Case Study:
Optimizing Sample Logistics for Global Clinical Trials

Executive Summary

Cenetron and a multinational pharmaceutical corporation engaged in a project to streamline sample logistics for global clinical trials. Cenetron's tailored solutions prioritize reducing pre-analytical errors through standardized protocols and advanced logistics, benefiting both large and small pharmaceutical entities. This collaboration ensures enhanced trial efficiency, maintained quality and compliance, and increased client satisfaction through efficient logistics and reliable sample management.

Cenetron's specialized solutions significantly contribute to the success of multi-center global trials for pharmaceutical corporations of all sizes. Their approach fosters efficiency, compliance, and confidence in trial outcomes, offering essential support for the advancement of innovative therapies across diverse therapeutic areas.

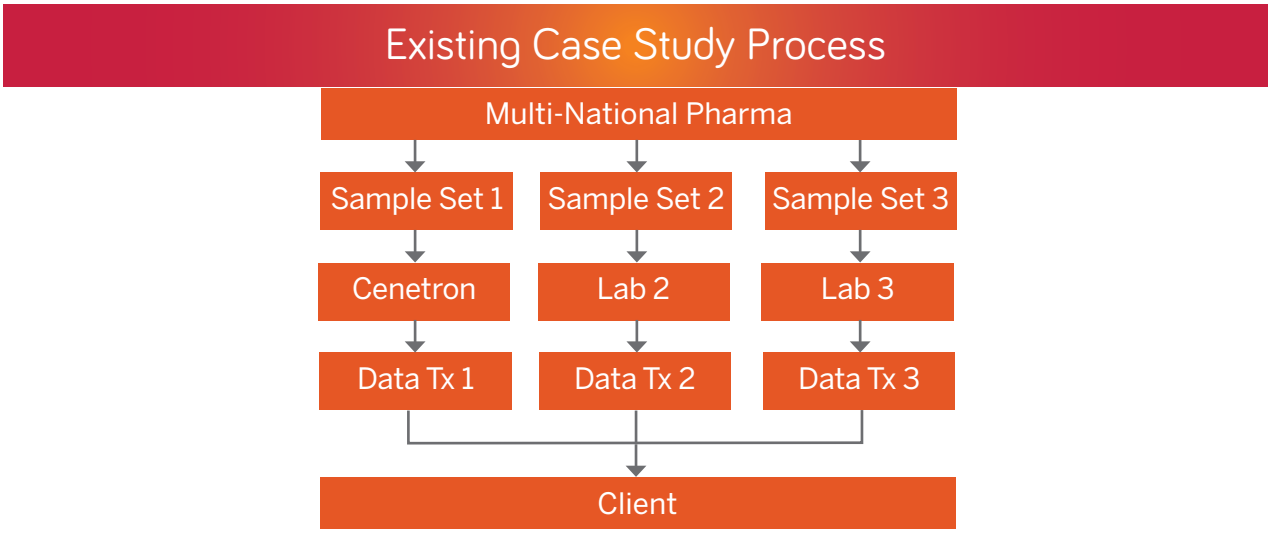
Client Profile

A prominent, multinational pharmaceutical corporation with a diversified portfolio of therapeutic areas seeks to conduct a series of multi-center global clinical trials. Recognizing the complexities involved in managing sample logistics across various trial sites, the client requires comprehensive central laboratory sample management and logistics services.

Challenge:

The pharmaceutical corporation faces the intricate challenge of coordinating and managing sample logistics for multi-center global clinical trials across diverse geographic locations and varying regulatory environments—a difficulty similarly faced by small-to-midsize pharmaceutical entities, who may not have the robust resources to address these challenges. Ensuring the integrity, timely transportation, and efficient processing of samples from multiple sites to central laboratories is crucial for the success of nearly all trials.

The client approached Cenetron to execute testing for one sample set within a broad global clinical trial. Upon receiving the proposal, **the Cenetron team identified significant efficiencies and cost savings by further leveraging Cenetron central lab services.** Instead of the client utilizing separate testing partners and conducting the data reconciliation internally, Cenetron proposed a send-out workflow to increase efficiencies in timing, shipping, project management and data reconciliation, thus easing the burden on the client.



Cenetron's Solutions

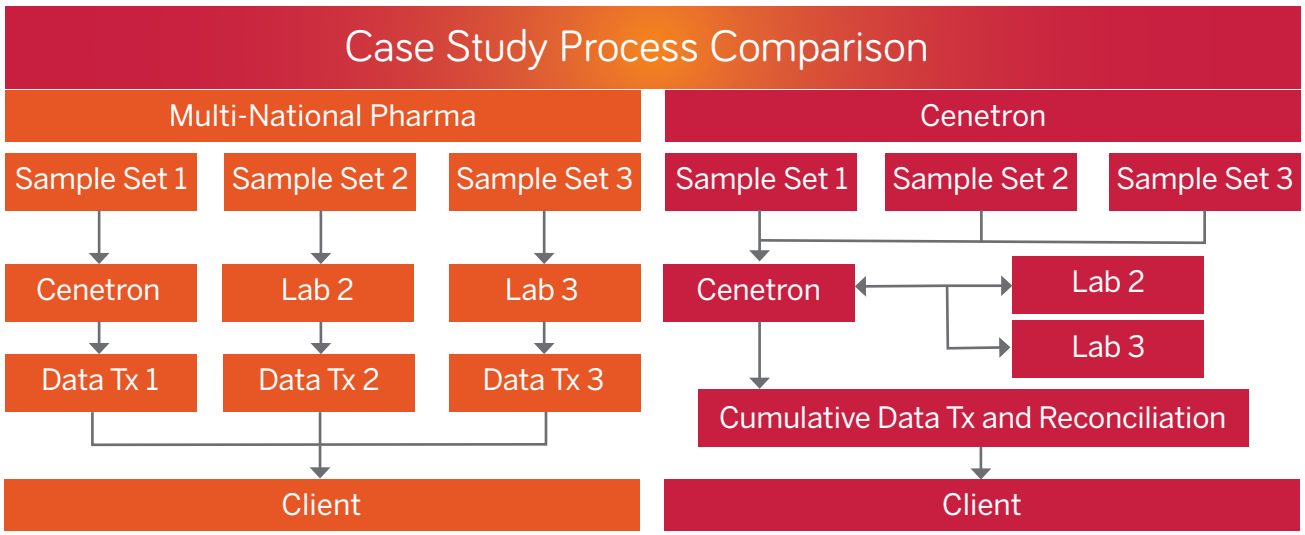
Pre-Analytical Emphasis

Acknowledging the significance of pre-analytical quality in ensuring accurate trial data, Cenetron tailors its strategy to mitigate pre-analytical errors. This includes implementing standardized collection protocols, advanced logistics to minimize errors in sample transportation, and training programs to ensure clarity in protocols across diverse trial sites. This solution offers clients the expertise and structured approach required to streamline sample logistics.

Error Control and Management

Cenetron specializes in minimizing variability and controlling errors in sample logistics, particularly focusing on pre-analytical stages. By employing integrated systems and expertise, Cenetron caters not only to large pharmaceutical corporations, but also offers scalable solutions adaptable to smaller entities.

Cenetron's experts address concerns regarding pre-analytical errors by integrating industry research insights, aiming to optimize sample logistics for both large and small-to-midsize pharmaceutical companies. Highlighting the critical nature of these errors, which contribute significantly (46.0-68.2%) to total testing errors, **Cenetron implements strategies to reduce errors in sample collection, transportation and site-specific complexities.** This standardized approach enhances the quality and reliability of trial data for smaller pharmaceutical firms.



Outcome

Cenetron was able to identify multiple inefficiencies in the primary proposal, which included the individual logistics, logistics fees, increased opportunity for error, need for FTE reconciliation, and ability to reduce project management and data fees. **Cenetron reduced the number of samples being sent to individual labs from the original proposal, resulting in cost savings of more than $600,000 in shipping charges.** Further, by implementing this new process, the sponsor quickly recognized the opportunity to reconcile FTEs down to 1. Cumulative data transfers and reconciliation project management fees were reduced by almost $90,000 through the use of strategic, centralized services and minimized data transfers.

Enhanced Trial Operations: Efficient handling, centralized processing and reduced transit times contribute to improved trial operational efficiency.

Maintained Quality and Compliance: Cenetron ensures the highest standards of sample integrity, regulatory compliance and data quality, which are crucial for the success of multi-center global trials and provide smaller entities with the necessary support to uphold quality standards despite resource limitations.

Client Satisfaction: The pharmaceutical industry, including small-to-midsize entities, benefits from streamlined logistics, cost-efficient services and reliable sample management, building confidence in trial outcomes and fostering long-term partnerships with Cenetron for continued success.

Saved > **$600,000** in Shipping Charges
Saved Sponsor **1 FTE** for Reconciliation
Saved > **$90,000** in Project Management and Data Fees

Conclusion

Cenetron's tailored, central laboratory sample management and logistics solutions play a pivotal role in facilitating the success of multi-center global trials for both large pharmaceutical corporations and smaller-to-midsize entities. This collaborative approach ensures efficient, compliant and cost-effective sample logistics, reinforcing the organization's pursuit of groundbreaking therapies across diverse therapeutic areas and trial phases, while simultaneously providing smaller entities with the expertise and support necessary for successful trial executions.

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