Visualization of titrated dose and recurring events using R/ggplot2

Yue Shentu

In a clinical trial with titratable dosing scheme, it is often crucial to understand the relationship between recurring Adverse events, longitudinal efficacy profile and the associated titration path of the medication. visualization of individual data as well as population summary is an effective tool to identify underlying trend and correlations. Using the ggplot2 package and R base graphic, we generated series of graphs that provided important insight to the characteristics of the experimental drug, and helped clinicians to monitor patient safety in on-going studies. This presentation is a summary of what we have done for a real-life clinical study, with graphics generated using mocked data.