

Best Practices for When to Transform Your Data

Olivier Bouchard
SAS, Customer Advisory, NEMEA Life Sciences

October 3rd, 2019

GUF CDISC, Rennes



SAS in the Life Sciences Industry

2,350+ Life Sciences customers worldwide

100% of the Life Sciences companies in the Fortune 500 use SAS

45+ countries with SAS customers in Life Sciences

FDA SAS is the de facto for clinical data submissions



Polling Time



Connect to

www.menti.com

Enter the code

646955



In collaboration with



Janet Stuelpner
Life Science industry SME,
Senior Solutions Architect SAS



Mira Shapiro

Data-Scientist

Panel discussion at CDISC US Interchange October 17th



CDISC Requirements

Worldwide

Austin, TX — 30 November 2016 — The Clinical Data Interchange Standards Consortium (CDISC) would like to remind the clinical research community that the FDA Binding Guidance goes into effect next month. Sponsors whose studies start after December 17, 2016 must submit data in FDA-supported formats listed in the FDA Data Standards Catalog. The current FDA Data Standards Catalog specifies the use of CDISC standards: SDTM, SEND, ADaM and Define-XML as well as Controlled Terminology.

The <u>Final FDA Guidance on Standardized Study Data</u> published December 17, 2014 states . . . "After the publication of this guidance, all studies with a start date 24 months after the publication date must use the appropriate FDA-supported standards, formats, and terminologies specified in the Catalog (see section II.C) for NDA, ANDA, and certain BLA submissions."



Electronic data submission will be **required from fiscal year 2016 regarding data of clinical studies** (evaluation data) that will be included in the application of new drugs, and those data are expected to be submitted **based on CDISC standards such as SDTM and ADaM**.

If submitted until 2020 it has to be in CDISC format. From 2020 onwards submission in CDISC format required



EMA referenced CDISC in a draft guidance on data transparency

- Reference was removed from final guidance
- EMA focuses more on transparency



When to transform the Data: Topics to Consider

Should we do it for every phase?

How long will it take?

How much will this cost?

What expertise do we need?

Am I organized enough to do it?

Should this be an iterative process?



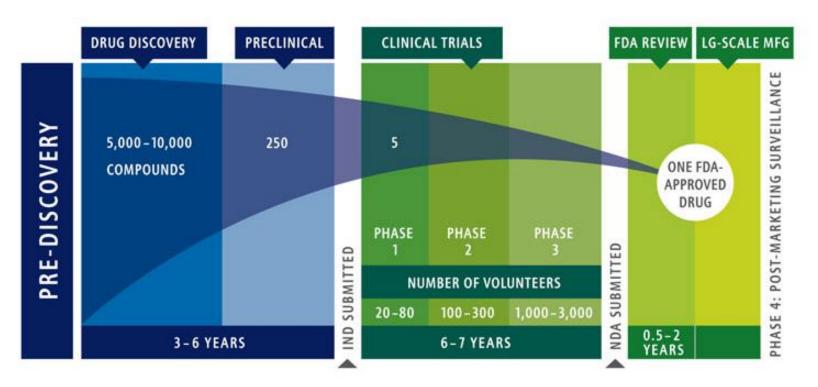
Considerations: Think about cost, expertise, time

Design Pinnacle 21 FDA JumpStart program Use of macros Data **CDISC** Preparation Data driven & Analysis Communication Early decisions Controlling process **Cross Trial** Aggregation

Collection

Challenge: Drug Discovery and Development

A long and risky road



The Beginning: Before the 1st Patient In

Proactive with any changes

75% of data study is standard

Mistakes caught earlier

High resource availability

CDISC Expertise

People used to use Standards

Programs aligned with standards

Data collection close to CDASH

Diagnostic can be run earlier





Data



Resources



Processes

More expensive – shift priorities

Investigators still comment CRF

If no SOPs, need to be completed early

Trust and lines of communication



During: While Patients enrolled & data collected



Data



Resources



Processes

More knowledge of specifics

Data Format stable

Easy changes to transform. code

Requirements changes reflected in building of domains, tables & documents



Reinventing the wheel

Extra expense: extern.submission





Data

At the End: Last patient out; ready for submission



Resources



Processes



Complete requirements knowledge, data inconsistencies

More time to formulate SOPs

Lower cost if passing to external



Last minute changes difficult to map
& need quick decisioning

More mistakes if trying to retrace steps

Need to make metadata changes

Time is of the essence to submit

Unavailability of resources

Need CDSIC expertise fast

More error; more difficult to QC

Starting from scratch at the end

Less efficient / More reactive



Summary

"Start With The End In Mind"



- The earlier you start, the optimum data quality should be
- Warning: less flexibility when you do it so early



- There is more CDISC expertise required at start
- Need more governance
- More programming at the end



- This should be a company strategy with SOPs in place
- The model-driven approach for CDISC standards governance and enhanced study metadata management drive efficiency from study setup to submission.
- Communication in case it won't be approved: no need to use CDISC standards
- Depending on company types (Big Pharma, Start Up, CROs) strategies can vary
- Easier to start if data exchange with partners, collaboration in drug discovery



Polling Time



Connect to

www.menti.com

Enter the code

646955

Answer the few questions



Thank You



Email: olivier.bouchard@sas.com

Phone: +33663471356

Linkedin: https://www.linkedin.com/in/olivier-

bouchard-6a52532/

Twitter: https://twitter.com/olgan92

