

## **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 software platform. Graphs such as Line Plots, Forest Plot Plots and Matrix, Standard Plots, Matrix Plots, Advanced Forest Plots, Life Table for Event Occurrence and Mortality 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:

- Display of the raw data and the statistics in the same display.
- Display 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, Matrix Plots, Forest Plots, graphs for various 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 substitute 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 AAR by time and treatment.
5. Distribution of maximum LFT values by treatment.
6. Forest of LFT data from baseline to maximum by treatment.
7. Matrix display 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 for AE of special interest (with 95% CI).
12. Adverse event profiles.
13. Life Table Over Time.
14. Mortality 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

**PT Brinkman**



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

**Clinical Graphs Using SAS** Sanjay Matange,2016-03-21 SAS users in the Health and Life Sciences industry need to create complex graphs to analyze biostatistics data and clinical data and they need to submit drugs for approval to the FDA Graphs used in the HLS industry are complex in nature and require innovative usage of the graphics features Clinical Graphs Using SAS provides the knowledge the code and real world examples that enable you to create common clinical graphs using SAS graphics tools such as the Statistical Graphics procedures and the Graph Template Language This book describes detailed processes to create many commonly used graphs in the Health and Life Sciences industry For SAS 9 3 and SAS 9 4 it covers many improvements in the graphics features that are supported by the Statistical Graphics procedures and the Graph Template Language many of which are a direct result of the needs of the Health and Life Sciences community With the addition of new features in SAS 9 4 these graphs become positively easy to create Topics covered include the usage of SGPLOT procedure the SGPANEL procedure and the Graph Template Language for the creation of graphs like forest plots swimmer plots and survival plots Producing High-Quality Figures Using SAS/GRAPH and ODS Graphics Procedures

Charlie Chunhua Liu,2015-02-06 This book demonstrates how to create commonly used figures and plots with SAS GRAPH and ODS Graphics procedures It provides all the details on selecting the right figure formats options and fonts In depth instructions and SAS programs using procedures in both SAS GRAPH and ODS Graphics show how to generate sample figures in listing graphics formats and ODS document files Each chapter includes practical examples and SAS programs Readers can easily modify the SAS programs to develop high quality figures to meet their own needs **Tumescent**

**Technique** Jeffrey A. Klein,2000 TUMESCENT TECHNIQUE is the definitive reference on all aspects of the tumescent technique of anesthesiology used in liposuction Written by the inventor of the tumescent technique this resource explains the pathophysiology complications pharmacology and the different methods used to achieve great cosmetic results Step by step instructions demonstrate how to perform this procedure on all areas of the body Complications and postoperative care are also addressed Written by Dr Klein a leading expert in the field and the physician who invented and perfected the technique Provides step by step instructions for administering the local anesthesia with a practical easy to follow approach Discusses tumescent liposuction techniques for each body region addressing procedures guidelines and complications for each Covers complications and how to avoid them preventing problems before they arise Provides detailed illustrations of techniques and before and after photographs to allow you to see expected results **Government Reports Announcements & Index**

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**Artificial Intelligence Abstracts** ,1991     **Journal of the American Optometric Association** American Optometric Association,1983     Business Periodicals Index ,2005

## **Clinical Graphs Using Ods Graphics Analysis Of Safety** Book Review: Unveiling the Power of Words

In a global driven by information and connectivity, the power of words has be much more evident than ever. They have the ability to inspire, provoke, and ignite change. Such could be the essence of the book **Clinical Graphs Using Ods Graphics Analysis Of Safety**, a literary masterpiece that delves deep into the significance of words and their affect our lives. Compiled by a renowned author, this captivating work takes readers on a transformative journey, unraveling the secrets and potential behind every word. In this review, we will explore the book is key themes, examine its writing style, and analyze its overall effect on readers.

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jun 14 2018 the ganges or ganga is the longest river in india and one of the most sacred rivers for the hindus it is also the third largest river across the globe by discharge the ganges is a 2 525 km trans boundary river of asia that rises in the western himalayas and flows through india and bangladesh

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oct 19 2023 as the river empties into the bay of bengal the mouth forms the ganges river delta the largest river delta in the world the ganges river is a vital resource to asia but it faces many threats human and industrial pollutants fill the river in some areas making it

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a systematic classification done by uttarakhand environment protection and pollution control board s ueppcb on river waters into the categories a safe for drinking b safe for bathing c safe for agriculture and d excessive pollution put the ganges in d coliform bacteria levels in the ganges have also been tested to be at 5 500 a

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the ganges 'gændʒiːz gan jeez in india ganga 'gʌŋɡɑː gung ah in bangladesh padma 'pʌdmə pud mə is a trans boundary river of asia which flows through india and bangladesh the 2 525 km 1 569 mi river rises in the western himalayas

in the indian state of uttarakhand

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distance between ganges and istanbul the distance between ganges and istanbul is 5 992 miles 9 643 kilometers however because there are no direct flights between ygg and ist the full journey covers a distance of 5 981 miles 9 625 kilometers flight time from ygg to ist flights between ganges and istanbul take 12 hours and 10 minutes

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ganges voyager ii as seen on jane mcdonald india cruising the ship s spacious suites are a serene sanctuary with beautiful hand painted murals and all the comforts of a five star hotel all suites have a cozy sitting area and a french balcony with floor to ceiling glass doors

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ganges river hindi ganga river northern india and bangladesh held sacred by followers of hinduism it is formed from five headstreams rising in uttaranchal state on its 1 560 mi 2 510 km course it flows southeast through the indian states of uttar pradesh bihar

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