

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 Param and ANOVA, Standard Parametric Tests, Parametric Tests, Advanced Parametric Tests, Life Tables for Event Occurrence and Mortality, 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:

- 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, Parametric Tests, 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 Kirk, 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. Change of LFT over 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 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

**Frank Moore Colby, Allen Leon
Churchill, Herbert Treadwell
Wade, Frank H. Vizetelly**

Clinical Graphs Using Ods Graphics Analysis Of Safety:

Reviewing **Clinical Graphs Using Ods Graphics Analysis Of Safety**: Unlocking the Spellbinding Force of Linguistics

In a fast-paced world fueled by information and interconnectivity, the spellbinding force of linguistics has acquired newfound prominence. Its capacity to evoke emotions, stimulate contemplation, and stimulate metamorphosis is actually astonishing. Within the pages of "**Clinical Graphs Using Ods Graphics Analysis Of Safety**," an enthralling opus penned by a very acclaimed wordsmith, readers embark on an immersive expedition to unravel the intricate significance of language and its indelible imprint on our lives. Throughout this assessment, we shall delve into the book's central motifs, appraise its distinctive narrative style, and gauge its overarching influence on the minds of its readers.

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Clinical Graphs Using Ods Graphics Analysis Of Safety :

USER MANUAL - SRV02 Rotary Servo Base Unit The Quanser SRV02 rotary servo plant, pictured in Figure 1.1, consists of a DC motor that is encased in a solid aluminum frame and equipped with a planetary ... SRV02 Position Control using QuaRC This laboratory guide contains pre-lab and in-lab exercises demonstrating how to design and implement a position controller on the Quanser SRV02 rotary ... Quanser SRV02 Workbook Jan 1, 2019 — Hakan Gurocak, Washington State University Vancouver, USA, for rewriting this manual to include embedded outcomes assessment. SRV02 Workbook - ... SRV02 User Manual SRV02 User Manual. 1. Presentation. 1.1. Description. The Quanser SRV02 rotary servo plant, pictured in Figure 1, consists of a DC motor that is encased in a. Quanser SRV02 Workbook Jan 1, 2019 — SRV02 Manual (Student).pdf. This laboratory guide contains pre-lab questions and lab experiments demonstrating how to model the Quanser. SRV02 ... SRV02 User Manual This module is designed to mount to a Quanser rotary servo plant (SRV02). The sensor shaft is aligned with the motor shaft. One end of a rigid link is mounted ... SRV02_Rotary Pendulum_User Manual.sxw The following table describes the typical setup using the complete Quanser solution. It is assumed that the ROTPEN is being used along with an SRV02, UPM and Q8 ... SRV02 Gyroscope User Manual The Quanser SRV02 and gyroscope system provides a great platform to study gyroscope properties along with control experiments that resemble real-life ... Rotary Servo Base Unit The Rotary Servo Base Unit is the fundamental element of the Quanser Rotary Control family. It is ideally suited to introduce basic control concepts and ... Control Systems Lab Solutions Quansers lab equipment for control systems are precise, robust, open architecture solutions for a wide range of teaching and research applications. Advanced Engineering Mathematics Solution Manual Get instant access to our step-by-step Advanced Engineering Mathematics solutions manual. Our solution manuals are written by Chegg experts so you can be ... Advanced Engineering Mathematics 2nd Edition Textbook ... Access Advanced Engineering Mathematics 2nd Edition solutions now. Our solutions are written by Chegg experts so you can be assured of the highest quality! (PDF) Advanced Engineering Mathematics Solutions Manual Advanced Engineering Mathematics Solutions Manual. Manual Solutions to Advanced Engineering Mathematics If you're looking for the Manual Solutions to Advanced Engineering Mathematics 6th Edition, no worries, I have the best solution textbook ... Solution Manual for Advanced Engineering Mathematics ... Feb 9, 2021 — Solution Manual for Advanced Engineering Mathematics 2nd Edition by Michael Greenberg

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