaining the highest standards of human participant protection. For more than 55 years, WCG has maintained a relentless commitment to efficiency, safety, and impact, empowering clinical trials to deliver life-improving therapies swiftly. For more information, please visit wcgclinical.com or follow us on LinkedIn.

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