

Electronic Submissions The Requirement for Standardized Study Data

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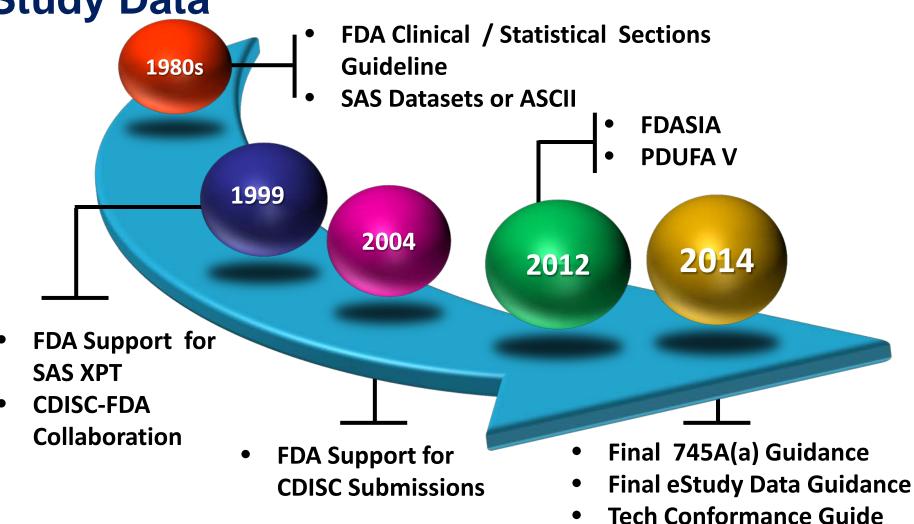
Center for Drug Evaluation and Research Food and Drug Administration

FDA Webinar

9 February 2015

Path to Electronic Standardized

Study Data



www.fda.gov

Value Proposition for Study Data Standards













Data Quality
Transparency
Interoperability

Improve Efficiency & Decision-making



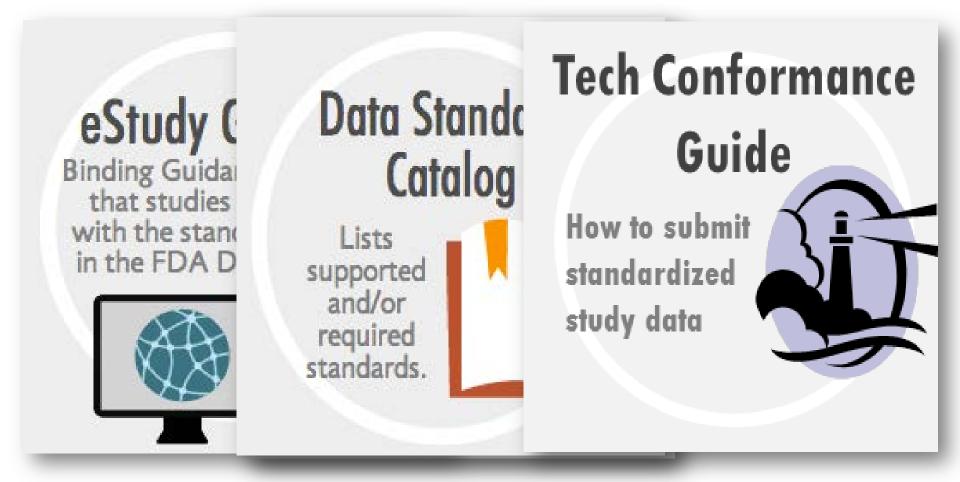
Number (%) of NDAs with Study Data Submissions in CDISC SDTM*

Fiscal Year	# of Submissions	% with CDISC SDTM
2013	223	55 %
2014	233	64 %
2015 (Q1)	66	69 %

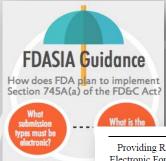
^{*}Source: Office of Business Informatics, CDER - <u>One or more</u> explicitly stated SDTM studies (or study data structure that resembled SDTM).



Binding Guidances Standards Catalog & Tech Guide







Providing Regulatory Submissions in Electronic Format — Submissions Under Section 745A(a) of the Federal Food, Drug, and Cosmetic Act

Guidance for Industry

U.S. Department of Health and Human Services Food and Drug Administration Center for Drug Evaluation and Research (CDER)

December 2014

Final
Published
December, 2014

No earlier than 24 Months

Individual Guidances

Framework for Submissions in Electronic Format

NDAs, ANDAs, BLAs, INDs

- Timetable
- Content
- Format



When will Study Data Standards be Required?

eStudy Guidance

Binding Guidance-Requires that studies are compliant with the standards outlined in the FDA Data Standards



Providing Regulatory Submissions In Electronic Format — Standardized Study Data

Guidance for Industry

Final **Published**

December, 2014

December 2014

24 Months*

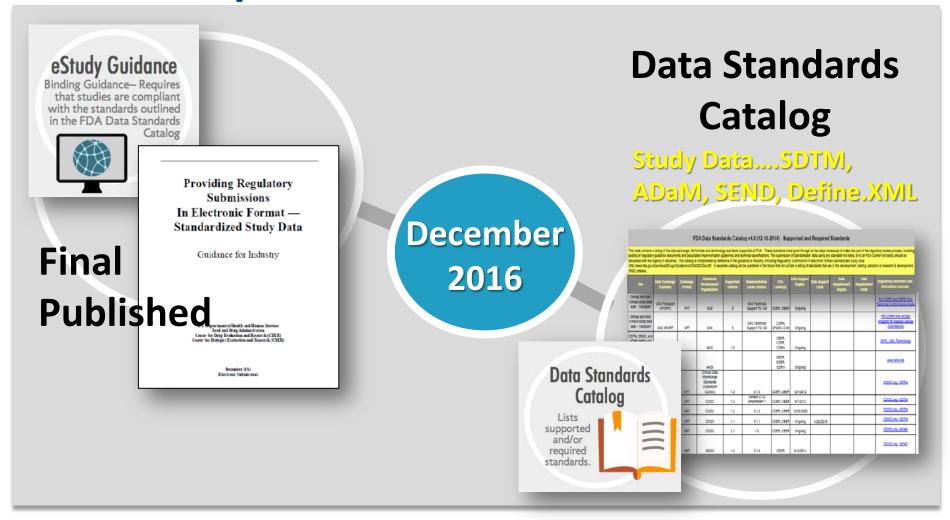
December 2016

Compliance

Studies starting** after MUST use the standards in the Data Catalog (NDAs, ANDAs, BLAs)



What Study Data Standards will be Required?



www.fda.gov



Data Standards Catalog

FDA Data Standards Catalog v4.0 (12-10-2014) - Supported and Required Standards

This table contains a listing of the data exchange, file formats and terminology standards supported at FDA. These standards have gone through all the steps necessary to make this part of the regulatory review process, including posting of regulatory guidance documents and associated implementation guidelines and technical specifications. The submission of standardized data using any standard not listed, or to an FDA Center not listed, should be discussed with the Agency in advance. This catalog is incorporated by reference in the guidance to industry, Providing Regulatory Submissions in Electronic format-Standardized Study Data (http://www.fda.gov/downloads/Drugs/Guidances/UCM202334.pdf). A separate catalog will be published in the future that will contain a listing of standards that are in the development, testing, adoption or research & development (R&D) phases.

Use	Data Exchange Standard	Exchange Format	Standards Development Organization	Supported Version	Implementation Guide Version	FDA Center(s)	Date Support Begins	Date Support Ends	Date Requirement Begins	Date Requirement Ends	Regulatory Reference and Information Sources
Clinical and Non- Clinical study data sets - Transport	SAS Transport (XPORT)	XPT	SAS	5	SAS Technical Support TS-140	CDER, CBER	Ongoing				For CDER and CBER only: Technical Conformance Guide
Clinical and Non- Clinical study data sets - Transport	SAS XPORT	XPT	SAS	5	SAS Technical Support TS-140	CDRH, CFSAN, CVM	Ongoing				For CDRH only: eCopy Program for Medical Device Submissions
SDTM, SEND, and ADaM define.xml file	XML		w3C	1.0		CBER, CDER, CDRH	Ongoing				W3C - XML Technology
Analysis program files	ASCII		ANSI			CBER, CDER, CDRH	Ongoing				www.ansl.org
Clinical study datasets	Study Data Tabulation Model (SDTM)	XPT	Clinical Data Interchange Standards Consortium (CDISC)	1.3	3.1.3	CDER, CBER	12/1/2012				CDISC.org - SDTM
Clinical study datasets	SDTM	XPT	CDISC	1.2	Version 3.1.2 Amendment 1	CDER, CBER	8/7/2013				CDISC.org - SDTM
Clinical study datasets	SDTM	XPT	CDISC	1.2	3.1.2	CDER, CBER	10/30/2009				CDISC.org - SDTM
Clinical study datasets	SDTM	XPT	CDISC	1.1	3.1.1	CDER, CBER	Ongoing	1/28/2015			CDISC.org - SDTM
Clinical study datasets	Analysis Data Model (ADaM)	XPT	CDISC	2.1	1.0	CDER, CBER	Ongoing				CDISC.org - ADaM
Animal study datasets	Standard for Exchange of Nonclinical Data (SEND)	XPT	CDISC	1.2	3.1.2	CDER	6/13/2011				CDISC.org - SEND



How Study Data Standards will Be Required?

Tech Conformance Guide How to submit

standardized study data

STUDY DATA TECHNICAL CONFORMANCE GUIDE

Technical Specifications Document

This Document is incorporated by reference into the following Guidance Document(s):

Guidance for Industry Providing Regulatory Submissions in Electronic Format - Standardized Study Data

For questions regarding this technical specifications document, contact CDER at cder-edata@fda.hhs.gov or CBER at cber.cdisc@fda.hhs.gov

U.S. Department of Health and Human Services Food and Drug Administration

Version 2.0 **Published**

Technical Conformance Guide (non-binding)

Use it NOW

Standardization Plan Study Data Analysis Data Reviewer's Guide Reviewer's Guide **Exchange Formats** Transport Domain SDTM General Efficacy, Safety, Considerations Timing Variables SEND Domain Specs ADaM Domain Specs Controlled Terminologies

Data Validation & Traceability **Elect Sub Format**



Timetable for New Study Data Standards

Transition Date

Beginning Date of Implementation Period (Not the Requirement Date)

March 15th

Transition Date is the next March 15th... *always*... following FRN

Requirement Date

In Submissions* for studies that start** 24 Months after transition date or March 15, 2021

So...an Example

Sept 5, 2018

FRN - New standard

Transition Date is March 15, 2019



Timetable for <u>Version Updates</u> to Study Data **Standards**

Example







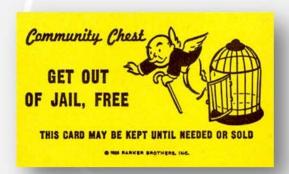
SDO Releases	Date Released	FR Notice of	Update Data	Transition	Date
Version	by SDO	FDA Support	Standards	Date	Requirement
Update			Catalog		Begins
	(yyyy-mm-dd)	(yyyy-mm-dd)	(yyyy-mm-dd)	(yyyy-mm-dd)	(yyyy-mm-dd)
SDTM 4.1	2016-02-15	2016-05-06	2016-05-06	2017-03-15	2018-03-15
SEND 2.1.1	2016-09-18	2016-10-03	2016-10-03	2017-03-15	2018-03-15
PDF 2.0	2018-01-15	2018-06-28	2018-06-28	2019-03-15	2020-03-15

In Submissions for studies that start 12 Months after transition date or March 15, 2018



Waivers and Exemptions

Are there <u>Waivers</u> from the Requirement?



No.

Are there <u>Exemptions</u> from the Requirement?



Yes.



Binding Guidance—Requires that studies are compliant with the standards outlined in the FDA Data Standards Catalog



Can FDA Refuse to File / Receive?



Yes. But,

www.fda.gov







When does all this start?

 The Clock has started. Clinical and nonclinical studies that <u>start</u> after December 17, 2016 <u>mus</u>t use the standards in the Data Catalog.

Can sponsors use the standards in the Data Catalog now?

Yes, we strongly encourage you to do so.

How often will FDA update the Data Catalog?

New versions or new standards will be posted to the Data Catalog.
 A Federal Register Notice will accompany all updates. Identified errata will be corrected, as needed.





What is a Transition Date?

 Always March 15th and <u>Always</u> the March 15th following the Federal Register Notice. It is used to determine the requirement date.

What is a Requirement Date?

- 24 months after the Transition Date for a new standard.
- 12 months after the Transition Date for a version update.

How does the FDA determine that a version update or new standard can be supported?

 We have a process that is executed to evaluate if we can process, review and archive a new update or standard.



- Is there a limit to what can be required under FDASIA 745A(a)?
 - Any the data / information that is determined to be part of a submission under subsection (b), (i), or (j) of section 505 of the FD&C Act may be within scope.
- Are the recommendations in the Conformance Guide required?
 - No. But we encourage sponsors to submit using the recommendations in the Guide.
- How often will there be updates to the Conformance Guide?
 - Generally, we will provide updates on an annual basis (or more frequently for hot topics).





Does FDASIA 745A(a) only apply to study data?

 No. There will be additional binding guidance issued, for example, the eCTD guidance will be issued as a binding guidance.

Are there validation rules for SDTM and SEND datasets?

 Yes. The FDA Study Data Standards Web page provides access to the rules.



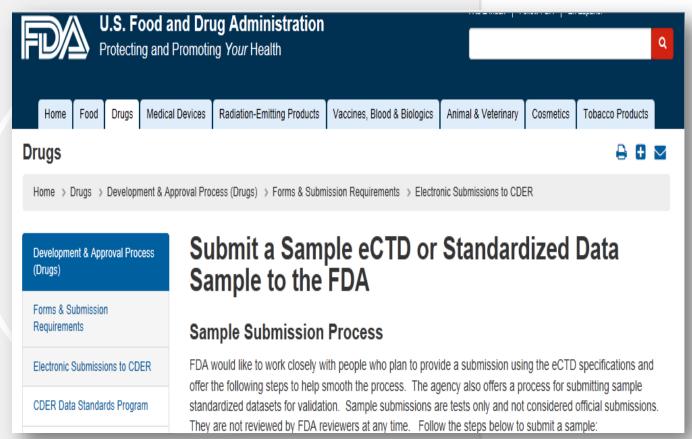












http://www.fda.gov/Drugs/DevelopmentApprovalProcess/FormsSubmissionRequirements/Electro nicSubmissions/ucm174459.htm



- Guidance for Industry Providing Regulatory Submissions in Electronic Format — Standardized Study Data
- Guidance for Industry Providing Regulatory Submissions in Electronic Format – Submissions Under 745A(a) of the FD&C Act
- Data Standards Catalog v. 4.0
- Study Data Technical Conformance Guide v. 2.0

http://www.fda.gov/forindustry/datastandards/studydatastandards/default.htm