Summary

Objectives of the data review meeting are to identify safety signals and site performance by observing data trends, data anomalies during study conduct. Sunovion data analysts have used SAS as the main tool to generate visualizations to support clinicians and pharmacovigilance. Over the past few years Sunovion experimented successfully with TIBCO Spotfire, R and other open source tools to generate more interactive and informative visualizations.

Study Dashboard

1. Study dashboard provides very essential details on screening, randomization and completion/termination numbers with flexible and scalable design using Spotfire KPI charts.

2. Patient demographics, disposition are presented with capability to drill down by geographic region and country.

Safety Dashboard

1. Historically, SAS has been used to generate static outputs (PDF/RTF) for efficacy and safety as per requests. In general, programmers had been requested to produce more listings to answer questions identified during the review of the static outputs.

2. Spotfire property controls and basic scripting enabled interactive visualizations with more control to end user to review in detail. This design helps user to filter with custom percentage change from baseline.

3. Property controls are used to present lab data trends group by lab panels which helps with more logical review.

4. Advanced scripting can help analyst to develop controls to provide user with a choice to select different kinds of visualization on the same data.

Conclusion

The use of new tools by analysts will allow study team to gain more insights into the clinical data with minimal programming support. Analysts can develop the templates which can be re-used effectively.