CERTARA®

Accelerating Medicines, Together

CASE STUDY

To View Online: certara.com/case-study/hours-to-minutes-how-medivir-accelerated-drug-discovery-data-analysis/

HOURS TO MINUTES – HOW MEDIVIR ACCELERATED DRUG DISCOVERY DATA ANALYSIS

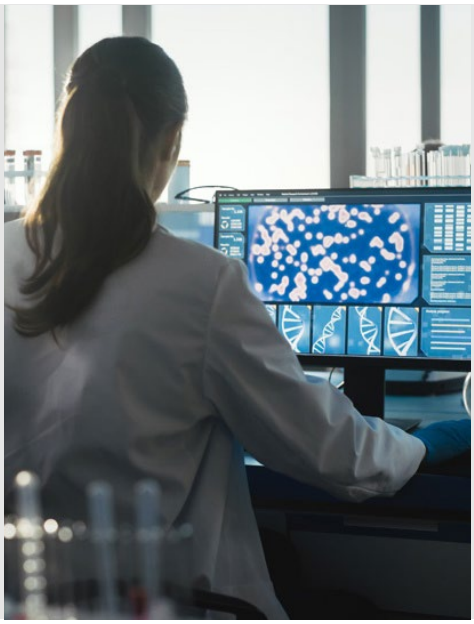
MEDIVIR

The discovery arm of Medivir sought an updated informatics infrastructure to improve the efficiency and flexibility of its data analysis and reporting. Existing in-house tools weren't flexible and required team members to manipulate the data themselves in spreadsheet software before performing analyses; they then built reports manually in presentation software. The end goal was to reduce the time burden and error risk of manual data manipulations, while making it easier to manage data, access updates, and maintain project data tables. In addition, the scientists requested greater choice in analysis and reporting workflows.

The new informatics solution would have to be flexible enough to support a heterogeneous user group including biologists and computational, analytical, and medicinal chemists. It should support their existing data sources and analysis and reporting tools. While it should also be scalable and be quickly deployable to minimize disruption to workflows.

The discovery team eventually selected D360™ as its new discovery data environment. In addition to supporting the team's existing data sources and analysis tools, D360 provided a user-friendly interface for fast queries, analyses, and one-click reporting based on the latest data – across data sources. This meant scientists now had direct access to the data. Using D360, Medivir scientists also could now perform analyses with much less effort than before. For example, using built in chemistry intelligence for better understanding structure-activity relationships (SAR).

Within six weeks, Certara deployment specialists had installed, configured, and trained the discovery team on the use of D360. In a staggered roll out D360 was first deployed to 10 users, who rigorously tested the data handling capabilities and use-cases of the platform, and then rolled out to the rest of the team. The system connected team members across disciplines to all appropriate databases and enabled seamless data delivery to their preferred analysis tools without the need for manual manipulations.



"Data fields are available now that we couldn't see or touch before! Presentations and reporting are 1-click away instead of building a table from scratch in [Microsoft®] PowerPoint®. Plotting is available with 1-click access – no more export and manipulation to get this!"

– a member of the selection committee

- **Time Savings:** On-demand access to current, analysis- and report-ready data views accelerated data manipulation and opened new avenues of scientific exploration.
- **Streamlined Workflow:** An easy-to-use environment seamlessly connected data queries, analysis, and reporting.
- **Flexibility & Collaboration:** Teams could explore new ideas as they occurred by following a trail of evidence through multiple data sources, and easily share results with colleagues.
- **Better Decision-Making:** Bring together biological assay, drug metabolism, and PK data for a holistic view of a compound and easily combine data to make first-in-man dosing predictions.

Fast return on investment in the form of time-savings for scientific and IT staff, as well as accelerated decision-making. Analyses that once required hours was done in just a few minutes and saved results could be updated with new data almost instantly. Further, D360 freed IT resources from the burden of developing and maintaining in-house tools. And ultimately, direct access to the latest data ensured research decisions were informed by the most recent and complete information.

D360 is the industry-leading scientific data informatics platform used globally by over 6,000 discovery research scientists in small molecule and biologics discovery and pre-clinical safety. It delivers self-service data access and an integrated analysis and visualization solution. The result? Focus your R&D expertise on data understanding versus time-consuming tasks involved in assembling data from various sources. To learn more, visit www.certara.com/d360.

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