



FORECASTING TO OPTIMIZE CLINICAL TRIAL SUPPLY MANAGEMENT

The Value of Proactive Supply Chain Planning

Managing clinical trial supplies is challenging, especially as studies become more global and complex and involve increasingly expensive investigational and comparative therapies. A robust clinical strategy that optimizes costs and minimizes waste can help to ensure an adequate supply will be available for the duration of the trial.

At Catalent, we offer expert forecasting solutions to better inform decision making and support contingency planning in these inherently dynamic trials. We can help study sponsors to anticipate and plan for the future by delivering key information, such as:

- Quantities needed of the drug, comparator, or reference
- Optimal site inventory levels and buffer stocks
- Balance of supply level and shipment frequency to manage budgets
- Likelihood of running low on inventory
- Regional bright stock allocation
- Estimated packaging runs, timing, and quantity
- Ideal packaging configurations

Forecasting Tailored to Your Requirements

Each study is unique. Depending on its type, complexity, and size, we will apply the method that is most appropriate for a particular study from straightforward spreadsheets to multivariate computer simulations to:

- Calculate basic quantities and establish timelines for simple studies
- Track limited supplies, expiration dates, and manage inventory as a study progresses and trends emerge
- Ask real-world “what if” questions to review a range of possible outcomes and quantify risk for complex or multi-country studies



DEVELOPMENT



DELIVERY



SUPPLY



Sophisticated Studies Demand Advanced Supply Models

With the natural fluctuations in any trial, quickly responding to change is a given. But it's no longer enough to calculate study drug quantities based on a large percent of overage. Advanced simulation tools have evolved to mirror real-life variability and provide rich data for many types of studies, including challenging studies with:

- Expensive or limited quantity medications
- Multiple packaging campaigns
- Expiration constraint concerns
- Potential study design changes, such as adaptive design trials
- Complex stratifications, dose titrations, or medication pooling



Meeting Actual Patient Demand

Forecasting is an essential and necessary component of the FastChain™ demand led supply solution which uses a regional approach to place clinical supplies closer to patients. Different from traditional supply models, FastChain™ decouples secondary packaging from primary packaging which significantly reduces clinical waste, eliminates the need for booklet labels and enables patient kits to be packaged and shipped to sites in less time.

Inform Your Supply Chain Management

Whether a study is simple or highly complex, forecasting and simulation reports serve as an essential data driven communication tool to:

- Validate your supply chain
- Strengthen your budget estimates
- Highlight potential risks
- Inform mid-study evaluation of actuals versus plan
- Keep your study moving forward

As a global leader in clinical supply that has supported more than 5,000 clinical trials, Catalent can deliver the crucial information study sponsors need to make smarter decisions and get the most out of their clinical trial supply management.

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GLOBAL + 1 888 SOLUTION (765-8846)

EU + 800 8855 6178

solutions@catalent.com