quantiphi
Solving What Matters

Gen AI-powered Clinical Trials

Challenges

Cost:
Clinical trials can be prohibitively expensive, ranging from $500 million to $840 million, leading to significant financial risk.

Time:
The lengthy duration of clinical trials, averaging 3-5 years, contributes to delays and extended time-to-market.

Effort:
It typically takes 4-6 months just to write protocols for clinical trials, and patient recruitment is also labor-intensive, with a disproportionate amount of data management required for each hour of patient contact.

Limited Patient Recruitment Efficiency:
Inefficient patient recruitment often leads to delays and increased costs.

Availability of Poor Insights for Decision-Making:
Due to diverse applications and data landscape, there are slow and poor insights available for real-time decision-making.

Solutions

Clinical Trial Design:
Baioniq uses NLP applications to analyze historical data and recommend optimized trial structures tailored to investigational products and demographics.

Protocol Writer:
Baioniq integrates with Document AI to auto-generate protocol sections, ensuring compliance with regulatory standards and reducing the need for revisions.

Clinical Trials Feasibility Management:
Baioniq employs knowledge graphs to identify best-fit patients, physicians, and sites for clinical trials, improving clinical outcomes and reducing failure risks.

Clinical Trial Summarization:
Baioniq leverages Gen-AI technologies to summarize key findings in a user-friendly format for clinicians and the public.

Business Impact

Cost Savings and Error Reduction:
Baioniq enables real-time data processing and automation, leading to up to 40% cost savings and reduced errors.

24x7 Virtual Agent:
Generative AI systems provide a virtual agent that continuously supports improved efficiency and responsiveness.

Quality Control with NLP:
Baioniq utilizes NLP and cognitive computing to enhance data quality and reliability.

Standardized Inputs and Improved Data Quality:
Data standardization through Generative AI ensures a consistent data structure across different trials and sites, resulting in higher data quality and data compatibility.

Audit-Ready:
The automated tracking and documentation ensure regulatory compliance and readiness for audits and inspections.

Improved Customer Experience:
Patients, physicians, and other stakeholders benefit from timely responses, and error-free processes, resulting in improved efficiency and reliability.