FDA View:
Technical Rejection Criteria for Study Data

Presented to: PhUSE US Connect 2019

Ethan Chen, Office of Business Informatics, CDER
Virginia Hussong, Data Standards Program, CBER

February 27, 2019
Disclaimer

The views and opinions presented here represent those of the speakers and should not be considered to represent advice or guidance on behalf of the U.S. Food and Drug Administration.
Topics

- Study Data Technical Rejection Criteria Conformance Statistics from Previous Analysis
- Revised Technical Rejection Criteria for Study Data
- Updated Study Data Conformance Analysis
- New Tools for Industry
- Implementation Timeline
- Summary
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.


❖ 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
Study Data Technical Rejection Criteria Conformance Statistics from Previous Analysis
Study Data Conformance from Previous Analysis

- **Study Data was assessed for:**
  - NDA, BLA, and ANDA Submissions received from 12/18/2016 to 3/31/2018
  - Commercial IND Submissions received from 12/18/2017 to 3/31/2018
  - No duplicates

- **Conformance was checked against the existing two high-level validation rules as described in the Technical Rejection Criteria for Study Data**
  - 1734 – TS Dataset & Correct Study Start Date must be present
  - 1736 – DM Dataset, ADSL Dataset and define.xml must be present
## Overall Conformance Statistics from Previous Analysis

<table>
<thead>
<tr>
<th>Error</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1734</td>
<td>Trial Summary (TS) dataset must be present for each study in eCTD section 4.2 and 5.3</td>
</tr>
<tr>
<td>1736</td>
<td>Demographic dataset (DM) and the define.xml must be submitted in Module 4 for nonclinical data; DM dataset, the subject-level analysis dataset (ADSL) and define.xml must be submitted in Module 5 for clinical data</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th></th>
<th>NDA</th>
<th>ANDA</th>
<th>BLA</th>
<th>Comm. IND</th>
<th>All</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Number of Submissions with Study Data</td>
<td>1,126</td>
<td>1,446</td>
<td>473</td>
<td>176</td>
<td>3,221</td>
</tr>
<tr>
<td>Total Number Submissions with Critical Errors</td>
<td>302</td>
<td>551</td>
<td>138</td>
<td>41</td>
<td>1,032</td>
</tr>
<tr>
<td>Error 1734</td>
<td>290</td>
<td>506</td>
<td>137</td>
<td>35</td>
<td>968</td>
</tr>
<tr>
<td>Error 1736</td>
<td>14</td>
<td>63</td>
<td>1</td>
<td>6</td>
<td>84</td>
</tr>
<tr>
<td>Failure Rate (% among submissions with Study Data)</td>
<td>26.8%</td>
<td>38.1%</td>
<td>29.2%</td>
<td>23.3%</td>
<td>32.0%</td>
</tr>
</tbody>
</table>

**Notes:**

1. One drug application could contain multiple submissions throughout its review life-cycle, such as original, supplements, and amendments
2. Analysis includes NDA, BLA, and ANDA submissions received by CDER between 12/18/2016 and 3/31/2018, and commercial IND submissions received by CDER between 12/18/2017 and 3/31/2018
3. Validation of error 1736 of a study is not performed if a study has Error 1734
4. A submission with multiple studies can report both Errors 1734 and 1736. In this instance, the submission is counted only once at the submission level when calculating failure rate

**Reference:** FDA Study Data Technical Rejection Criteria (Revised May 2018)
Revised Study Data Technical Rejection Criteria
# CY2018 Conformance Analysis for Validation Errors 1734 & 1736

## Error Description

<table>
<thead>
<tr>
<th>Error</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1734</td>
<td>Trial Summary (TS) dataset (ts.xpt) with information on study start date must be present for required sections*</td>
</tr>
</tbody>
</table>
| 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* |

* Refer to the latest Technical Rejection Criteria for Study Data

<table>
<thead>
<tr>
<th>Error</th>
<th>NDA</th>
<th>ANDA</th>
<th>BLA</th>
<th>Comm. IND</th>
<th>All</th>
</tr>
</thead>
<tbody>
<tr>
<td>1734</td>
<td>185</td>
<td>186</td>
<td>48</td>
<td>96</td>
<td>515</td>
</tr>
<tr>
<td>1736</td>
<td>16</td>
<td>88</td>
<td>2</td>
<td>18</td>
<td>124</td>
</tr>
</tbody>
</table>

### Total Number of Submissions with Study Data

<table>
<thead>
<tr>
<th></th>
<th>NDA</th>
<th>ANDA</th>
<th>BLA</th>
<th>Comm. IND</th>
<th>All</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Number of Submissions with Critical Errors</td>
<td>195</td>
<td>266</td>
<td>50</td>
<td>113</td>
<td>624</td>
</tr>
</tbody>
</table>

### Failure Rate (% among submissions with Study Data)

<table>
<thead>
<tr>
<th>Error</th>
<th>NDA</th>
<th>ANDA</th>
<th>BLA</th>
<th>Comm. IND</th>
<th>All</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Number of Submissions with Study Data</td>
<td>877</td>
<td>1078</td>
<td>291</td>
<td>649</td>
<td>2895</td>
</tr>
<tr>
<td>Total Number Submissions with Critical Errors</td>
<td>195</td>
<td>266</td>
<td>50</td>
<td>113</td>
<td>624</td>
</tr>
<tr>
<td>Error 1734</td>
<td>185</td>
<td>186</td>
<td>48</td>
<td>96</td>
<td>515</td>
</tr>
<tr>
<td>Error 1736</td>
<td>16</td>
<td>88</td>
<td>2</td>
<td>18</td>
<td>124</td>
</tr>
<tr>
<td>Failure Rate (% among submissions with Study Data)</td>
<td>22.2%</td>
<td>24.7%</td>
<td>17.2%</td>
<td>17.4%</td>
<td>21.6%</td>
</tr>
</tbody>
</table>

### Notes:

1. Analysis includes NDA, BLA, ANDA and Commercial IND submissions received by CDER between 1/1/2018 and 12/31/2018
2. Validation of error 1736 is not performed if a study has Error 1734
3. A submission with multiple studies can report both Errors 1734 and 1736. In this instance, the submission is counted only once at the submission level when calculating failure rate
4. Analysis is conducted according to the revised TRC (Revised Jan. 2019)

**Reference:** FDA Study Data Technical Rejection Criteria (Revised Jan. 2019)
Submissions with study data received during CY2018 showed overall decreases in Validation Errors 1734 and 1736 compared to prior years’ average error rate.

Notes:
(1) Prior year(s) average uses data from the previous analysis, but excludes any submissions received in 2018
(2) CY2018 analysis is conducted according to the revised TRC (Revised Jan. 2019)
Summary of 1734 and 1736 Conformance Trend

- The failure rate for Errors 1734 and 1736 for all application types received in CY2018 is 21.6%

- Overall conformance for Errors 1734 and 1736 improved compared to the previous analysis (previous years’ average of 68.0% vs. CY2018’s average of 78.4%)

- FDA has identified the need to provide additional clarifications on TRC to help Industry meet study data requirements and continue to improve the conformance trend over time
  - Revision to TRC
    - Details on 1734 and 1736
    - Emphasis on Error 1735
    - Inclusion of Error 1789
    - Inclusion of Table 1 eCTD Technical Rejection Criteria for Study Data Expectation
    - Inclusion of Appendix 1 Examples of Validation Findings in Study Data
    - Inclusion of Appendix 2 Examples of ts.xpt datasets

- **Additional Tools:** Self-Check Worksheet and Instructions for Study Data
### Summary of Latest Revisions to the Technical Rejection Criteria for Study Data (Revised Jan. 2019)

<table>
<thead>
<tr>
<th>Error</th>
<th>Description (Reference to FDA Study Data Technical Rejection Criteria May 2018 version)</th>
<th>Severity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1734</td>
<td>Trial Summary (TS) dataset must be present for each study in eCTD section 4.2  and 5.3</td>
<td>High</td>
</tr>
<tr>
<td>1736</td>
<td>Demographic dataset (DM) and the define.xml must be submitted in Module 4 for nonclinical data; DM dataset, the subject-level analysis dataset (ADSL) and define.xml must be submitted in Module 5 for clinical data</td>
<td>High</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Error</th>
<th>Description (Reference to FDA Study Data Technical Rejection Criteria Jan. 2019 version)</th>
<th>Severity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1734</td>
<td>Trial Summary (TS) dataset (ts.xpt) with information on study start date must be present for required sections*</td>
<td>High</td>
</tr>
<tr>
<td>1735</td>
<td>Correct STF file-tags must be used for all standardized datasets and corresponding define.xml files in required sections*</td>
<td>High</td>
</tr>
<tr>
<td>1736</td>
<td>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*</td>
<td>High</td>
</tr>
<tr>
<td>1789**</td>
<td>STF Files must be submitted in a study section. STF s are not required for required sections*</td>
<td>High</td>
</tr>
</tbody>
</table>

* Refer to the latest Technical Rejection Criteria for Study Data

** From Providing Regulatory Submissions in Electronic Format – Certain Human Pharmaceutical Product Applications and Related Submissions Using the eCTD Specification, Section J: Datasets must only be provided in modules 3, 4, or 5 and not in modules 1 or 2

Reference:
FDA Study Data Technical Rejection Criteria (Revised May 2018)
FDA Study Data Technical Rejection Criteria (Revised Jan. 2019)
Folder Structure for Module 4 and Module 5

- STF files and their associated datasets should be organized into a specific file directory structure and a specific headings and hierarchy structure.

<table>
<thead>
<tr>
<th>Module 4</th>
<th>Module 5</th>
</tr>
</thead>
<tbody>
<tr>
<td>Standardized Data</td>
<td>Legacy Data</td>
</tr>
</tbody>
</table>

STF for a specific study should be placed in the module folder with the corresponding study files.

References:
FDA Study Data Technical Conformance Guide (Appendix E; Version 4.2, October 2018)
ICH M2 EWG: The eCTD Backbone File Specification for Study Tagging Files
Additional Details for Error 1734

- **Full ts.xpt**
  Sponsors should submit a dataset named ‘ts.xpt’ following published CDISC Standard and FDA Study Data Technical Conformance Guide

- **Simplified ts.xpt**
  Sponsors should submit a dataset named ‘ts.xpt’ with four variables: STUDYID, TSPARMCD, TSVAL, AND TSVALNF

### Example of ts.xpt Datasets

<table>
<thead>
<tr>
<th>STUDYID</th>
<th>TSPARMCD</th>
<th>TSVAL</th>
<th>TSVALNF</th>
</tr>
</thead>
</table>
| • Study ID in STF File | • SSTDTC for a clinical study  
• STSTDTC for a nonclinical study | • Format: yyyy-mm-dd  
• Left blank when study start date is not available | • Left blank when study start date is provided in TSVAL  
• Exception code as specified in the ISO 21090 Standard when study start date is not available |

### References:
- FDA Study Data Technical Conformance Guide (Appendices F & G; Version 4.2, October 2018)
- FDA Study Data Technical Rejection Criteria (Revised Jan. 2019)
# Study Data Requirements for Submissions

<table>
<thead>
<tr>
<th>Study Start Date</th>
<th>Application Type</th>
<th>Data Type</th>
<th>Study Sections</th>
<th>Expectation by Center</th>
</tr>
</thead>
<tbody>
<tr>
<td>Prior to or on 17-Dec-2017</td>
<td>Commercial INDs</td>
<td>Nonclinical</td>
<td>4.2.3.1, 4.2.3.2, 4.2.3.4</td>
<td>Rejection criteria will be applied; submit a simplified TS whether or not the study contains an xpt dataset (other than the ts.xpt)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clinical</td>
<td>5.3.1.1, 5.3.1.2, 5.3.3.1, 5.3.3.2, 5.3.3.3, 5.3.3.4, 5.3.4, 5.3.5.1, 5.3.5.2</td>
<td>Rejection criteria will not be applied</td>
</tr>
<tr>
<td>After 17-Dec-2017</td>
<td>Commercial INDs</td>
<td>Nonclinical</td>
<td>4.2.3.1, 4.2.3.2, 4.2.3.4</td>
<td>Rejection criteria will be applied; submit a full TS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clinical</td>
<td>5.3.1.1, 5.3.1.2, 5.3.3.1, 5.3.3.2, 5.3.3.3, 5.3.3.4, 5.3.4, 5.3.5.1, 5.3.5.2</td>
<td>Rejection criteria will not be applied</td>
</tr>
<tr>
<td>Prior to or on 17-Dec-2016</td>
<td>NDA, BLA, ANDA</td>
<td>Nonclinical</td>
<td>4.2.3.1, 4.2.3.2, 4.2.3.4</td>
<td>Rejection criteria will be applied; submit a simplified TS whether or not the study contains an xpt dataset (other than the ts.xpt)</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clinical</td>
<td>5.3.1.1, 5.3.1.2, 5.3.3.1, 5.3.3.2, 5.3.3.3, 5.3.3.4, 5.3.4, 5.3.5.1, 5.3.5.2</td>
<td>Rejection criteria will be applied; submit a simplified TS if the study contains an xpt dataset (other than the ts.xpt)</td>
</tr>
<tr>
<td>After 17-Dec-2016</td>
<td>NDA, BLA, ANDA</td>
<td>Nonclinical</td>
<td>4.2.3.1, 4.2.3.2, 4.2.3.4</td>
<td>Rejection criteria will be applied; submit a full TS</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Clinical</td>
<td>5.3.1.1, 5.3.1.2, 5.3.3.1, 5.3.3.2, 5.3.3.3, 5.3.3.4, 5.3.4, 5.3.5.1, 5.3.5.2</td>
<td>Rejection criteria will be applied; submit a full TS</td>
</tr>
</tbody>
</table>

**Reference:** FDA Study Data Technical Rejection Criteria (Revised Jan. 2019)
Emphasis on Errors 1735 and Inclusion of 1789

- Each submission typically contains many studies, an STF file is necessary to process study files into their corresponding studies; Accepting a submission where CDER cannot process the study tagging file will result in the reviewer seeing a list of files for which they do not know the study they belong to.

- If a study data file (e.g. define.xml) is not properly tagged in the STF file, it cannot be identified and located, resulting in Error 1736 being reported.

<table>
<thead>
<tr>
<th>Error</th>
<th>Description</th>
<th>Severity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1789</td>
<td>STF Files must be submitted in a study section. STF s are not required for required sections*</td>
<td>High</td>
</tr>
<tr>
<td>1735</td>
<td>Correct STF file-tags must be used for all standardized datasets and corresponding define.xml files in required sections*</td>
<td>High</td>
</tr>
</tbody>
</table>

* Refer to the latest Technical Rejection Criteria for Study Data

Updated Study Data Conformance Analysis
Study Data Conformance Analysis

- One drug application could contain multiple submissions throughout its review life-cycle, such as original, supplements, and amendments
- Each submission may contain more than one study
- Analysis includes submissions received by CDER between 1/1/2018 and 12/31/2018
- Validation of errors 1735 and 1736 is not performed if a study has Error 1734
- Analysis is conducted according to the revised TRC (Revised Jan. 2019)
### CY2018 Conformance Analysis of Submissions: Error 1789

<table>
<thead>
<tr>
<th>Error</th>
<th>Description</th>
<th>Severity Level</th>
</tr>
</thead>
<tbody>
<tr>
<td>1789</td>
<td>STF Files must be submitted in a study section. STF s are not required for required sections*</td>
<td>High</td>
</tr>
</tbody>
</table>

* Refer to the latest Technical RejectionCriteria for Study Data

<table>
<thead>
<tr>
<th></th>
<th>IND</th>
<th>NDA</th>
<th>BLA</th>
<th>ANDA</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total Number of Submission</td>
<td>79473</td>
<td>41077</td>
<td>11042</td>
<td>62695</td>
</tr>
<tr>
<td>Error 1789</td>
<td>193</td>
<td>43</td>
<td>1</td>
<td>225</td>
</tr>
<tr>
<td>Failure Rate (% among Total Number of Submission)</td>
<td><strong>0.24%</strong></td>
<td><strong>0.10%</strong></td>
<td><strong>&lt;0.01%</strong></td>
<td><strong>0.36%</strong></td>
</tr>
</tbody>
</table>
### CY2018 Conformance Analysis of IND, NDA, BLA and ANDA Submission Studies: Errors 1734, 1735 & 1736

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

---

* Refer to the latest Technical Rejection Criteria for Study Data

### Error Count and Error Rate

<table>
<thead>
<tr>
<th></th>
<th>IND</th>
<th>NDA</th>
<th>BLA</th>
<th>ANDA</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Nonclin</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>m4</td>
<td>883</td>
<td>403</td>
<td>12</td>
<td>N/A</td>
</tr>
<tr>
<td>m5</td>
<td>288</td>
<td>1810</td>
<td>206</td>
<td>1004</td>
</tr>
<tr>
<td><strong>Clin</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>m4</td>
<td>105</td>
<td>38</td>
<td>3</td>
<td>N/A</td>
</tr>
<tr>
<td>m5</td>
<td>98</td>
<td>390</td>
<td>51</td>
<td>673</td>
</tr>
<tr>
<td><strong>Total Number of Studies</strong></td>
<td>988</td>
<td>2218</td>
<td>229</td>
<td>1107</td>
</tr>
<tr>
<td><strong>Total Number Studies with Critical Errors</strong></td>
<td>105</td>
<td>38</td>
<td>3</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Error 1734</strong></td>
<td>65</td>
<td>33</td>
<td>2</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Error 1735</strong></td>
<td>36</td>
<td>6</td>
<td>0</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Error 1736</strong></td>
<td>11</td>
<td>1</td>
<td>1</td>
<td>N/A</td>
</tr>
<tr>
<td><strong>Error Rate (% among Total Number of Studies)</strong></td>
<td><strong>11.9%</strong></td>
<td><strong>9.7%</strong></td>
<td><strong>25.0%</strong></td>
<td>N/A</td>
</tr>
</tbody>
</table>
Tools for Industry

FDA has developed tools to help sponsors meet updated study data standard requirements and provide more transparency on the validation process.

- **Sponsor reviews Study Data Standard Resources:**
  - Revised Study Data Technical Rejection Criteria with eCTD Validation Table
  - Study Data Self-Check Worksheet & Instruction

- **Sponsor submits a eCTD and/or Standardized Data Sample to the FDA for validation:**
  After review, FDA will provide feedback, highlighting the errors found during the processing of the sample submission.

- **Sponsor submits an application with study data**

1. **Revised Study Data Technical Rejection Criteria** (Revised Jan. 2019)
   **Purpose:** To clarify the requirements for eCTD Validation of submissions with study data and to provide examples ([Appendix 1 and 2](#)) to illustrate the requirements.

2. **TRC Self-Check Worksheet & Instruction**
   **Purpose:** To help sponsors understand criteria for submissions with study data to pass the updated TRC.

3. **eCTD and/or Standardized Data Sample Validation**
   **Purpose:** To help sponsors validate their sample submissions and receive feedback with identified errors.
Published Technical Rejection Criteria for Study Data & Self-Check Worksheet

“Technical Rejection Criteria for Study Data”

“Technical Rejection Criteria Self-Check Worksheet”

“Technical Rejection Criteria Self-Check Worksheet Instructions”
Selected Examples of Validation Findings in Study Data

1. A study prior to December 17, 2016 for NDAs, BLAs, and ANDAs (or December 17, 2017 for Commercial INDs), is submitted to FDA and the study files are referenced in a Study Tagging File (STF), a ts.xpt dataset is not included in the study. The Study Data Start Date cannot be determined, the study fails validation 1734.

2. A study in standardized format is submitted to FDA and the study files are referenced in a Study Tagging File (STF). The ADaM study in Module 5 contains a define.xml file and a adsl.xpt file and they are appropriately file tagged. The study passes validation 1736.

www.fda.gov
Overview of the Self-Check Worksheet

- Designed to walk sponsors through each step of TRC validation process
- Dynamically guides sponsors through study data requirements based on study information entered
- Designed to help the sponsors when they prepare study data to submit to the FDA for the first time

Reference: “Technical Rejection Criteria Self-Check Worksheet”
“Technical Rejection Criteria Self-Check Worksheet Instructions”
<table>
<thead>
<tr>
<th>Section</th>
<th>Contents</th>
<th>Example(s)</th>
</tr>
</thead>
</table>
| 1       | **Application & Submission Information**  
          - Provides high level information about the application and submission | 1a. FDA Center*:  
CDER  
CBER |
| 2       | **Study Information**  
          - Provides more detailed information about the specific study | 2a. Study ID*:  
2f. Study Dataset Type(s)*: Tabulation  
Analysis |
| 3       | **STF File Information**  
          (1789 Validation Error)  
          - Provide information about STF file | 3b. Is STF File Included?*  
Yes  
No  
3c. Does STF File Reference all Associated Study Files?*  
Yes  
No |
| 4       | **TS File Information**  
          (1734 Validation Error)  
          - Provide information about ts.xpt file with study start date | 4c. Study ID in TS File*:  
4d. Does Study ID in STF & TS Files Match?*  
Yes  
No |
| 5       | **Standardized Dataset Information**  
          (1735 & 1736 Validation Error)  
          - Provide information about SEND or STDM and/or ADaM dataset and define.xml  
          - Provide information about STF File-tags | 5f. Is DM File Included?*  
Yes  
No  
5g. Is Define File Included?*  
Yes  
No |

**Note:** Sections 2 through 5 are repeated for each study.

Reference: “Technical Rejection Criteria Self-Check Worksheet”

“Technical Rejection Criteria Self-Check Worksheet Instructions”
Implementation Timeline

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

- Per FD&C Act Section 745A(a), sponsors must conform to standards in the FDA Data Standard Catalog
  - NDA, BLA, ANDA studies that started after Dec. 17th, 2016
  - Commercial IND studies that started after Dec. 17th, 2017

- FDA issued “Providing Regulatory Submissions in Electronic Format - Standardized Study Data: Guidance for Industry”


- FDA published Study Data Self-Check Worksheet & Instruction

- FDA will give the industry 90 days’ notice on the eCTD website prior to the criteria becoming effective

- FDA Monitors & Analyzes the Study Data Conformance

Study Data Technical Rejection Criteria are REQUIRED but NOT IMPLEMENTED

FDA Monitors & Analyzes the Study Data Conformance

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

www.fda.gov
Summary

- Based on the revised TRC, about 21.6% all submissions were received with non-critical errors for 1734 and 1736.
- FDA published Study Data Self-Check Worksheet to help sponsors to follow the revised TRC.
- FDA requires the submission of standardized Study Data as defined in the FDA Data Standard Catalog.
- FDA has not rejected any submission that contains errors as reflected in this analysis.
- FDA plans to use technical rejection criteria to identify applications that are not fulfilling this requirement.

TIP

To avoid validation errors, it is important for sponsors and applicants to understand the requirements specified in guidance and recommendations for submitting study data in the Study Data Technical Conformance Guide.
References

- “Providing Regulatory Submissions In Electronic Format - Standardized Study Data: Guidance For Industry”
  HTTPS://WWW.FDA.GOV/DOWNLOADS/DRUGS/GUIDANCECOMPLIANCE/REGULATORYINFORMATION/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/GUIDANCECOMPLIANCE/REGULATORYINFORMATION/GUIDANCES/UCM384686.PDF

- “Technical Rejection Criteria For Study Data”
  HTTPS://WWW.FDA.GOV/DOWNLOADS/FORINDUSTRY/DATASTANDARDS/STUDYDATASTANDARDS/UCM630740.PDF

- “Study Data Technical Conformance Guide”
  HTTPS://WWW.FDA.GOV/DOWNLOADS/FORINDUSTRY/DATASTANDARDS/STUDYDATASTANDARDS/UCM624939.PDF

- “FDA Data Standards Catalog”
  HTTPS://WWW.FDA.GOV/FORINDUSTRY/DATASTANDARDS/STUDYDATASTANDARDS/DEFAULT.HTM

- “Technical Rejection Criteria Self-Check Worksheet”
  HTTPS://WWW.FDA.GOV/DOWNLOADS/FORINDUSTRY/DATASTANDARDS/STUDYDATASTANDARDS/UCM630732.PDF

- “Technical Rejection Criteria Self-Check Worksheet Instructions”
  HTTPS://WWW.FDA.GOV/DOWNLOADS/FORINDUSTRY/DATASTANDARDS/STUDYDATASTANDARDS/UCM630733.PDF
Recommended Readings:

- For FDA instruction of Study Data submission, see the FDA “Study Data for Submission to CDER and CBER” page at:
  [HTTPS://WWW.FDA.GOV/DRUGS/DEVELOPMENTAPPROVALPROCESS/FORMSSUBMISSIONREQUIREMENTS/ELECTRONICSUBMISSIONS/UCM248635.HTM](HTTPS://WWW.FDA.GOV/DRUGS/DEVELOPMENTAPPROVALPROCESS/FORMSSUBMISSIONREQUIREMENTS/ELECTRONICSUBMISSIONS/UCM248635.HTM)

- For the full list of Study Data standards, see the FDA “Study Data Standards Resources” page at:
  [HTTP://WWW.FDA.GOV/FORINDUSTRY/DATASTANDARDS/STUDYDATASTANDARDS](HTTP://WWW.FDA.GOV/FORINDUSTRY/DATASTANDARDS/STUDYDATASTANDARDS)
Acknowledgments

The author would like to thank In Young Choi, Lina Cong, Jiang Xu, Jonathan Resnick, Heather Crandall, Jeffery 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 paper.