Clinical Studies Visualization & Analysis

Marta Cicchetti - Customer Advisor Advanced Analytics & AI Team

IX CDISC Italian User Network
12th May 2023
Milano
Where are we today and what are we looking at?

- New Regulatory Perspective on AI and Data Sharing
- Real-world Data & Real-World Evidence
- AI & Cloud for drug design and development
- Synthetic Data & Digital Twins
- CTs Monitoring & Patient Centricity (PV, safety, DEI)
- Health Data platform
Where are we today and what are we looking at?

- New Regulatory Perspective on AI and Data Sharing
- Real-word Data & Real-World Evidence
- AI & Cloud for drug design and development
- Synthetic Data & Digital Twins
- CTs Monitoring & Patient Centricity (PV, safety, DEI)
- Health Data platform
Interactive Visual Analysis

An approach to display and promptly analyze relevant information
A special combo

A picture is worth a thousands words

Statistical concepts

Easier, faster insights and activities monitoring
Dual perspective

Interactive Visual Analysis

Overall Clinical Study view

Patient Narrative
Overall clinical study

› Monitor Enrollment
  Over Time
  By Country & Site

› Monitor Site
  Site distribution
  Site performances
  Demographics of the patients

› Site Report Card
  Site name
  PI
  Site activation date
  Site enrollment performances
  Comparison site vs study performances metrics
Overall clinical study

- Safety
- AEs
- Lab Analysis
- Concomitant Meds
- Exposure Analysis
- Medical History analysis
- Path for crossover events
Patient Profile

› Safety
  AEs
  Vitals
  AEs vs Vitals
  Dose-responses relationship
  Lab Analysis
  Concomitant Meds
  Medical History analysis

› Adherence to protocol
WHAT’S BEHIND THE SCENES?
Data preparation

View Customization

Filters, drill-downs, pages

Summary, frequencies, distributions, clusters,...
Advantages of Interactive Visual Analysis

- **Enhance** evaluation of drug safety

- Starting from STDM datasets results in **reusability**

- **Time-saving**

- **Reduced latency** and real-time insights (efficacy)

- **Self-service** view to **explore and analyze**
How SAS delivers

✓ One platform

  **Warning:** it does not mean that you must use SAS programming language to prepare your data:
  - SAS empowers OS
  - Visual interfaces

✓ In-memory data

✓ Scalable platform

✓ Web-based interface

✓ Share your interactive reports
Thank you!
sas.com