

Developing a Dashboard Solution for Clinical Trial Data

The client, an emerging and rapidly growing biotech company, experienced challenges with its existing processes and systems for managing and analyzing large amounts of exploratory clinical trial data. The current operating model was largely characterized by repetitive processes, manual aggregation of multiple data sources, and inefficient reporting tools. This hindered the R&D team's ability to derive meaningful insights in a timely manner and impeded decision-making processes.

Recognizing the urgent need for change, the company enlisted Clarkston Consulting's data and analytics experts to identify gaps in their data pipelines, outline a more desirable data-flow process, and deliver a data visualization front-end proof of concept using Power BI.

Clarkston's strategy was rooted in a thorough understanding of the company's unique needs and objectives. Through consultations with key stakeholders, we gained valuable insights into existing workflows, pain points, and desired outcomes, and then formulated a strategic roadmap focused on developing a proof-of-concept (POC) dashboard tailored to the client's specific requirements.

By developing a tailored dashboard solution, the Clarkston team empowered the company to unlock actionable insights, accelerate drug development timelines, and work toward improved patient outcomes.

Life Sciences Case Study

PROJECT OVERVIEW

INDUSTRY:



Life Sciences

PRODUCTS AND SERVICES :



Biopharmaceutical Company
Specializing in Gene Therapy

PRIMARY OBJECTIVES:

- Model blinded patient and clinical trial data for researchers across several clinical R&D teams
- Develop visuals required for improved analysis of patient data for researchers to identify patterns and correlations that contribute to better understanding of diseases and treatment responses
- Use the proof-of-concept as a basis to provide recommendations on automated reporting solutions and the right data strategy & governance for the company

RESOLUTION:

- Modeled unstructured datasets containing blinded subject biological data and different clinical trial functional data used solely for exploratory purposes
- Developed various visuals (e.g., Scatter plots, multi-line charts, stacked bar charts) to display desired key performance indicators (KPIs) and facilitate exploratory research
- Created multiple dashboard options with detailed user guides for research and development (R&D) to create their own views

KEY BENEFITS:

- Provided client with multiple Power BI dashboard options to choose from, allowing R&D teams to have critical data points visualized autonomously and resulting in valuable man hours saved
- Established a centralized location for clinical trials data output
- Created dynamic visuals that can be filtered by multiple dimensions and parameters



KPIs

- 85% reduction in time spent developing reporting
- 90% increase in data accessibility rate
- 75% decrease in the time taken to process and transform raw data into actionable insights compared to previous processing time
- 95% decrease in errors and discrepancies identified in data analysis and reporting compared to baseline error rate

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