



## Smart Data Quality (SDQ)

# AI-Powered Clinical Review and Risk Detection

Saama's Smart Data Quality (SDQ) transforms clinical data review through advanced clinical intelligence and automated risk management. Moving beyond traditional, rule-based edit checks, SDQ serves as an AI-native workspace that continuously analyzes multi-source study data to identify complex discrepancies, protocol deviations, and safety anomalies. By transitioning study teams from reactive data cleaning to proactive risk detection, SDQ reduces operational friction, ensures protocol integrity, and accelerates the timeline to database lock.

## Benefits

### Identify Clinical Risks Earlier

Detect critical protocol compliance issues, safety signals, and eligibility anomalies early in the trial lifecycle before they impact database lock.

### Accelerate Query Resolution

Generate automated, evidence-based queries with a complete clinical rationale to minimize backend site exchanges.

### Reduce Technical Overhead

Empower clinical data managers and reviewers with intuitive self-service tools, reducing the operational burden on programming teams.

### Streamline Daily Reviewer Workflows

Reduces reliance on manual data review by automating the detection of low-value issues and prioritizing clinically meaningful findings.

### Enforce Portfolio-Wide Standardization

Connect upstream study planning directly with downstream data execution to ensure consistency across programs.

## Features



### AI-Enabled Protocol Deviation Intelligence

Automatically identifies compliance risks and procedural anomalies, such as out-of-window patient visits and missed clinical assessments, reducing downstream audit risk.



### Intelligent Risk Scoring and Anomaly Detection

Utilizes statistical anomaly detection, temporal reasoning, and clinical knowledge models to surface and prioritize high-impact findings based on patient safety and study impact.



### Automated, Traceable Query Generation

Delivers human-in-the-loop validation workflows that provide fully explainable query recommendations backed by transparent source evidence and comprehensive audit trails.



### Cross-Domain Clinical Review

Evaluates complex clinical data relationships across multiple domains, flagging out-of-spec laboratory results lacking matching adverse events, medical history contradictions, and concomitant medication violations.



### Unified IRL and IDRA User Experience

Delivers a synchronized, modernized platform interface that enables reviewers to seamlessly transition from initial review planning to in-life patient profile exploration without data fragmentation.



### Open API and Ecosystem Interoperability

Employs robust API integration to support seamless data mobility, cross-system context sharing, and unified data flow with corporate infrastructure like MAPP.

## The Saama Difference

Saama SDQ represents a fundamental shift from traditional edit checks to intelligent, risk-based data management. By combining domain-aware machine learning models with an agentic AI roadmap, the platform evaluates clinical data holistically rather than in isolation. Every identified anomaly is supported by traceable clinical evidence, ensuring full regulatory compliance and inspection readiness. Working in tandem with IDRA, SDQ closes the loop between data review planning and operational execution, allowing clinical teams to manage growing trial complexity with absolute data certainty.

Contact [info@saama.com](mailto:info@saama.com) to schedule a personalized demonstration.