

TALK for R/Pharma Conference 2023 <https://rinpharma.com/>

TITLE: Interactive Data Visualization for Enhanced Clinical Trial Reporting

## ABSTRACT

[Wonderful Wednesday \(WW\)](#) is an initiative of the [Visualization Interest Group \(VIS SIG\)](#) within the Statisticians in the [Pharmaceutical Industry group \(PSI\)](#), focusing on enhancing data visualization skills for clinical trials. I have actively contributed to this open-source initiative, improving interactive trial reports and statistical data visualization.

During the presentation, attendees will be introduced to a comprehensive interactive subject profile comprising numerous Analysis Data Model (ADaM) datasets, offering a well-rounded view of each participant. Additionally, we will showcase dataxray, a tool designed to generate concise statistical descriptions of these datasets. We will conclude by presenting a detailed statistical analysis report displaying individual patient data and overall treatment effects on a unified dashboard.

A key benefit of these interactive reports is their ability to be easily shared (emailed, deployed on an internal company webpage, or added to GitHub pages) due to their server-free architecture. Efforts are also underway to integrate these reports into production by incorporating them into the safety monitoring system for clinical trials.

## LINKS

Designing a visual patient profile:

Dashboard: <https://agstn.github.io/PatientProfiler/PatientProfiler.html>

CODE (repo): <https://github.com/agstn/PatientProfiler>

dataxray: An interactive table interface for data summaries

Example: <https://agstn.github.io/dataxray/>

ADSL Example: <https://rpubs.com/acalatroni/863850>

CODE (repo): <https://github.com/agstn/dataxray>

Glucose Monitoring (CGM) Visualization

Report: <https://agstn.github.io/CGM/>

CODE: Embedded in the Report

Table of contents of All WW contributions:

CODE & Visualizations: <https://github.com/agstn/WW>