



Automation solution for clinical research enhances data quality and speeds up report generation

Client

Our client is a professional medical society dedicated to serving patients and society by empowering radiology professionals to advance the practice, science, and professions of radiological care.

Challenge

Our client regularly conducts clinical studies as part of investigations into radiological therapy. Practitioners submit proposals for alternative/improved therapy. These proposals are reviewed by a panel of doctors there before submission to the FDA for approval. Studies are executed only after approval by the FDA. Results of the clinical study were tracked manually. The client required a faster and more accurate solution to reduce the cost and time for designing and executing trials.

Marlabs Solution

Marlabs designed and developed a solution to store and track the progress of FDA approvals as well as protocols for approved studies. Using a custom forms designer and standard templates, the application made it easy to create schemas to collect study data. It includes stratification schemas to determine patient eligibility. The application uses patient calendars to schedule events for each treatment arm of the study.

Sophisticated algorithms such as permuted block randomization were used to assign patients to study groups to ensure that patient sampling is truly random. The application includes 'Question and Response Banks' to enable quick set up of questions.

Marlabs successfully migrated 1.5 million legacy data points to the new application.

Key functionalities of the application are:

- Study setup
- Patient accruals
- Protocol setup and management
- Automation of patient calendars for multi-step studies
- Management of facilities and provider databases
- Creation of SAS data sets for further analysis
- Enhanced reporting

The automated application helped the client eliminate manual procedures for data capture and compilation, and significantly reduced the time taken for report preparation.

Technologies

- Java
- PowerBuilder

Benefits

Marlabs' application provided the client with an efficient data management system to manage clinical trial data. It provided standardization, improved flexibility, increased real-time access to clinical data, automated tracking of changes, enhanced clinical research data quality, and streamlined data entry.

Marlabs helps drive digital agility for our clients. We deliver innovative business solutions using digital technologies such as cloud, mobile, analytics, Internet of Things, and social. With a dedicated team of over 2,100 associates, a network of delivery centers in USA, Canada, Mexico and India, and strong partnerships with industry leaders, Marlabs offers a wide range of IT services across industries. Through our emphasis on quality driven by CMMi, PCMM, ISO 9001-2000, ISO 27001 and SSAE 16 Type II best practices and a customer-centric client engagement model, Marlabs has achieved a dependable track record of meeting high standards of excellence in every customer engagement. This has resulted in several awards and recognitions, including being consistently ranked in the Deloitte Technology Fast 50 and Fast 500 programs. Marlabs is headquartered in New Jersey, United States.

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