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# GRX+Biosims Generic + Biosimilar Medicines Conference

Study Data Technical Rejection Criteria, Validation, and Self-Check Worksheet

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## **Agenda**



- FDA Guidance and Data Standards Catalog
- Revised Technical Rejection Criteria for Study Data
- Study Data Technical Rejection Criteria Conformance Trend
- Technical Rejection Criteria Validation Process
- Typical Error Examples and Demo of the Self-Check Worksheet
- Implementation Timeline

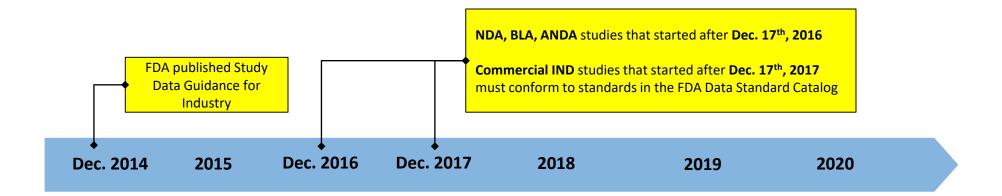


# **FDA Guidance and Data Standards Catalog**

#### **FDA Guidance and Data Standards Catalog**



- Per FD&C Act Section 745A(a), drug application sponsors must use the standards defined in the FDA Data Standards Catalog starting 24 months after final guidance for a specific submission type.
- FDA issued "Providing Regulatory Submissions in Electronic Format Standardized Study Data: Guidance for Industry" in December 2014.
- Sponsors must conform to standards in the FDA Data Standards Catalog:
  - NDA, BLA, ANDA studies that started after December 17th, 2016
  - Commercial IND studies started after December 17th, 2017



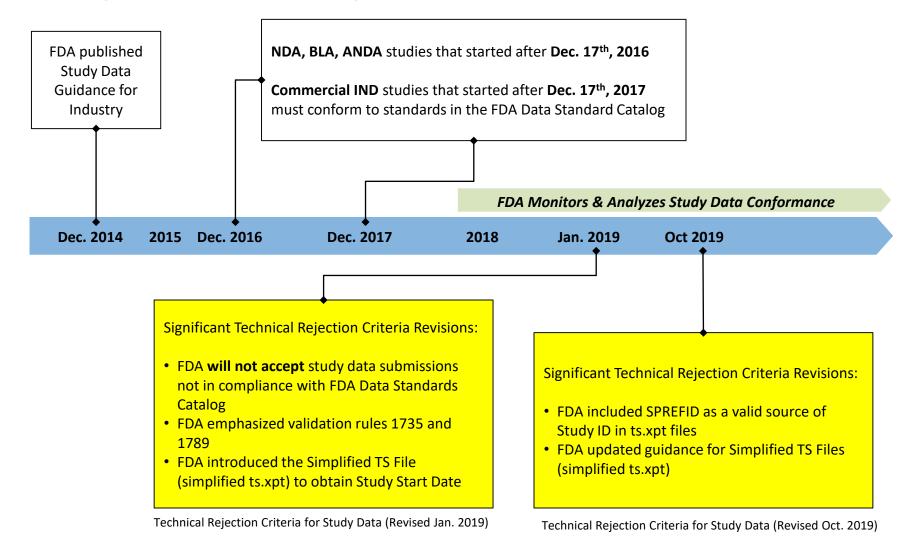
5



# **Revised Technical Rejection Criteria for Study Data**



## **Study Data Technical Rejection Criteria (SDTRC) Revisions**





#### Study Data Technical Rejection Criteria (SDTRC) Revisions (Jan. 2019)

#### Refuse to file → Will not accept

The FDA may refuse to file (RTF) for NDAs and BLAs, or refuse to receive (RTR) for ANDAs, an electronic submission that does not have study data in conformance to the required standards specified in the FDA Data Standards Catalog

FDA will not accept an electronic submission that does not have study data in compliance with the required standards specified in the FDA Data Standards Catalog

#### Revised TRC rules and elevated 1735 and 1789 to high severity errors

Error	Description	Severity
1734	Trial Summary (TS) dataset (ts.xpt) with information on study start date must be present for required sections*	High
<mark>1735</mark>	Correct STF file-tags must be used for all standardized datasets and corresponding define.xml files in required sections*	High
1736	For SEND data, a DM dataset and define xml must be submitted in required sections* For SDTM data, a DM dataset and define.xml must be submitted in required sections* For ADaM data, an ADSL dataset and define.xml must be submitted in required sections*	High
<mark>1789**</mark>	Study files must be referenced in a Study Tagging File (STF)	High



#### **Study Data Technical Rejection Criteria (SDTRC) Revisions (Oct. 2019)**

#### Introduced the Simplified TS File (simplified ts.xpt) and TSVALNF

#### For a study without a valid SSD:

STUDYID	TSPARMCD	TSVAL	TSVALNF
study ID in STF	SSTDTC		Use the value 'NA'

#### **Included SPREFID for Study ID matching**

If a file is referenced within a study section in Module 4 or 5, a STF and ts.xpt must be present to identify the study ID and SSD to which the file belongs. The ts.xpt and STF need to contain matching study ID values.

If a file is referenced within a study section in Module 4 or 5, a STF and ts.xpt must be present to identify the study ID and SSD to which the file belongs. The ts.xpt needs to contain either a study ID (STUDYID) or Sponsor Reference ID (SPREFID) value that matches with the STF study ID.





#### **Example in Revised TRC -SPREFID for Study ID matching**

A study in standardized format is submitted to FDA and the study files are referenced in a STF, a ts.xpt dataset is included in the study. The SPREFID in the ts.xpt dataset matches the study ID (study-id) in the STF. The Study Start Date in the ts.xpt is in SDTM or SEND format and the study begins after December 17, 2016, for NDAs, BLAs, and ANDAs (or December 17, 2017, for Commercial INDs).

- ❖ Additional parameter in the ts.xpt for matching study id with STF study id to pass validation 1734
  - The SPREFID parameter allows for an alternate way for Sponsors provide a matching study id
  - Multiple SPREFID values are allowed in the ts.xpt



# **Study Data Technical Rejection Criteria Conformance Trend**



## 1734 and 1736 Failure Rate Comparison- ANDA's and NDA's

Submissions with study data do not show significant improvements in Validation Errors 1734 and 1736



#### **CDER Conformance: Validation Error 1789**



ANDA's and NDA's were assessed for conformance to high-level error, 1789, as defined in the SDTRC (Revised Jan. 2019)

	NE	DA .	AN	DA	А	.II
	CY2018	CY2019 (Q1-Q3)	CY2018	CY2019 (Q1-Q3)	CY2018	CY2019 (Q1-Q3)
Total Number of Submissions	41,077	34,166	62,695	45,683	103,722	79,849
Error 1789	43	30	225	145	268	175
Failure Rate (% among total number of submissions)	0.10%	0.09%	0.36%	0.32%	0.25%	0.22%

#### Notes:

- 1) One drug application could contain multiple submissions throughout its review life-cycle, such as original, supplements, and amendments
- 2) Each submission may contain more than one study
- 3) Analysis includes NDA and ANDA submissions received by CDER between 1/1/2018 to 9/30/2019
- 4) Analysis is conducted according to the revised TRC (Revised Jan. 2019)





- ANDA and NDA were assessed for conformance to three high-level error, 1734, 1735, & 1736, as defined in the SDTRC (Revised Jan. 2019)
- Failure Rate for ANDA application increased between 2018 and 2019 and remains significantly higher than NDA applications

	NE	)A	AN	IDA	ı	All
	CY2018	CY2019 (Q1-Q3)	CY2018	CY2019 (Q1-Q3)	CY2018	CY2019 (Q1-Q3)
Total Number of Submissions with Study Data	877	704	1,078	631	1,955	1,335
Total Number of Submissions with Study Data in TRC Applicable Sections		533		582		1,115
Total Number Submissions with Critical Errors	215	194	689	428	904	622
Error 1734	185	150	186	125	371	275
Error 1735	34	43	497	307	531	350
Error 1736	16	20	88	56	104	76
Failure Rate (% among submissions with Study Data)	24.50%	27.56%	63.90%	67.83%	46.24%	46.59%
Failure Rate (% among submissions with Study Data in TRC Applicable Sections)		36.4%		73.54%		55.78%

#### Notes:

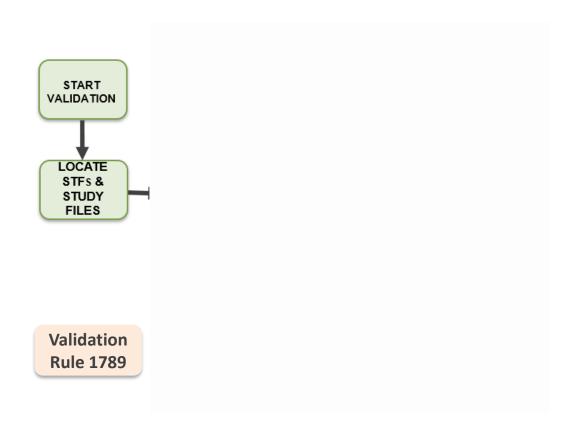
- 1) One drug application could contain multiple submissions throughout its review life-cycle, such as original, supplements, and amendments
- 2) Analysis includes NDA and ANDA submissions received by CDER between 1/1/2018 to 9/30/2019
- 3) Submission with multiple studies can report both Errors 1734, 1735 and 1736
- 4) Validation of errors 1735 and 1736 are not performed if a study has Error 1734
- Analysis is conducted according to the revised TRC (Revised Jan. 2019)



# **Technical Rejection Criteria Validation Process**

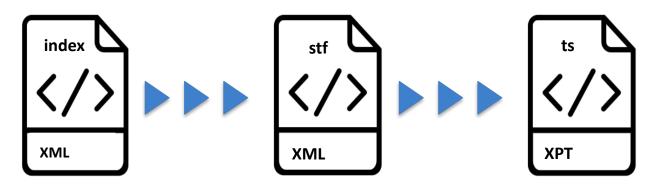
# **SDTRC High Level Validation Process (Revised Oct. 2019)**





#### **eCTD Backbone Files**





- Leaf ID

File Path

- File Name

Leaf ID

STF Study ID

- File-Tag

TS STUDYID

or SPREFID

Study Start Date

#### eCTD Backbone Files (index.xml)





```
<m5-3-5-1-study-reports-of-controlled-clinical-studies-pertinent-to-the-claimed-indication>
 <leaf checksum-type="MD5"</pre>
   xlink:type="simple"
   checksum="98723f7594b5500a861509547c384e46" operation="new"
   xlink:href="m5/53-clin-stud-rep/535-rep-effic-safety-stud/nausea/5351-stud-repcontr/study-s107/ts.xpt
   application-version="PDF 1.4"
                              INDEX LEAF ID
  ID="a103"x
     <title>S107 ts.xpt</title>
                                                                   FILE PATH FROM INDEX
</leaf>
<leaf checksum-type="MD5"</pre>
                                                                                         FILE NAME FROM INDEX
 xlink:type="simple"
  checksum="25d3b246313a9dbf688a48da2295260e" operation="new"
 xlink:href=" m5/53-clin-stud-rep/535-rep-effic-safety-stud/nausea/5351-stud-repcontr/study-s107/stf-s107.xml"
 version="stf version 2.2"
 ID="a104">
    <title>Study Tagging File for S107</title>
</leaf>
</m5-3-5-1-study-reports-of-controlled-clinical-studies-pertinent-to-the-claimed-indication>
```

#### eCTD Backbone File (stf.xml)

FDA

- From Index.xml
  - Leaf ID
  - File Path
  - File Name



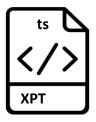
```
<?xml version="1.0" encoding="UTF-8"?>
<?xml-stylesheet type="text/xsl" href="../../../util/style/ich-stf-stylesheet.xsl"?>
<!DOCTYPE ectd:study SYSTEM "../../../util/dtd/ich-stf-v2-2.dtd">
<ectd:study xmlns:ectd="http://www.ich.org/ectd" xml:lang="en" dtd-version="2.2"</pre>
xmlns:xlink="http://www.w3.org/1999/xlink">
  <study-identifier>
  <title>Wonderdrug Study S107</title>
                                         STF STUDY ID
  kstudy-id>S107</study-id>
  <category name="type-of-control" info-type="ich">no-treatment</category>
  </study-identifier>
  <study-document>
                                                                     Index.xml LEAF ID
  <doc-content xlink:href="../../../index.xml#a103"</pre>
  <file-tag name="data-tabulation-dataset-sdtm" info-type="ich"/>
  </doc-content>
  </study-document>
</ectd:study>
                           FILE TAG ASSOCIATED TO STUDY DOCUMENT
```

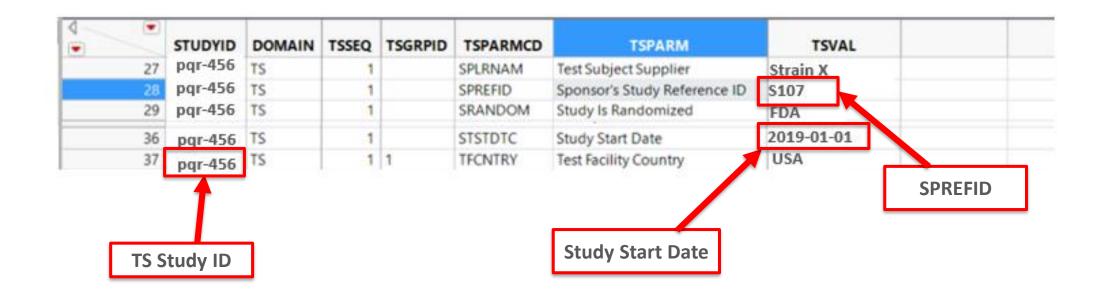
## eCTD Backbone Files (Full ts.xpt)

FDA

- From Index.xml
  - Leaf ID
  - File Path
  - File Name

- From STF.xml
  - Leaf ID
  - STF Study ID
  - File-Tag



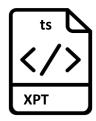


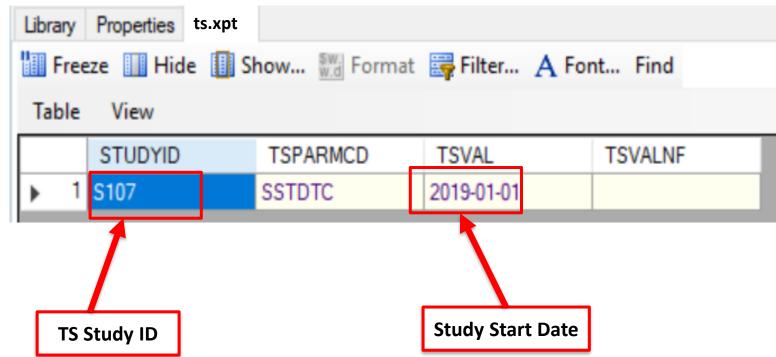
## eCTD Backbone Files (Simplified ts.xpt)

FDA

- ❖ From Index.xml
  - Leaf ID
  - File Path
  - File Name

- From STF.xml
  - Leaf ID
  - STF Study ID
  - File-Tag







# **Typical Error Examples and Demo of the Self-Check Worksheet**

#### **Tools for Industry**



FDA is developing tools and resources to help sponsors meet study data standard requirements and provide more transparency on the validation process









**Sponsor reviews Study Data Standard Resources and Tools for Industry:** 

- **Study Data Technical Rejection Criteria** with eCTD Validation Table and Example **Submission Scenarios**
- **Simplified TS File Generator Utility** (PhUSE)

OR **Simplified TS File Creation Guide** 

**Study Data Self-Check Worksheet &** Instructions







Gateway

**Sponsor submits a eCTD** and/or Standardized Data Sample to the FDA for validation

After review, FDA will provide with feedback, highlighting the errors found during the processing of the sample submission

Sponsor submits an application with study data



# **How Many People are aware of Study Data Self-Check Worksheet?**



**How Many People use Study Data Self-Check Worksheet?** 

## **Self-Check Worksheet**



Section	Contents
1	<ul> <li>Application &amp; Submission Information</li> <li>Provides high level information about the application and submission</li> </ul>
2	Provides more detailed information about the specific study
3	<ul><li>STF File Information (1789 Validation Error)</li><li>Provide information about STF file</li></ul>

#### Reference:

"Technical Rejection Criteria Self-Check Worksheet"

<a href="https://www.fda.gov/media/123098/download">https://www.fda.gov/media/123098/download</a>
"Technical Rejection Criteria Self-Check Worksheet

Instructions"

<a href="https://www.fda.gov/media/123099/download">https://www.fda.gov/media/123099/download</a>

DEPARTMENT OF HEALTH AND HUMAN SERVICES Food and Drug Administration  SELF-CHECK WORKSHEET FOR STUDY DATA PREPARATION  Note: This self-check Worksheet is not required for submissions of study data and is designed to help prepare newly submitted study data to FDA, i.e. studies for which no files have been previously submitted.
*Required Field
Section 1: Application & Submission Information
1a. FDA Center* 1b. Application Type* 1c. Application Number*
CDER CBER NDA BLA ANDA Commercial IND
1d. eCTD Sequence Number 1e. eCTD Submission Type 1f. eCTD Submission Sub Type
Note: Repeat Sections 2 through 5 for each study included in the submission.
Section 2: Study Information
2a. Study ID*
(Study ID is the unique identifier across application documents. Therefore, the study ID must be consistent across all the files
being submitted for the same study, i.e. STF File, ts.xpt, dm.xpt, etc.)
2b. Is This the First Time Study Data is Being Submitted for This Study as Part of This Application?*
Yes No
If you answered "No" in Field 2b, do not proceed. This self-check worksheet is designed for newly submitted study data.
2c. Title of the Study 2d. Study Section - eCTD Heading (Example: m4-2-1-1)*
20. The of the oldy
2e. Module* 2f. Study Dataset Type(s)*
Nonclinical (m4) Clinical (m5) Tabulation Analysis Other
Section 3: Study Information
3a. Are Files Included in a Study Section? (Not Applicable to Sections 4.3, 5.2, 5.3.6, and 5.4)*
Yes No
If you answered "No" in Field 3a, and no files are included in a study section, excluding sections 4.3, 5.2, 5.3.6, and 5.4, then
Validation Rules 1734, 1735, 1736, and 1789 do not apply. Do not proceed.
3b. Is STF File Included?*  3c. Does STF File Reference all Associated Study Files?*  Referenced Validation
Yes         No             Yes         No             Error Number 1789
If you answered "No" in Fields 3b or 3c, Validation Rule 1789 FAILS. Do not proceed.
3d. Study ID in STF File*  3e. Does the Study ID in the STF File Match Field 2a?
Yes No
If you answered "No" in Field 3e, ensure the study ID is consistent across all the files being submitted for the same study.
FORM FDA 4061 (05/19) Page 1 of 3 P9C Publishing Servicon (1001) 441-4789 EF

# **Self-Check Worksheet (1734 Validation Error)**



Section	Contents
4	<ul> <li>TS File Information (1734 Validation Error)</li> <li>Provide information about ts.xpt file with study start date</li> </ul>

#### Reference:

"Technical Rejection Criteria Self-Check Worksheet"

<a href="https://www.fda.gov/media/123098/download">https://www.fda.gov/media/123098/download</a>
"Technical Rejection Criteria Self-Check Worksheet Instructions"

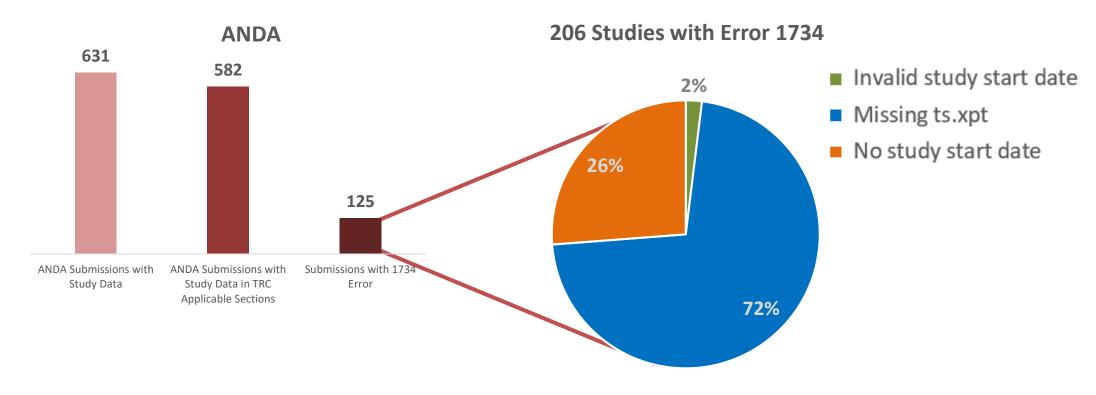
<a href="https://www.fda.gov/media/123099/download">https://www.fda.gov/media/123099/download</a>

Section	4: TS Fi	le Informatio	on								
4a. What		File is Requir			lelines i Requir		ow.)				
Study :	Start Date	Application T	Гуре	Data Ty	pe	Stu	udy Section	1	Required Type (by CDE	Center)	Required TS File Type (by Center) CBER
	to or on Dec-16	NDA, BLA, ANDA	or	Nonclini	cal	4.2.3.1	4.2.3.2, 4.	2.3.4	Simplifie	ed TS	Not Required
	to or on Dec-16	NDA, BLA, ANDA	or	Clinica	al	5.3.3.2,	5.3.1.2, 5. 5.3.3.3, 5. 5.3.5.1, 5.3	3.3.4,	Simplifie	ed TS	Simplified TS
	to or on Dec-17	Commercial	IND	Nonclini	cal	4.2.3.1	4.2.3.2, 4.	2.3.4	Simplifie	ed TS	Not Required
	to or on Dec-17	Commercial	IND	Clinica	al	5.3.3.2,	5.3.1.2, 5. 5.3.3.3, 5. 5.3.5.1, 5.3	3.3.4,	Not Rec	juired	Not Required
After 1	7-Dec-16	NDA, BLA, ANDA	or	Nonclini	cal	4.2.3.1	4.2.3.2, 4.	2.3.4	Full	rs	Not Required
After 1	7-Dec-16	NDA, BLA, ANDA	or	Clinica	ıl	5.3.3.2,	5.3.1.2, 5. 5.3.3.3, 5. 5.3.5.1, 5.3	3.3.4,	Full	rs	Full TS
After 1	7-Dec-17	Commercial	IND	Nonclini	cal	4.2.3.1	4.2.3.2, 4.	2.3.4	Full	rs	Not Required
After 1	7-Dec-17	Commercial	IND	Clinica	il	5.3.3.2,	5.3.1.2, 5. 5.3.3.3, 5. 5.3.5.1, 5.3	3.3.4,	Not Rec	uired	Not Required
If you an	swered "No	t Required" in I	Field 4a,	then Valid	fation F	Rules 1734,	1735, and	1736 do	not apply.	Do not p	proceed.
4b. Is TS	File Includ	led?*									enced Validation Number 1734
If you an	swered "No	" in Field 4b, \	/alidation	Rule 173	4 FAIL:	S. Do not p	roceed.				
4c. Study	/ ID in TS F	île*									
4d. Does	Study ID in	n STF (Field 3d	i) & TS Fi	les Match	?						enced Validation Number 1734
		o" in Field 4d, \	/alidation	Rule 173	4 FAIL	S. Do not p	roceed.				
4e. Stud	y Start Date	in TS File			4f. If	Study Start	Date Exis	ts, Is it Va	alid?		enced Validation
4a. If Stu	dv Start Da	ite does not Ex	ist. What	is the Sta		es No ception Cod				Error	Number 1734
	,					,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	not have a ILS. Do not	Study Start Da proceed.	ate in Fiel	d 4e and	you do	not have a	stated Ex	ception C	ode in Fiel	ld 4g, Va	alidation Rule
Or, if you	answered	"No" in Field 4	f, Validati	on Rule 1	734 FA	ILS. Do no	t proceed.				

## CY2019 (Q1-Q3) CDER Error Reasons for Validation Rule 1734



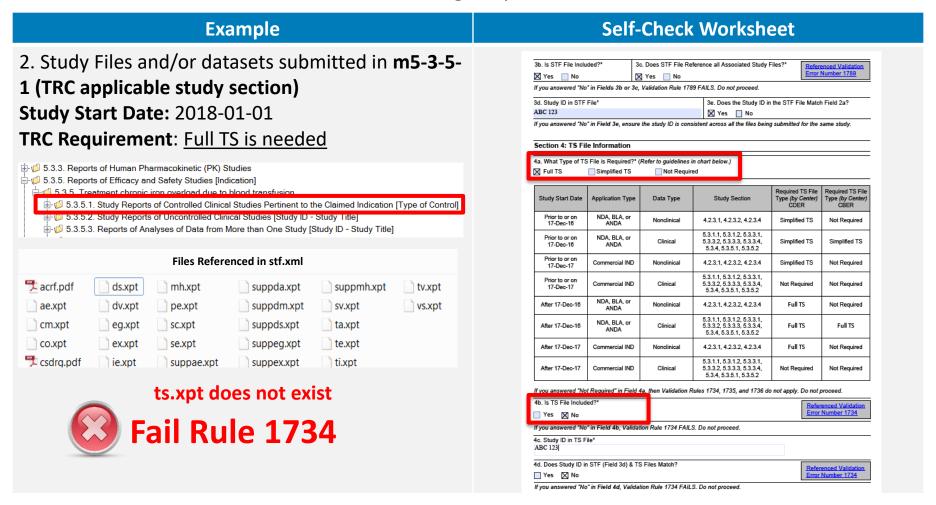
- ❖ A dataset named ts.xpt with information on Study Start Date (SSD) must be present for each study
- Common error reason for ANDAs:
  - A missing ts.xpt file
  - A missing study start date in the ts.xpt







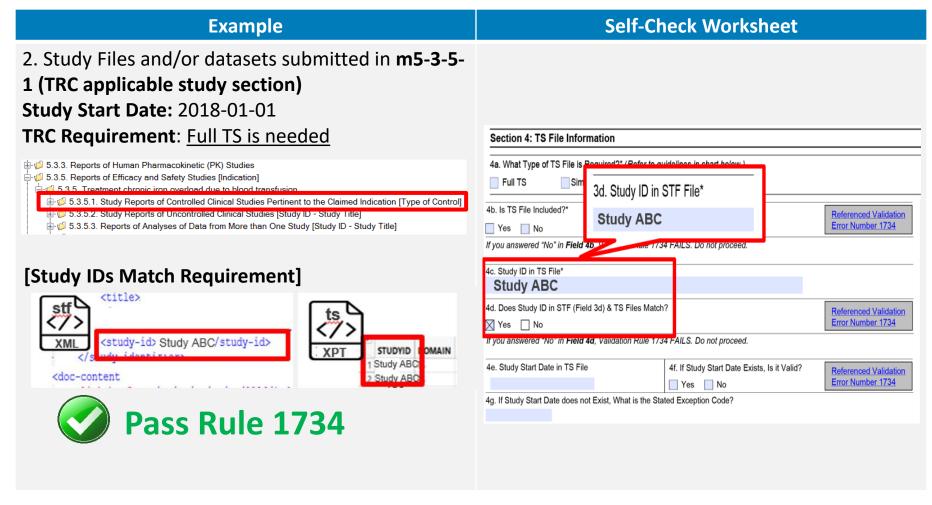
- Trial Summary (TS) dataset (ts.xpt) with information on study start date must be present for required sections
- 72% of studies with 1734 error are because of a missing ts.xpt file







- Trial Summary (TS) dataset (ts.xpt) with information on study start date must be present for required sections
- 72% of studies with 1734 error are because of a missing ts.xpt file







- Trial Summary (TS) dataset (ts.xpt) with information on study start date must be present for required sections
- ❖ 26% of studies with 1734 error are because of invalid study start date

Example	Self-Check Worksheet
<ul><li>2. Study Files and/or datasets submitted in m5-3-5-1 (TRC applicable study section)</li><li>Study Start Date: 2018-01-01</li><li>TRC Requirement: Full TS is needed</li></ul>	Section 4: TS File Information
[Study Date Format Requirement] • yyyy-mm-dd	4a. What Type of TS File is Required?* (Refer to guidelines in chart below.)  ☐ Full TS ☐ Simplified TS ☐ Not Required  4b. Is TS File Included?* ☐ Yes ☐ No ☐ Referenced Validation ☐ Error Number 1734
TS.XPT	If you answered "No" in Field 4b, Validation Rule 1734 FAILS. Do not proceed.
SSTDTC Study Start Date 2018-01-01	4c. Study ID in TS File* Study ABC
Pass Rule 1734	4d. Does Study ID in STF (Field 3d) & TS Files Match?    Yes





Section	Contents
	Standardized Dataset Information
	(1735 & 1736 Validation Error)
5	Provide information about SEND or STDM
	and/or ADaM dataset and define.xml
	Provide information about STF File-tags

#### Reference:

"Technical Rejection Criteria Self-Check Worksheet"

<a href="https://www.fda.gov/media/123098/download">https://www.fda.gov/media/123098/download</a>
"Technical Rejection Criteria Self-Check Worksheet Instructions"

<a href="https://www.fda.gov/media/123099/download">https://www.fda.gov/media/123099/download</a>

5a. Are Standardized D Yes 🔲 No	Datasets Required?*			
	Study Start Date	Application Type	Standardized Dataset Required?	ds
	Prior to or on 17-Dec-16	NDA, BLA, or ANDA	Not Required	
	After 17-Dec-16	NDA, BLA, or ANDA	Required	
	Prior to or on 17-Dec-17	Commercial IND	Not Required	
L	After 17-Dec-17	Commercial IND	Required	
Do not proceed. Fields 5b-5e are appli (SDTM), and Fields 5j	in Field 5a, standardized da cable to nonclinical tabulatio -5m are applicable to clinica in Commercial INDs standal	n datasets (SEND), Fields Il analysis datasets (ADaM).	5f-5i are applicable to clir	ical tabulation datasets
	chnical rejection criteria will			mer me date didied,
Tabulation (SDTM data	asets)			
of. Is DM File Included	?* 5g. Is Define File	Included?*		Defensed Velidere
Yes No	Yes No		to Fields 5h and 5i for V	Referenced Validation Error Number 1736 alidation Rule 1735.
If you answered "No" in 5h. Are the STF File-Ta		Rule 1736 FAILS. Proceed		Error Number 1736
If you answered "No" in 5h. Are the STF File-Ta	n Fields 5f or 5g, Validation	Rule 1736 FAILS. Proceed		Error Number 1736  alidation Rule 1735.  Referenced Validation
if you answered "No" in 5h. Are the STF File-Ta Yes No No No	n Fields 5f or 5g, Validation	Rule 1736 FAILS. Proceed 'data-tabulation-dataset-sdt ulation-data-definition?'		Error Number 1736  alidation Rule 1735.  Referenced Validation
If you answered "No" in  Sh. Are the STF File-To  Yes No  No  Si. Is the STF File-Tag  Yes No  If you answered "No" in	n Fields 5f or 5g, Validation ags for the SDTM Datasets for the Define File "data-tab in Fields 5h or 5i, Validation	Rule 1736 FAILS. Proceed 'data-tabulation-dataset-sdt ulation-data-definition?'		Error Number 1736  alidation Rule 1735.  Referenced Validation
ff you answered "No" if  5h. Are the STF File-Ti  Yes No  5i. Is the STF File-Tag  Yes No  If you answered "No" if  Analysis (ADaM datase	n Fields 5f or 5g, Validation ags for the SDTM Datasets for the Define File "data-tab in Fields 5h or 5i, Validation eto)	Rule 1736 FAILS. Proceed  'data-tabulation-dataset-sdt  ulation-data-definition?*  Rule 1735 FAILS.		Error Number 1735.  Referenced Validation Error Number 1735
If you answered "No" in  5h. Are the STF File-Ta  Yes No  5i. Is the STF File-Tag  Yes No	n Fields 5f or 5g, Validation ags for the SDTM Datasets for the Define File "data-tab in Fields 5h or 5i, Validation eta)	Rule 1736 FAILS. Proceed  'data-tabulation-dataset-sdt  ulation-data-definition?*  Rule 1735 FAILS.  Included?*		Error Number 1736  alidation Rule 1735.  Referenced Validation
ff you answered "No" in the STF File-Ts.  Yes No Si. Is the STF File-Tag.  Yes No If you answered "No" in Analysis (ADaM datasst	n Fields 5f or 5g, Validation ags for the SDTM Datasets for the Define File "data-tab n Fields 5h or 5i, Validation ets) ed?"  5k. Is Define File	Rule 1736 FAILS. Proceed  'data-tabulation-dataset-sdt  ulation-data-definition?'  Rule 1735 FAILS.  Included?'	m*?*	Error Number 1735  Referenced Validation Error Number 1735  Referenced Validation Error Number 1735
ff you answered "No" in  Sh. Are the STF File-Ti  Yes No  Si. Is the STF File-Tag  Yes No  If you answered "No" in  You in the state of	n Fields 5f or 5g, Validation ags for the SDTM Datasets for the Define File "data-tab in Fields 5h or 5i, Validation teta) ed?"  5k. Is Define File Yes No.	Rule 1736 FAILS. Proceed  'data-tabulation-dataset-sdt  ulation-data-definition?'  Rule 1735 FAILS.  Included?'  Rule 1736 FAILS. Proceed	m*?*	Error Number 1735  Referenced Validation Error Number 1735  Referenced Validation Error Number 1735
ff you answered "No" in  Sh. Are the STF File-Ti  Yes No  Si. Is the STF File-Tag  Yes No  If you answered "No" in  You in the state of	n Fields 5f or 5g, Validation ags for the SDTM Datasets for the Define File "data-tab in Fields 5h or 5i, Validation eta)  5k, Is Define File Yes No	Rule 1736 FAILS. Proceed  'data-tabulation-dataset-sdt  ulation-data-definition?'  Rule 1735 FAILS.  Included?'  Rule 1736 FAILS. Proceed	m*?*	Error Number 1735  Alidation Rule 1735.  Referenced Validation Error Number 1735  Referenced Validation Error Number 1735  Alidation Rule 1735.
iff you answered "No" in the STF File-Tian Yes No Si. Is the STF File-Tian Yes No Si. Is the STF File-Tag Yes No If you answered "No" in Analysis (ADaM dataset Sp. Is ADSL File Included Yes No If you answered "No" in the STF File-Tag Yes No	n Fields 5f or 5g, Validation ags for the SDTM Datasets for the Define File "data-tab in Fields 5h or 5i, Validation eta)  5k, Is Define File Yes No	Rule 1736 FAILS. Proceed  'data-tabulation-dataset-sdu ulation-data-definition?'  Rule 1735 FAILS.  Included?'  Rule 1736 FAILS. Proceed analysis-dataset-adam'?'	m*?*	Error Number 1735  Referenced Validation Error Number 1735  Referenced Validation Error Number 1735
iff you answered "No" in the STF File-Tian Yes No Si. Is the STF File-Tian Yes No Si. Is the STF File-Tag Yes No If you answered "No" in Analysis (ADaM dataset Sp. Is ADSL File Included Yes No If you answered "No" in the STF File-Tag Yes No	n Fields 5f or 5g, Validation ags for the SDTM Datasets of the Define File "data-tab for the Define File "data-tab in Fields 5h or 5i, Validation eta)  5k. Is Define File yes No. n Fields 5j or 5k, Validation ags for the ADaM Datasets"	Rule 1736 FAILS. Proceed  'data-tabulation-dataset-sdu ulation-data-definition?'  Rule 1735 FAILS.  Included?'  Rule 1736 FAILS. Proceed analysis-dataset-adam'?'	m*?*	Error Number 1735.  Referenced Validation Error Number 1735.  Referenced Validation Error Number 1735.  Referenced Validation Error Number 1736.  Referenced Validation Rule 1735.

#### Fillable Self-Check Worksheet

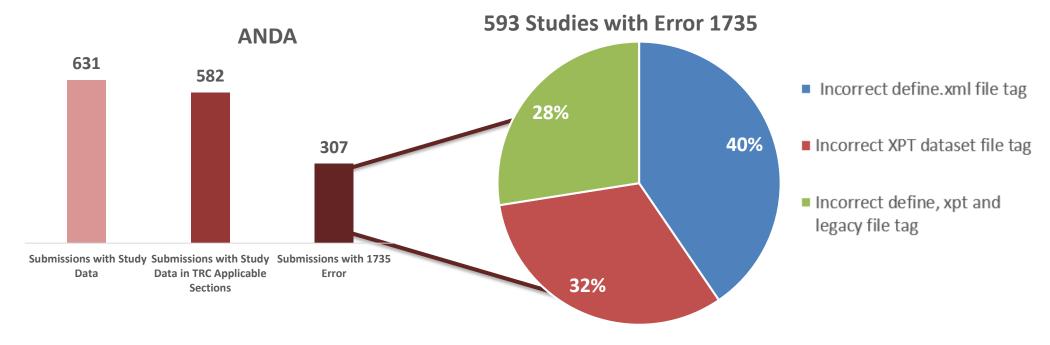
## CY2019 (Q1-Q3) CDER Error Reasons for Validation Rule 1735



The correct STF file tags must be used for all standardized datasets and corresponding define.xml files

#### Common error reason for ANDAs:

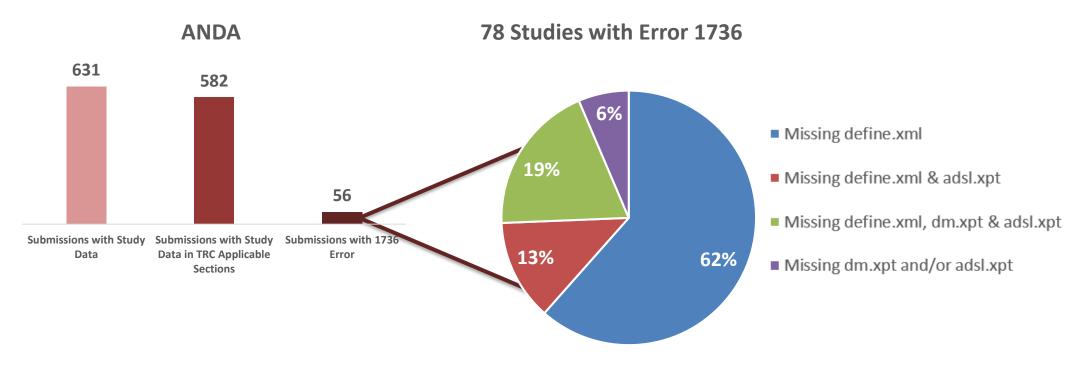
- An incorrect file tag for a define.xml file
- An incorrect file tag for a XPT file



## CY2019 (Q1-Q3) CDER Error Reasons for Validation Rule 1736



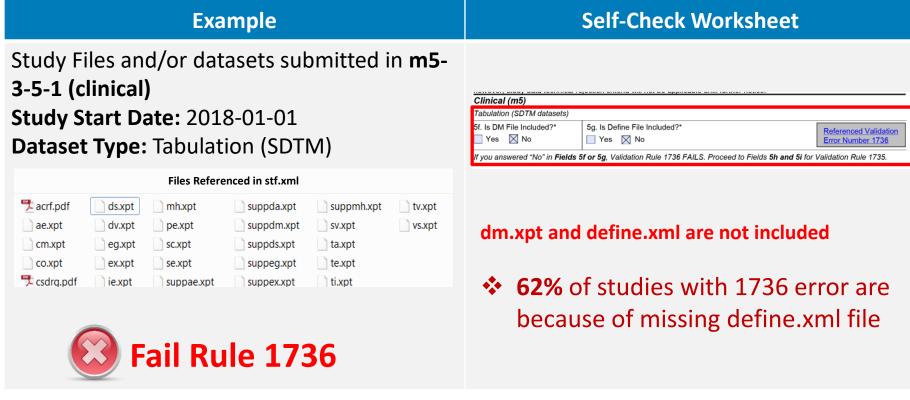
- For SEND data, a DM dataset and define.xml must be submitted
- For SDTM data, a DM dataset and define.xml must be submitted
- For ADaM data, an ADSL dataset and define.xml must be submitted
- Common error reason for ANDAs:
  - A missing define.xml files
  - A missing define.xml, dm.xpt, and adsl.xpt files







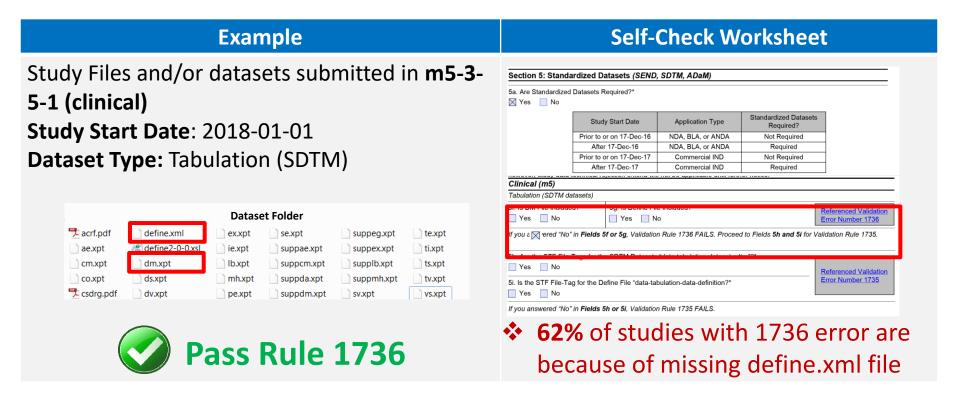
- Rule 1735: Correct STF file-tags must be used for all standardized datasets and corresponding define.xml files in required sections
- Rule 1736: For SEND data, a DM dataset and define xml must be submitted in required sections
  - For SDTM data, a DM dataset and define.xml must be submitted in required sections
  - For ADaM data, an ADSL dataset and define.xml must be submitted in required sections



## TRC Validation Rule 1735 and 1736 (Section 5f-5g)



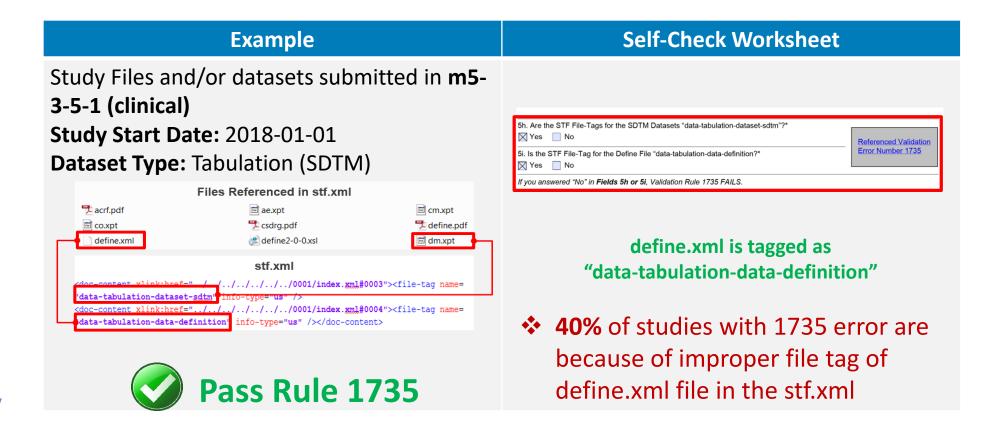
- Rule 1735: Correct STF file-tags must be used for all standardized datasets and corresponding define.xml files in required sections
- Rule 1736: For SEND data, a DM dataset and define xml must be submitted in required sections
  - For SDTM data, a DM dataset and define.xml must be submitted in required sections
  - For ADaM data, an ADSL dataset and define.xml must be submitted in required sections





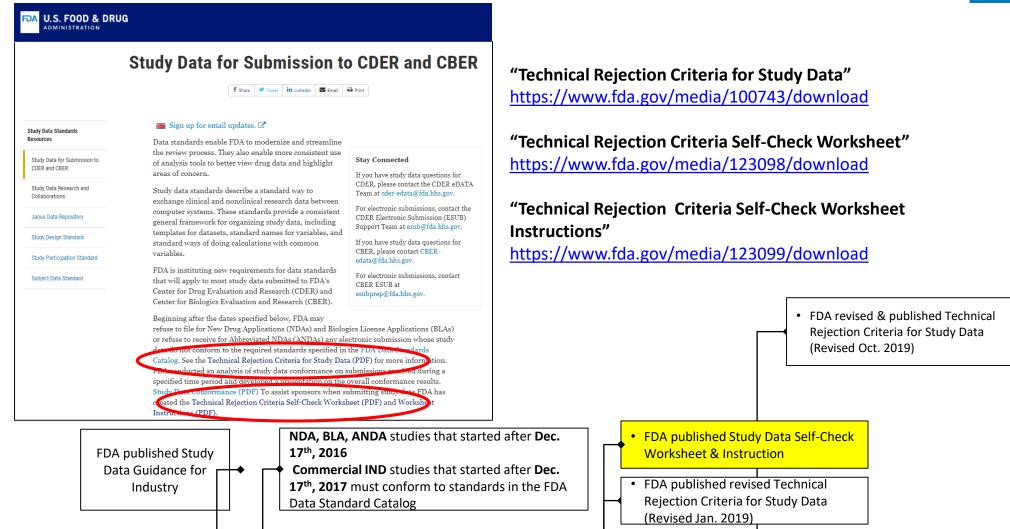


- Rule 1735: Correct STF file-tags must be used for all standardized datasets and corresponding define.xml files in required sections
- Rule 1736: For SEND data, a DM dataset and define xml must be submitted in required sections
  - For SDTM data, a DM dataset and define.xml must be submitted in required sections
  - For ADaM data, an ADSL dataset and define.xml must be submitted in required sections



#### **Published SDTRC and Self-Check Worksheet**





www.fda.gov

2018

Jan. 2019

Oct. 2019

Dec. 2017

Dec. 2016

2015

Dec. 2014

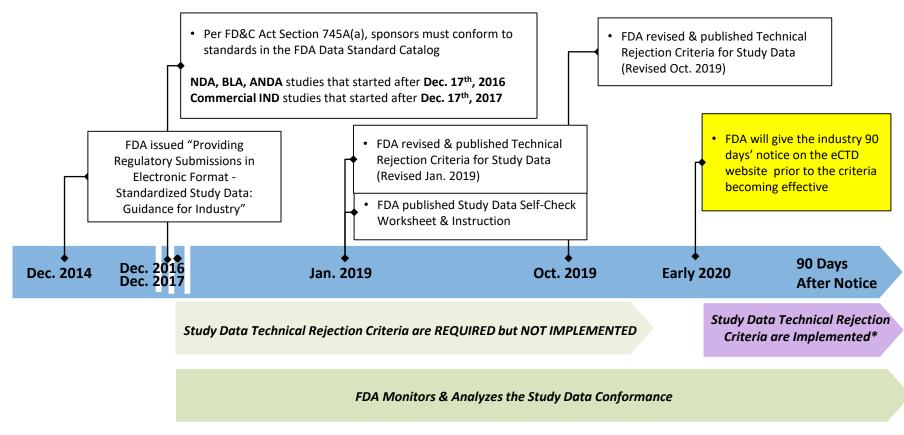


# **Implementation Timeline**

#### **Implementation Timeline**



FDA published Revised Study Data Technical Rejection Criteria (Revised Oct. 2019) and Study Data Self-Check Worksheet to assist sponsors with the TRC Conformance



<sup>\*</sup> Note: When a submission is technically-rejected, the submission sequence is not transferred into the FDA electronic document rooms

## **Questions**



- For questions about submitting study data please contact: edata@fda.hhs.gov
- For questions about eCTD, including stf.xml and file-tags, please contact: esub@fda.hhs.gov



#### Reference



- "Providing Regulatory Submissions In Electronic Format Standardized Study Data: Guidance For Industry" https://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM292334.pdf
- "Providing Regulatory Submissions In Electronic Format Submissions Under Section 745a(a) Of The FD&C Act: Guidance For Industry" https://www.fda.gov/downloads/Drugs/GuidanceComplianceRegulatoryInformation/Guidances/UCM384686.pdf
- "Technical Rejection Criteria For Study Data" <a href="https://www.fda.gov/media/100743/download">https://www.fda.gov/media/100743/download</a>
- "Study Data Technical Conformance Guide" https://www.fda.gov/media/88173/download
- "FDA Data Standards Catalog" https://www.fda.gov/ForIndustry/DataStandards/StudyDataStandards/default.htm
- "Technical Denunciation Criteria Self-Check Worksheet" <a href="https://www.fda.gov/media/123098/download">https://www.fda.gov/media/123098/download</a>
- "Technical Rejection Criteria Self-Check Worksheet Instructions" https://www.fda.gov/downloads/ForIndustry/DataStandards/StudyDataStandards/UCM630733.pdf
- For FDA instruction of Study Data submission, see the FDA "Study Data for Submission to CDER and CBER" <a href="https://www.fda.gov/industry/study-data-standards-resources/study-data-submission-cder-and-cber">https://www.fda.gov/industry/study-data-standards-resources/study-data-submission-cder-and-cber</a>
- For the full list of Study Data standards, see the FDA "Study Data Standards Resources" http://www.fda.gov/ForIndustry/DataStandards/StudyDataStandards
- PhUSE utility for Simplified TS File Creation https://geotiger.shinyapps.io/07\_genTS/

#### **Acknowledgements**



The author would like to thank Nitin Guptan, Ryan Olivett, Lina Cong, Jiang Xu, Jonathan Resnick, Ethan Chen, Jeffry Florian, Lisa Lin, Gang Wang, and other FDA staff for their time and effort in helping collect and analyze data and information as presented in this presentation

