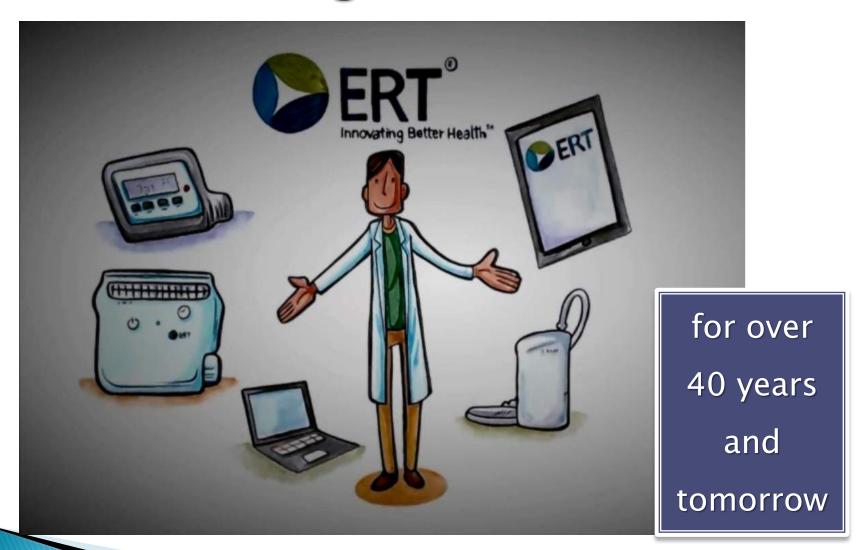


# Pharma Practical Experience in Implementing CDISC Standards

for Global Cardiovascular, Clinical Outcome Assessment and Respiratory Trials

> David Ju ERT Inc.

# Innovating better health

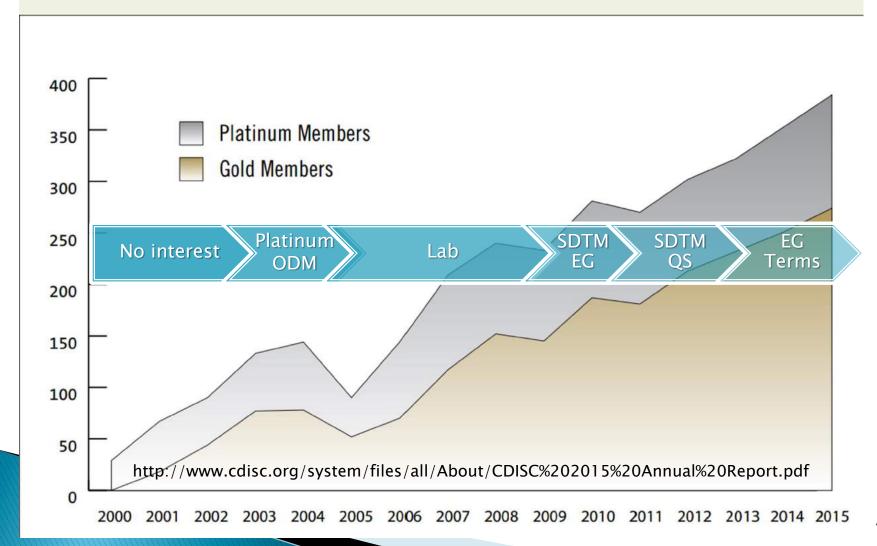




## Section 1: EXPERIENCES

### **EXPERIENCES WITH CDISC**

#### 2000-2014 Membership Trend



### **EXPERIENCES WITH CDISC**

- Built EXPERT, an ODM Compliant System, in 2002
- Provided a file per Lab Model in 2004
  - Searched CDISC website
  - Used a template and Built a program
  - Mapped findings to LOINC code
- Provided a file per SDTM EG since 2009
  - More sponsors used SDTM variable names
  - FDA wanted to receive the data in SDTM
- Provided a file per SDTM QS since 2010

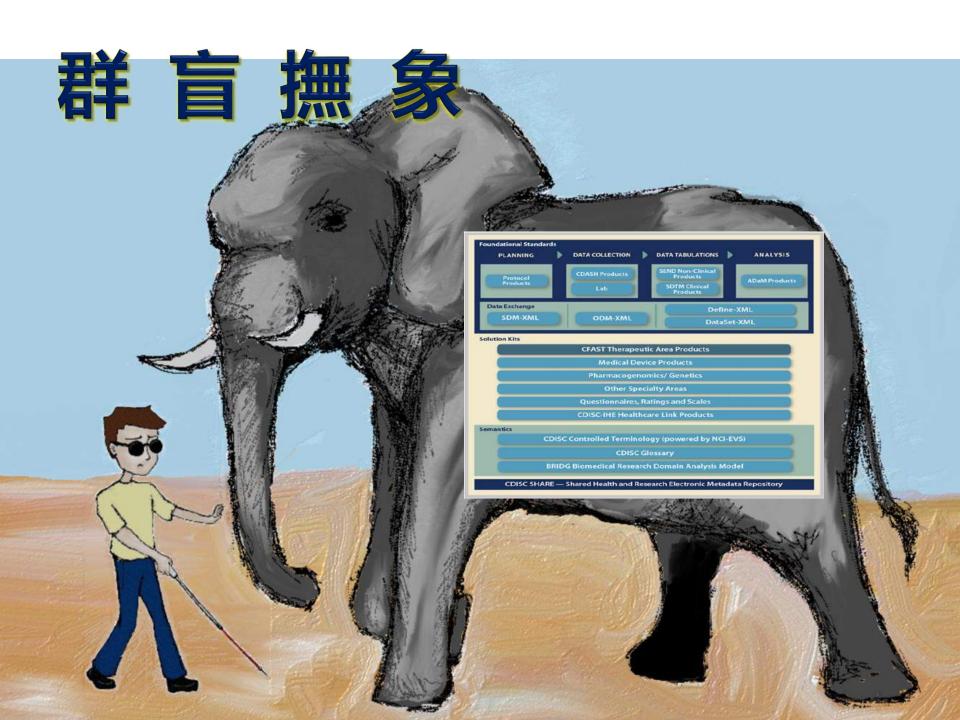
### **EXPERIENCES WITH CDISC**

- Joined EG Terminology committee in 2012
  - Standard Terminology for ECG and Holter
- Supported sponsors in implementing data specifications for SDTM EG
- > ERT Insights Cloud has been built in ODM





# Section 2: DIFFERENT APPROACHES PER CUSTOMERS' EXPERIENCES



### APPROACHES PER CUSTOMER

- CUSTOMERS FOLLOWING CDISC WITH CDISC SYSTEMS / PROCEDURES
  - EG for Cardiac data, QS for eCOA and custom domain for Respiratory
- CUSTOMERS WITH LITTLE KNOWLEDGE WHO WANT TO RECEIVE DATA IN CDISC
  - ERT provides data specifications
  - Customers review and finalize the specifications

### APPROACHES PER CUSTOMER

- CUSTOMERS FOLLOWING SOME OF CDISC
  - 5 to 10 variables follow SDTM
- WHEN SPONSORS WANT TO RECEIVE DATA IN CDISC ON A REAL-TIME BASIS
  - ERT PROVIDES DATA IN ODM XML
  - CTMS, EDC
  - ERT INSIGHTS CLOUD



# Section 3: CHALLENGES / RECOMMENDATIONS

### **SOFT SKILLS**

- Different levels of understanding
  - Sales
  - Project Manager
  - Medical doctor / specialist
  - Data Acquisition / Data Manger / Data Programmer
  - Developer / Vendor
- Know yourself and your customers
  - Communicate with customers in terms of their function and usage of CDISC
  - Internal customers are usually middle people

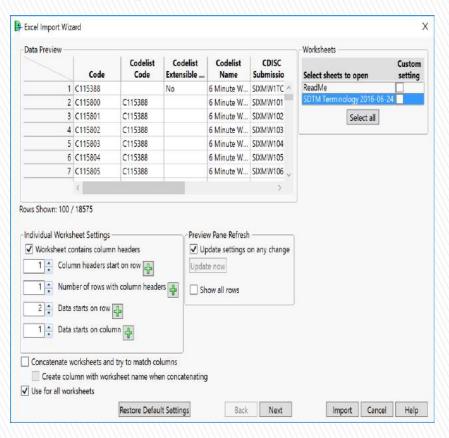
### **SOFT SKILLS**

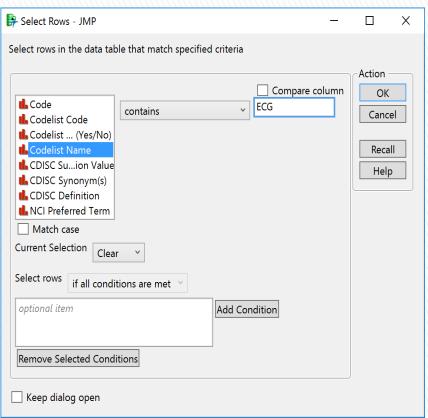
- A Moving target
  - Updates in Domains, New Domains
  - Terminology updates
  - Therapeutic Area Standards
- Focus on SDTM/SEND & ADAM, and look at other standards

### HARD SKILLS

- How to merge data for many studies
  - Receive data in ODM xml
    - Use a tool to convert ODM to CDASH/SDTM
  - Receive data in SDTM
    - Combine them
- Map Findings
  - Review Terminology spreadsheet regularly
  - Compare old and new version
  - Use a tool, e.g. JMP, SAS (PROC COMPARE), and etc.

## Compare terminology using JMP

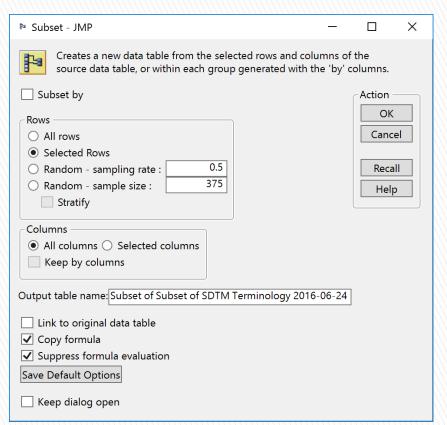


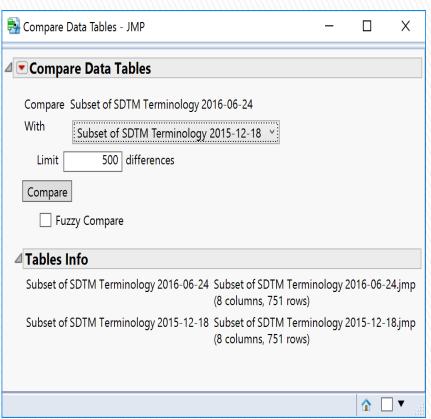


Read SDTM Terminology.xls

**Select Rows** 

# Compare terminology using JMP





Create a Subset

Compare Data tables

# Other Technical tips

- Heart Rate in VS vs. EG:
  - HR (Heart Rate) Vital Sign
  - EGHRMN (ECG Mean Heart Rate)
- Aggregate vs. Mean
- Not Done vs. Missing
- Holter vs. ECG
- Respiratory data

# **Concluding Thoughts**

- A team effort
  - Clinical / Medical team
  - Study Project / Data Management
  - Developer / Vendor
- Get involved
  - Be a member http://cdisc.org/register
  - Public reviews
     http://cdisc.org/standards-and-implementations
  - Participate in a working group

https://cdisc.wufoo.com/forms/r1b2e7kp1c8hoi9/

 The more you participate, the more you get out of CDISC



# Questions?



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U.S. FDA Publishes Binding Guidance Documents and Technical Conformance Guide in December 2014. .. After Dec. 17, 2016 .. must submit data in the data formats..

