

Transforming Clinical Data Intelligence and Operational Decision-Making with Aether for a Leading Academic Medical Center

Client Profile

A nonprofit academic medical center delivering clinical care, research, and education across a network of hospitals and outpatient facilities.



ITHENA's Aether platform unified clinical, operational, and research data across a multi-facility academic medical center into a single AI-powered intelligence layer, enabling real-time conversational analytics, predictive anomaly detection, and faster clinical trial matching that strengthened both patient care and operational decision-making.

CHALLENGES



The client struggled with:

- Limited ability to unify structured and unstructured clinical data into a single accessible intelligence layer
- Difficulty in efficiently connecting patients to relevant clinical trials, where eligibility has traditionally been limited
- Delayed identification of operational and clinical anomalies across a multi-facility system
- Lack of real-time, conversational access to clinical and operational data resulting in dependence on legacy dashboards and static reporting
- Limited capacity to convert vast volumes of data into timely, actionable insights

SOLUTIONS



ITHENA's Aether platform empowered the client through:

1

Unified Data Integration

Consolidated structured and unstructured clinical data into a real-time, governed intelligence layer for system-wide visibility

2

NLP-Driven Insights

Enabled conversational queries to instantly match patients to eligible clinical trials, replacing manual chart reviews

3

Predictive Analytics and Anomaly Detection

Identified critical trends and anomalies to reduce errors and enhance diagnostic precision

4

Real-Time Visualization and Reporting

Shifted from static cycles to interactive visualizations to accelerate clinical and leadership decision-making

5

Agentic AI Recommendations

Delivered context-aware recommendations within workflows to improve care and operational confidence

OPPORTUNITY FOR IMPACT

**30%**

Reduction in manual chart review effort

27%

Decrease in diagnostic errors

25%

Improvement in trial matching speed

22%

Boost in clinician AI adoption