

FDA's Study Data Policy Framework and How CDISC Properties Are Evaluated for Inclusion

Helena Sviglin, CDER Office of Strategic Policy

Data Standards Staff

May 2023

Current Contributions:

- Internal policy development and study data governance
- Chair, FDA Study Data Technical Conformance Guide (sdTCG) Working Group
- eData responses
- Chair, FDA Data Standards Catalog Subcommittee
- Chair, FDA Business Rules CCB
- I AM NOT A LAWYER



Helena Sviglin, FDA CDER
Office of Strategic
Programs



FDA Study Data Policy Framework Overview

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)
Center for Biologics Evaluation and Research (CBER)

December 2014
Electronic Submissions

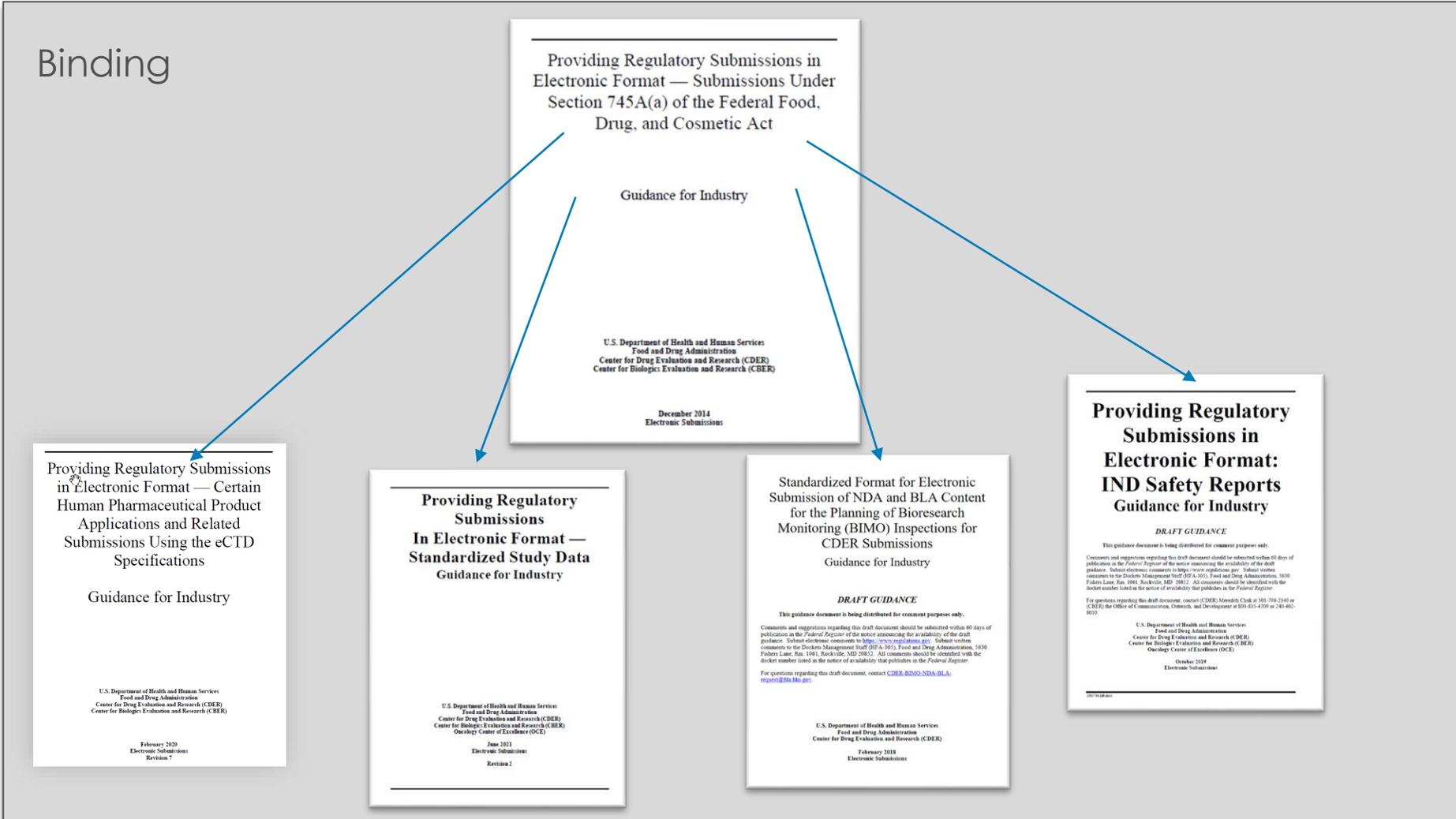
Primary Statute



[Search for FDA Guidance Documents | FDA
\(fda.gov/regulatory-information/search-fda-
guidance-documents\)](https://www.fda.gov/regulatory-information/search-fda-guidance-documents)

[Study Data Standards Resources | FDA
\(fda.gov/industry/fda-data-standards-advisory-
board/study-data-standards-resources\)](https://www.fda.gov/industry/fda-data-standards-advisory-board/study-data-standards-resources)

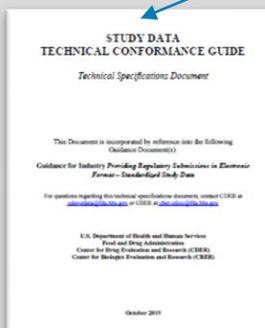
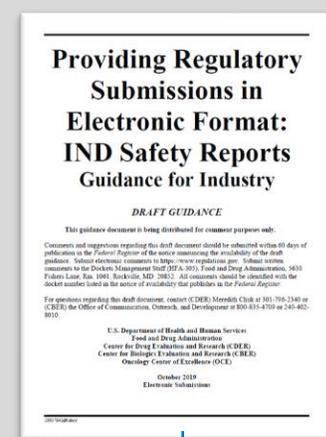
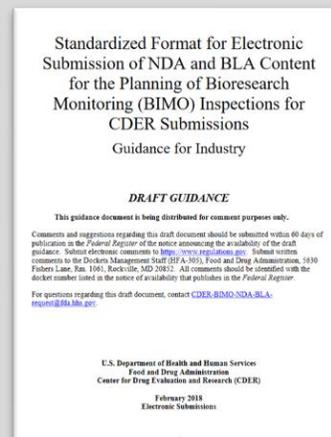
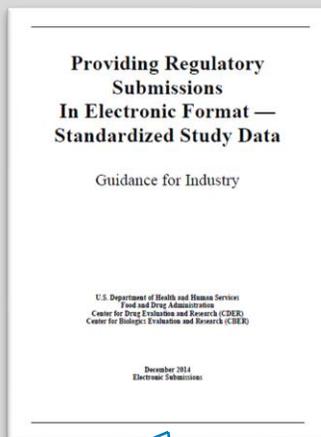
How FDA communicates technical requirements for submitting study data



How FDA communicates technical requirements for submitting study data



Binding –
Level I



Standard ID	Standard Name	Standard Description	Standard Type	Standard Status	Standard Effective Date	Standard Expiration Date	Standard Version	Standard Category	Standard Subcategory	Standard Parent	Standard Child
...

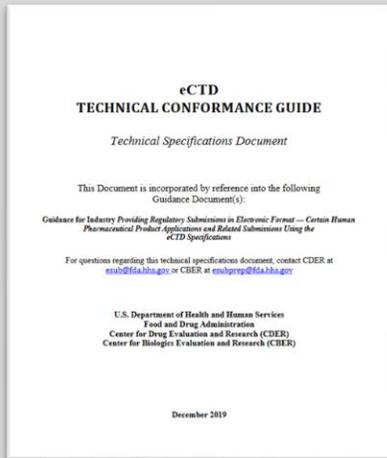
BIMO
TCG



Technically non-binding – Level II – but sit under a binding guidance and are incorporated by reference

Related guidance: eCTD – requires electronic data, eCTD format

Binding –
Level I



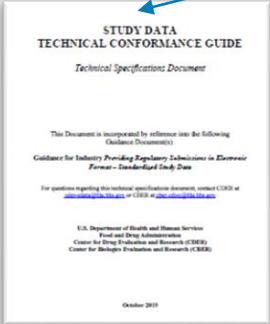
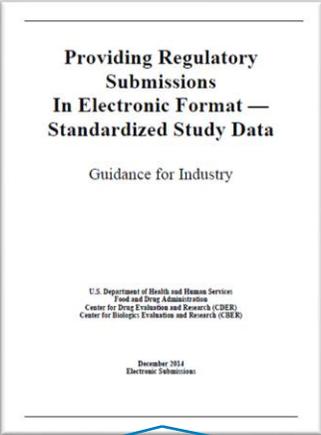
Technically non-binding but Level II guidances sit under a binding guidance and are incorporated by reference

Use	Standard	Exchange Format	Standards Development Organization	Supported Version	Implementation Guide Reference	Date Support Begins (yyyymm-dd)	Date Support Ends (yyyymm-dd)	Date Requirement Begins	Date Requirements Ends	Regulatory References
This table contains a listing of the specifications and supportive files for eCTD submissions to both CDER and CBER. Last updated: 3/15/2021										
Documentation and Resources					Final Guidance for Industry: Providing Regulatory Submissions in Electronic Format – eCTD Specifications	7/27/2020				eCTD Technical Conformance Guide
eCTD Technical Conformance Guide	eCTD			1.5						
eCTD Specifications	eCTD	XML	ICH	3.2.2	Electronic Common Technical Document Specifications	7/16/2008		5/5/2017 (for NDA, ANDA, BLA) 5/5/2018 (IND Commercial, MF)		eCTD Backbone File Specification by Modules 2 Through 3.3.2.2
STP Specification	eCTD	XML	ICH	2.6.1		6/3/2008		5/5/2017 (for NDA, ANDA, BLA) 5/5/2018 (IND Commercial, MF)		The eCTD Backbone File Specification for Study Support Files 2.6.1
Specifications for				3.9		3/15/2021		4/4/2017 (for NDA,		Specifications for eCTD Validation Criteria

[eCTD Data Standards 031521 \(fda.gov\)](https://www.fda.gov/oc/ohrt/e-ctd/e-ctd-data-standards-031521)

Focus on study data

Binding –
Level I



FDA Data Standards Catalog v6.1 (09-09-2019) - Supported and Required Standards

For full description of column headings, see Inst3 & Column Descriptions tab

File Exchange Standard	Language Format	Standards Organization (ISO)	Supplement Version	Supplement Description	CDER/ CBER	File Support (MIME/TYPE)	File Support (MIME/TYPE)	File Requirement (Date)	File Requirement (Date)	File Requirement (Date)	Industry, Regulatory or Guidance Authority	Information Sources
Electronic Common Technical Document (eCTD)	Extensible Markup Language (XML)	International Council for Harmonization (ICH)	3.2.2	ICH eCTD Electronic Common Technical Document Specifications	CDER, CBER	application/vnd.ich.ctd+xml	application/vnd.ich.ctd+xml	09/08/2017 (S)	09/08/2017 (S)	09/08/2017 (S)	Regulatory Submissions in Electronic Format	Electronic Submissions Electronic Common Technical Document (eCTD)
Standardized Medical Lexicon (SML)	XML	Health Level 7 (HL7)	Release 3	Standardized Product Labeling (SPL) - Supplemental Content with Standardized Pharmacovigilance (SCVP) - Version 1.0	CDER, CBER	application/xml	application/xml	04/01/2016 (S)	07/11/2017 (S)	04/01/2016 (S)	Industry Regulatory Submissions in Electronic Format, Drug Submissions, Biologics and Drug Labels	Standard Product Labeling (SPL) Submission Data with US/EMA/Choukass
SPL	XML	HL7	Release 1	Standard Product Labeling (SPL) - Supplemental Content with Standardized Pharmacovigilance (SCVP) - Version 1.0	CDER	application/xml	application/xml	06/10/2016 (S)	06/10/2016 (S)	06/10/2016 (S)	Electronic Submissions of Label Distribution Reports	FDA Standard Product Labeling Resource
				Standard Product Labeling (SPL) - Supplemental Content with Standardized Pharmacovigilance (SCVP) - Version 1.2.3	CDER	application/xml	application/xml	06/10/2016 (S)	06/10/2016 (S)	06/10/2016 (S)	Final Rule for SPL	Standard Product Labeling (SPL) Submission Data with US/EMA/Choukass

Technically non-binding – Level II – but sit under a binding guidance and are incorporated by reference



Level I vs. Level II Guidance

Level 1 **guidances** set forth the agency's initial interpretations of new significant regulatory requirements; describe substantial changes in FDA's earlier interpretation or policy; and deal with complex scientific or highly controversial issues.

Level 2 **guidances** usually address existing practices or minor changes in FDA's interpretation or policy.

[Fact Sheet: FDA Good Guidance Practices | FDA](#)

([fda.gov/about-fda/transparency-initiative/fact-sheet-fda-good-guidance-practices#:~:text=In%20general%3A,scientific%20or%20highly%20controversial%20issues.](https://www.fda.gov/about-fda/transparency-initiative/fact-sheet-fda-good-guidance-practices#:~:text=In%20general%3A,scientific%20or%20highly%20controversial%20issues.))

Level I vs. Level II Updates to Guidance



Level 1 *updates* to guidances describe substantial changes in FDA's earlier interpretation or policy; and deal with complex scientific or highly controversial issues.

Level 2 guidance *updates* usually address changes to existing practices or minor changes in FDA's interpretation or policy.

Fact Sheet: FDA Good Guidance Practices | FDA

([fda.gov/about-fda/transparency-initiative/fact-sheet-fda-good-guidance-practices#:~:text=In%20general%3A,scientific%20or%20highly%20controversial%20issues.](https://www.fda.gov/about-fda/transparency-initiative/fact-sheet-fda-good-guidance-practices#:~:text=In%20general%3A,scientific%20or%20highly%20controversial%20issues.))

FDA's Study Data Policy Framework



Level I Guidance (sitting under 745A(a))

- eStudy Data Guidance (eStudy)
- Real World Data (RWD) (currently in Draft)
- *eCTD Guidance*

Level II Guidance

- Technical Conformance Guides (TCGs)
- FDA Data Standards Catalog (Catalog)
- Certain Technical Specifications (Tech Specs)

[Search for FDA Guidance Documents | FDA \(fda.gov/regulatory-information/search-fda-guidance-documents\)](https://www.fda.gov/regulatory-information/search-fda-guidance-documents)

[Study Data Standards Resources | FDA \(fda.gov/industry/fda-data-standards-advisory-board/study-data-standards-resources\)](https://www.fda.gov/industry/fda-data-standards-advisory-board/study-data-standards-resources)

eStudy Data Guidance Updates



Two Level II Updates were made since 2020

1. Technical Rejection Criteria (TRC) considerations, 2020
2. Scope of SEND, 2021

Providing Regulatory Submissions in Electronic Format
-- Standardized Study Data | FDA

RWD Guidance Update

- Establishes that RWD is considered study data at the point of submission and falls under 745A(a)
- Draft Published late 2021
- Review of public comments completed
- This review will inform the final guidance

[Providing Regulatory Submissions in Electronic Format -- Standardized Study Data | FDA](https://www.fda.gov/regulatory-information/search-fda-guidance-documents)
([fda.gov/regulatory-information/search-fda-guidance-documents](https://www.fda.gov/regulatory-information/search-fda-guidance-documents))



Technical Conformance Guide (TCG) Recent Updates

- Study Data TCG (sdTCG) updated March 2023
- Biomedical Monitoring (BIMO) TCG updated April 2022
- IND Safety Reports TCG updated April 2022
- FDA Data Standards Catalog updated January 2023

[Study Data Standards Resources | FDA](#)

FDA Data Standards Catalog Recent Updates



Catalog continues to be updated to address the current state of requirements for study data at other Centers:

- Annotated ECG (aECG) standard
- Open docket added
- Added CVM as an involved center for UNII Add USCDI+ to the catalog, plus other updates
- S-CAP for CDRH
- ISCR R2 for CDRH
- CDISC Standards ADaM IG v1.2 and 1.3

[Data Standards Catalog | FDA](#)

FDA Study Data Technical Specifications (Tech Spec) Recent Updates



1. Submitting Nonclinical Datasets for Evaluation of Rodent Carcinogenicity Studies of Pharmaceuticals, Guidance for Industry, Technical Specifications Document v. 1.0 (May 2021)
2. Submitting Next Generation Sequencing Data to the Division of Antiviral Products v. 1.0 (July 2019)
3. QT Studies Technical Specification Document v. 1.0
4. Bioanalytical Methods Validation (BMV) Tech. Spec. v1.0
5. HIV Technical Specifications Guidance v. 1.0 (March 2018)
6. Vaccines Technical Specification Guidance v2.1
7. Clinical Endpoint BE Studies v1.0
8. Technical Specifications for Submitting Clinical Trial Data Sets for Treatment of Noncirrhotic Nonalcoholic Steatohepatitis (NASH) (Jan 2022)

How Does FDA evaluate CDISC properties for inclusion into the Study Data Policy Framework?

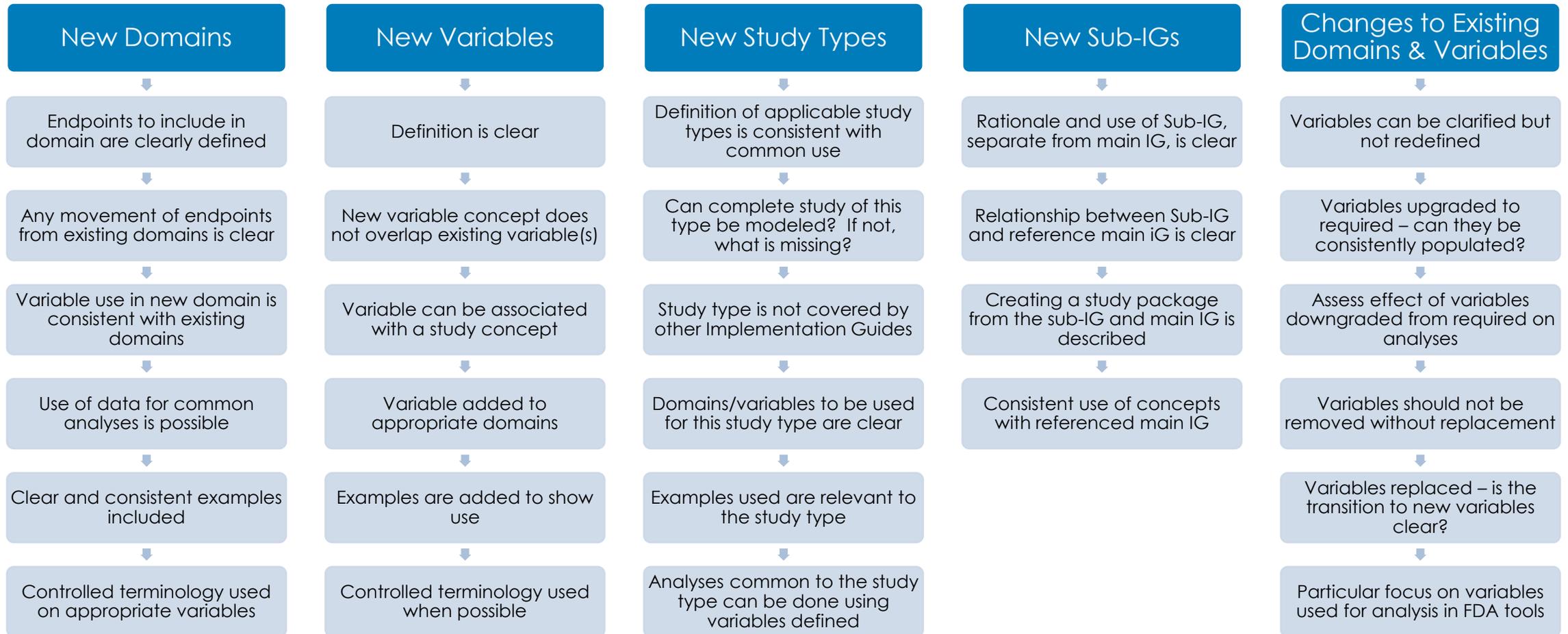


1. Organic process
2. Property is identified
3. We work with internal SMEs and contracted SMEs to evaluate the property
 - Check the property for cohesion in key areas
 - Check against existing guidance documents
4. Work internally to develop comments for public comment phases
5. Work internally to develop consensus on what our Agency position will be

Essential Evaluation Areas for Clinical

- Non-Standard variables
- Existing NSV being promoted
- Structural change (vertical -> horizontal/vice versa)
- Changes to core domain structures
- Multiple instances in DM (multiple screenings/enrollments)
- Extension studies and how this impacts SDTM model
- Adjudication data
- Observational Studies
- Sex
- Race/Ethnicity
- Relationships of the evaluated property to other properties (for example, what is the underlying data model behind each thing evaluated)

Non-Clinical Essential Evaluation Areas



Also Document in the Assessment: What is the underlying SDTM version, is that version in the catalog, when was that version

Questions?