

## **Clinical Graphs using ODS Graphics** Garage Malarga, SAS Institute, Cary, NC

### **ABSTRACT**

Safety data for clinical trials is often collected in tabular form. The process of interpretation and analysis that we make using software for the design of graphical display of this data starts with the advanced statistical techniques such as Least Squares Test Functions and Methods, Standard Function Tests, Pattern Functions, Advanced Graph Tests, Life Tests for Exact Life-testing and Biostatistics are commonly used in the Health and Life Sciences domain. Many of these graphs are easy to do using one of the many tools available in the ODS Graphics tool set. This paper will describe in detail how to create these standard graphs for the Health and Life Sciences industry using ODS Graphics.

### **INTRODUCTION**

High quality graphs are essential for analysis of data in the Health and Life Sciences domain. Large volumes of such data are generated in the duration of a clinical trial, and visualizing the data along with the derived statistics is essential for the analysis of such data. Some of the key features of the graphs include:

- Evaluation of the raw data and the statistics in the same display.
- Evaluation of other indicators such as identifiable events, adverse events, etc.
- Comparison of the results for a drug with the corresponding results for other drugs or placebo.
- Classification of the results by multiple variables.
- Display of the results over time.

The goal of this paper is to show how to create graphs commonly used in the Health and Life Sciences domain using ODS Graphics. In this paper, we will take various graphs commonly used for analysis of safety data for Clinical Trials, Pattern Function graphs, graphs for testing laboratory tests, etc., and show the code needed to build such graphs in detail. These graphs have been developed by professionals in the field who have the necessary domain expertise to design the right graphs. It is not the intent of this paper to evaluate the effectiveness of such graphs. So, the design of the graphs used is beyond the scope of this paper. In this paper, we will cover various techniques that can be used to build such graphs that providing the information you need to customize them to your needs.

### **GRAPHS FOR HEALTH AND LIFE SCIENCES**

We will review and build some common graphs that have been frequently used in the Health and Life Sciences domain. We will start with some graphs discussed in the paper "Graphical Approaches to the Analysis of Safety Data from Clinical Trials" (John Aron, et. al., Pharmaceutical Statistics, SAS). Additionally, we will cover other popular graphs in the field. These are:

1. Empirical distribution function for maximum change in QTc.
2. Box Plot of change from baseline in QTc by time and treatment.
3. Mean change from baseline in QTc by time and treatment.
4. Distribution of AARF by time and treatment.
5. Distribution of maximum LFT values by treatment.
6. Change of LFT with time from baseline to maximum by treatment.
7. Mean change of maximum LFT values.
8. LFT Patient profiles.
9. Mean frequency on therapy adverse events sorted by relative risk.
10. Cumulative distribution (with 95% CI) of time to first AE of special interest.
11. Kaplan-Meier curves for AEs of special interest (with 95% CI).
12. Adverse event profiles.
13. Life Events Over Time.
14. Toxicology Profile by Treatment.

Let us review each graph along with the code needed to create the graphs using the Statistical Graphics (SG) Procedures or the Graph Template Language (GTL).

# Clinical Graphs Using Ods Graphics Analysis Of Safety

**Jiyuan Zhang**



## **Clinical Graphs Using Ods Graphics Analysis Of Safety:**

## Unveiling the Energy of Verbal Beauty: An Mental Sojourn through **Clinical Graphs Using Ods Graphics Analysis Of Safety**

In a global inundated with monitors and the cacophony of instantaneous communication, the profound energy and emotional resonance of verbal beauty frequently disappear into obscurity, eclipsed by the continuous onslaught of sound and distractions. Yet, set within the musical pages of **Clinical Graphs Using Ods Graphics Analysis Of Safety**, a fascinating function of fictional beauty that impulses with raw emotions, lies an wonderful trip waiting to be embarked upon. Published with a virtuoso wordsmith, this interesting opus guides readers on a psychological odyssey, gently revealing the latent potential and profound influence embedded within the complex internet of language. Within the heart-wrenching expanse of the evocative analysis, we shall embark upon an introspective exploration of the book is main subjects, dissect its fascinating publishing model, and immerse ourselves in the indelible impression it leaves upon the depths of readers souls.

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