PerkinElmer Solution For Monitoring Clinical Operations

PerkinElmer's Clinical Operations Solution provides organizations with an unprecedented ability to reduce the time, cost, and risk of running clinical trials while accelerating the time to market for products across the entire portfolio of clinical candidates. To enable clinical operations excellence, our solution speeds up the access to timely information thus enabling optimal study startup, budget and milestone tracking.

Easily rendered visualizations enable the rapid determination of the current state of a program, trial or site status which helps teams gain insight into areas of potential issues, allow the understanding of the source cause of issues, and improve the management of clinical performance through metrics and KPIs.

Powered by TIBCO Spotfire®, our Clinical Operations solution allows you to easily drill down from exploring the data at a global level to reviewing individual details of e.g. milestones (Figures 1-2):

Figure 1: Milestones can be tracked across multiple sites and studies, comparing the actual data vs. the plan at any point in time.
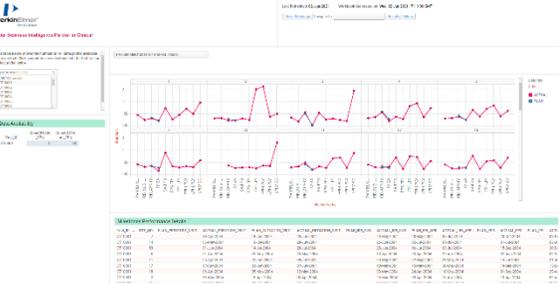

Figure 2: End users can drill down to review the achievement of milestones at each site for each study.
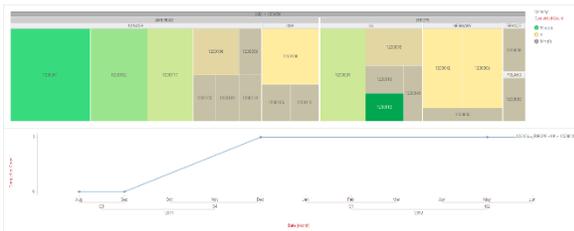
Some examples of the visualizations included in our Clinical Operations solution are shown below:

Number of sites and patients per country and study.

Number of patients planned (green, horizontal bar) and recruited (red, vertical bar) at each stage (Screening, Entered treatment, Completed treatment). Arrowhead icons show if the plan was achieved (green) or not (red).
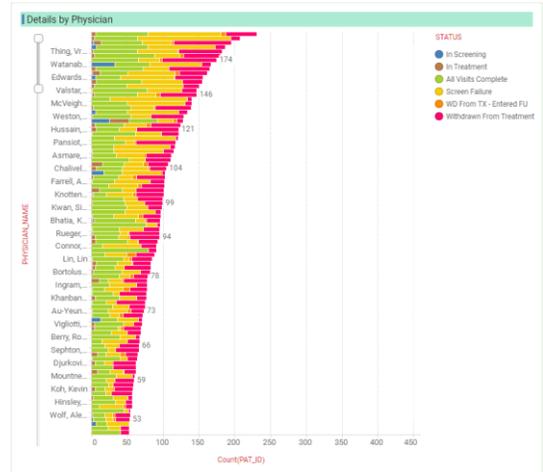

Number of subjects that completed the study in total numbers and values over time.
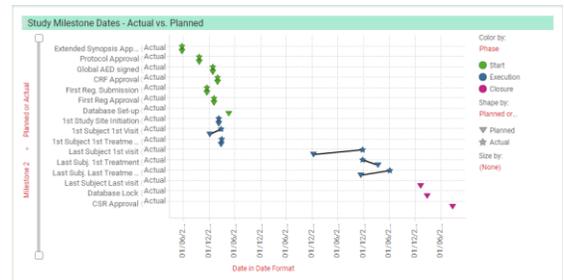

Drop rate and screen fail rate per site.

Planned vs. actual enrollment for each trial.

Number of subjects attended by each physician.

Milestones achievement over time.

Appendix:

A summary list of the visual analytics included in PerkinElmer's Clinical Operations solution.

These visuals are fully customizable and can be extended to include additional visuals that don't feature in the list below, including advanced visualizations that may require the use of Iron Python, R and other scripting methods.

Visualizations available

Overview
Navigation and Homepage.

Overview of clinical trials per country.

Distribution of subjects by trial and by site in each country.

Distribution of subjects at each stage of the study, by trial.

Subject Recruitment and Enrollment
Comparison of enrolled subjects by site, actual vs planned numbers.

Enrollment tracking details in tabular format.

Distribution of subject enrolled by site and by stage of the trial.

Bullet graph visualization to track the progress of subject enrollment.

Distribution of recruited subjects by region, country and site.

Details of subject recruitment over time.

Milestones Achievement
Distribution of intervals and their duration for each milestone.

Detailed information of each interval in tabular format.

Milestones achievement by trial, site and overall.

Milestones performance details in tabular format.

Overview of screen failure rate and withdrawal rate by site.

Distribution of the length of intervals at each site.

Timeline of milestones achievements, planned vs actual.

Distribution of intervals length by milestone, planned vs actual.

Relationship between planned and actual dates for each milestone, by country.

Patient Progress
Details of number of subjects at each stage of the selected trials.

Number of subjects attended by each physician at each stage of the trial.

Details of screen failure rates and withdrawal rates by site in tabular format.

Map location of sites selected by their failure/withdrawal rates.