

Data Management Platform Enhances Clinical Data Integration

A Successful Case of Data Management Platform

About Fosun Pharma

Founded in 1994, Shanghai Fosun Pharmaceutical (Group) Co., Ltd. is a global innovation-driven pharmaceutical and healthcare industry group deep-rooted in China. Fosun Pharma directly operates businesses including pharmaceutical manufacturing, medical devices, medical diagnosis, and healthcare services. As a shareholder of Sinopharm Co., Ltd., Fosun Pharma also expands its areas in the pharmaceutical business.

Centered around the pharmaceutical business, Fosun Pharma insists on innovation and R&D. The company enriches its innovative product pipeline through diversified and multi-level cooperation models such as independent research and development, cooperative development, license-in, and in-depth incubation. Fosun Pharma has formed technological platforms for innovative small molecule drugs, antibody drugs, and cell therapy with a focus on key disease areas including oncology and immunomodulation, metabolism and digestive system, and central nervous system. Fosun Pharma also vigorously explores cutting-edge technologies, such as RNA, oncolytic viruses, gene therapy and PROTAC, to enhance its innovation capabilities.

Guided by the 4IN strategy (Innovation, Internationalization, Integration, and Intelligentization), Fosun Pharma will uphold the development model of "innovation transformation, integrated operation, and steady growth" and is committed to becoming a first-class enterprise in the global mainstream medical and health market.

Challenges

The number of clinical trial projects is large, and a large number of projects need to use EDC system for data collection and data management, which often leads to problems such as inconsistent data standards for different projects and difficulties in data management.

With the continuous development of Fosun Pharma, clinical projects are scattered in various CROs without unified database standards. There are multiple EDC system providers with different system structures, so clinical data cannot be managed uniformly, and effective project experience cannot be accumulated.

Solution

Data Management Solution Based on Taimei eCollect®

Through the daily communication between Taimei's customer success team and Fosun Pharma's data management team, we learned that the inability to effectively accumulate project experience and the lack of data integrity across multiple systems were the main reasons behind repetitive work.

Taimei team provided data management solutions based on eCollect® including **enterprise standards creation, team training plan, and system barrier breaking**, and identified the following specific goals:

- Improve database creation efficiency and shorten creation time
- Effectively accumulate project experience
- Create a Fosun Pharma information platform connecting multiple systems

FOSUN PHARMA 复星医药

Fosun Pharma

- Pharmaceutical/Device and other R&D
- Leading Chinese R&D team
- Global clinical research
- 32000+ employees



“ Through cooperation with Taimei EDC, we have improved the quality of data standards and the efficiency of data cleaning, as well as the efficiency of EDC library creation, which is helpful to move the study forward. Meanwhile, Taimei is a leader in the development of digitalization and automation of clinical research in China. For us Fosun, we have cooperated a lot with Taimei, and we expect to work together to reach an even higher level, making progress together and improve data quality of the industry. ”

—Junmei Zheng,
Director of Data Management,
Beijing Fosun Pharma

Solution Implementation

Enterprise standards creation, team training plan, and system barrier breaking enabled the Fosun team to standardize the workflow within the platform, effectively improving data flow, teamwork efficiency and execution capability.

1. Establish comprehensive enterprise database; Build standardized database structure

Establish Project Templates: Accumulate knowledge from all the projects executed by the enterprise, which can be reused in similar new projects at any time, significantly shortening the project creation time and saving manual work when creating the project database.

Create Common Templates: Common template projects can be adapted for simple projects. CRF database can be created simultaneously, so that the finalized CRF standard forms can be referred anytime.

2. Customize training system to improve training efficiency and effectiveness

Share customized function code in hand to reduce the cost of learning

Online training on system update: ensure users to master the new functions

Regular communication of system requirements: optimize user experiences

Share database building cases: help new database builders to quickly get started

3. Achieve standardization of data management and platform transformation

Across Taimei systems: easy to integrate, no development needed, such as EDC-IWRS, EDC-CTMS

Connect to External systems: Develop API interface to directly integrate with Taimei

Achieve standardization of data management and platform transformation

Ensure Efficient and High-quality Database Creation

In terms of database creation, Fosun Pharma used to create a database for each project in accordance with CDISC standards. With the help of Taimei, Fosun utilizes the comprehensive enterprise database in the system or adapts based on existing database structures. In this way, the efficiency of database creation increased by **20%+** and greatly shortened the database building time.

Enhance Project Execution through System Integration and Training

At the system level, Taimei systems, such as EDC, are internally connected with each other to improve data interoperability and reduce the troubles and manual work caused by duplicate data entry. Taimei is also continuously working on connecting with external systems to create a platform for Fosun as a whole.

In terms of personnel training, regularly organized training and experience sharing events have also enabled Fosun's data management team to grow. Equipped with Taimei's system, the data management team is more capable than ever on the path of R&D and clinical trials.



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In one project, different departments are responsible for different parts, such as operations, data management, etc. Most of them have their own independent systems in use, such as CTMS, EDC, IRT, etc. Some systems are even provided by different suppliers, so lots of time and manual work are wasted on things like repeated entry of subject data. The purpose of the current platform is to break the barriers among systems and allow data circulation. We are looking forward to using eCollect® as the foundation to connect all systems, both Taimei internal systems and external systems, to improve the overall project execution efficiency, to reduce the duplicated work, and to create an information platform belonging to Fosun Pharma.

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—Zheng Junmei,
Director of Data Management, Beijing Fosun Pharma