

Presented by Lex Jansen Sr. Director, Data Science Development, CDISC March 31, 2022





Disclaimer and Disclosures

- The views and opinions expressed in this presentation are those of the author(s) and do not necessarily reflect the official policy or position of CDISC.
- The author has no real or apparent conflicts of interest to report.



About Lex Jansen

- 16 years in an IT/Standards role in Biostatistics at Organon
- 4 years as a consultant to help companies implement CDISC
- 10 years at SAS
 - 7 years as Principal Software Developer working on SAS Clinical Standards Toolkit (implementing mostly XML based standards (Define-XML, ODM, Dataset-XML)) and SAS Life Science Analytics Framework (Java).
 - 3 years as Principal Solution Consultant implementing SAS Life Science Analytics Framework
- Since November 2021: Senior Director, Data Science Development at CDISC (contract through Lex Jansen Consulting LLC)



- Core member of the CDISC Data Exchange Standards team since 2008.
 Co-lead since November 2021
- Core member of the CDISC Define-XML development team.
 - One of the main **Define-XML v2** developers.
 - Developer of CDISC/PhUSE Define-XML v2.x XSL stylesheets.
- Core member of the CDISC Dataset-XML development team.
- Core member of ADaM Metadata team
 - One of the main developers of the **Analysis Results Metadata** v1.0 for Define-XML v2.0 extension





Agenda

- 1. What is Define-XML
- 2. Displaying Define-XML using Style Sheets
- 3. The project

What is Define-XML?

- An XML based machine-readable metadata exchange standard used to describe any tabular dataset structure
- Primary use case: describe CDISC Study Data Tabulation Model (SDTM), Standard for Exchange of Nonclinical Data (SEND), and Analysis Data Model (ADaM) datasets for the purpose of submissions to regulatory authorities
- Required by FDA (USA) and PMDA (Japan) and preferred by NMPA (China) for all CDISC submissions



What is Define-XML?

Separate data definition files should be included for each type of electronic dataset submission, i.e., a separate data definition file for the SDTM datasets of a given clinical study, a separate data definition file for the SEND datasets of a given nonclinical study, and a separate data definition file for the ADaM datasets of a given clinical study. The data definition file should be submitted in XML format, i.e., a properly functioning define.xml⁴². In addition to the define.xml, a printable define.pdf should be provided if the define.xml cannot be printed. 43 To confirm that a define.xml is printable within the CDER IT environment, it is recommended that the sponsor submit a test version to cderedata@fda.hhs.gov prior to application submission. The Catalog lists the currently supported version(s) of define.xml. It should be noted that define.xml version 2.0 is the preferred version. Sponsors should include a reference to the style sheet as defined in the specification (as listed in the Catalog) and place the corresponding style sheet in the same submission folder as the define.xml file. Within the eCTD study tagging file (STF), valid file-tags for define.xml are 'data-tabulation-data-definition' for SEND or SDTM datasets or 'analysis-data-definition' for ADaM datasets.

<u>Study Data Technical Conformance Guide v4.9 (March 2022)</u> (https://www.fda.gov/industry/fda-data-standards-advisory-board/study-data-standards-resources)



Displaying Define-XML – RAW

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Displaying Define-XML – RAW – formatted

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  <ItemRef ItemOID="IT.SPDEVID" Mandatory="Yes" OrderNumber="3" KeySequence="2"/>
  <ItemRef ItemOID="IT.DISEO" Mandatory="No" OrderNumber="4" MethodOID="MT.SEO"/>
  <ItemRef ItemOID="IT.DIPARMCD" Mandatory="Yes" OrderNumber="5" KeySequence="3"/>
  <ItemRef ItemOID="IT.DIPARM" Mandatory="Yes" OrderNumber="6"/>
  <ItemRef ItemOID="IT.DIVAL" Mandatory="Yes" OrderNumber="7"/>
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 <def:title>di.xpt</def:title>
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def:ArchiveLocationID="LF.DM">
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    <TranslatedText xml:lang="en">Demographics</TranslatedText>
  </Description>
  <ItemRef ItemOID="IT.STUDYID" Mandatory="Yes" OrderNumber="1" KeySequence="1"/>
  <ItemRef ItemOID="IT.DM.DOMAIN" Mandatory="Yes" OrderNumber="2"/>
  <ItemRef ItemOID="IT.USUBJID" Mandatory="Yes" OrderNumber="3" KeySequence="2" MethodOID="MT.USUBJID"/>
```



CDISC01

Annotated Case Report Form &

- ► Supplemental Documents
- ▶ Datasets
- ▼ Controlled Terminology
- ▶ CodeLists
- ► External Dictionaries
- Methods

Expand all VLM

Collapse all VLM

Study Name CDISC01

Study Description CDISC Test Study

Protocol Name CDISC01

Metadata Name Study CDISC01, Data Definitions

Metadata Description Study CDISC01, Data Definitions

Datasets

| Dataset | Description | Class | Structure | Purpose | Keys | Documentation | Location |
|-----------|--|--------------------|--|------------|---|--|-----------------|
| TA | Trial Arms | TRIAL DESIGN | One record per planned Element per Arm | Tabulation | STUDYID, ARMCD, TAETORD | | ta.xpt & |
| TE | Trial Elements | TRIAL DESIGN | One record per planned Element | Tabulation | STUDYID, ETCD | | te.xpt 대 |
| II | Trial Inclusion/Exclusion Criteria | TRIAL DESIGN | One record per I/E criterion | Tabulation | STUDYID, IETESTCD | | ti.xpt & |
| <u>TS</u> | Trial Summary | TRIAL DESIGN | One record per trial summary parameter value | Tabulation | STUDYID, TSPARMCD, TSSEQ | | ts.xpt & |
| TV | Trial Visits | TRIAL DESIGN | One record per planned Visit per Arm | Tabulation | STUDYID, VISITNUM, ARMCD | | tv.xpt & |
| <u>DM</u> | Demographics | SPECIAL PURPOSE | One record per subject | Tabulation | STUDYID, USUBJID | See Reviewer's Guide, Section 2.1 Demographics Reviewers Guide [section2.1 단] | dm.xpt & |
| <u>SE</u> | Subject Elements | SPECIAL PURPOSE | One record per actual Element per subject | Tabulation | STUDYID, USUBJID, SESTDTC, SEENDTC, TAETORD, ETCD | | <u>se.xpt</u> 원 |
| <u>sv</u> | Subject Visits | SPECIAL PURPOSE | One record per actual visit per subject | Tabulation | STUDYID, USUBJID, SVSTDTC, VISITNUM | | sv.xpt ₺ |
| СМ | Concomitant Medications | INTERVENTIONS | One record per recorded medication occurrence or | Tabulation | STUDYID, USUBJID, CMSTDTC, CMENDTC, | | <u>cm.xpt</u> 윤 |



CDISC01

Annotated Case Report Form &

- ► Supplemental Documents
- ▼ Datasets
 - TA (Trial Arms)
 - TE (Trial Elements)
 - TI (Trial Inclusion/Exclusion Criteria
 - TS (Trial Summary)
 - TV (Trial Visits)
 - DM (Demographics)
 - SE (Subject Elements)
 - SV (Subject Visits)
 - CM (Concomitant Medications)
 - EX (Exposure)
 - AE (Adverse Events)
 - DS (Disposition)
 - MH (Medical History)
 - DA (Drug Accountability)
 - EG (ECG Test Results)
 - IE (Inclusion/Exclusion Criteria Not
 - LB (Laboratory Tests Results)
 - PE (Physical Examination)
 - QSCG (Questionnaire-QSCG)
 - QSCS (Questionnaire-QSCS)
 - QSMM (Questionnaire-QSMM)
 - SC (Subject Characteristics)
 - VS (Vital Signs)
 - RELREC (Related Records)
 - SUPPAE (Supplemental Qualifiers for SUPPCM (Supplemental Qualifiers for SUPPCM)
 - SUPPDM (Supplemental Qualifiers I
 - SUPPEG (Supplemental Qualifiers f
 - SUPPEX (Supplemental Qualifiers f
 - SUPPLB (Supplemental Qualifiers for SUPPQSCG (Supplemental Qualifier
- SUPPQSCS (Supplemental Qualifier

VS (Vital Signs) - FINDINGS

| Related Supplemental Qualifiers Dataset: SUPPVS (Supplemental Qualifiers for VS) | | | | | | | | | |
|--|---|--|---------|--------------------------------|--|--|--|--|--|
| Variable | Where Condition | Label / Description | Туре | Length or Display Format | Controlled Terms or ISO Format | Origin / Source / Method / Comment | | | |
| STUDYID | | Study Identifier | text | 7 | | Protocol | | | |
| DOMAIN | | Domain Abbreviation | text | 2 | Domain Abbreviation (VS) • "VS" = "Vital Signs" | Assigned | | | |
| USUBJID | | Unique Subject Identifier | text | 14 | | Derived Concatenation of STUDYID and SUBJID Formal Expression | | | |
| VSSEQ | | Sequence Number | integer | 2 | | Derived Sequential number identifying records within each USUBJID in the domain. | | | |
| VSTESTCD | | Vital Signs Test Short Name | text | 20 | Vital Signs Test Code [6 Terms] | Assigned | | | |
| VSTEST | | Vital Signs Test Name | text | 24 | Vital Signs Test Name [6 Terms] | CRF Annotated Case Report Form [11 ❷] | | | |
| VSPOS | | Vital Signs Position of Subject | text | 7 | | CRF Annotated Case Report Form [11 윤] | | | |
| VSORRES VLM | | Result or Finding in Original Units | text | 30 | | CRF Annotated Case Report Form [11 당] | | | |
| | VSTESTCD = "DIABP" (Diastolic Blood Pressure) | Diastolic Blood Pressure (Orig U) | integer | 2 | | CRF Annotated Case Report Form [11 &] | | | |
| | VSTESTCD = "FRMSIZE" (Body Frame Size) | Body Frame Size (Orig U) | text | 6 | Size "LARGE" "MEDIUM" "SMALL" | CRF Annotated Case Report Form [11 &] | | | |



Location: vs.xpt &

Neither the Define-XML specification, nor any regulatory Agency defines how a Define-XML document should be displayed.

A stylesheet is not part of the Define-XML standard.

However, reviewers like predictability!

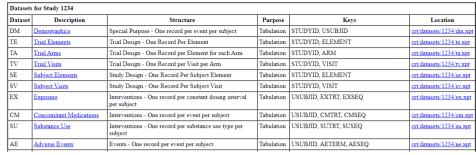
CDISC01

Annotated Case Report Form @

- Supplemental Documents
- Datasets
- Controlled Terminology
- ► Methods

Expand all VLM

Collapse all VLM



| נ | Annotated Case Report Form |
|--|---|
| ֝֝֝֝֝֝֝֝֝֝֝֝֝֝ ֓֓֞֝֞֜֝֞֜֝֞֝֞֜֜֝֝֜֜֜֝֞֜֜֜֡֡֜֜֡֡֡֜֜֡֡֡֜֜֝ | Reviewers Guide |
|) | Datasets |
| | Trial Arms (TA) |
| | Trial Elements (TE) |
| | Trial Inclusion/Exclusion Criteria |
| | (TI) |
| | Trial Summary (TS) |
| | Trial Visits (TV) |
| | Demographics (DM) |
| | Subject Elements (SE) |
| | Subject Visits (SV) |
| | Concomitant Medications (CM) |
| | Exposure (EX) |
| | Adverse Events (AE) |
| | Disposition (DS) |
| | Medical History (MH) |
| | Drug Accountability (DA) |
| | ECG Test Results (EG) |
| | Inclusion/Exclusion Criteria Not |
| | Met (IE) |
| | Laboratory Tests Results (LB) |
| | Physical Examination (PE) Questionnaire-QSCG (QSCG) |
| | Questionnaire-QSCS (QSCS) |
| | Questionnaire-QSCS (QSCS) |
| | Subject Characteristics (SC) |
| | Vital Signs (VS) |
| | Related Records (RELREC) |
| | Supplemental Qualifiers for AE |
| | (SUPPAE) |
| | Supplemental Qualifiers for CM |
| | (SUPPCM) |
| | Supplemental Qualifiers for DM |
| | (SUPPDM) |
| | Constant Outliffer to FC |

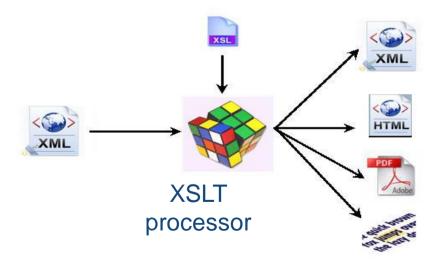
| Dataset | Description | Class | Structure | Purpose | Keys | Location |
|---------|--|--------------------|--|------------|---|----------|
| TA | Trial Arms | Trial Design | One record per planned Element per Arm | Tabulation | STUDYID, ARMCD, TAETORD | ta.xpt |
| TE | Trial Elements | Trial Design | One record per planned Element | Tabulation | STUDYID, ETCD | te.xpt |
| TI | Trial Inclusion/Exclusion Criteria | Trial Design | One record per I/E criterion | Tabulation | STUDYID, IETESTCD | ti.xpt |
| TS | Trial Summary | Trial Design | One record per trial summary parameter value | Tabulation | STUDYID, TSPARMCD, TSSEQ | ts.xpt |
| TV | Trial Visits | Trial Design | One record per planned Visit per Arm | Tabulation | STUDYID, VISITNUM, ARMCD | tv.xpt |
| DM | Demographics | Special Purpose | One record per subject | Tabulation | STUDYID, USUBJID | dm.xpt |
| SE | Subject Elements | Special Purpose | One record per actual Element per subject | Tabulation | STUDYID, USUBJID, SESTDTC, SEENDTC, TAETORD, ETCD | se.xpt |

| Dataset | Description | Class | Structure | Purpose | Keys | Documentation | Location |
|-----------|--|--------------------|--|------------|-----------------------------|--|-----------|
| <u>TA</u> | Trial Arms | TRIAL DESIGN | One record per planned Element per Arm | Tabulation | STUDYID, ARMCD, TAETORD | | ta.xpt @ |
| TE | Trial Elements | TRIAL DESIGN | One record per planned Element | Tabulation | STUDYID, ETCD | | te.xpt ₺ |
| П | Trial Inclusion/Exclusion Criteria | TRIAL DESIGN | One record per I/E criterion | Tabulation | STUDYID, IETESTCD | | ti.xpt & |
| <u>TS</u> | Trial Summary | TRIAL DESIGN | One record per trial summary parameter value | Tabulation | STUDYID, TSPARMCD, TSSEQ | | ts.xpt d |
| TV | Trial Visits | TRIAL DESIGN | One record per planned Visit per Arm | Tabulation | STUDYID, VISITNUM, ARMCD | | tv.xpt d₽ |
| <u>DM</u> | Demographics | SPECIAL PURPOSE | One record per subject | Tabulation | STUDYID, USUBJID | See Reviewer's Guide, Section 2.1 Demographics Reviewers Guide [section2.1 &] | dm.xpt & |
| | | | | | | | |



1

- eXtensible Stylesheet Language Transformations (XSLT) is a language that lets you transform XML documents into other XML documents, into HTML documents, or into any other text-based document (CSV, JSON, code, ...), or even a PDF file.
- XSLT is a language "for transforming the structure and content of an XML document"





A processor instruction associates a stylesheet with an XML file

```
<?xml version="1.0" encoding="UTF-8"?>

<?xml-stylesheet type="text/xsl" href="define2-0-0.xsl"?>

<ODM
    xmlns="http://www.cdisc.org/ns/odm/v1.3"
    xmlns:xlink="http://www.w3.org/1999/xlink"
    xmlns:def="http://www.cdisc.org/ns/def/v2.0"

ODMVersion="1.3.2"</pre>
```

• A stylesheet processor can use the processor instruction to automatically apply the stylesheet ... (but not in modern browsers on your local PC)



Available Stylesheets

- CDISC provided sample stylesheets:
 - 2005 Define-XML v1.0 ("CRT-DDS")
 - 2011 Metadata Submission Guideline (MSG) for SDTMIG (Define-XML v1.0)
 - 2014 Define-XML v2.0
 - 2015 Analysis Results Metadata (ARM) v1.0 for Define-XML v2.0
 - 2019 Define-XML v2.1
- PHUSE working group published an updated and much stylesheet:
 - 2018 Define-XML 2.0



Available Stylesheets

The latest Define-XML v2.0 and v2.1 stylesheets:

- Conform to web standards and follow accessibility guidelines
- Renders to HTML that is supported in modern browsers (Chrome, Firefox, MS Edge, Safari)
 - Internet Explorer is retiring soon
- Use JavaScript, but degrade gracefully when JavaScript is disabled
- Implement a special style for printing purposes (recommended: landscape)
- But where do you go with issues and bugs?
- Where do you find the latest stylesheets?



The COSA Project



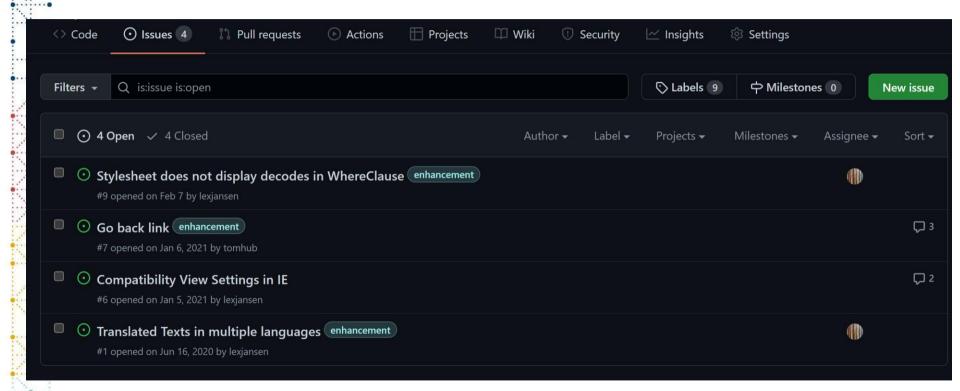
Define-XML XSL Stylesheets

This projects provides a Define-XML v2.0 and v2.1 XSL stylesheet

- Provides a central location on GitHub for the latest Define-XML stylesheets
- Central location for submitting issues / feature requests
- Documentation of stylesheet usage (example: how to transform Define-XML to HTML outside of the browser)
- Scope is narrow: use case of electronic submissions to regulatory agencies
- Will not depend on the availability of an XSLT processor in the browser
 - Modern browsers do not allow transforming a local Define-XML document to HTML using an XSLT stylesheet reference for reasons of security
 - XSLT processors in the browser only support XSTL 1.0 (1999!)
 - Use an external XSLT processor to transform to HTML that can be opened in any browser



The Define-XML XSL Project: issue management





The Define-XML XSL Project: What's next

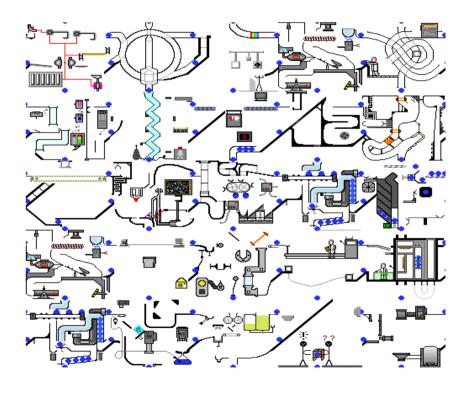
- Style sheet localization: **one** stylesheet for **many** languages
- The stylesheet uses a parameter (interfaceLang) to look up translations in a dictionary

```
<TranslatedText xml:lang="zh">代码清单</TranslatedText>
<TranslatedText xml:lang="zh">代码清单
<TranslatedText xml:lang="zh">收起所有VLM</TranslatedText>
<TranslatedText xml:lang="ja">全てのVLMを折りたたむ</TranslatedText>
<TranslatedText xml:lang="zh">注释</TranslatedText>
```



| CDISC-Sample | Datasets | | | | | | | | |
|---|------------|-------------------------------|---|---|----------|-------------------------------------|--|-----------------------|--|
| ► Supplemental Documents | Dataset | Descriptio | n Class | Structure | Purpose | Keys | Documentation | Location | |
| Datasets Controlled Terminology Methods | ADSL | Subject-Leve Analysis | SUBJECT LEVEL ANALYSIS DATASET | one record per subject | Analysis | USUBJID | Screen Failures are excluded since they are not needed for this study analysis | adsl.xpt 윤 | |
| Collapse all VLM | ADQSADAS | ADAS-Cog Analysis | BASIC DATA STRUCTURE | One record per subject per parameter per | Analysis | USUBJID, PARAMCD, AVISIT, ADT | See referenced dataset creation program and Analysis Data Reviewer's | adqsadas.xpt & | |
| CDISC-Sample • | | | | デー | ータセット | | | | |
| 補足文書データセット統制用語 | データセッ ト | 要約 | クラス | 構造 | 目的 | + - | ドキュメンテーション | ロケーション | |
| ▶ メソッド すべてのVLMを展開する | ADSL | Level | SUBJECT LEVEL ANALYSIS DATASET | one record per subject | Analysis | USUBJID | Screen Failures are excluded since they are not needed for this study analysis | <u>adsl.xpt</u> 億 | |
| 全てのVLMを折りたたむ | ADQSADAS | | BASIC DATA STRUCTURE | One record per subject per parameter per | | USUBJID, PARAMCD, AVISIT, ADT | See referenced dataset creation program and Analysis Data Reviewer's | <u>adqsadas.xpt</u> & | |
| CDISC-Sample 数据集 | | | | | | | | | |
| ▶ 补充文件 | 数据集 | 描述 | 类 | 结构 | 目的 | 按键 | 文献资料 | 位置 | |
| ▶ 数据集▶ 受控术语▶ 方法 | ADSL | Subject- Level Analysis | SUBJECT LEVEL ANALYSIS DATASET | one record per subject | Analysis | USUBJID | Screen Failures are excluded since they are not needed for this study analysis | adsl.xpt & | |
| 展开所有VLM | ADQSADAS | ADAS-Cog Analysis | BASIC DATA STRUCTURE | One record per subject per parameter per analysis visit per | Analysis | USUBJID, PARAMCD, AVISIT, ADT | See referenced dataset creation program and Analysis Data Reviewer's | adqsadas.xpt & | |

Demo





CПаСИБО 謝謝 GRACIAS 谢谢 THANK YOU ありがとうございました MERCI DANKE ध ー 리디ス のBRIGADO

- COSA Repository Directory: https://cosa.cdisc.org/
- Define-XML v2.0 GitHub Repository:
 https://github.com/lexjansen/define-xml-2.0-stylesheets
- Define-XML v2.1 GitHub Repository:
 https://github.com/lexjansen/define-xml-2.1-stylesheets
- Define-XML LinkedIn Group: https://www.linkedin.com/groups/4975366/

LinkedIn: https://www.linkedin.com/in/lexjansen/

Email: lexjansen@gmail.com

ljansen@cdisc.org

Web: https://www.lexjansen.com

