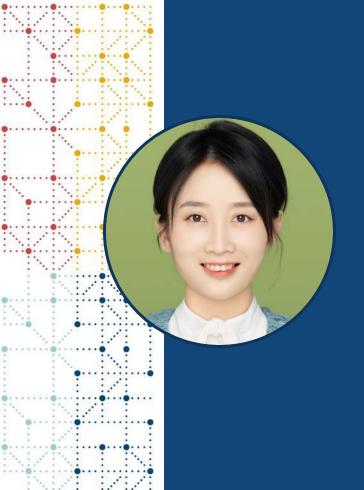


#### Do's and Dont's for CRF Mapping

Presented by Alice Liu



## **Meet the Speaker**

Alice Liu

Title: Senior Manager of Statistical Programming Organization: Hengrui Pharmaceuticals, Inc.

Alice Liu, has over 10 years SAS programming experience for phase I/II/III clinical trials in various therapeutic areas. Alice also has abundant experience in CDISC standard implementation, including developing annotated CRF, SDTM, ADaM and define-xml. Before join Hengrui, she had worked in IQVIA and PAREXEL for more than 7 years.

#### **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.





# Agenda

- 1. Brief Introduction to SDTM-MSG
- 2. Basic Principles for Annotations
- 3. Appearance of Annotations
- 4. Comparison between MSG V2.0 and MSG V1.0
- 5. PDF Requirements
- 6. Common Confusion for CRF Mapping



# 1. Brief Introduction to SDTM-MSG

#### 1. Brief Introduction to SDTM-MSG

- What is SDTM-MSG?
   Study Data Tabulation Model Metadata Submission Guidelines
- Available MSG Version

Date	Version
2021-03-30	2.0 Final
2011-12-30	1.0 Final

#### Purpose of SDTM-MSG

The purpose of the Study Data Tabulation Model Metadata Submission Guidelines: Human Clinical Trials (SDTM-MSG) is to provide guidance for preparing the components of the International Conference on Harmonisation (ICH) electronic Common Technical Document (eCTD) Module 5 (M5) Clinical Study Reports "sdtm" folder. This document and the associated example submission package illustrate the components recommended for electronic submission of SDTM data.

2 DEFI	NE-XML DOCUMENT	
3 ANNO	OTATED CRF	
3.1 BASIC I	PRINCIPLES FOR ANNOTATIONS	
3.1.1	Annotating Unique CRF Pages	
3.1.2	Appearance of Annotations	.1
3.1.3	Annotating Specific Types of Data	.1
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# 2. Basic Principles for Annotations

### 2. Basic Principles for Annotations

- Filename: acrf.pdf (suggested by the FDA and the PMDA)
- Searchable
- Dual bookmarking (recommended)
- Annotating Unique CRF Pages (recommended)
- Partial CRF page annotations should be avoided
- Avoid covering up text on the CRF page or collection screen

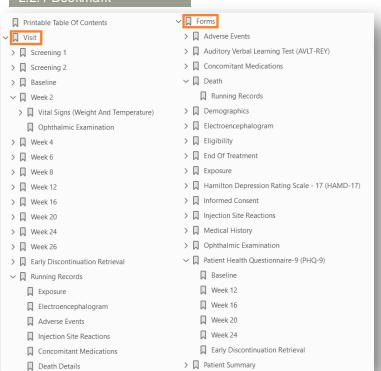
#### **Best Practice**

Developing the Define-XML and annotated CRF components early in the study development life cycle aids in overall efficiency, allowing study teams to manage potential incremental changes during the course of a study's development, and ensuring alignment between the various components. This is especially important when those components are intended for regulatory submission, thereby helping propagate a more expedited submission package compilation process.



### 2.1 Dual Bookmarking

#### 2.2.1 Bookmark



Bookmarks by chronology should be ordered according to the study schedule of activities (SoA).

- Pages that are independent of visits (e.g., Adverse Events) should be presented last, under a "Running Records" bookmark.
- Within each chronological bookmark, topic bookmarks should appear in the order that they appear in the annotated CRF.

Bookmarks by topics can be ordered alphabetically, as is done in the SDTM-MSG sample submission package, or sponsors may choose to list the forms in the order in which they appear in the CRF.

- Within each topic bookmarks should be ordered chronologically according to the SoA schedule.
- For SDTM-MSG v2.0, the aCRF example showed "Domains" as the top level for these bookmarks, but SDTM-MSG v1.0 has changed that to "Forms," because "Domains" implies SDTM domains.



## 2.1 Dual Bookmarking

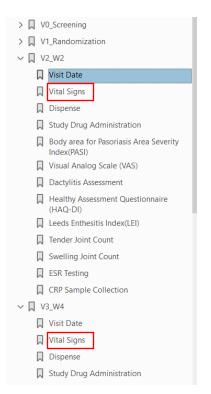
#### 2.2.2 TOC

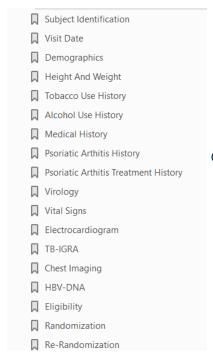
Bookmarking by Visits	Bookmarking by Forms
Visits  Screening 1  Informed Consent Demographics Eligibility Medical History Vital Signs (Weight, Height and Temperature) Version 2 Version 1 Ophthalmic Examination Screening 2  Vital Signs (Temperature) Version 1 Auditory Verbal Learning Test Ophthalmic Examination  Baseline Vital Signs (Weight and Temperature) Version 1 Auditory Verbal Learning Test Ophthalmic Examination  Baseline Vital Signs (Weight and Temperature) Version 1 Patient Health Questionnaire-9 (PHQ-9) Satisfaction With Lafe Survey (SWLS) Hamilton Depression Rating Scale - 17 (HAMD 17) Ophthalmic Examination  Week 2  Vital Signs Vital Signs (Weight and Temperature) Version 1 Auditory Verbal Learning Test (AVL02) Ophthalmic Examination	Forms  Adverse Events Running Records Additory Verbal Learning Test (AVL02) Screening 2 Week 4 Week 8 Week 16 Week 16 Week 24 Early Discontinuation Retrieval Concomitant Medications Running Records Death Running Records Demographics Screening 1 Electroencephalogram Running Records Eligibility Sceening 1 End of Treatment Week 26 Exposure Running Record Hamilton Depression Rating Scale - 17 (HAMD 17) Baseline Early Discontinuation Retrieval Informed Consent Screening 1

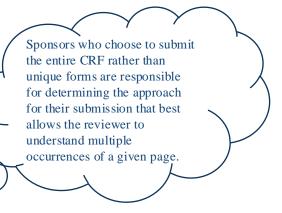
In the annotated CRF, the bookmarks essentially comprise a table of contents (TOC) for the reviewer. To facilitate a more efficient review process, a printable TOC may be included at the beginning of the annotated.



## 2.2 Unique CRF Pages





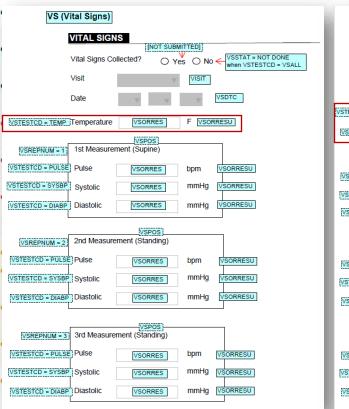


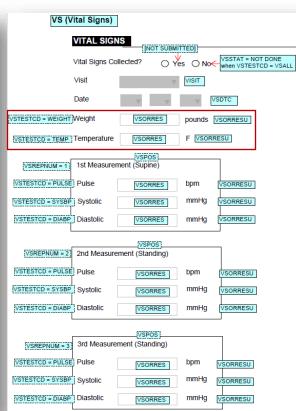
Repeat by VISIT

Unique CRF



## 2.3 Partial CRF Page Annotations





Partial CRF page annotations should be avoided. For example, if a CRF page has 1 or more collected data points than another similar page, it is recommended that both/all CRF pages be annotated. In this instance, annotating just the new collection point and referencing the annotations on another page (e.g., "See Page <n> for Annotations") makes reviewability more difficult.

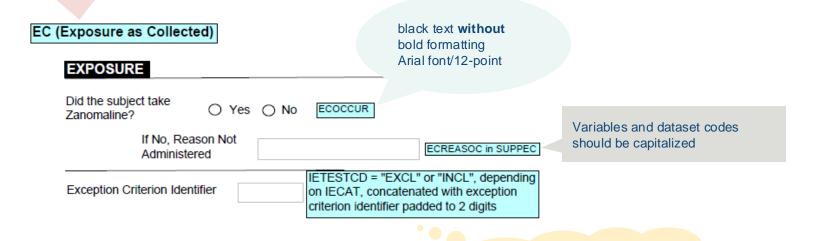




# 3. Appearance of Annotations

## 3.1 Format of Annotation (cont.)

black text **with** bold formatting Arial font



Instruction text and comments should be sentence case, excluding variables and dataset



#### 3.1 Format of Annotation

BLUE **DM (Demographics)** 191, 255, 255

YELLOW **DS (Disposition)** 255, 255, 150

GREEN SC (Subject Characteristics) 150, 255, 150

ORANGE **VS (Vital Signs)** 255, 190, 155

AE (Adverse Events)

FA (Findings About Events or Interventions)

ADVERSE EVENTS





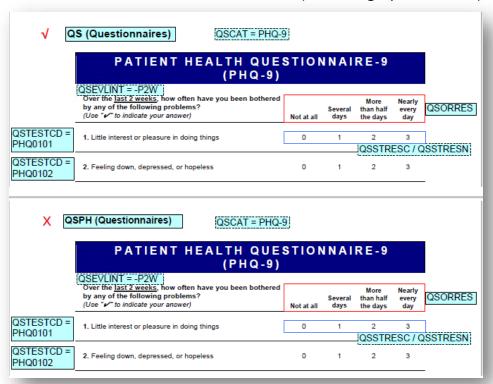
# 3.2 Annotation of Domain (cont.)

Consistency in annotation placement based on their CRF design; Domain annotations should use black text **with** bold formatting

(Adverse Events)		CM (Concomitant and Prior Medications)
ADVERSE EVENTS		CONCOMITANT MEDICATIONS
Were any adverse events experienced?	Yes [NOT SUBMITTED]	[NOT SUBMITTED]] Were any medications taken? Yes No
If yes please provide details below.	9	Medication CMTRT
AE Identifier	AELNKID	Medication CMTRT
What is the adverse event term?	AETERM	Indication Primary Study Condition Prophylaxis or Non-Therapeutic Use CMINDC
Start Date	→ / → AESTDTC	Dose CMDOSE
Severity	Mild Moderate AESEV	Dose Unit CMDOSU
	Osevere	
		Frequency CMDOSFRQ
(Adverse Events)		
Adverse Events)  ADVERSE EVENTS		CM (Concomitant and Prior Medications)  CONCOMITANT MEDICATIONS
	Syes ([NOT SUBMITTED] )	CM (Concomitant and Prior Medications)
ADVERSE EVENTS  Were any adverse events experienced?  If yes please provide details below.	S Yes ([NOT SUBMITTED] )	CM (Concomitant and Prior Medications)  CONCOMITANT MEDICATIONS  [NOT SUBMITTED]:  Were any medications taken? Yes No
ADVERSE EVENTS  Were any adverse events experienced?	Syes ((NOT SUBMITTED) )  AELNKID	CM (Concomitant and Prior Medications)  CONCOMITANT MEDICATIONS  [[NOT SUBMITTED]]  Were any medications taken? Yes No  Medication CMTRT
ADVERSE EVENTS  Were any adverse events experienced?  If yes please provide details below.		CM (Concomitant and Prior Medications)  CONCOMITANT MEDICATIONS  [NOT SUBMITTED]:  Were any medications taken? Yes No
ADVERSE EVENTS  Were any adverse events experienced?  If yes please provide details below.  AE Identifier	AELNKID	CONCOMITANT MEDICATIONS  [NOT SUBMITTED]  Were any medications taken? Yes No  Medication CMTRT  Indication Primary Study Condition Prophylaxis or Non-Therapeutic Use CMINDC  Dose CMDOSE
Were any adverse events experienced?  If yes please provide details below.  AE Identifier  What is the adverse event term?	AELNKID AETERM	CM (Concomitant and Prior Medications)  CONCOMITANT MEDICATIONS  [NOT SUBMITTED]  Were any medications taken? Yes No  Medication  CMTRT  Indication Primary Study Condition Prophylaxis or Non-Therapeutic Use CMINDC

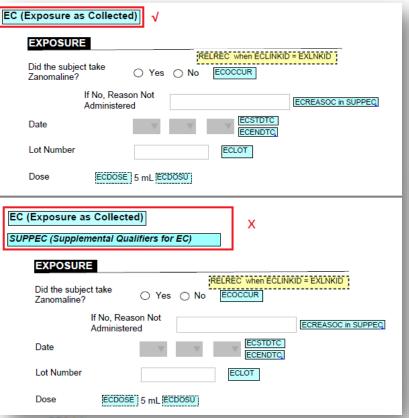
## 3.2 Annotation of Domain (cont.)

Domain names, rather than dataset (including split dataset) names, are annotated





#### 3.2 Annotation of Domain

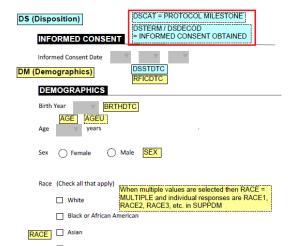


Supplemental qualifier domain names/RELREC do not need to be annotated √

EC (Exposure as Co	ollected)
RELREC (Related Reco	
EXPOSURE	
	RELREC when ECLINKID = EXLNKID
Did the subject ta Zanomaline?	ke Yes No ECOCCUR
	lo, Reason Not ministered ECREASOC in SUPPEC
Date	ECSTDTC ECENDTC
Lot Number	ECLOT
Dose	ECDOSE 5 mL (ECDOSU)



#### 3.3 Not Collected Data



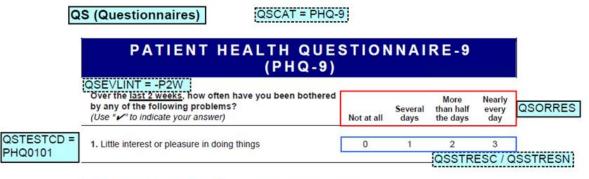
Assigned or Derived variables: the SDTM-MSG recommends the use of dashed annotation borders for annotations which do not represent collected data.

DSDECOD VLM		Standardized Disposition Term	text	Synonym Qualifier	29		
	DSSCAT ≠ ""	Standardized Disposition Term	text		29	Completion/Reason for Non-Completion [13 Terms]	Collected (Source: Investigator) Annotated CRF [27 @ 28 @ ]
	DSSCAT = ""	Standardized Disposition Term	text		29	Protocol Milestone  • "INFORMED CONSENT OBTAINED" = "Informed Consent"	Assigned (Source: Sponsor) Annotated CRF [5 6 ]
DSCAT		Category for Disposition Event	text	Grouping Qualifier	18	Category for Disposition Event  "DISPOSITION EVENT" = "Disposition Event"  "PROTOCOL MILESTONE" = "Protocol Milestone"	Assigned (Source: Sponsor)  Annotated CRF [5 © 27 © 28 © ]  Variable is Assigned but there are annotations to help understand the data and so references to the proper pages are included



## 3.4 Supplemental References

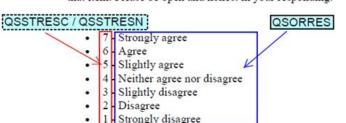
Boxes, arrows, and lines—can be used to further clarify annotations



QS (Questionnaires)

QSCAT = SWLS

Below are five statements that you may agree or disagree with. Using the 1 - 7 scale below, indicate your agreement with each item by placing the appropriate number on the line preceding that item. Please be open and honest in your responding.



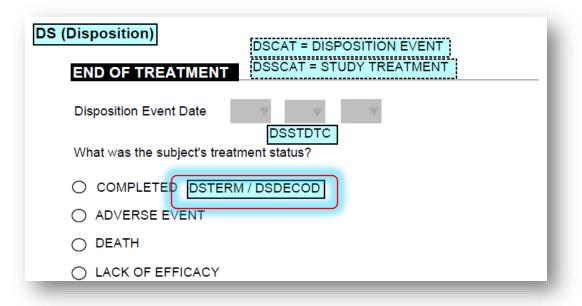
This method should be limited or avoided when not necessary.



PHQ0101

## 3.5 Multiple Variables

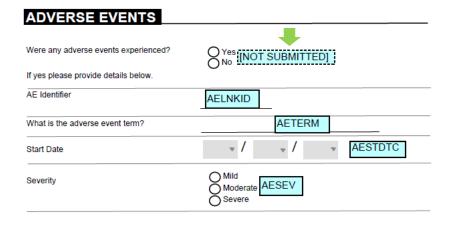






### 3.6 Not Submitted

#### AE (Adverse Events)

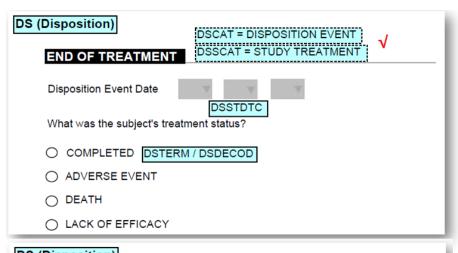


For NOT SUBMITTED fields, there should be an explanation in the relevant RG stating why these data have not been submitted.



#### 3.7 Use of Quotes



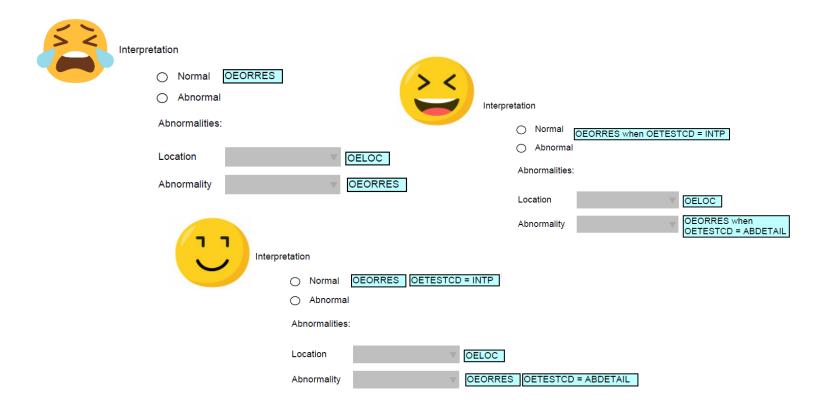






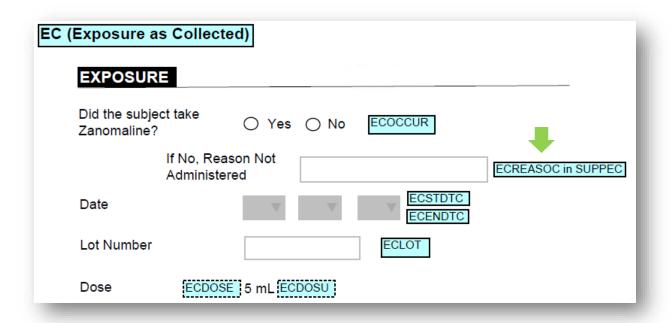


## 3.8 Annotating Findings



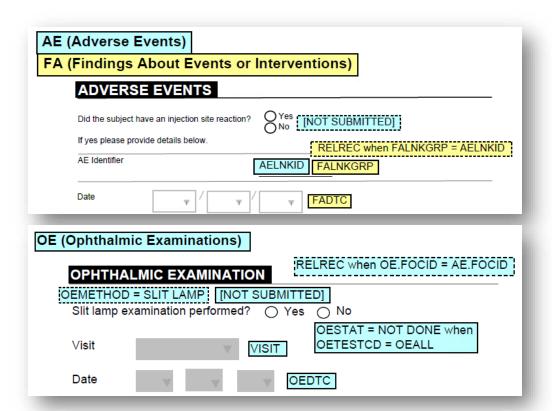


## 3.9 Supplemental Qualifiers



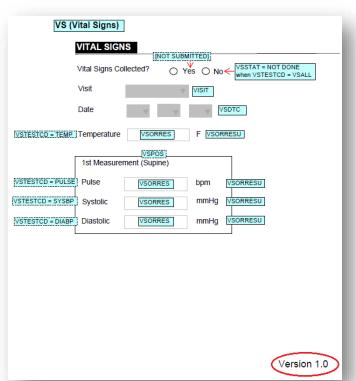


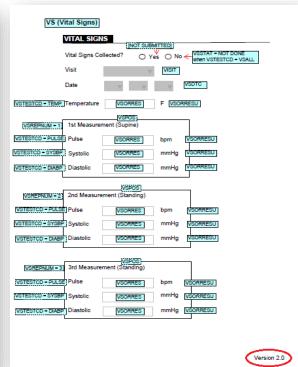
#### 3.10 RELREC



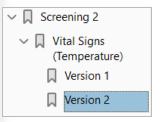


## 3.11 Replacement or Deprecated Pages

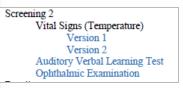




#### Bookmark



#### TOC







4. Comparison between MSG V2.0 and MSG V1.0

## 4 Comparison between MSG V2.0 and MSG V1.0 (cont.)





## 4 Comparison between MSG V2.0 and MSG V1.0

Filename
blankcrf.pdf → acrf.pdf
"acrf.pdf" is the current filename suggested

by the FDA and the PMDA. It describes the collected data in context by annotating the corresponding SDTM datasets, variables, and any associated notes identified on the CRF.

Dashed Annotation Borders SDTM-MSG recommends the use of dashed annotation borders for annotations which do not represent collected data. This will aid in reducing unnecessary cross-document referencing (e.g., between the define.xml and acrf.pdf). Domain

DM = Demographics → domain and variable annotations look very similar without clear visual distinction

DM (Demographics) → distinguish between domain and variable annotations

Variable

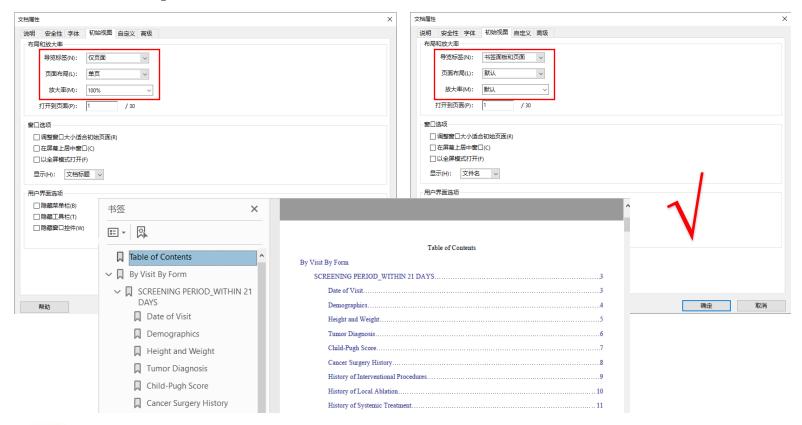
MSG v1.0 → featured red, bold, and italicized text MSG v2.0 → black text without bold or italics Annotations were easier to read and covered less of the CRF page.



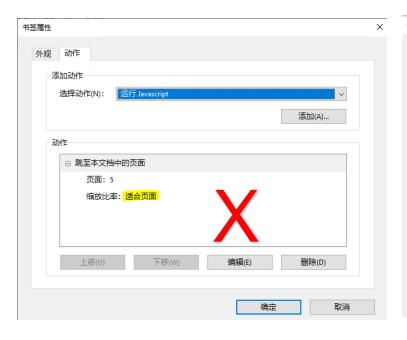


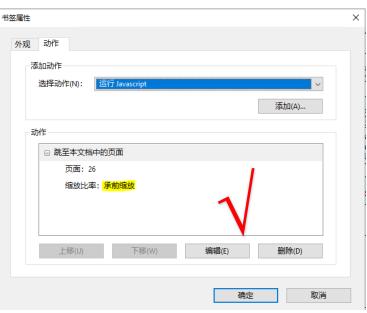
	FDA U.S. FOOD & DRUG	国家药品监督管理局 National Medical Products Administration
PDF Initial View	Set the Navigation Tab to open to "Bookmarks Panel and Page." This sets the initial document view when the file is opened. If there are no bookmarks, set the Navigation Tab to "Page Only." Page Layout and Magnification should be set to "Default."	PDF初始视图正确 有书签的文件在初始视图中应显示书 签。放大率和页面布局应设置为默认。
Inherit Zoom	When creating bookmarks and hyperlinks, set the magnification setting to "Inherit Zoom" so the destination page displays at the same magnification level used in the primary document.	书签必须承前缩放(Inherit Zoom)所有的书签的放大率设置应为承前缩放 (Inherit Zoom)。 超文本链接必须承前缩放(Inherit Zoom)所有超文本链接的放大率设置 应为承前缩放(Inherit Zoom)。
Flatten the Annotations	Do not include PDF annotations in documents. Note: Can be validated by LORENZ eValidator.	文档中不应包含PDF注释。 注:电子申报资料制作软件无法验证。













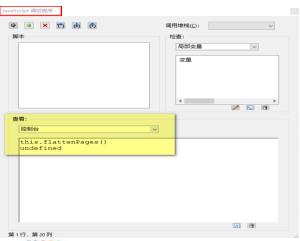
Other Frequency, Specify CMDOSFQO in SUPPCM

Start Date CMSTDTC

End Date CMENDTC



Add New Record [NOT SUBMITTED]



- 打开未flatten的PDF,目前远程桌面的版本v1.7适用
- Ctrl + j 打开 JavaScript 调试程序
- 在查看控制台的框中输入"this.flattenPages()"
- Ctrl + enter,查看控制台的框中出现 undefined
- 另存为PDF保存



# 6. Common Confusion for CRF Mapping

## 6.1 -- STAT & -- OCCUR (cont.)

Have you confirmed with Jack for the time of our next week's meeting?

Sorry, I forget to check.

--STAT = NOT DONE (No response)

The --OCCUR variable is used to indicate whether a prespecified intervention or event occurred or did not occur. It has controlled terminology of "Y" and "N" (for "Yes" and "No"). It is a permissible variable and may be omitted from the dataset if no topic-variable values were prespecified.

If a study collects both prespecified interventions and events as well as free-text events and interventions, the value of --OCCUR should be "Y" or "N" for all prespecified interventions and events, and null for those reported as free text.

The --STAT and --REASND variables can be used to provide information about prespecified interventions and events for which there is no response (e.g., investigator forgot to ask). As in Findings, --STAT has controlled terminology of NOT DONE.

Situation	Value ofPRESP	Value ofOCCUR	Value ofSTAT
Spontaneously reported event occurred			
Prespecified event occurred	Υ	Υ	
Prespecified event did not occur	Υ	N	
Prespecified event has no response	Υ		NOT DONE

Have you confirmed with Jack for the time of our next week's meeting?

Our next meeting is cancelled since Jack will be away on a business trip.







#### 6.1 -- STAT & -- OCCUR

#### Example 3

This is an example of a medical history CRF where the history of specific (prespecified) conditions is solicited. The conditions were not coded using a standard dictionary. The data were collected as part of the screening visit.

Rows 1-9: MHPRESP = "Y" indicates that these conditions were specifically queried. Presence or absence of the condition is represented in MHOCCUR.

Row 10:

There was also a specific question about asthma, as indicated by MHPRESP = "Y", but this question was not asked. Because the question was not asked, MHOCCUR is null and MHSTAT = "NOT DONE". In this case, a reason for the absence of a response was collected, and this is represented in MHREASND.

#### mh.xpt

Row	STUDYID	DOMAIN	USUBJID	MHSEQ	MHTERM	MHDECOD	MHPRESP	MHOCCUR	MHSTAT	MHREASND	VISITNUM	VISIT	MHDTC	MHDY
1	ABC123	MH	101002	1	HISTORY OF EARLY CORONARY ARTERY DISEASE (<55 YEARS OF AGE)	Coronary Artery Disease	Υ	N			1	SCREEN	2006-04- 22	-5
2	ABC123	MH	101002	2	CONGESTIVE HEART FAILURE	Congestive Heart Failure	Y	N			1	SCREEN	2006-04- 22	
3	ABC123	MH	101002	3	PERIPHERAL VASCULAR DISEASE	Peripheral Vascular Disease	Y	N			1	SCREEN	2006-04- 22	-5
4	ABC123	MH	101002	4	TRANSIENT ISCHEMIC ATTACK	Transient Ischemic Attack	Y	Y			1	SCREEN	2006-04- 22	-5
5	ABC123	MH	101002	5	ASTHMA	Asthma	Y	Y			1	SCREEN	2006-04- 22	-5
6	ABC123	MH	101003	1	HISTORY OF EARLY CORONARY ARTERY DISEASE (<55 YEARS OF AGE)	Coronary Artery Disease	Y	Y			1	SCREEN	2006-05- 03	-3
7	ABC123	MH	101003	2	CONGESTIVE HEART FAILURE	Congestive Heart Failure	Y	N			1	SCREEN	2006-05- 03	-3
8	ABC123	MH	101003	3	PERIPHERAL VASCULAR DISEASE	Peripheral Vascular Disease	Y	Y			1	SCREEN	2006-05- 03	-3
9	ABC123	MH	101003	4	TRANSIENT ISCHEMIC ATTACK	Transient Ischemic Attack	Y	N			1	SCREEN	2006-05- 03	
10	ABC123	MH	101003	5	ASTHMA	Asthma	Y		NOT DONE	FORGOT TO ASK	1	SCREEN	2006-05- 03	-3



Form: Psoriatic Arthritis Drug Treatment CMCA	T = Psoriatic Arthitis Treatment History
Was any medication taken for psoriatic arthritis?	OT SUBMITTED] Yes
Treatment Type CMSCAT	NSAIDs&Analgesis csDMARDs bDMARDs tsDMARDs Topical therapy Acitretin Phototherapy Systemic Glucocoticoids Other
Other treatment type, specify Non-result	qualifier
Treatment Name CMTRT	Loxoprofen Naproxen Piroxicam Meloxican Celecoxib UVB Other

DM (Demographics)
RP (Reproductive System Findings)
SC (Subject Characteristics)
Form: Demographics
Date subject or legal guardian signed informed consent RFICDTC
Date of birth BRTHDTC
Sex SEX Male
Sex SEX Male Female
Terrare
Is the subject of childbearing potential RPORRES Yes
RPTESTCD = CHILDPOT No
Ethnicity ETHNIC Hispanic or Latino
Not Hispanic or Latino
Eye Color SCORRES SCTEST = Eye Color Black
Brown O
Blue
Green
Other U
Other, specify Result qualifier —



#### 6.2.1 Non-result Qualifier

If the sponsor wishes to maintain controlled terminology for the CMSCAT field and limit the terminology to the prespecified choices, then the free text is placed in SUPPCM.

CMSCATO in SUPPCM

If the sponsor does not require that controlled terminology be maintained and stored wishes for all responses to be in a single variable, then CMSCAT will be used and SUPPCM is not required.

#### CM (Concomitant/Prior Medications)

SHR-1314-204-V1.1-20211008: Unique
Form: Psoriatic Arthritis Drug Treatment | CMCAT = Psoriatic Arthritis Treatment History

Was any medication taken for psoriatic arthritis? [NOT SUBMITTED] Yes

Treatment Type CMSCAT NSAIDs&Analgesis csDMARDs bDMARDs bDMARDs tsDMARDs Topical therapy Acitretin Phototherapy Note: When 'Other' is collected, the verbatim value specified is represented in CMSCAT.

Other treatment type, specify CMSCAT

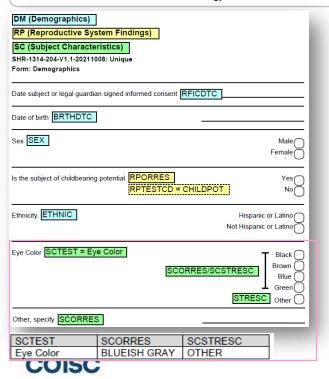
Ref: SDTM IG V3.4, section 4.2.7.1



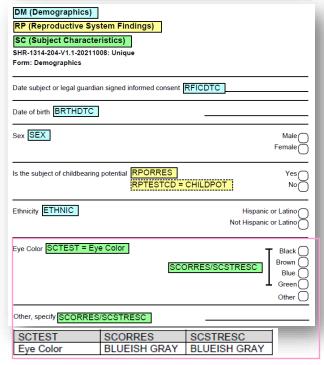
Other treatment type, specify

#### 6.2.2 Result Qualifier

If the sponsor wishes to maintain controlled terminology in the standard result field and limit the terminology to the 5 prespecified choices, then the free text is placed in --ORRES and the controlled terminology in --STRESC.



If the sponsor does not require that controlled terminology be maintained, the verbatim value will be copied to -- STRESC.



#### 6.2.3 Topic Variables

#### Interventions

If a list of specific treatments is provided along with "Other, Specify", --TRT should be populated with the name of the treatment found in the specified text. If the sponsor wishes to distinguish between the prespecified list of treatments and those recorded in "Other, Specify," the --PRESP variable could be used.

CMPRESP	CMTRT
Y	Loxoprofen
	Golimumab

CM (Concomitant/Prior Medications) SHR-1314-204-V1.1-20211008: Unique Form: Psoriatic Arthritis Drug Treatment | CMCAT = Psoriatic Arthritis Treatment History Was any medication taken for psoriatic arthritis? [NOT SUBMITTED] Treatment Type CMSCAT NSAIDs&Analgesis( csDMARDs bDMARDs/ tsDMARDs/ Topical therapy Systemic Glucocoticoids NOT SUBMITTED; Other Other treatment type, specify CMSCATO in SUPPCM Treatment Name CMTRT Loxoprofen Naproxen Piroxicam Meloxican Celecoxib Note: CMPRESP = Y when a pre-specified diagnosis is collected. CMPRESP is null Other treatment name, specify CMTRT when Other is Collected

Ref: SDTM IG V3.4, section 4.2.7.3

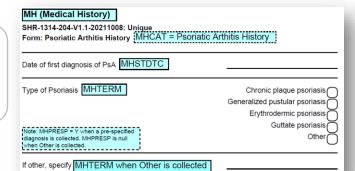


### 6.2 Other, specify

#### 6.2.3 Topic Variables

#### **Events**

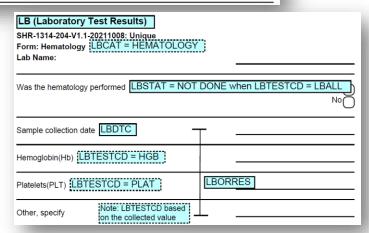
"Other, Specify" for events may be handled similarly to Interventions. --TERM should be populated with the description of the event found in the specified text and --PRESP could be used to distinguish between prespecified and free-text responses.



MHPRESP	MHTERM	
Υ	Chronic plaque psoriasis	
	Pustular psoriasis	

#### **Findings**

"Other, Specify" for tests may be handled similarly to Interventions. --TESTCD and --TEST should be populated with the code and description of the test found in the specified text. If specific tests are not listed on the CRF and the investigator has the option of writing in tests, then the name of the test would have to be coded to ensure that all --TESTCD and --TEST values are consistent with the test controlled terminology



HGB PLAT WBC

Ref: SDTM IG V3.4, section 4.2.7.3



### 6.3 Multiple Values for a Variable

DM (Demographics)		
RP (Reproductive System Findings)  Form: Demographics		
Date subject or legal guardian signed informed consent RFIC	CDTC	
Date of birth BRTHDTC		
Sex SEX	Male Female	
Is the subject of childbearing potential  RPTESTCD = CHIL	DPOT RPORRES No	
Ethnicity ETHNIC	Hispanic or Latino  Not Hispanic or Latino	
Race (1) RACE	American Indian or Alaskan Native Asian Black or African American	
Note: withere one race value is collected, it is represented in RACE. Where more than one race value is collected, RACE = 'MULTIPLE' and each value is represented in RACE1/RACE2/RACE3/RACE4 in SUPPDM.	Native Hawaiian or Other Pacific Islander White	
Race(2) RACE	American Indian or Alaskan Native Asian	
	Black or African American	

RACE	
MULTIPLE	

RACE1	RACE2	RACE3	RACE4
AMERICAN INDIAN OR ALASKA	ASIAN	BLACK OR AFRICAN AMERICAN	NATIVE HAWAIIAN OR OTHER
NATIVE			PACIFIC ISLANDER

#### Additional Example

In some cases, values for QNAM and QLABEL more specific than these may be needed.

For example, a sponsor might conduct a study with 2 study drugs (e.g., open-label study of Abcicin + Xyzamin), and may require the investigator assess causality and describe action taken for each drug for the rash:

#### ae.xpt

l	AETERM	AEREL	AEACN
ı	RASH	MULTIPLE	MULTIPLE

#### suppae.xpt

QNAM	QLABEL	QVAL
AERELABC	Causality of Abcicin	POSSIBLY RELATED
AERELXYZ	Causality of Xyzamin	UNLIKELY RELATED
AEACNABC	Action Taken with Abcicin	DOSE REDUCED
AEACNXYZ	Action Taken with Xyzamin	DOSE NOT CHANGED

In each of these examples, the use of SUPPAE should be documented in the Define-XML document and the annotated CRF. The controlled terminology used should be documented as part of value-level metadata.

If the sponsor has clearly documented that one response is of primary interest (e.g., in the CRF, protocol, or analysis plan), the standard domain variable may be populated with the primary response and SUPP-- may be used to store the secondary response(s).

For example, if Abcicin is designated as the primary study drug in the example above:

#### ae.xpt

Native Hawaiian or Other Pacific Islander

	AETERM	AEREL	AEACN
ı	RASH	POSSIBLY RELATED	DOSE REDUCED

#### suppae.xpt

l	QNAM	QLABEL	QVAL
ı	AERELX	Causality of Xyzamin	UNLIKELY RELATED
ı	AEACNX	Action Taken with Xyzamin	DOSE NOT CHANGED

Note that in the latter case, the label for standard variables AEREL and AEACN will have no indication that they pertain to Abcicin. This association must be clearly documented in the metadata and annotated CRF.



Ref: SDTM IG V3.4, section 4.2.8

#### Reference

- SDTM IG V3.4, <a href="https://www.cdisc.org/standards/foundational/sdtmig/sdtmig-v3-4">https://www.cdisc.org/standards/foundational/sdtmig/sdtmig-v3-4</a>
- MSG V2.0, <a href="https://www.cdisc.org/standards/foundational/sdtm/sdtm-metadata-submission-guidelines-v2-0">https://www.cdisc.org/standards/foundational/sdtm/sdtm-metadata-submission-guidelines-v2-0</a>
- STUDY DATA TECHNICAL CONFORMANCE GUIDE, <a href="https://www.fda.gov/regulatory-information/search-fda-guidance-documents/study-data-technical-conformance-quide-technical-specifications-document">https://www.fda.gov/regulatory-information/search-fda-guidance-documents/study-data-technical-conformance-quide-technical-specifications-document</a>
- PDF SPECIFICATIONS, https://www.fda.gov/media/76797/download
- 电子申报资料制作软件,关于更新电子申报资料制作软件的通知 (cde.org.cn)







cdisc Thank You!