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Study Data Tabulation Model Metadata Submission Guidelines (SDTM-MSG)

研究数据列表模型-元数据递交指南 (SDTM-MSG)

Prepared by the CDISC SDS Metadata Team

由CDISC SDS 元数据团队 (SDS Metadata Team) 开发

Notes to Readers

This is Version 1.0 of the Metadata Submissions Guidelines created by the CDISC Submission Data Standards Metadata subteam.

中文版(征求意见稿)读者说明

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1 Introduction 简介

1.1 Purpose 目的

The purpose of the Study Data Tabulation Model - Metadata Submission 88 Guidelines (SDTM-MSG) is to provide guidance for compiling the eCTD 89 module 5 "sdtm" folder. This document and the associated sample 90 submission illustrate the components recommended for electronic 91 submission of SDTM data. The sample submission components include an 92 annotated CRF, submission datasets compliant with the SDTMIG 3.1.2 in 93 SAS version 5 transport format, a define.xml file describing the structure 94 and content of the submitted datasets, a style sheet (define2-0-0.xsl) for 95 visualizing the define.xml in a user-friendly way, and an optional Reviewers' 96 97 Guide.

研究数据列表模型一元数据递交指南(SDTM-MSG) 的目是为完成 eCTD 模块 5 的 "sdtm"文件夹提供指导。本文档和相关的递交示例说明了电子递交 SDTM 数据所推荐 的组件内容。递交示例文档中包括:一个注释 CRF, 符合 SDTMIG 3.1.2 中以 SAS 5 Xport 格式的递交数据集,一个用于描述递交数据集结构和内容的 define.xml 文件, 一个方便用户可视化呈现的样式表(define2-0-0. xsl),以及一个(可选的)审评者 指南。

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The SDTM-MSG will enable users to become familiar with the SDTM submission components. This entire package is intended to illustrate acceptable practices and formats that sponsors should incorporate into their submissions, but is not intended to dictate the only acceptable practice. The scope of this document and associated study-related files is the SDTM portion of a submission.

SDTM-MSG 意在让用户熟悉 SDTM 递交的组件内容。整个文档的目的是为了描述申 111 办方递交时应纳入的已认可的实践和格式,但这并不是唯一认可的实践。本文档的范畴 112 和研究相关的文件是递交中的 SDTM 部分。 113

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In order to view the sample submission, the ZIP file should be downloaded from the CDISC website (www.cdisc.org). Extracted files should be stored in the same folder to preserve the inter-component linking. This document encompasses the latest FDA recommendations; however, sponsors are encouraged to work with their review division when compiling their

120 submissions.

- 其递交示例可以从 CDISC 官网(www.cdisc.org) 下载相应 ZIP 文件来查看。所提取 121
- 的文件应该存放在相同的文件夹中,以保持组件之间的可连接性。本文档包含最新的 122 FDA 建议,同时,也鼓励申办方在递交过程中与其审查部门沟通合作。 123

元数据子团队 英文正式版 2011-12-31

124 1.2 References and Abbreviations 参考和缩写

- The current versions of the documents referenced in the SDTM-MSG may be
- accessed via the links provided below.
- 127 SDTM-MSG 参考的当前版本文件可通过以下链接获取:
- 128 CDISC website
- 129 http://www.cdisc.org/
- 130 SDTMIG- CDISC SDTM Implementation Guide Version 3.1.2
- http://www.cdisc.org/extranet/index.php?a=1209
- 132 SDTM Study Data Tabulation Model (SDTM) Final Version 1.2
- http://www.cdisc.org/extranet/index.php?a=1209
- 134 CRT-DDS-Case Report Tabulation Data Definition Specification (define.xml)
- 135 Version 1.0
- http://www.cdisc.org/models/def/v1.0/index.html
- 137 FDA eCTD Guidance Electronic Common Technical Document)
- 138 http://www.fda.gov/Drugs/DevelopmentApprovalProcess/FormsSubmissio
- nRequirements/ElectronicSubmissions/ucm153574.htm
- 140 FDA Study Data Specifications (Version 1.6)
- 141 http://www.fda.gov/Drugs/DevelopmentApprovalProcess/FormsSubmissio
- nRequirements/ElectronicSubmissions/ucm248635.htm
- 143 Controlled Terminology
- http://www.cancer.gov/cancertopics/cancerlibrary/terminologyresources/c
- 145 disc
- 146 CDER Common Data Standards Issues Document (Version 1.0/May 2011)
- 147 http://www.fda.gov/Drugs/DevelopmentApprovalProcess/FormsSubmissio
- nRequirements/ElectronicSubmissions/ucm248635.htm

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1.3 Organization of this Document 文档结构

- 151 This document is organized into the following sections to facilitate review
- and understanding of the submission components.
- 153 为了便于审阅和理解递交的组成内容,该文档由以下章节组成:
- 154 Section 1, INTRODUCTION, outlines the organization of this document.
- 155 第1节,简介,概括该文档的结构
- 156 Section 2, GENERAL SPECIFICATIONS FOR SUBMITTING SDTM, describes
- the components of an eCTD module 5 sdtm folder.
- 158 第 2 节, SDTM 递交的一般规定, 描述 eCTD 模块 5: stdm 文件夹的组成
- 159 Section 3, DEFINE.XML, explains the definition portion of the submission
- datasets. Descriptions of the various components including tables, table
- 161 content, and hyperlinks between components are included. This section
- describes the organization of the define.xml and is not a technical guide to
- the define.xml. The technical information can be found in the CRT-DDS.
- 164 第 3 节, DEFINE.XML,解释了递交数据集的定义部分。对各种不同组件作了描述,

- 165 包括各种表格、表格内容、以及各组件之间的超链接。该章节描述了 define.xml 的结
- 166 构,但并非 define.xml 的技术指南。具体的技术信息可以从 CRT-DDS 中找到。
- 167 Section 4, GUIDELINES FOR ANNOTATING and BOOKMARKING CRFs,
- 168 provides guidelines for annotating CRFs according to the SDTM
- 169 specifications.
- 170 第 4 节, CRF 注释和标签指南,根据 SDTM 要求对注释 CRF 提供指导参考。
- 171 Section 5, SUBMISSION DATASETS, explains the SDTM domains and
- datasets contained in the sample submission.
- 173 第 5 节, 递交数据集, 用递交示例解释了 SDTM 域和数据集。

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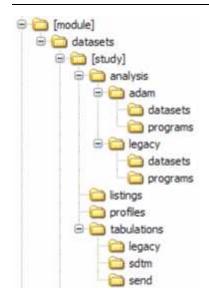
2 General Specifications for Submitting SDTM

SDTM 递交的一般规定

2.1 Submission Structure 递交结构

- 178 The FDA Study Data Specifications recommends the following folder
- structure for the data portion of the eCTD. The image below is the structure
- at the time of this publication, but the sponsor should check the current
- specification for the latest update. The Study Data Tabulation Model (SDTM)
- datasets (in SAS version 5 transport file format), define.xml, annotated CRF,
- and any additional documentation are located in the "sdtm" folder. Refer to
- the FDA Study Data Specifications for the intended contents of the other
- folders. The naming conventions used for files within the sdtm folder must
- 186 comply with the FDA eCTD Guidance.

- 188 FDA 研究数据规范为 eCTD 数据部分建议如下文件夹结构。下图是本文发表时的 eCTD
- 189 文件夹结构,申办方应该查到并获取最新的文件夹结构。研究数据列表模型(SDTM)数
- 190 据集(SAS 5 的 Xport 格式)、define.xml、注释 CRF 和任何额外的文档都放在"sdtm"
- 191 文件夹中。其他文件夹的内容可参考 FDA 研究数据规范。sdtm 文件夹内的文件命名
- 192 规则必须符合 FDA 的 eCTD 指南。



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2.2 Define.xml

- The define.xml is the metadata describing the structure and content of the 195 submitted datasets. The define.xml placed in the sdtm folder along with the 196 submission datasets. See Section 3of this document and the FDA Study Data 197 Specifications for additional details. A printable (PDF) version of the 198 define.xml was also added to the sample submission based on the CDER 199 200 Common Data Standards Issues Document. The PDF was created through a 201 separate process, and the method of creation and the format is sponsor defined. 202
- 203 define.xml 是用于描述递交数据集的结构和内容的元数据。define.xml 和递交数据集 204 一起放置在 sdtm 文件夹中。本文档的第 3 节和 FDA 研究数据规范对此提供了更多细 节。根据 CDER 常见数据标准问题的文件,一个可打印(PDF)的 define.xml 文件也可 206 添加到递交示例中。PDF 文件可单独产生,其创建方法和格式由申办方来定义。

2.3 Annotated CRF 注释 CRF

- The bookmarked and annotated CRF from the study should be saved in a
- 209 PDF named blank crf.pdf and stored in the "sdtm" folder. All unique CRF
- 210 pages or forms should be annotated to match the SDTM datasets and
- variables. See Section 4for additional details.
- 212 有书签和注释的研究 CRF 应当以 PDF 格式保存,并命名为 blankcrf.pdf, 存放在
- 213 "sdtm"文件夹中。所有独一的 CRF 页面或表单应注释,并与 SDTM 数据集和变量相
- 214 匹配。更多细节请见*第四节*。

2.4 Tabulation Datasets 表格型数据集

- The "sdtm" folder within the tabulations folder is reserved for datasets, in
- 217 SAS Version 5 transport format, conforming to the CDISC SDTM standard.
- 218 See Section 5for additional details.
- 219 表格文件夹中的"sdtm"文件夹用于存放符合 CDISC SDTM 标准的、SAS 5 Xport 格

220 式的数据集。更多细节见*第五节*。

2.5 Reviewers' Guide 审评者指南

- 222 A Reviewers' Guide provides additional information for the reviewers about
- 223 the submitted data. The inclusion of a Reviewers' Guide and its content are
- at the discretion of the sponsor. When the SDTM data are validated, errors
- and/or warnings may occur. All structural errors, those that are related to
- dataset and variable attributes, are generally within the sponsor's control
- and should be corrected. Any errors in structure or content that cannot be
- resolved may be explained in a Reviewers' Guide. A sample Reviewers'
- Guide is included in the "sdtm" folder of the sample submission which
- 230 contains instructional text and reviewer information.
- 231 "审评者指南"为审评者提供了关于递交数据的一些额外信息。"审评者指南"的内容
- 232 由申办方自由裁定。在 SDTM 数据验证时可能发生一些错误或警告信息。所有与数据
- 233 集和变量属性相关的结构性错误通常由申办方来控制,并应予以纠正。任何无法解决的
- 234 结构或内容方面的错误可以在"审评者指南"作以解释。递交示例的"sdtm"文件夹所
- 235 包含的"审评者指南",涵盖说明文本和审评者信息。

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- 237 A number of approaches can be taken for validating the SDTM data.
- 238 Third-party tools may be used and these tools may have their own
- interpretation of the requirements for properly formed SDTM datasets.
- 240 Sponsors should understand and evaluate these interpretations. Validation
- issues related to an interpretation of a requirement should be noted in the
- 242 Reviewers' Guide.
- 243 许多方法可用以验证 SDTM 数据。可以使用第三方工具,这些工具对于如何正确形成
- 244 SDTM 数据集可能有其自己的说明要求。申办方应该理解和评估这些说明。与这些说明
- 245 要求相关的验证问题应该备注在审评者指南中。

3 Define.xml

3.1 Introduction 简介

- 248 The define.xml document specifies the standard for providing Case Report
- Tabulation Data Definitions in an XML format for submission to regulatory
- authorities (e.g. FDA). Basically, the define.xml is the metadata describing
- 251 the format and content of the submitted datasets. The metadata, and the
- 252 stylesheet used to display the metadata, are described within this section.
- 253 define.xml 文件对以 XML 格式标准向监管机构(如 FDA)递交病例报告列表的数据
- 254 定义作了明确规定。define.xml 基本上是一种元数据,用以描述各递交数据集的格式
- 255 和内容。本节将详细介绍元数据以及用于展示元数据的样式表。
- Dataset-level metadata, often referred to as the Table of Contents, in
- 257 Section 3.2.
- **258** ◆ 数据集级别的元数据,通常被称为目录表,请见**3.2**。
- Variable-level metadata, often referred to as the Data Definition Tables,

- 260 in Section 3.3.
- 261 变量级别的元数据,通常被称为数据定义表,请见3.3
- Value-level metadata in Section 3.4.
- **263** 值级别的元数据,请见*3.4*。
- Controlled Terminology, referred to as Codelists, in Section 3.5.
- **265** 用于编码的受控术语,请见<u>3.5</u>。
- Stylesheets used to display the xml in Section 3.6.
- 267 用于显示 XML 的样式表,请见 <u>3.6</u>。
- Define.xml schema validation in Section 3.7.
- Define.xml schema的验证,请见*3.7*。

270 3.2 Dataset-Level Metadata 数据集级别的元数据

- 271 Dataset-level metadata provide basic information about each of the
- 272 datasets included in the "sdtm" folder. The format of the metadata is
- 273 predefined by the define.xml specification. An "ItemGroupDef" element is
- 274 provided for each SDTM dataset in the submission. Each "ItemGroupDef"
- element contains a set of "ItemRef" elements corresponding to the variables
- in the SDTM dataset. The SDTM variable-level metadata are described in
- "ItemDef" elements. Refer to the **CRT-DDS** for further details.
- 278 数据集级别的元数据对每个列入"SDTM"文件夹中的数据集提供基本信息描述。元数据
- 279 的格式已预定义在define.xml说明中。递交资料中每个SDTM数据集都会对应一个
- 280 "ItemGroupDef"元素。每一个"ItemGroupDef"元素都含有一组"ItemRef"元素,它
- 281 们分别与SDTM数据集中各个变量一一对应。SDTM变量级别的元数据由"ItemDef"元
- 282 素来描述。更多细节请参阅*CRT-DDS*。
- In the event that no records are present in a dataset (e.g., a small study
- where no subjects took concomitant medications), the empty dataset should
- 286 not be submitted or described in the define.xml. Please refer to Section
- 4.1.1 for information regarding the annotations of such a dataset.
- 288 如果一个数据集中没有任何记录(例如没有受试者合并用药的小型临床研究),这个空
- 289 数据集就不应该被递交或纳入define.xml中描述。有关此类数据集的信息请参见第
- 290 <u>4.1.1</u>。

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3.2.1 Organization 结构

- 292 All tabulation datasets, CDISC and sponsor-defined, must be included in the
- 293 dataset-level metadata and they should be organized by their SDTM class.
- Datasets should be listed in alphabetical order by name attribute within each
- class in the define.xml file. In the case of split domains, this may not be
- sufficient and other attributes may be used as demonstrated in the sample
- 297 define.xml.
- 298 数据集级别的元数据需包含所有CDISC及申办方定义的表格数据集,并按照其所属的
- 299 SDTM类别进行组织。define.xml文件中,每个类别内的数据集应根据其英文命名按字

- 300 母顺序排列。在分割域的情况下,这种排序可能不完善,可以使用其它属性,如在
- 301 define.xml案例中所示那样。
- 302 The recommended order for the classes is:
- 303 对类别的排序建议如下:
- 304• Trial Design Datasets
- 305● 试验设计数据集
- 306 Special-purpose Domains
- 307● 特殊目的域
- 308 Interventions Domains
- 309• 干预类域
- 310• Events Domains
- 311● 事件类域
- 312• Findings Domains
- 314• Relationship Datasets
- 315● 关系数据集

316 3.2.2 Content 内容

- 317 The structure of the dataset-level metadata is predefined by the define.xml
- 318 schema and specification. The presentation format is defined through the
- associated stylesheet chosen by the sponsor. In the absence of published
- guidance, the sponsor should determine which metadata attributes to
- 321 display.
- 322 数据集级别元数据的结构已预定义在define.xml schema及其说明中。其展现形式定
- 323 义在申办方选择的相关样式表中。若指南中无明确定义,申办方应确定要显示哪些元数
- 324 据属性。

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326 Table 3.2.2.1: Dataset-Level Metadata

XML Artribute	Stylesheet Display	Notes
ItemGroupDef Attribut	es	
OID		The unique ID of the domain
Name	Dataset	The name of the dataset (e.g., "DM", "AE").
Repeating		Valid values are "Yes" or "No". "Yes" is for datasets with the potential of having more than one record per subject. "No" is for domains restricted to 1 record per subject. Repeating should be populated "No" for the Trial Design domains.
IsReferenceData		Valid values are "Yes" or "No". "Yes" is for datasets that contain reference data only (e.g., Trial Design datasets). "No" indicates subject data. Absence of this attribute indicates subject data.
Purpose	Purpose	The purpose for the dataset. The purpose of all SDTM datasets is "Tabulation."
defLabel	Description	A short description of the type of information contained within the dataset (e.g. "Demographics", "Adverse Events") that matches the SITIMIC-domain description or the sponsor-defined domain description in the case of custom domains. A hyperlink should be defined by the stylesheet from the defiLabel attribute to the variable-level metadata for the dataset.
def:Structure	Structure	The level of detail represented by individual records in the dataset (e.g., "One record per subject", "One record per subject per visit", "One record per subject per event").
def:DomainKeys	Keys	The domain level keys are a series of variables whose primary purpose is to uniquely identify a record in the dataset.
defClass	Class	The general class of the observations within the domain as defined in the SDTM model (e.g., "Trial Design", "Special Purpose", "Interventions", "Events", "Findings", or "Relationship")
def ArchiveLocationIID	Location	This contains a reference to a defileaf element containing the transport file filename and path. A hyperlink to the transport file should be provided by the stylesheet.

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328 表 3.2.2.1 数据集级别元数据

衣 3.2.2.1 			
XML 属性	样式表显示	备注	
ItemGroupDef	属性		
OID	1	域的唯一ID	
Name	Dataset	数据集名称 (如, "DM", "AE").	
Repeating	1	有效值为"是"或"否"。"是"指每个受试者在数据集中可	
		能有多条记录。"否"指域限定了每个受试者仅有1条记	
		录。在试验设计域中,"Repeating"的值应为"否"。	
IsReferenceData		有效值为"是"或"否"。"是"指该数据集仅包含用于参考	
		的数据(例如,试验设计数据集)。"否"表示受试者数	
		据。该属性缺失时默认为受试者数据。	
Purpose	Purpose	数据集的目的。所有SDTM数据集的目的都是	
		"tabulation(制表)"。	
def:Label	Description	对数据集信息的简短描述,与SDTMIG对域的描述一	
		致, (如,人口统计学,不良事件),或者在自定义域	
		的情况下,使用申办方定义的域名描述。样式表应在	
		def: Label 属性设定一个超链接至该数据集对应的变	

		量级别元数据。
def:Structure	Structure	数据集中单个记录的详细程度(如"每个受试者一条记
		录","每次访视一条记录","每个受试者的每次事件一
		条记录")。
def:DomainKeys	Keys	域级别的关键字由一系列变量构成,其主要目的是用于
		特异识别数据集中的记录。
def:Class	Class	域的通用观测数据类别,与SDTM模型中定义一样(例
		如,"试验设计","特定目的","干预","事件","发现"
		或"关系")。
def:ArchiveLocati	Location	包含一个对def: leaf元素的引用,该元素包含传输文件
onID		的文件名和路径。样式表应提供一个关联至传输文件的
		超链接。

def:Class

The domain Class implies a predefined set of variables and can aid in the review, as well as the validation, of the data.

333 域的类别意味着数据集已预定义一组变量,这些信息有助于数据的审阅以及验证。

def:Structure

The description of structure should match the dataset, and may be different from the description of the structure in the SDTMIG. The LB entry in the define.xml of the sample submission is an example of a structure description that is less detailed than that in the SDTMIG. This example is not intended to recommend a structure description different than in the SDTMIG, but to illustrate the fact that a different description is possible.

结构的描述应和数据集匹配,但可能与SDTMIG描述的结构不同。例如,递交示例 define.xml中LB条目就是对结构描述的一个例子,它比SDTMIG中的详细程度要低。 这个例子并不是为了建议大家对结构描述与SDTMIG不同,而是为了说明可以有不同的描述。

def:DomainKeys

As stated in Table 3.2.2.1, the primary purpose of the keys is to uniquely identify a record within a dataset. The keys serve as an aide to reviewers in understanding the dataset structure and potentially defining a sort order. However, the keys do not necessarily have to reflect the sort order of the submission dataset.

353 如表3.2.2.1所述,使用关键字的主要目的是用于特异识别数据集的某条记录。这些关 354 键词可以帮助审阅者了解数据集的结构和潜在的排序方式。然而,关键词并不一定非要 555 反映递交数据集的排序方式。

The keys shown in the dataset-level metadata of the sample submission (See Sample define.xml) are only examples and sponsors should organize

- their dataset keys according to their preferences and data requirements.
- For subject-related data, the first 2 keys are always STUDYID and USUBJID.
- These keys are often followed by topic and timing variables, which may be a
- term or treatment and date for the Events and Interventions class domains,
- and a test code and visit number and/or time point for Findings class
- 364 domains.
- 365 递交示例里的数据集级别元数据中显示的关键字(见define.xml示例)仅仅是例子,
- 366 申办方应根据自己的偏好和数据的要求来组织其数据集的关键字。受试者相关的数据,
- 367 前2个关键字总是STUDYID和USUBJID,其后通常是主题和时间变量,可能是用于事
- 368 件类和干预类域的术语或治疗和日期;还有,用于发现类域的一个实验代码、访视编号
- 369 和/或时间点。

3.3 Variable-Level Metadata 变量级别的元数据

- 371 The variable-level metadata contain the attributes for each variable within
- each dataset. In the define.xml, each variable is represented by an
- 373 "ItemDef" element describing the metadata for that variable. Refer to the
- 374 **CRT-DDS** for further details.
- 375 变量级别的元数据包含每个数据集内的每个变量的属性。在define.xml,每个变量由
- 376 "ItemDef"元素来描述该变量的元数据。具体细节请进一步参阅*CRT-DDS*。

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- Normalized datasets, such as those in the Findings General Observation
- Class and Supplemental Qualifiers, are further described by value-level
- metadata. See Section 3.4 for additional information.
- 381 纵向(标准化)数据集,如那些用于通用观测数据发现类和补充修饰语,由值级别的元
- 382 数据来进一步描述。请参阅3.4节获得更多信息。

3.3.1 Organization 结构

- Every dataset listed in the dataset-level metadata (define.xml
- "ItemGroupDef") will have associated variable-level metadata (define.xml
- "ItemDef"). The stylesheet should provide a hyperlink from the
- "Description" column in the display of the dataset-level metadata to the
- variable-level metadata table for each of the datasets.
- 389 列入数据集级别元数据(define.xml "ItemGroupDef")的每一个数据集都有与之相
- 390 关的变量级别的元数据(define.xml "ItemDef")。每一个数据集应在样式表中提供
- 391 一个超链接,将数据集级别元数据中"Description"列所显示的内容链接到其变量级别
- 392 的元数据上。

- In the display generated by the stylesheet, the variable-level tables should
- be listed in the same order as the datasets in the dataset-level metadata
- table. In the stylesheet this is taken care of by nested loops over
- "ItemGroupDef" and the containing "ItemRef". See the comments in the
- stylesheet (define2-0-0.xsl) for technical details about how this is
- 399 accomplished.

- 400 由样式表生成的显示结果中,变量级别表格的排列顺序应与数据集在数据集级别元数据
- 401 表格中的排序一致。在样式表中,需注意"ItemGroupDef"和"itemref"的嵌套循环。
- 402 请参阅样式表(define2-0-0.xsl)里的注解来了解如何实现的技术细节。

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- The variables within each dataset ("ItemRef" within "ItemGroupDef" in the
- define.xml) must be ordered according to the sequence specified in the
- SDTMIG, Section 4.1.1.4. The stylesheet should ensure that this order is
- maintained in the display. In addition, the order of the variables in the
- define.xml and the order of the variables within the dataset must be
- 409 identical.
- 410 每个数据集中的变量(define.xml中"ItemGroupDef"内的"ItemRef")必须根据在
- 411 SDTMIG 第4.1.1.4章节规定的顺序进行排序。样式表应确保该排序正确显示。此外,
- 412 变量在define.xml中的顺序和在数据集内的顺序也必须相同。

3.3.2 Content 内容

- The content of the variable-level metadata is predefined in the define.xml
- schema and specification. The associated stylesheet provides the
- 416 presentation formatting.
- 417 变量级别元数据的内容已经预定义在define.xml schema及其说明中。由与之相关的
- 418 样式表来提供其展现形式。
- In the define.xml specification, ItemRef and ItemDef describe variable-level
- 420 metadata. ItemRef lists the variables used in a dataset and, within that
- dataset, the order of variables, their role, and whether they are mandatory.
- ItemDef describes variable attributes such as label, data type, length, and
- origin independently of the dataset(s) where the variables are used. This
- 424 structure enables common variables such as STUDYID and USUBJID to be
- defined once but used in all applicable datasets.
- 426 在define.xml说明中,ItemRef和ItemDef用于描述变量级别的元数据。ItemRef列
- 427 出了一个数据集中所使用的变量,并描述变量在此数据集中的顺序、角色、以及是否强
- 428 制要求使用。 ItemDef独立于其被使用的数据集来描述变量的属性,如标签、数据类
- 429 型、数据长度、及其来源。这种结构使的公共变量(如STUDYID和USUBJID)只需被
- 430 定义一次,便可适用于所有数据集。

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- Variable-level metadata include the following items:
- 433 变量级别的元数据包括以下内容:

Table 3.3.2.1: Variable-Level Metadata

XML Field	Styleshee t Display	Notes
ItemRef Attribute		
ItemOID		Reference to the corresponding ItemDef.
OrderNumber		Indicates the order of the variable within the
		dataset.

Mandatory		SDTM Core required	variables should have a	
		value of "Yes" while expected and permissible		
		should have a value of "No".		
Role	Role	Information on how a variable is used within th		
		dataset (e.g., "IDENT	TFIER", "TOPIC", "TIMING",	
		"SYNONYM QUALIFIE		
		-	BLE QUALIFIER", "RECORD	
			Γ QUALIFIER", "RULE").	
RoleCodeListOID			sponding Role Code List.	
RoleGodeListoID			tOid are a pair, if one is	
			her needs to be provided	
		also.	ner necus to be provided	
ItemDef Attribute		uiso.	A 9 X Z Z X	
OID		Unique identifier for t	the ItemDef. Usually the	
OID			with a prefix containing the	
			ne variable is specific to a	
		domain. For example		
Name	Variable			
Name	variable	The name of the variable should match the		
DataTyma	Tymo	variable name in the dataset.		
DataType	Type	The permissible XML variable type ("text", "float", "integer", "date", "datetime", "time")		
	1	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
	7	7 / 1 . 7	xml specification Section	
	- 111		eported in the define.xml	
	/ - ' N	maps to the SAS transport data type as indicated in the table below:		
/3		V	T	
1		Define.xml Data Type	SAS Data Type	
5.7	111	text	Char	
X \	1111	integer	Num	
		float datetime**	Num Char**	
1 1		date**	Char **	
\times \times \wedge		time**	Char**	
XX				
\ \ \			matted date/time variables,	
		-	n DataType is either "date",	
		"datetime", or "time". If date and time are		
		collected then "datetime" should be used, even if		
		no time values are actually collected. If date values only, and not time values, are collected		
		then "date" should be		
Length		Length is required for text, integer and float ty		
		variables.		
SignificantDigits		When the float data type is used, the number of		
		I digits after the decima	al point is required. For float	

	1	SDIM-MSG (VI.UAX)
		type variables the length does not include the decimal point. e.g. if length=4 and significant digits=2 then the maximum value would be 99.99
Origin	Origin	Indicator of the origin of the variable. Examples could include "CRF Page #", "Derived", "eDT", "Assigned", or "Protocol." Refer to SDTMIG section 4.1.1.8.1. The stylesheet should ensure that hyperlinks are provided in the display to specific pages or sections of the annotated CRF.
Comment	Comment	Other information regarding the variable definition if needed.
def:Label	Label	Labels should match the variable labels in the datasets. See SDTMIG 2.6 and SDTMIG 3.2.2 for additional guidance.
def:DisplayFormat		Display format for numeric variables (e.g., 8.2, 7.3). It is anticipated that this attribute will be deprecated in future versions of the CRT-DDS.
def:ComputationMet hodOID	Hyperlink in Comment	The identifier of the computational algorithm used to derive or impute the variable values. When def:ComputationMethodOID is present, the stylesheet should add the text "See Computational Method:" to the rendered "Comment" column and provide a hyperlink to the table containing Computational Algorithms (representing all define.xml "def:ComputationMethod" elements). Refer to value level metadata for EG testcodes of QTCB and QTCF. Alternatively, the stylesheet may generate an additional column that provides a hyperlink to the computational method or displays the computational algorithm. Refer to Section 6.3 for information on the sample stylesheet included in the submission that displays these columns.
ItemDef Child Elements		
CodeListRef	Controlled Terms or Format	A reference to the codelist of possible values for that variable or external dictionary. This is used for variables with a code/decode. The stylesheet should provide a hyperlink to the table "Controlled Terminology" containing a list of all

		define.xml "CodeList" metadata.	
def:ValueListRef	Hyperlink	If applicable, a reference to a value list	
	on variable	associated with the variable. If a value list	
	name	exists, the stylesheet should provide a hyperlink	
		in the display to the associated value list. See	
		Section 3.3.3 for additional information.	

表 3.3.2.1: 变量级别的元数据

XML 属性	样式表显示	备注		
ItemRef 属性				
ItemOID		相应ItemDef的参考。		
OrderNumber		该变量在数据集里的顺序	F 0	
Mandatory		当该变量的SDTM核心类	送别为必需时,其值应该为 " 是";	
,		反之若为预期和许可,贝	则为"否" 。	
Role	Role		目的信息 (如., "IDENTIFIER(标	
		识符) ", "TOPIC (主题	i)", "TIMING(时间)",	
		"SYNONYM QUALIFIE	R(同义修饰符)", "GROUPING	
		QUALIFIER (群组修饰	符)", "VARIABLE QUALIFIER	
			ORD QUALIFIER(记录修饰	
		符)", "RESULT QUAL	IFIER(结果修饰符) ", "RU LE	
		(规则) ").		
RoleCodeListOID	-/\	相应 (Role Code List)	角色代码表的OID。角色(Role	
	1 7 5)和RoleCodeListOID是	战对出现,如果提供了一个,则	
	7 11	必须同时提供的另一个。		
ItemDef 属性				
OID	1	ItemDef的唯一标识符。	通常变量名的前缀含有域代码	
< 2	11/	表明该变量是从属于该域	成。例如: DM, AGE, STUDYID。	
Name	Variable	变量的名称应该与数据第	[中的变量名相匹配。	
DataType	Type	XML允许的变量类型(")	文本", "浮点", "整数", "日期",	
() ("日期时间","时间"),	如同在define.xml说明2.1.2.4	
\times		节中的定义。从define.x	xml报告的值映射到SAS传输数	
\times		据类型的值如下表所示:		
1/ /		Define.xml Data Type	SAS Data Type	
		text	Char	
		integer	Num	
		float	Num	
		datetime**	Char**	
		date**	Char **	
		time**	Char**	
			的日期/时间变量,报告数据类	
			朝时间"或"时间"。如果日期和时	
		间同时被采集,即使没有	f实际采集时间,应使用 " 日期时	

		3D1N1-NISG (V 1.0)(X)	
		间"。如果仅要求采集日期值,而不是时间值,则应选择"日期"。	
Length		对文本、浮点、整数变量需明确值的长度	
SignificantDigits		当为浮点数据类型时,需要明确有效位数。计算浮点类	
		型变量的长度不需要包括小数点。例如,如果长度=4和	
		有效位数= 2,那么最大值是99.99	
Origin	Origin	变量结果的数据来源,如CRF第#页、衍生、eDT、指定	
		或方案规定。请参阅SDTMIG 第4.1.1.8.1节。样式表	
		应确保通过超链接来显示注释CRF的特定页面或章节。	
Comment	Comment	其它关于变量定义的信息(若适用)。	
def:Label	Label	标签应与数据集中的变量标签相符。见SDTM IG 2.6和	
		SDTMIG 3.2.2来获得更多的指导。	
def:DisplayFormat		数值型变量的显示格式(例如,8.2,7.3)。据预测,	
		此属性将在CRT-DDS的未来版本中被弃用。	
def:ComputationMet	Hyperlink	用于衍生或推导变量值的计算方法的标识符。当	
hodOID	in	def:ComputationMethodOID存在时,样式表应该在	
	Comment	"Comment"一栏中添加文字"参看计算方法:",并提供	
		超链接连接到包含算法的表格(define.xml中代表	
	1	"def:ComputationMethod"的所有元素)。请参见:	
	7/	值级别的元数据QTcB值和QTcF间的EG检测代码。	
	- 111	此外,样式表可能会产生额外的列来显示算法或提供一	
	/ - N	个超链接至计算方法。参见6.3节中用于递交的样式表示	
TI D (Z = ±		例信息来了解如何显示这些列。	
ItemDef 子元素	0 1 11 1		
CodeListRef	Controlled	这是变量可能的值或外部字典的编码列表的参考。这个	
Z \	Terms or	变量用于编码/解码。样式表应该提供一个超链接表到"受	
1	Format	控术语"表,该表含所有define.xml"代码表"元数据的列表。	
def:ValueListRef	Hyporlink	一次。 如适用,这是与变量关联的值列表的参考。如果值列表	
uei. vaiuelistkei	Hyperlink on variable	如邑用,这定与发星大联的值列表的参考。如来值列表 存在,样式表应该提供一个超链接来显示相应的值列表。	
	name	请参见3.3.3节获得更多信息。	
	папте	何穸ルJ.J.J P 仏付又夕旧心。	

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Type 类型

Type is the data type of the submitted variable. Eventually data will be submitted to the FDA through XML and Type will reflect the XML data type; however, currently data are contained in SAS transport files. The mapping between define.xml types and SAS data types is indicated in Table 3.3.2.1 above. For numeric variables which may contain a mix of integer and float data types (--STRESN) data type "float" should be specified with a length and significant digits large enough to accommodate all results.

- 446 Type是递交变量的数据类型。最终数据将通过XML递交给FDA,Type将反映XML的数
- 447 据类型;然而,目前数据是包含在SAS传输文件中。 define.xml类型和SAS数据类型
- 448 之间的映射关系参见上表3.3.2.1。对于可能混合包含整数和浮点的数据类型(--
- 449 STRESN),应明确"浮点"数据类型其容纳所有结果的最大长度和有效位数。

Controlled Terms or Formats 受控术语或格式

- Controlled terms must be specified in the codelist section of the define.xml.
- In the rendered define the controlled terms column links to the table of
- 454 terms. Since controlled terminology associated with a variable is defined
- through a codelist, it is not expected that format catalogs would be included
- as part of the submission. Therefore, external SAS formats should not be
- applied to variables in SDTM. Note that variables linked to a value list (e.g.,
- VSTESTCD, QNAM) would normally not be associated with a codelist since
- the full list of possible values is described by the value list.
- 460 受控术语必须在define.xml的编码列表部分中说明。在呈现受控术语列定义时需与表
- 461 格中的术语相连接。由于与变量相关的受控术语已定义在编码列表中,其格式目录可以
- 462 不必作为递交的一部分。因此,SDTM变量不适合应用外部SAS格式。需注意,链接到
- 464 量所有的可能结果已描述在值列表中。

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- 466 If the controlled terminology is based on an external dictionary (e.g.,
- MedDRA, WHODRUG,), a link to the External Dictionaries section of the
- define should be provided.
- 469 如果受控术语是基于外部词典(例如,MedDRA,WHODRUG),应当提供链接到定
- 470 义的外部字典的相应章节。

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Origin 来源

- The SDTMIG defines multiple values for origin. If the origin is designated
- as "Derived", then either the derivation definition should be specified in the
- 475 Comments field, or a reference to either the computational method
- (def:ComputationMethod) or supplemental data definitions document
- (def:SupplementalDoc) should be provided.
- 478 SDTMIG定义了多种数据来源。如果数据来源为"衍生",要么在注释(Comments)
- 479 字段中明确其衍生定义,要么就提供计算方法(Def:ComputationMethod)或补充
- 480 数据定义文件(def:SupplementalDoc)的引用。

- 482 If the origin is a page number in the annotated CRF (blankcrf.pdf), then the
- stylesheet should ensure that a hyperlink to the corresponding page within
- the annotated CRF is provided in the Origin column of the display. If there
- are multiple occurrences of a form only the first occurrence is listed in the
- Origin field. The subsequent pages should not be listed. If a collected
- variable or pre-printed information is annotated on the CRF, the origin must
- 488 be CRF.

- 489 如果数据来源为注释CRF(blankcrf.pdf)的页码,样式表应确保在显示Origin列时提
- 490 供超链接至注释CRF相应页码。如果一个表单多次出现,则只需要在第一次出现时列在
- 491 Origin列。随后的页面就不需要列出。如果采集的变量或预打印信息注释在CRF中,则
- 492 数据来源一定是CRF。

- Comments 注释
- Comments are primarily used for defining data derivations. If the
- derivation is of a reasonable size, it can be placed directly in the Comments
- field. For longer derivations, or if the sponsor prefers, an alternative is to
- describe the derivation method in the define.xml "def:ComputationMethod"
- element, and to reference it from the define.xml "ItemDef" describing the
- 500 SDTM variable (define.xml "def:ComputationMethodOID"). The stylesheet
- should ensure that a hyperlink from the "Comments" column to the
- "Computational Algorithms" section is generated in the display. More than
- one variable can link to the same computational method.
- 504 Comments (注释) 主要用于定义数据的推导。如果衍生定义的长度合适,它可以直
- 505 接放置在注释字段中。对于较长的衍生定义,或者根据申办方偏好,另一种方式是在
- 506 define.xml 里 "def: ComputationMethod" 的元素中描述衍生方法,并在
- 507 define.xml 里 "ItemDef" 引用SDTM变量(define.xml "def:
- 508 ComputationMethodOID")。样式表应确保从"Comments"列到"Computational
- 509 Algorithms (计算方法) "能够产生显示一个超链接。多个变量可以链接到相同的计算
- 510 方法。

- If the derivations for certain variables within a domain are large and involve
- complex logic or diagrams, the rendered Comments column may be used to
- provide a link to a "note" within a separate PDF file. This can be
- accomplished by having the stylesheet search for text such as "See Note xx"
- in the Comments field and produce a hyperlink to a named destination in the
- PDF file(s) listed as "SupplementalDoc" in the define.xml. If more than one
- external derivation is needed in supplemental data definitions, then the
- sponsor may choose to add these to the same or different external
- documents, or possibly included as part of the reviewers' guide. These
- additional PDFs should be located in the current "sdtm" folder or where
- 522 determined by your regulatory department.
- 523 如果一个域内的某些变量的衍生定义较长且涉及到复杂的逻辑或图示,呈现
- 524 Comments列时,应提供一个链接到一个单独的PDF文件中的"备注(note)"事项。
- 525 这可以通过在样式表中搜索文本,如在注释字段"见备注事项 xx"并产生一个超链接到
- 526 define.xml "SupplementalDoc"中某个PDF文件。如果在定义数据时有必要补充一
- 527 个以上的外部衍生,那么申办方可以选择将这些内容添加到相同或不同的外部文件,或
- 528 作为"评审者指南"的一部分。这些额外的PDF文件应位于当前"sdtm"文件夹或由您
- 529 的注册管理部门确定。

3.4 Value-Level Metadata

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The normalized data structure of the SDTM Findings Class and Supplemental 531 Qualifiers (SUPP--) datasets provide an efficient standardized structure for 532 the exchange of data. Since different types of observations may be 533 presented in the same structure, there is a need to provide additional 534 metadata to describe the nature of the data included in the dataset. For 535 example, if heart rate, weight, and frame size are collected for a vital signs 536 dataset, heart rate is typically collected as a numeric integer value, weight is 537 often collected with fractional numeric values (data type = float), and frame 538 size may be collected as a coded character field (SMALL, MEDIUM, LARGE). 539 This variability is not evident when looking at the variable metadata for the 540 VS dataset. For these types of normalized datasets, all test codes 541 542 (--TESTCD values) should be provided as well as the attributes of the results for each test code. In some cases a complete list may be accessible by a link 543 on -TESTCD (e.g. VSTESTCD), in other cases a hierarchical categorization of 544 --TESTCD values is used (e.g. LB). See further discussion below. Likewise, 545 for Supplemental Qualifiers datasets, a list of variables (QNAM values) and 546 their attributes should be provided. This information is "value-level" 547 metadata since it varies based on the value of a particular variable 548 (--TESTCD and QNAM values). Value-level metadata are required for 549 Findings Class and Supplemental Qualifiers. Although not required, a 550 sponsor may find it useful to use value-lists for variables within Events and 551 Interventions. 552 SDTM发现类及补充修饰语(SUPP--)数据集的纵向数据结构为数据交换提供了一个高 553 效的标准化结构。因为不同类型的观测结果可以用相同的结构来记录,为此有必要提供 554 额外的元数据来描述数据集的数据的性质。例如,如果心率、体重和胸廓大小的数据搜 555 集在生命体征数据集里,心率的值通常是整数,而体重通常是小数数值(数据类型=浮 556 点型),胸廓大小是编码字符字段(小、中、大)。从变量级别元数据来看,这种差异 557 在VS数据集里并不明显。对于这些纵向(标准化)数据集,应提供所有检测代码(-558 TESTCD值)及每个检测结果的属性。在某些情况下可以通过在-TESTCD的链接(如 559 VSTESTCD) 获得一个完整的列表,而在其他情况下应使用分层分类的 - TESTCD值 560 561 (如LB),详见下文。同样地,对于补充修饰语数据集,应提供变量(QNAM值)以 及各自属性的列表。这个信息是"值级别"的元数据,因为它基于特定变量的值(-562 TESTCD和QNAM值) 而变化。发现类及补充修饰语需要设定值级别的元数据。虽然不 563 是必需的,但在事件和干预中对变量使用值列表可能会对申办方非常有用。 564

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In the define.xml, def:ValueListDef, ItemRef and ItemDef are used to describe value-level metadata (See Table 3.3.2.1). The use of ItemRef and ItemDef is the same as for variable level metadata (see section 3.3.2). This structure allows values to be defined once and used in multiple datasets. For example, the value list for IETESTCD, describing protocol inclusion and

- exclusion criteria, could be defined once and used in both the IE and TI
- 572 datasets.
- 573 在define.xml中,def: ValueListDef, ItemRef和ItemDef 被用于描述值级别的元
- 574 数据(见表3.3.2.1)。ItemRef和ItemDef的使用类似于变量级别元数据的使用(参
- 575 见3.3.2节)。这种结构则允许值只需定义一次,便可被多个数据集使用。例如,对于
- 576 IETESTCD的值列表,只需定义一次试验方案入选和排除标准的描述,便可同时在IE
- 577 和TI数据集里使用。

- Value-level metadata are described using the same attributes as
- variable-level metadata. The Name and Label attributes list all possible
- values and corresponding labels for the variable. For example, in a
- Findings Class dataset such as VS, a row for each possible value of
- VSTESTCD would be described with labels matching the corresponding
- VSTEST values. For Supplemental Qualifiers datasets, all possible values of
- 585 QNAM would be described with corresponding labels matching QLABEL.
- 586 描述值级别的元数据所使用的属性与变量级别的相同。通过Name(名称)和Label(标
- 587 签)属性来列举该变量所有可能值和对应标签。例如,在一个发现类数据集如VS,每一
- 588 排描述了一个可能的VSTESTCD值,及与VSTEST值相匹配的标签。而对补充修饰语
- 589 数据集, QNAM所有可能的值都会由其相匹配的QLABEL标签值来描述。

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- The remaining attributes (DataType, CodeListRef, Origin, Comment, etc.)
- describe the result. For Supplemental Qualifiers datasets, these attributes
- 593 describe QVAL. For Findings Class datasets that include both original and
- standardized results, define.xml is limited in that it has a mechanism to
- 595 describe only one result. The metadata should describe the original result
- when there is one. If necessary, a comment or computational method may
- be included to describe the derivation of the standardized result.
- 598 其余的属性(DataType, CodeListRef, Origin, Comment等)用来描述结果。对于
- 599 补充修饰语数据集,这些属性用来描述QVAL。对发现类数据集,它可能同时包含原始
- 600 结果和标准化结果,但define.xml被限制的只能描述一个结果。当只能选一个时,元
- 601 数据应说明原始结果。若必要,应加入注释或计算方法来描述标准化结果的衍生。

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- For an illustration of these concepts refer to the VS dataset in the define.xml.
- In the display, in the variable-level table, a hyperlink is associated with
- variable VSTESTCD. This hyperlink is created by the stylesheet when
- finding a def:ValueListRef element child element of the variable-level
- 607 ItemDef. Follow this link to view the value-level metadata for VSTESTCD.
- Note the following:
- 609 在define.xml中, VS数据集阐明了这些概念。变量级别表格中会显示: 有一个超链接
- 610 会关联到变量VSTESTCD上。此超链接是样式表在变量级别ItemDef查找
- 611 def:ValueListRef的子元素时创建的。点击此链接可以查看VSTESTCD对应的值级别
- 612 的元数据。请注意以下几点:

- 614• In the value-level metadata table, all possible values for VSTESTCD for this
- study are shown as well as their corresponding labels. The test code values
- and labels shown in the define.xml metadata match those found in the VS
- dataset in variables VSTESTCD and VSTEST.
- 618● 在值级别的元数据表中,应显示本研究所有可能的VSTESTCD值都以及其相应的标签。
- 619 VSTESTCD和VSTEST变量在define.xml元数据显示的检测代码值和标签应与VS数
- 620 据集里的值相匹配。

- 622• Data type reflects the way the original result (VSORRES) was collected for
- each test code. The data type (text, integer, float), length, and number of
- significant digits varies based on the value of the test code.
- 625● Data type反映了每个检测代码原始结果(VSORRES)的采集方式。不同的检测代码,
- 626 其数据类型(文本,整数,浮点数)、长度和小数位数不同。

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- 628 Origin describes where each value originated. In this example, all vital
- signs test results were collected using a CRF page, but it would be possible
- 630 for tests to appear on different pages or a mix of sources such as CRF and
- eDT (electronic data transfer).
- 632● Origin描述每个值的来源。在这个例子中,所有的生命体征检测结果是通过CRF页来采
- 633 集,但它有可能是来源于CRF不同页面的检测项目,或诸如CRF和eDT(电子数据传输)
- 634 的混合来源。

635

- 636 A link to the codelist associated with FRMSIZE is displayed in the rendered
- 637 Controlled Terms or Format column. This codelist provides a discrete list of
- 638 possible values for VSORRES when the test code is FRMSIZE. Note that in
- the variable-level metadata, a codelist is not associated with VSORRES since
- the codelist is not applicable to all records within the dataset.
- 641● 与FRMSIZE相关的编码表链接是在受控术语或格式列中显示。当检测代码是FRMSIZE,
- 642 这个编码表提供了VSORRES所有可能的离散值列表。另外在变量级别元数据中,编码
- 643 表不与VSORRES关联,因为编码表并不适用于数据集内的所有记录。

- In some circumstances, it may be necessary to "nest" value-level metadata
- in order to group topic variables because the topic variable alone is not
- specific enough to represent the attributes. For example, if multiple
- 648 questionnaires are collected and included in a single QS dataset, the data
- might best be described by first providing a value list reference for QSCAT.
- This value list would describe each questionnaire collected. Then a value list
- could be associated with each QSCAT value. Each "secondary" value list
- would describe the test codes and result attributes particular to each
- 653 questionnaire. Likewise, when using the CDISC standard laboratory test
- code dictionary, it may be necessary to nest on lab specimen, method, etc.
- in order to provide appropriate descriptions of different types of results that
- share the same test code. For example, serum glucose, quantitative urine

- 657 glucose, and qualitative urine glucose (dipstick) all share the same
- 658 LBTESTCD value (GLUC), but may have different data types, origin, length,
- 659 etc.
- 660 在某些情况下,有可能通过嵌套值级别的元数据来对主题变量分组,因为独立的主题变
- 661 量不能够充分地代表观测结果的属性。例如,多个问卷被采集,但被包含在一个QS数
- 662 据集中,这些数据最好首先通过QSCAT的参考值列表来描述。此值列表会描述每一个
- 663 用于采集的问卷,然后该值列表可以与QSCAT的每个值相关联。每一个"次要"值列表
- 664 将描述针对每一个问卷调查的检测代码和结果属性。同样,采用CDISC标准的实验室
- 665 检测代码字典的时候,可能有必要嵌套实验室的标本、方法等,从而对那些不同类型而
- 666 又享有相同检测代码的结果提供适当的描述。例如,血糖,定量尿糖,和定性尿糖(试
- 667 纸)都有着相同的LBTESTCD值(GLUC),但可能有不同的数据类型,如来源、长度
- 668 等。

- The sponsor should decide when multiple levels are required in order to
- properly describe the attributes of a test. In the sample submission
- define.xml, -CAT was nested for QS, LB, and IE. Again this is only an
- example and the sponsor should customize the define.xml and stylesheet to
- display their data in a logical manner.
- 675 申办者应决定何时需要多层次结构才能正确描述检测的属性。在define.xml案例中,
- 676 -CAT嵌套了QS、LB和IE。再次声明,这仅仅是一个例子,申办方应当对define.xml
- 677 和样式表进行自定义,以合理的方式展示他们的数据。

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- The above concepts are illustrated in the define.xml of the sample
- submission. Further explanation of the implementation can be found in
- 681 Section 6.3.
- 682 上述概念在递交示例的define.xml中有所说明。进一步的解释可以在第6.3节中找到。

683

- In the questionnaire datasets the following are noted:
- 685 在问卷数据集里,需注意以下几点:

686

- 687• In the variable-level table, a link is associated with variable QSCAT. The
- value-level metadata for OSCAT can be seen when the link is opened.
- 689● 在变量级别表中,QSCAT变量与一个链接相关联。打开链接可以看到QSCAT的值级别
- 690 元数据。
- 691• In the value-level metadata table, the values of QSCAT describe the
- 692 questionnaires included in the QS dataset. Each questionnaire value is a
- 693 link (this is the "nesting" described above). The link should lead to a view of
- the test codes (questions) associated with each questionnaire.
- 695● 在值级别元数据表中,QSCAT值描述了QS数据集里包含的问卷。每个问卷值是一个链
- 696 接(如上述的"嵌套")。这个链接应连接到每个问卷的检测代码(问题)的视图上。

- In the laboratory dataset, the following are noted:
- 699 在实验室检测数据集里,需注意以下几点:

- 700• In the variable-level table, a link is associated with variable LBCAT. The
- value-level metadata for LBCAT can be seen when the link is opened.
- 702● 在变量级别表中,LBCAT变量与一个链接相关联。打开时链接可以看到LBCAT的值级
- 703 别元数据。
- 704• In the display of the value-level metadata table, the values of LBCAT
- describe the test categories (CHEMISTRY, HEMATOLOGY, and URINALYSIS).
- Each category has a link (this is the "nesting" described above) to Specimen
- 707 (LBSPEC) since the specimen further defines the uniqueness of a LBTESTCD.
- 708 This distinction is necessary since the same LBTESTCD is used within
- 709 multiple LBCATs.
- 710● 在显示值级别元数据表时,LBCAT的值描述了检测类别(化学、血液学和尿分析)。每
- 711 个检测类别都有一个链接(如上述的"嵌套")到样本变量(LBSPEC),由此进一步确
- 712 定LBTESTCD值的唯一性。这种区分是必要的,因为同一LBTESTCD会被多个检测类
- 713 别(LBCAT)使用。
- 714• LBCAT="URINALYSIS" uses the same LBTESTCD (GLUC) and the same
- LBSPEC (URINE) and needs further categorization by method
- 716 (LBMETHOD=DIPSTICK OR QUANT) to ensure the uniqueness of the test.
- 717 The sample submission define.xml and stylesheet have been modified to
- 718 demonstrate this categorization.
- 719● LBCAT="尿分析"使用相同的LBTESTCD(GLUC)和相同的LBSPEC(尿液),需要
- 720 进一步根据检测方法(LBMETHOD=试纸或定量)来分类从而保证检测的唯一性。递
- 721 交示例的define.xml和样式表已被修改来展示这种分类。

722 3.5 Controlled Terminology 受控术语

- 723 The Controlled Terminology used in a study, whether it is Sponsor defined,
- 724 CDISC defined, or extracted from an external dictionary, must be included in
- the SDTM metadata. All possible values for the variable within the trial
- should be included in the define.xml, except in the case of external
- dictionaries. The values for a variable in the SDTM datasets must match
- the list of controlled terminology in the define.xml, including case sensitivity.
- 729 If a value of "MULTIPLE" was a potential value for a variable associated with
- 730 a codelist, "MULTIPLE" should be included in the codelist. This
- 731 recommendation pertains to both sponsor-defined and CDISC-defined
- codelists, including those designated as non-extensible. See the DM.RACE
- variable in the sample submission for an example. Values that are
- represented as value-level metadata (e.g. --TESTCD,--TEST) need not be
- 735 repeated in the controlled terminology/code list section of the define.xml. It
- is important to note that, at the value-level, the codelist is associated with
- the --ORRES variable as opposed to either the --STRESC or the -STRESN
- 738 variables.
- 739 在一个研究中使用的受控术语,无论是申办方定义的,CDISC定义的,或从外部词典
- 740 提取的,都必须被包括在SDTM元数据。除了在使用外部词典的情况下,变量在试验中
- 741 的所有可能的值应该被包括在define.xml。SDTM数据集里变量的值必须与

- 742 define.xml的受控术语列表相匹配,包括大小写。如果"MULTIPLE"是与编码表关联的
- 743 变量的可能值,那么"MULTIPLE"应包含在编码表。该建议适用于申办方定义和CDISC
- 744 定义的编码表,包括那些指定为不可扩展的编码表。参看递交示例中DM.RACE的变量
- 745 示例。代表值级别元数据的那些值(-- TESTCD, --TEST)不需要在define.xml的
- 746 受控术语/代码列表中重复。需注意的是,在值级别中,编码表与--ORRES变量相关联,
- 747 而不是与-- STRESC或--STRESN变量。

748 **3.5.1 Define.xml**

749 Table 3.5.1.1 - Controlled Terminology Metadata

XML Field	Stylesheet Display*	Description		
CodeList attributes				
OID		Identifier for the codelist		
Name*	Controlled Terms or Format	Name of codelist		
DataType		Type of code. SDTM data uses a value of "text" in most cases.		
CodeList Child Elements*				
CodeListItem	Controlled Terms or Format	An entry in the CodeList. Either a CodeList or ExternalCodeList element is required		
ExternalCodeList	Controlled Terms or Format	Details of an external CodeList Either a CodeList or ExternalCodeList element is required.		
CodeListItem attributes				
CodedValue*	Code Value	The value of the code		
def:Rank		Can be used for ordering of values e.g. Codelist		
		for VSTESTCD = FRMSIZE: 1 = SMALL, 2 =		
7	11/1/1	MEDIUM, 3 = LARGE		
CodeListItem Child Elements				
Decode*	Code Text	If the CodedValue is self explanatory this may		
		be an exact copy. If the CodedValue is an		
< /		abbreviation the decode is the full description.		
Decode Child Elements				
TranslatedText*	Code Text	The translated "text" of the code associated		
1		with the Decode element.		
ExternalCodeList attributes		If an external code list is used the following		
		attributes can be specified		
Dictionary ₂	External Dictionary	Name of dictionary.		
Version ₂	Dictionary Version	Dictionary version.		

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Table 3.5.1.1 - 受控术语元数据

XML 属性	样式表显示	备注			
CodeList 属性					
OID		编码表的识别符			

Name*	Controlled Terms or	编码表的名称			
	Format				
DataType		编码的数据类型。SDTM数据在大多			
		数情况下是"text"。			
CodeList 子元素*					
CodeListItem	Controlled Terms or	在代码表中的条目。CodeList或			
	Format	ExternalCodeList必选其中一项			
ExternalCodeList	Controlled Terms or	外部编码表的细节。CodeList或			
	Format	ExternalCodeList必选其中一项			
CodeListItem 属性 ¹					
CodedValue*	Code Value	编码的值			
def:Rank		可以对值进行排序, 如编码表中, 当			
		VSTESTCD = FRMSIZE: 1 =			
		SMALL, 2 = MEDIUM, 3 =			
		LARGE			
CodeListItem 子元素 ¹					
Decode*	Code Text	如果CodedValue能自解释,那这里			
	12	仅是相同的复制。如果CodedValue			
	1/2	是缩写,则这里是全称。			
Decode 子元素					
TranslatedText*	Code Text	与Decode元素相关的代码翻译成的			
		"文字"。			
ExternalCodeList 属性		如果使用一个外部代码列表,则通过			
		以下属性来指定			
Dictionary ²	External Dictionary	字典名称			
Version ²	Dictionary Version	字典版本			

- * Attributes recommended to be displayed. However attributes actually displayed are determined by the sponsor in the stylesheet.
- 754 *推荐显示的属性。但最终显示的属性由申办方的样式表决定。
- Paired variables, containing the same data in different ways, can be represented using CodedValue and Decode. Examples of this may include the pair ARMCD and ARM.
- 758 ¹ 配对变量,以不同的方式涵盖相同的数据,可以使用CodedValue和Decode来表示,。 759 例如ARMCD和ARM。
- Dictionary and version are used for the ExternalCodeList attributes. They are used to specify the external coding dictionary and the version that was used for coding (e.g. MedDRA 9.0). In the sample define.xml, an external
- codelist (with OID "AEDICT_F") was included for the SDTM variable
- "AEDECOD". Similarly, an external codelist (with OID "DRUGDICT_F") was included for the SDTM variable "CMDECOD".
- 766 ² 字典和版本用于ExternalCodeList属性。它们被用来指定外部编码字典和用于编码的
- 767 版本(例如MedDRA的9.0)。在示例define.xml,外部编码表(OID为"AEDICT F")

768 被列入了SDTM变量"AEDECOD"。同样,外部编码表(用OID"DRUGDICT_F")被 列入了SDTM变量"CMDECOD"。

3.5.2 CDISC Controlled Terminology CDISC 受控术语

- 771 CDISC **Controlled Terminology** is constantly being updated. Currently
- there is a phased approach for developing controlled terminology. It is
- recommended that the sponsor uses the controlled terminology defined by
- 774 CDISC, which may require a planned transition. If the sponsor decides to
- map their existing data to CDISC terminology when creating the SDTM
- datasets, an explanation of the mapping should be provided. In simple
- cases this mapping can be done through CRF annotations (see MHENRF in
- the annotated CRF). In other cases the use of the define.xml comments
- field can specify that mapping took place. If the mapping from sponsor
- data to SDTM controlled terminology is ambiguous, a further explanation of
- the mapping can be provided in either the comments or the supplemental
- 782 data definition.

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- 783 CDISC 受控术语一直在更新. 目前在分阶段开发受控术语。建议申办方使用由CDISC
- 784 定义的受控术语,但这可能需要一个过渡计划。如果申办方在创建SDTM数据集时决定
- 785 将其现有的数据映射到CDISC术语,则应提供映射的解释。在简单的情况下,这种映
- 786 射可以通过CRF的注释来完成(见注释CRF的MHENRF)。其他情况下可以使用
- 787 define.xml注解栏来说明映射过程。如果从申办方的数据映射到SDTM受控术语是模糊
- 788 不清的,需提供注释或补充数据定义来进一步解释其映射过程。

789 3.6 Stylesheets for the Define.xml Define.xml 的样式表

- 790 A stylesheet is a tool to transform an XML file to a different format. One use
- of a stylesheet is to dynamically transform XML to HTML, so that the XML
- document can be displayed in a user-friendly way within a browser. While
- the XML is designed to house the data, the stylesheet is designed to display
- the data. Stylesheets are required when submitting define.xml files to the
- 795 FDA.
- 796 样式表是一种将XML文件转换为不同格式的工具。样式表的其中用途是使动态地将XML
- 797 转换为HTML,以便XML文档以用户友好的方式显示在浏览器中。XML被设计用于储存
- 798 数据,其样式表则被设计用来显示数据。当define.xml文件递交到FDA时,必需包含
- 799 样式表。

- There is a basic stylesheet available for download at the CDISC website or
- sponsors may use the stylesheet included in the sample submission. CDISC
- does plan to develop stylesheets in the future. For now, sponsors have the
- option of developing their own stylesheet or modifying the sample provided.
- The sample submission stylesheet takes care of displaying the minimal
- amount of information to the reviewer, but also includes functionality such
- as bookmarking and links to simplify navigation.
- 808 CDISC网站现有一个基本样式表可供下载,或者申办方也可使用包含在递交示例中的

- 809 样式表。 CDISC计划在未来开发更多样式表。现在,申办方可以定制自己的样式表或
- 810 对CDISC提供的示例进行修改。递交示例中的样式表根据评审员的需要尽可能少地显
- 811 示信息,但同时也包括一些功能,例如书签和链接,以方便导航。

3.7 Define.xml Schema Validation Define.xml Schema

- 813 验证
- The define.xml schema needs to be validated prior to submission. A useful
- reference is the XML Schema Validation white paper found on the CDISC
- 816 website:
- 817 define.xml schema需要在递交之前进行验证。CDISC网站中的XML Schema验证白
- 818 皮书提供了一个有用的参考供下载:
- http://www.cdisc.org/stuff/contentmgr/files/0/464923b10ea16b477151fc
- aa9f465166/misc/definereport_v1_0.pdf
- A number of approaches can be taken in validating the define.xml against
- the XML-schema and against the define.xml specification, including the use
- of third-party tools. These tools each have their own interpretation of the
- requirements for valid XML as per the ODM and define.xml standard, and it
- is incumbent on the sponsor to understand and evaluate these
- interpretations. If validation issues are found relating to an interpretation
- of a requirement, this should be noted in the Reviewers' Guide
- 828 可以采取许多方法对照XML schema和define.xml说明来验证define.xml,包括使用
- 829 第三方工具。按照ODM及define.xml标准来验证XML,每个工具对该要求都可有自己
- 830 的解释, 申办方有义不容辞的责任来了解和评价这些解释。如果在对有关的要求进行解
- 831 释时发现了验证问题,应该记录在"评审者指南"中。

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4 Guidelines for Annotating and

Bookmarking CRFs 注释和标记 CRF 指南

4.1 Basic Principles for Annotations 注释的基本原则

- 836 Sponsors may choose any available tool for creating annotations.
- 1837 Irrespective of the tool used, the annotations should be searchable, (i.e.
- text-based), to enhance the review process. Since the blankcrf.pdf supports
- the review process, the annotations should reflect the data that are
- expected to be submitted within the SDTM. In the event that data were
- intended to be collected for a variable, but none actually was, the annotated
- CRF will represent the data that would have been submitted had data been

- received. It is not necessary to re-annotate the blankcrf.pdf to indicate that data were not collected. Sponsors may choose to add this information to
- their Reviewers' Guide. Annotations of the operational data, while normally
- needed by the sponsor for data management, should not be included on the
- blankcrf.pdf that is used for submission of the SDTM data.
- 848 申办者可以选择任何可用的工具创建注释。不论使用什么工具,注释都应该是可搜索的,
- 849 (例如:基于文本的),以提高审阅过程。由于blankcrf.pdf支持审阅过程,注释要能
- 850 反应出在SDTM中预期的递交数据。如果某个变量本来是要采集数据的,而实际情况却没
- 851 有采集,在注释CRF表中依然要标明这样的变量,因为如果有采集到数据的话,这些变
- 852 量本会被递交的。没有必要为了表示数据没有被采集而重新注释blankcrf.pdf。申办者
- 853 可以选择把这些信息添加到他们的审阅指南中。操作目的的数据注释通常是申办者用于
- 854 管理数据的,不应包含在用于递交SDTM数据的blankcrf.pdf中。

4.1.1 Annotating Unique CRF Pages 唯一 CRF 页的注释

- 856 Currently some sponsors include the entire casebook in the blankcrf.pdf
- while others include unique forms. Conventions that have traditionally been
- used for annotating a PDF rendition of paper CRFs may not translate to best
- practices when annotating eCRFs. For example, when a Vital Signs form is
- used at 10 visits, 10 physical copies of the form exist in a paper case book.
- In an eCRF there is one electronic Vital Signs form which is presented 10
- different times, once for each data collection instance.
- 863 目前一些申办者在 blankcrf.pdf 中包含了病例报告表的所有页,其他的申办者只包含
- 864 了那些唯一表单。那些对纸质 CRF 的 PDF 格式进行注释的传统实践,在注释电子 CRF
- 865 时不一定是最佳的。例如,在 10 次访视中都有同一个生命体征表单时,如果使用纸质
- 866 的 CRF 就需要对这个表单进行十份物理拷贝。而在电子 CRF 中只有一张生命体征表,这
- 867 张表会出现在 10 个不同的时间,每次采集数据时出现一次。
- The purpose of the blankcrf is to represent the data collected in the study
- and where it resides within the SDTM. The recommended dual bookmarking
- (See Section 4.2) and TOC will provide the reviewer with an overview of the
- data collection flow for the study. Based on this premise the following
- annotation guidelines are provided:
- 873 blankcrf 的目的是要说明在研究中采集的数据及这些数据在 SDTM 中存在的位置。推荐
- 874 使用双书签(参见章节 4.2)和 TOC(目录),可以为审阅者提供这个研究的数据采集流
- 875 程的概述。基于这个目的,还有如下注释指南:
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- Include and annotate unique forms only. Bookmarking will present the form as many times as needed to reflect how the data were collected at the investigational site. For example, even though "Vital Signs" would be
- bookmarked in visits 1, 3, and 5, all three bookmarks would link to the
- unique vital signs page.
- 882 只包含和注释唯一表单。为了体现数据在研究中心是如何被采集的,可以根据需要883 对一个表单书签为多次。例如,虽然生命体征在第 1、3、5 次访视中都有做书签,
- 884 但所有这三个书签都会链接到唯一的生命体征页。

- If the sponsor chooses to submit the entire CRF rather than unique forms, the sponsor should annotate the first occurrence only. Subsequent pages would not be annotated or linked back to the first annotated occurrence. Dual bookmarks described in Section 4.2 would be used to locate subsequent occurrences. Just as in the scenario in the previous bullet, the bookmarks for vital signs at visits 1, 3 and 5 would appear just as they would if only unique pages were submitted. The difference is that, in this case, the bookmarks would all link to the appropriate PDF page, with only the first occurrence being annotated.
- 假如申办者选择递交整个 CRF 而不是唯一表单,申办者应当只注释第一次出现的表 单。之后的页面不注释,也不链接返回到第一次注释出现的页面。章节 4.2 中描述 的双书签是用于定位后续的出现。前一种情况所述,生命体征在第1、3、5次访视 都会做书签,但只有唯一页面被递交。而这种情况的区别是,所有书签都将链接到 合适的 PDF 页面,但只有首次出现的页面会被注释。

899 When viewed through a web browser, the define.xml Origin column should 900 have a link to the page where the annotated variable appears. This is 901 illustrated in the sample submission. 902

通过浏览器查看时, define.xml的 Origin 列应当有一个链接指向注释变量出现的页面。 递交示例中有举例说明。

The metadata team recommends that when data are recorded on the CRF but are not submitted in SDTM, the CRF be annotated with the text "NOT SUBMITTED". For example, data which were used for operational purposes only, such as the question "Did subject take any concomitant medications?", will be annotated "NOT SUBMITTED" and the data will not be included in the datasets. Brackets are placed around the annotation text in the submission example ("[NOT SUBMITTED]"). The brackets are not required but do help to distinguish the submitted versus not submitted items. In the event that a dataset is not submitted because it is empty, the annotated CRF will show the annotations for the data that would have been submitted had data been received; it is not necessary to return to the CRF post data collection and change the annotation to indicate that no records were collected.

当数据虽录入到 CRF 中但未在 SDTM 递交时,元数据小组建议 CRF 注释应为"未递交"。 例如,只为操作目的使用的数据,比如问题"受试者是否服用了任何伴随药物?",这样 的数据将被注释为"未递交"并且不会包含在数据集中。在递交示例中使用了方括号("[未 递交]"),方括号不是必须的,但的确有助于区分递交和未递交的条目。对于数据集是空 的而未递交的情形,那么注释 CRF 将对那些采集到的才会递交的数据进行注释,没有必

要在事后返回到 CRF 更改注释以说明数据未采集。

Note: The FDA recommends the phrase "Not entered in database"; however, the metadata team recommends the phrase "NOT SUBMITTED", since items may be in the sponsor's operational database but not appropriate for SDTM

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- 928 submission (e.g. "Were there any adverse events?").
- 929 备注: FDA推荐用语"未录入数据库"; 然而, 因为这个条目可能出现在申办者的操作性
- 930 数据库中,但不适合SDTM递交(例如,"是否出现了不良事件?"),因此元数据小组
- 931 推荐用语为"未递交"。

4.1.2 Appearance of Annotations 注释的展现

- The annotated CRF should be prepared in compliance with FDA Study Data
- 934 Specifications. In addition, all text in the annotations that represent variable
- and domain names should be capitalized. If possible, the annotations should
- not obstruct any text on the CRF page. A sponsor may choose to resize the
- 937 domain annotation based on the CRF layout.
- 938 注释的CRF应该遵守FDA研究数据规范。此外,所有描述变量和域名的文本应该大写。
- 939 所有注释应尽可能不要遮盖CRF页面上的文本。申办者可以根据CRF的布局自行调整注
- 940 释的大小范围。

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- Each domain that is represented on a CRF page should have its own annotation on the left side of the CRF page with the 2 letter domain code and domain name (e.g. IE = Inclusion/Exclusion). Note that domain names rather than dataset names are annotated. SUPPQUAL dataset names do not
- need to be annotated since SUPPQUAL variables are annotated as part of the main domain. The same is true for split domains where domain names are
- 948 annotated rather than dataset names.
- 949 CRF页面上的每个域都应该在页面左侧附上包含2个字母的域代码和域名的注释(例如,
- 950 IE=入组/排除标准)。注意是注释域名而不是数据集名。因为SUPPQUAL变量已作为主
- 951 域的一部分被注释,因此SUPPQUAL数据集名没有必要重新注释。分割域也是这样的,
- 952 只注释域名,而非数据集名。

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- The following are optional recommendations that may be helpful for a reviewer when distinguishing between domains and variables within domains.
- 957 为了帮助审阅者区分是域还是域中变量注释,有如下可选推荐。

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- To distinguish the domain level annotations from the variable annotations a slightly larger font can be used for the domain annotations.
- 为了区分域注释和变量注释,可以对域注释使用稍大些的字体。
- If more than one domain exists on a page as each domain annotation, and all of its variables, should be color-coded. For an example, refer to the Demographics CRF. It is not necessary to continue the color scheme for a domain across CRF pages. A standard default color scheme can be used across all CRF pages, but if two or more domains exist on a single page then they should use different color schemes. If a CRF page has a large number of SDTM domains then the color difference might become less distinct, but in most cases, this will add a great amount of clarity to

970 the annotations.

971 • 如果一个页面上存在不止一个域,那么每个域注释以及它们的所有变量,应该标记
 972 不同的颜色。以人口学CRF为例,没有必要在CRF所有页面中为每个域使用一个配
 973 色方案。所有CRF页面可以使用一个标准默认的配色方案,但当两个及以上的域同时存在一页时,它们应使用不同的配色方案。如果一页CRF有大量的SDTM域,颜色将难以区分。但多数情况下,这样的注释会更清晰。

4.1.3 Annotating Findings Domains 发现类域的注释

Because of the vertical nature of the SDTM findings domains, it may be necessary to include the value of "--TESTCD" in the annotations. For example, annotating a field as simply VSORRES or VSORRESU is not sufficient; .it is necessary to indicate the VSTESTCD to which the result or units applies. When annotating "Systolic Blood Pressure" the recommended format would be "VSORRES/VSORRESU when VSTESTCD =SYSBP". For specific annotation examples refer to the blankcrf.pdf in the sample submission.

984 submission. 985 由于SDTM发现类域的垂直属性,注释中可能需要包含"--TESTCD"的值。例如,只是简 986 单的注释成VSORRES或者VSORRESU是不够的,需要指明VSTESTCD与哪个结果或单

987 位关联。注释"收缩压"的推荐格式是: "当 VSTESTCD =SYSBP 时,

VSORRES/VSORRESU"。详细的注释例参照递交示例的blankcrf.pdf。

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4.1.4 Annotating Supplemental Qualifier Variables 补充修饰

语变量的注释

When annotating SUPPQUAL variables, annotate the QNAM value and the SUPPQUAL dataset, for example, "RACEOTH in SUPPDM". The rationale for this approach is that the review tools join the supplemental values with the correct data row(s) from the parent domain and the reviewer needs to know only the variable name and that it originated in the supplemental dataset. 注释SUPPQUAL变量时,要注释QNAM值和SUPPQUAL数据集,例如"SUPPDM中的RACEOTH"。这个方法的原理是,审阅工具将补充变量值和父域里的数据行正确连接起来,审阅者不仅需要知道变量名,还要知道该变量在补充修饰语数据集中的位置。

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4.1.5 Annotating RELREC Records 关联记录的注释

Relationship data collected on CRF pages and documented in RELREC should be annotated. In the sample submission, adverse events are collected on the Adverse Events CRF as numbered running records and the AE number is mapped to AESPID. If a subject discontinues due to an AE, the relationship is established by entering the associated AE number (AESPID) on the Termination CRF. A RELREC record is created to link the discontinuation due to an adverse event record in DS to the related adverse event record in AE

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- via AESPID. This relationship is documented on the Termination CRF by the
- annotation "Linked to related AE record via RELREC." It is important to note
- $\,$ that the RELREC annotation is made on the Termination CRF, not on the
- 1012 originating Adverse Event CRF.
- 1013 在CRF页面采集的和在RELREC中记录的关联数据应该被注释。在递交示例中,不良事
- 1014 件以连续编号记录的形式采集在CRF不良事件页中,这个不良事件编号被映射到了
- 1015 AESPID。如果受试者因为不良事件终止了试验,在终止CRF页中录入其关联的不良事
- 1016 件编号(AESPID),那么这个关联就建立了。RELREC记录就是将DS域中因不良事件
- 1017 而终止的记录与其相关的不良事件记录通过AESPID关联起来。在终止CRF页中,这种
- 1018 关系被注释为"通过RELREC与相关不良事件关联"。需要特别注意的是,只有终止CRF
- 1019 页中有RELREC注释,原始的不良事件CRF页中没有此注释。

4.2 Bookmarking CRFs/eCRFs CRF/eCRF 书签

- Annotated CRFs included in the eCTD should be bookmarked 2 ways (dual
- bookmarking): bookmarks by timepoints, often analogous to planned visits
- in the study, and bookmarks by CRF topics or forms. SDTM domains do not
- necessarily have a 1-to-1 relationship with CRF topics or forms, nor is the
- reverse true. For example, in the annotated CRF, both DM and SC are
- collected on the Demography panel, while SC data are collected from the
- 1027 Enrollment Form and the Demography pages. The purpose of the dual
- bookmarking is to enhance the reviewers' ability to navigate through the
- unique CRFs either by timepoint or by CRF topic. There may not be a
- one-to-one relationship between CRF topics and SDTM domains.
- 1031 包含在eCTD中的注释CRF应以两种方式做书签(即,双书签):根据时间点做书签,
- 1032 类似于研究中的访视计划;根据CRF主题或表单做书签。SDTM的域不一定与CRF主题
- 1033 或表单是一对一的关系,反之亦然。例如,在注释CRF中,DM和SC都可以在人口学资
- 1034 料模块中采集,但SC数据可以从入组表单和人口学页面中被采集。双书签的作用是通过
- 1035 时间点或CRF主题来帮助审阅者更容易地找到唯一的CRF表。CRF主题和SDTM域之间
- 1036 可能没有一对一的关系。

- Bookmarks by timepoints should be ordered chronologically according to the study Time and Events Schedule (T&E) with study-level bookmarks
- (e.g., Adverse Events) presented last. Within each timepoint,topic
- bookmarks should appear in the order that they appear in the annotated CRF.
- 1042 ◆ 根据时间点做的书签,应该根据研究的时间与事件计划(T&E)按时间顺序排列,
- 1043 研究水平的书签(例如,不良事件)排在最后。在每个时间点中,主题书签应该以
- 1044 它们在注释CRF中出现的顺序展现。
- Bookmarks by topics should be ordered alphabetically. Within each topic all applicable timepoints should be ordered chronologically according to
- the T&E schedule.
- 1048 根据主题做的书签,应根据字母顺序排列。在每个主题中,所有可用的时间点应该

4.3 Table of Contents for the Annotated CRF 注释 CRF 目

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- The bookmarks act as Table of Contents (TOC) for the reviewers. Although it
- is not required, a printable TOC may be included at the beginning of the
- annotated CRF. This is intended to facilitate the review when the reviewer is
- using a printed version of the CRF, and serves the same purpose as the
- 1056 bookmarks for the electronic version.
- 1057 对于审阅者来说,书签就类似于目录。虽然不是必需的,但注释CRF的开头应包含可打
- 1058 印的目录。这是为了使审阅者在使用打印版的CRF时更方便审阅,同样也方便作为书签
- 1059 存在于电子版中。

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- 1061 There are several commercially available PDF tools available which will
- create a TOC based on the bookmarks. However; it is possible to create a
- 1063 TOC using word processing software, as was done in the sample submission.
- Additionally, the TOC should be hyperlinked to the appropriate page.
- 1065 有很多商业PDF工具可以用来基于标记生成目录,然而,就像递交示例那样,使用文字
- 1066 处理软件来创建目录也是可行的。此外,目录应该链接到相应的页面。

5 Submission Data Sets 递交数据集

- The purpose of this section is to highlight noteworthy aspects of domains in
- the sample submission that accompanies this document. Since these are
- examples, the subsections that follow may describe an implementation
- 1071 choice made by the SDS Metadata Team. The order of the domains in this
- section follows the order of the domains as they appear in the define.xml
- 1073 document.
- 1074 本章节的目的是为了强调递交示例中的域模型值得注意的地方,递交示例附带在本文档
- 1075 中。因为这些只是示例,接下来的内容可能只是SDS元数据团队的一个执行选择。本章
- 1076 节中域的编排顺序和它们在define.xml的顺序保持一致。

5.1 Trial Design 试验设计

5.1.1 General Considerations 一般注意事项

- 1079 The Trial Design domains describe the overall characteristics of the study.
- 1080 Presently, five Trial Design domains are defined.

1082 5.1.2 Trial Arms (TA) 试验分组(TA)

- 1083 ARMCD can be up to 20 characters in length with no special character
- restrictions. The arm name (ARM) variable length must not exceed 200
- characters due to SAS version 5 transport requirements.
- 1086 ARMCD的长度不能超过20个字符,没有特殊字符限制。由于SAS 版本5的传输要求,
- 1087 分组名 (ARM) 不能超过200个字符。

1088 5.1.3 Trial Inclusion/Exclusion Criteria (TI) 试验入/排标准(TI)

- 1089 The full inclusion/exclusion criteria text should be stored in IETEST and
- corresponding metadata. When inclusion/exclusion text is greater than 200
- characters one of the following options could be considered.
- 1092 完整的入选/排除标准应该存储在IETEST和相应的元数据里。当入选/排除标准文本长
- 1093 度超过200字符时,可以考虑下面的方法。
- If the annotated CRF contains the inclusion/exclusion criteria, insert
- either the first 200 characters or the text of the criteria abbreviated to
- 200 characters in TI. In the rendered define.xml Origin column for
- 1097 IETESTCD provides a link to the annotated CRF page that contains the
- full inclusion/exclusion text.
- 1099 如果注释CRF包含了入选/排除标准,要么取前200个字符,要么将文本缩短到200
- 1100 个字符以内,然后放到TI中。在define.xml中,IETESTCD的Origin列提供一个链
- 1101 接,指向包含有完整入选/排除标准的注释CRF页面。
- If the annotated CRF does not specify the full inclusion/exclusion text, it
- is recommended that a PDF be created to store the full
- inclusion/exclusion criteria text. Through the stylesheet, provide a link to
- the PDF containing the full inclusion/exclusion criteria text in the
- comments column of the IETESTCD variable. Store the PDF in the SDTM
- 1107 submission folder.
- 如果注释CRF没有详细说明完整的入选/排除标准,建议创建一个PDF文件来存储完
- 1109 整的入选/排除标准。通过样式表,在IETESTCD的comments列提供一个链接,
- 1110 指向包含有完整入选/排除标准的PDF文件,并将该PDF文件存储在SDTM递交文件
- 1111 夹中。

5.2 Special-Purpose Domains 特殊目的的域模型

1113 5.2.1 Demographics (DM) 人口学(DM)

1114 The CDISC SDTM-defined Demographics (DM) domain has one record for

- each subject who was randomized, was a screen failure, or passed the
- inclusion criteria but was never assigned to an ARM.
- 1117 在CDISC SDTM定义的人口学(DM)域中,每个受试者只有一条记录,要么被随机分
- 1118 组,或者筛选失败,或者通过了入选标准但是从未被分组。

- 1120 **5.2.1.1 General Considerations** 一般注意事项
- 1121 Reference start date/time (RFSTDTC) and reference end date/time
- (RFENDTC) are sponsor-defined items and the sample submission uses the
- 1123 Comments field in the define.xml to define the logic used to populate the
- values. RFSTDTC and RFENDTC are null for screen failures.
- 1125 基准开始时间(RFSTDTC)和基准结束时间(RFENDTC)是申办者定义的条目。递
- 1126 交示例在define.xml的Comments里面定义赋值的逻辑。筛选失败时RFSTDTC和
- 1127 RFENDTC为空值。

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- 1129 A subject who was a screen failure is included in the sample submission and
- identified according to the recommendation in the SDTMIG (ARM = "Screen
- 1131 Failure" and ARMCD="SCRNFAIL").
- 1132 筛选失败的受试者也包含着递交示例中,可以根据SDTMIG的建议识别出来(ARM =
- 1133 "Screen Failure"和ARMCD="SCRNFAIL")。

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- Subjects with a RACE value of OTHER or MULTIPLE in the sample submission
- have additional data regarding race in the SUPPDM dataset.
- 1137 递交示例中,当受试者的RACE是OTHER或者MULTIPLE时,有关于种族的补充数据被
- 1138 记录在SUPPDM数据集。

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- 5.2.1.2 Define.xml Considerations Define.xml 注意事项
- In the sample submission DM has collected and derived supplemental
- 1142 qualifiers. There are two ways to view the data definition of the
- Supplemental Qualifier dataset using the define.xml stylesheet. One way is
- a link to the SUPPDM dataset from the dataset-level table. A second way is
- a link within the stylesheet, at the end of the DM domain, to the value-level
- metadata for the supplemental dataset. For convenience, an additional link
- is included at the end of the value-level metadata for the SUPP datasets to
- return the viewer to the parent DM domain.
- 1149 在递交示例中,DM采集并衍生了补充修饰语。使用define.xml样式表,有两种方法可
- 1150 以看到对补充修饰语的数据定义。第一种方法,从数据集水平的表单中的SUPPDM直接
- 1151 就能链接过去。第二种方法是,在DM域的下面有一个链接指向补充数据集的值水平元
- 1152 数据。为了方便,在SUPP数据集的值水平元数据最后也有一个链接,可以返回到父域
- 1153 DM。

- 1155 The variable QNAM within SUPPDM has an associated value-level metadata
- list. The link on QNAM displays the value-level metadata list and associated
- attributes of the supplemental items. If the QNAM variable has an origin of

- 1158 CRF, there is a link to the annotation in the rendered Origin column. If the
- origin is specified as derived, the derivation, or a link to that derivation,
- must always be in the Comments field.
- 1161 SUPPDM中的QNAM变量有一个相关的值水平元数据列表,QNAM的链接显示为值水
- 1162 平的元数据列表和补充条目的相关属性。如果QNAM变量来源于CRF,在Origin列需要
- 1163 有一个链接指向CRF上相应的注释处;如果是衍生而来的,Comments里必须有衍生
- 1164 的方法,或者是指向衍生方法的链接。

- 5.2.1.3 Additional or Related Data, Supplemental Qualifiers 额外数据
- 1167 或相关数据,补充修饰语
- 1168 The population flags used within the SDTM submission are stored as
- supplemental qualifiers and defined in SUPPDM. In the sample submission a
- population flag (SAFETY) and a randomization flag (RAND) are stored in
- 1171 SUPPDM.
- 1172 在SDTM递交里用到的人群标帜作为补充修饰语被存储和定义在SUPPDM里。在递交示
- 1173 例中,人群标帜(SAFETY)和随机化标帜(RAND)被存储在SUPPDM里。

1174

- Data collected regarding 'Race, Other' or multiple races are in the SUPPDM
- dataset. In the sample submission, QNAM values of RACEOTH, RACE1,
- 1177 RACE2, and RACE3 contain 'Race Other' and multiple collected races.
- 1178 关于"其他种族"和多种族的数据记录在SUPPDM里。在递交示例中,QNAM中
- 1179 RACEOTH, RACE1, RACE2和RACE3这些值包含了"其他种族"和多种族的信息。

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- In the sample submission, randomization number and randomization flag
- are annotated on the CRF and defined as supplemental qualifiers for
- Demographics. These randomization variables are not required and, in
- many cases, may be coming from an IVRS or a source other than the CRF.
- 1185 在递交示例中,随机编号和随机化的标帜在CRF上有被注释出来,并定义为人口学补充
- 1186 修饰语。这些随机变量并非必须的,在许多情况下,可能出自于IVRS或者CRF之外的
- 1187 来源。

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5.2.2 Subject Visits (SV) 受试者访视 (SV)

- The Subject Visits (SV) domain relates to the Trial Visits (TV) domain as
- demonstrated in the sample submission. The SV domain records the visits,
- including the visit start dates, end dates, and planned visit day in relation to
- the reference start date. The visit number, description and planned visit day
- for planned visits are identical to the corresponding items in the TV domain.
- 1194 正如递交示例所显示的一样,受试者访视(SV)域与试验访视(TV)域相关。SV域记
- 1195 录了访视,包括访视的开始时间,结束时间和相对于基准开始时间(RFSTDTC)的计
- 1196 划访视日。其中访视编号,访视名称和计划访视日和TV域里对应的条目完全一样。

5.3 Interventions 干预类

5.3.1 General Considerations 一般注意事项

- 1199 Treatments within the Interventions domains are often coded using an
- external dictionary. The Dictionary reference and version must be specified
- in the define.xml using the define.xml ExternalCodeList element, and
- Dictionary and Version attributes. The dictionary and version should not be
- specified in the Comments field as recommended prior to version 3.1.2 of
- 1204 the SDTMIG.
- 1205 通常会使用外部词典来编码干预措施域里的治疗,参考词典和版本必须在define.xml
- 1206 中使用ExternalCodeList元素,Dictionary和Version属性详细说明,不应如SDTMIG
- 1207 3.1.2之前的版本所建议的,在Comments里说明参考词典和版本。

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5.3.2 Concomitant Medications (CM) 伴随用药(CM)

- 1210 The Concomitant Medications (CM) dataset in the sample submission
- contains data from the Concomitant Medication and Psychotropic Drug
- 1212 Treatment History forms. The Concomitant Medication Category (CMCAT)
- variable is used to identify the type of medication and has values of either
- 1214 "CONCOMITANT MEDICATIONS" or "PSYCHOTROPHIC DRUG TREATMENT
- 1215 HISTORY."
- 1216 递交示例中的伴随用药(CM)数据集包含合并用药及精神类药物治疗史这两个表格的
- 1217 数据。伴随用药分类(CMCAT)变量用于区分药物类型,有"合并用药"和"精神类药物
- 1218 治疗史"这两种值。

1219

- 1220 In the sample submission, modification of CMTRT was necessary to facilitate
- coding. Hence, CMMODIFY was included and contains the modified text.
- 1222 在递交示例中,为了便于编码,需要对CMTRT作出修改。因此,CMMODIFY被列入,
- 1223 它包含了修改后的文本。

1224

- The medication dose was collected as character in the sample submission.
- Hence, the dose on the Concomitant Medications CRF is annotated using the
- 1227 CMDOSTXT variable instead of CMDOSE, which is numeric.
- 1228 在递交示例中药物剂量作为字符型被采集,因此,合并用药CRF上的剂量被注释为
- 1229 CMDOSTXT,而不是数字型变量CMDOSE。

- For the route of administration, the sponsor mapped the CRF data to CDISC
- controlled terminology. Only the subset of the CDISC controlled terminology
- appropriate for the study was used to map the data.

- 1234 对于给药途径,申办者将CRF数据映射成CDISC受控术语。只有适合试验的那部分
- 1235 CDISC受控术语才被用于映射CRF数据。

1236 **5.3.3 Exposure (EX)** 暴露(EX)

- 1237 In the sample submission the value in EXDOSE is the amount of each
- administration which was taken. The number of tablets taken per
- administration is recorded on the CRF. The dose, EXDOSE, was derived by
- multiplying the number of tablets taken, (SUPPEX.QNAM=SMNO), by the
- dose contained in each tablet. The placebo doses within the submission were
- 1242 represented by zero doses.
- 1243 在递交示例中,EXDOSE的值是每次的给药总剂量。每次给药片数记录于CRF。总剂量
- 1244 EXDOSE是服用的药片数(SUPPEX.QNAM=SMNO)和每片所含药量的相乘。在递
- 1245 交示例中,安慰剂的剂量用0来表示。

1246 **5.4 Events** 事件类

1247 **5.4.1 General Considerations** 一般注意事项

- 1248 Terms within the Events domains are often coded using an external
- dictionary. The Dictionary reference and version must be specified in the
- define.xml using the define.xml ExternalCodeList element, and Dictionary
- and Version attributes. The dictionary and version should not be specified in
- the define.xml Comments field as recommended prior to version 3.1.2 of the
- 1253 SDTMIG.
- 1254 通常使用外部词典来编码事件域里的词。参考词典和版本必须在define.xml中使用
- 1255 ExternalCodeList元素,Dictionary和Version属性详细说明,不应如SDTMIG 3.1.2
- 1256 之前的版本所建议的,在Comments里说明参考词典和版本。

1257 **5.4.2 Adverse Events (AE)** 不良事件(AE)

- In the sample submission, the sponsor's instructions for the "Ongoing"
- checkbox confirm that the adverse event was ongoing at the point of last
- 1260 contact. The AEENRF value defines the status of the adverse event in
- relationship to the reference period.
- 1262 在递交示例中,申办者对"正在进行"复选框的勾选确认为不良事件在最后联系时仍在进
- 1263 行。AEENRF的值定义了不良事件相对于参考期的状态。

5.4.3 Disposition (DS) 处置(DS)

- 1265 It may be necessary to rename, reformat and/or translate the data that
- were collected on the CRF in order to create appropriately formatted
- Disposition (DS) records. For example in the sample submission, a "Yes"
- response to the Termination CRF question "Did the subject complete the
- study?" was mapped as DSTERM "COMPLETED" and DSDECOD as
- 1270 "COMPLETED."
- 1271 为了创建格式合理的处置(DS)记录,可能有必要重命名、重格式化和/或翻译CRF上
- 1272 采集来的数据。例如,在递交示例中,终止CRF上的问题"受试者是否完成试验?"回答
- 1273 "是",于是,DSTERM = "COMPLETED" 并且DSDECOD = "COMPLETED"。

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- 1275 The reasons for discontinuation collected on the termination CRF do not
- comply with CDISC controlled terminology. The DS domain variable
- DSTERM contains the original termination reason from the CRF or a free text
- specification. The DS domain variable DSDECOD was mapped from the CRF
- values to match CDISC controlled terminology.
- 1280 终止CRF上采集的退出原因与CDISC受控术语并不一致。DS域变量DSTERM记录的是
- 1281 CRF上采集的原始退出原因或者自由文本说明,DSDECOD记录的是从CRF值映射到
- 1282 CDISC受控术语的值。

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- For simplicity and in order to not clutter the page unnecessarily, the
- annotations on the study termination page show one instance where
- DSDECOD is preprinted and DSTERM is entered, and one instance where
- they are both preprinted. Additional annotations of DSTERM and DSDECOD
- would not convey any additional information and are not necessary.
- 1289 为简单起见,不引起CRF页面不必要的杂乱,试验终止页面的注释展示了一个
- 1290 DSDECOD被预印刷、DSTERM被录入的例子,以及一个二者都被预印刷的例子。额
- 1291 外的DSTERM和DSDECOD注释不表达其他任何信息,也是不必要的。

5.4.4 Medical History (MH) 既往病史(MH)

- 1293 In the sample submission two CRFs Medical and Surgical History and
- 1294 Psychiatric History are used to capture history data. MHCAT is used to
- categorize the 2 event types. For the Psychiatric History form, we chose to
- have our sample dataset include a record for each listed term, MHPRESP
- indicates that MH events were prespecified, and MHOCCUR is set to 'Y' when
- a date is present and 'N' when a date is not present. Other approaches would
- also be reasonable such as submitting records only where a date was
- collected and omitting the MHOCCUR variable.
- 1301 在递交示例中,医学手术史,及精神病史这两页CRF用于采集历史数据。MHCAT用来

- 1302 将这两种事件分类。对于精神病史表格,在示例数据集中,每条记录只采集一条术语。
- 1303 MHPRESP表示MH事件是预先设定的,如果提供了日期,则MHOCCUR="Y",如果没
- 1304 有提供日期,则MHOCCUR="N"。其他方法也可行,比如,只递交采集了日期的记录,
- 1305 忽略MHOCCUR变量。

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- On the Medical and Surgical History page, whether the event is resolved or
- ongoing is collected for each event, both of which are mapped to the
- 1309 MHENRF. If the event is marked as resolved, then we know that the event
- ended before the study (since this is collected at screening), and this is
- mapped to BEFORE in MHENRF. If the event is marked as ongoing, then we
- are not sure exactly when it does end, so this is mapped to DURING/AFTER
- in MHENRF.
- 1314 在医学手术史页面,每个事件是否已解决或者仍在继续被记录下来,并被映射到
- 1315 MHENRF。如果事件标记为已解决,于是我们便知道事件在试验开始前就已经结束(因
- 1316 为事件是在筛选期采集的),因此MHENRF="BEFORE"。如果事件被标记为仍在继续,
- 1317 于是我们不确定它什么时候能结束,因此MHENRF="DURING/AFTER"。

5.5 Findings 发现类

5.5.1 General Considerations 一般注意事项

- The test codes (--TESTCD) and the test codes descriptions (--TEST) in the
- Drug Accountability (DA), ECG (EG), Laboratory Tests (LB), Subject
- 1322 Characteristics (SC), and Vital Signs (VS) domains are based on CDISC
- 1323 Controlled Terminology or SDTMIG recommended terminology when
- available. For the other findings domains the test codes are purely examples
- and should not be interpreted as CDISC controlled terminology.
- 1326 药物分发与回收记录(DA),心电图检查结果(EG),实验室检查结果(LB),受试
- 1327 者特征(SC)和生命体征(VS)域模型里的参数编码(--TESTCD)和参数名称(--TEST)
- 1328 是基于CDISC受控术语或者可用的SDTMIG建议术语。对于其他的发现类域模型,参
- 1329 数编码仅仅只是例子,不能被理解为CDISC受控术语。

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5.5.1.1 Define.xml Considerations Define.xml的注意事项

- Since the number of decimal digits in a floating point variable pertaining to
- the values of the variables -- STRESC, -- STRESN, and -- ORRES depend on
- the test, one value of significant digits may not correctly represent all tests
- in the dataset. If this is the case, the maximum number of significant digits
- across tests should be used in the define.xml at the variable level. For
- example, at the variable level LBSTRESN has SignificantDigits set to 2 to
- accommodate the Lymphocytes test, even though other tests, pH for
- example, do not need use decimal places.
- 1340 浮点型变量—STRESC, --STRESN和—ORRES值的小数位取决于具体的检查项目, 因

- 1341 此只用一种有效的小数位数可能不能正确代表数据集里所有的检查项目。如果是这样的
- 1342 话,在define.xml里的变量水平应该用所有检查项目的最大有效数字位数。例如,在
- 1343 变量水平,LBSTRESN的SignificantDigits被设定为2,以适应淋巴细胞检查,尽管其
- 1344 他检查项目不需要使用小数位,比如PH值。

- 5.5.1.2 CRF Annotations for Findings 发现类的CRF注释
- 1347 The --TEST variable is annotated on the CRF, but in some cases the value of
- 1348 -- TEST may paraphrase the preprinted text on the CRF. For example,
- DATEST has the values of 'Dispensed Amount' and 'Returned Amount',
- although the CRF page has 'Number of Tablets Dispensed' and 'Number of
- 1351 Tablets Returned'. This convention is acceptable as long as the conceptual
- meaning is equivalent to the -- TEST value and the annotation is clear to the
- reviewer. The --TESTCD is assigned based on the test description (--TEST)
- and may be referenced as part of the annotation to link -- TEST and the
- result (--ORRES), as on the Inclusion Criteria page where the annotation
- reads 'IEORRES when IETESTCD = INCL01.'
- 1357 --TEST变量被注释在CRF上,但有时--TEST的值可能以另一种方式预印在CRF上。比
- 1358 如,尽管CRF页面上是"分发片数"和"返还片数",但是DATEST的值为"分发量"和"返还
- 1359 量"。只要本义和--TEST的值相同,并且对审阅者来说注释很清楚,这种做法是可以接
- 1360 受的。--TESTCD是根据--TEST的描述来指定的,并且可能作为注释一部分,被用来
- 1361 关联--TEST和--ORRES。例如,在入选标准页面可以注释成"IEORRES when
- 1362 IETESTCD = INCL01".

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5.5.1.3 Split Domains 分割域

- Split domains are not specific to Findings however Findings domains may
- lend themselves to being split because they can become quite large. The
- rules associated with splitting domains are in the SDTMIG Section 4.1.1.7.
- In the sample submission the domain was split into 3 datasets according to
- the questionnaire name that is in QSCAT. The QS domain has been split for
- illustrative purposes only. The intention is to show how to split domains, and
- does not speak to the rationale for splitting domains. The domain variable
- value for all split domains is OS; however, the dataset names are unique and
- prefixed with QS. The annotated CRF refers to the domain name (QS) as
- opposed to the dataset name (QSCG, QSCS, or QSMM).
- 1375 分割域并非仅仅针对发现类域模型,但是因为发现域往往相当巨大,所以更适合分割。
- 1376 分割域的相关原则详见SDTMIG 第4.1.1.7章节。在递交示例中,QS域模型根据问卷
- 1377 名(存放在QSCAT)被分割成3个数据集。QS域模型被分割仅仅是一个例证,目的是
- 1378 为了展示如何分割域,并未涉及到分割域的原因。所有分割域的domain变量的值均是
- 1379 QS,但是,数据集名是唯一的,且前缀是QS。但是注释CRF指向的是域名(QS)而
- 1380 不是数据集名(QSCG, QSCS或者QSMM)。

- 1382 If the decision had been made to split a submission dataset, it is
- recommended that the sponsor communicate with their review division

- regarding exactly what needs to be included in the submission, i.e. the split
- datasets or both the split datasets and the unsplit datasets.
- 1386 如果决定分割一个递交数据集,建议申办者与其对应的审阅部门关于递交的内容进行沟
- 1387 通,是只递交分割数据集,还是分割数据集和未分割数据集都递交。

1388 5.5.2 ECG Test Results (EG) 心电图检查结果(EG)

1389 **5.5.2.1 General Considerations** 一般注意事项

- 1390 In the sample submission the sponsor defined two derived ECG results,
- 1391 QTCF (Fridericia's Correction Formula) and QTCB (Bazett's Correction
- 1392 Formula). In the EG dataset, the value of the derived flag EGDRVFL was set
- to Y for each occurrence of an EGTESTCD equal to QTCB or QTCF. For the
- two derived tests, QTCB and QTCF, the original result and the original unit
- variables (EGORRES/EGORRESU) were set to null.
- 1396 在递交示例中,申办者定义了两个衍生的心电图结果,QTCF (Fridericia 校正方法)和
- 1397 QTCB (Bazett校正方法)。在心电图数据集中,当EGTESTCD等于QTCB或者QTCF
- 1398 时,衍生标帜EGDRVFL的值被设定为Y,这两个衍生的参数(QTCB和QTCF)原始结
- 1399 果和单位变量(EGORRES/EGORRESU)都被设定为空值。

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5.5.2.2 Define.xml Considerations Define.xml注意事项

- In the value-level metadata table, the origin for the EGTEST value is CRF for
- all but two of the ECG parameters. QTC Fridericia and QTC Bazett are
- derived variables with an origin of "Derived". Links to the derivations of
- 1405 QTCB and QTCF in the Computational Methods Section may be found in the
- rendered Comments column. Within the computation method, the derived
- parameter is specified under the Reference Name field and the derivation
- 1408 formula is in the Computation Method field.
- 1409 在值水平的元数据表中,除了QTCB和QTCF这两个参数外,所有EGTEST值的来源都
- 1410 是CRF。QTC Fridericia和QTC Bazett是衍生来的变量,因此来源应该写"衍生"。在
- 1411 Comments列提供一个链接,指向Computational Methods里QTCB和QTCF的衍生
- 1412 方法。在Computational Methods部分,衍生参数在Reference Name下指出,计算
- 1413 方法在Computation Method下面说明。

1414 5.5.3 Inclusion/Exclusion Criteria Not Met (IE) 未符合入选/排

1415 除标准(IE)

- In the define.xml for the sample submission, the IE and TI domains share
- 1417 the value list IECAT.
- 1418 在递交示例的define.xml中,IE和TI域模型公用IECAT的值列表。

5.5.4 Laboratory Test Results (LB) 实验室检查结果(LB)

- 1420 **5.5.4.1 General Considerations** 一般注意事项
- In the sample submission the data are received via an electronic data
- 1422 transfer thus having an origin of eDT.
- 1423 在递交示例中, 该数据是通过电子数据传输接收的, 因此, 来源是"eDT"。

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- 1425 **5.5.4.2 Define.xml Considerations Define.xml**注意事项
- The define.xml and stylesheet for the LB domain illustrate sub-setting on
- several levels: LBCAT, LBSPEC, and LBMETHOD. This is necessary to
- distinguish the value-level metadata for LBTESTCD since some tests with
- the same value of LBTESTCD are not unique across LBCAT, LBSPEC, and in
- some cases LBMETHOD. This was described further in Section 3.4
- 1431 Value-Level Metadata and is portrayed in the accompanying sample
- 1432 submission.
- 1433 LB域模型在define.xml和样式表中以几个层次来说明子集: LBCAT, LBSPEC和
- 1434 LBMETHOD。因为有些LBTESTCD值相同的记录,通过LBCAT,LBSPEC并不能唯一
- 1435 确定,因此有必要区分LBTESTCD的值水平元数据。在<u>3.4</u>部分的值水平元数据里有进
- 1436 一步的解释,在递交示例中也有描述。

1437 5.5.5 Physical Examination (PE) 体格检查(PE)

- 1438 The Physical Examination eCRF has an annotation for PESTAT. However,
- 1439 PESTAT is not included within the PE domain in the sample submission.
- Since all assessments in this sample were completed and all values for the
- 1441 PESTAT variable were null, PESTAT was removed from the define.xml and
- the domain. As stated in the SDTMIG 2.5, "As long as no data was collected
- for Permissible variables, a sponsor is free to drop them and the
- 1444 corresponding descriptions from the define.xml".
- 1445 体格检查的电子CRF上有注释PESTAT,但是在递交示例的PE域模型中并没有包含
- 1446 PESTAT。因为所有的评估都完成,PESTAT全为空值,因此,PESTAT在define.xml
- 1447 和domain中被移除了。正如SDTMIG 2.5所说,"只要许可变量没有采集数据,申办
- 1448 者可以将其从define.xml中拿掉。"

5.5.6 Questionnaire (QS) 调查量表(QS)

- In the sample submission, the QS domain contains the data from the
- "Clinical Global Impressions (CGI-I)", "Cornell Scale for Depression in
- Dementia (CSDD)", and "Mini Mental State Examination (MMSE)"
- questionnaires. The questionnaire is indicated within the QSCAT variable.
- 1454 The best practice for representation of QS data and metadata are under

- discussion by CDISC. Controlled terminology for questionnaires is currently
- in development and may differ from these examples. In the sample
- submission for the CGI and CSDD questionnaires the original text is stored
- in the QSORRES variable and the numeric equivalent is stored in the
- 1459 QSSTRESC and QSSTRESN variables. In the define.xml controlled
- terminology, the numeric value from the questionnaire is included in the
- 1461 Code Value field which is the value in QSSTRESC and QSSTRESN. The
- original text in the Code Text field is the value for QSORRES.
- 1463 在递交示例中, QS域模型包含了来自"临床总体印象量表(CGI-I)", "康奈尔痴呆抑郁量
- 1464 表(CSDD)"和"简易精神状态评价量表(MMSE)"调查表的数据,QSCAT用于标示不同
- 1465 的调查表。CDISC正在讨论表现QS数据和元数据的最佳方法,调查量表的受控术语正
- 1466 在开发当中,可能和现在这些例子不太一样。在递交示例中,CGI和CSDD调查表的原
- 1467 始文本存储在QSORRES变量中,对应的数字型存储在QSSTRESC和QSTRESN变量
- 1468 中。在define.xml受控术语中,调查量表的QSSTRESC和QSSTRESN数字型值在
- 1469 Code Value下,原始文本QSORRES的值在Code Text下。

5.5.7 Vital Signs (VS) 生命体征(VS)

- 1471 In the sample submission, because the investigator was allowed to collect
- height and weight in different units, all data values that were collected in
- units other than the standard were converted to metric in the VSSTRESC
- and VSSTRESN variables with the metric units going into VSSTRESU.
- 1475 在递交示例中,因为允许研究者以不同单位采集身高和体重,用非标准单位采集的数据
- 1476 被转换标准的并存放在VSSTRESC和VSSTRESN中,度量单位存放在VSSTRESU。

1477 **5.6 Relationship Datasets** 关联数据集

1478 5.6.1 Define.xml Considerations Define.xml 注意事项

- 1479 The SUPP-- datasets have been ordered after all the subject-related
- domains in the define.xml Table of Contents. They appear alphabetically by
- 1481 dataset.
- 1482 在define.xml的目录表中,SUPP--数据集排在所有受试者相关的域后面,并按照字母
- 1483 顺序排列。
- 1484

- 1485 The variable QNAM within each SUPP-- dataset has an associated value list.
- 1486 The link on QNAM displays the value list and associated attributes of the
- supplemental items. If the QNAM variable has an origin of CRF, the link to
- the annotation will be in the rendered Origin column. If the Origin is
- specified as derived, the derivation definition will be displayed in the
- rendered Comments column, or a link will be provided to the associated
- 1491 computational method.

1492 在每个SUPP--数据集中,变量QNAM都有一个相关的值列表。QNAM上的链接指向值

列表和补充条目的相关属性。如果QNAM变量来源于CRF,则在Origin列会有一个链接

1494 指向CRF上相应的注释处。如果是衍生来的,则在Comments列会提供衍生的方法,

1495 或者提供链接指向相关的计算方法(computational method)。

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It is recommended that the stylesheet provides a link between all parent

domains and their associated Supplemental Qualifier datasets. In the

sample submission, there is a link to SUPPAE dataset at the bottom of the AE

domain, and there is a return link to the parent AE domain at the bottom of

the SUPPAE dataset. These links are available for all the domains with

associated supplemental qualifiers datasets.

1503 建议样式表提供父域和相关补充修饰语数据集的链接。在递交示例中,在AE域的下方

1504 有一个链接指向SUPPAE数据集,并且在SUPPAE数据集的下方也有链接可以返回到AE

1505 父域。这样的链接适用于所有具有相关补充修饰语数据集的域模型。

5.6.2 RELREC 相关记录数据集

One purpose of the RELREC dataset is to define a relationship between

records in separate domains. An example of a relationship that could be

defined would be when a subject terminates a study due to an adverse event.

1510 It is possible, by using a RELREC dataset to link the adverse event causing

the termination to the termination record within the Disposition (DS)

domain. An example using RELREC has been included within the sample

submission and it resembles the following.

1514 RELREC数据集的一个目的是为了定义记录在不同域之间的关系。比方说,受试者由于

某个不良事件终止试验,这个时候就可以定义关系了,可能是通过RELREC数据集来联

1516 系导致试验终止的不良事件和处置 (DS) 域里相应的终止记录。递交示例中提供了

RELREC应用的例子,和下面很类似。

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AE Domain subset AE域的部分数据

STUDYID	DOMAIN	HSHBIID	AFSEQ	AFSPID	AFBECOD	AFACN
CDTSCC I	ΆF	001901 .20000		1	Annibly	DOSE NOT CHARGED
CDP90U1	AL	000000000000000000000000000000000000000	2	34	Vausea	DOOL TO LCHARGED
CD19001	ŅΕ	0019000.200000	3		Constication	DOSE NOT CHARGED
CDISCC1	λE	0019001,200001	4	4	=410 JB	DOBEINOT CHANGED
CDISCC1	ΛE	CD19001.200001	.5	.5	orbitalgia	DRUG WITHORAWN

15201521

DS Domain subset DS域的部分数据

STUDYID 3D19001	DOMAIN D3	USUBIID COISCC1 200001	DSSEQ	DSDECOD INFORMED CONSENT
3D19CC1	03	CDISCCI 200001	2	RANDOMIZED:
CD19001	D3	CDISCC1 200001	3	ADVERSE EVENT

1522 1523

RELREC Domain RELREC域

STUDYID	ROGMAIN	USUBJID	IDVAR	IDVARVAL	RELTYPE	RELID
CONTROL OF THE PROPERTY.	AE AE	00/9000 AUGU1	(E541)	U U	3	<u> </u>
0019001	DS	0019001 200001	DSSEQ	8	i i	23

1550

- Some things to note about the tables above:
- 1526 关于上面的表格需要注意的地方有:
- The highlighted row in the AE table indicates that the action taken with study drug for that AE was to withdraw the drug.
- 1529 AE表中突出显示的行表明为这个不良事件采取的措施是终止用药
- The highlighted row in the DS table indicates that the subject withdrew due to an AE.
- 1532 DS表中突出显示的是受试者由于AE终止用药
- The first five columns of the RELREC domain are for relating back to the parent domain. RDOMAIN, IDVAR, and IDVARVAL function just as they do in the SUPPQUAL domains.
- RELREC域的前五列可用来回溯到各自的父域,RDOMAIN, IDVAR和IDVARVAL 1537 和它们在SUPPQUAL域里的功能是一样的。
- Identical RELID (within the same subject) values indicate that these records are related.
- 1540 RELID相同(在同一受试者内)则表示这些记录是相关联的。
- As a whole, the RELREC indicates that in study CDISC01, for subject CDISC01.200001, any rows in AE where AESPID=5 are related to any rows in DS where DSSEQ=3.
- ↓ 从整体上来讲,RELREC表示,在CDISC01这个试验里,对于受试者
 1545 CDISC01.200001来说,AESPID=5的任意AE记录都和DS里DSSEQ=3的任意
 1546 记录相关联。
- Please refer to Section 4.1.5 for information regarding annotating RELREC variables.
- 1549 关于RELREC变量注释信息请参阅4.1.5部分。

6 Appendices 附录

1551 6.1 CDISC SDS Metadata Team CDISC SDS 元数据团队

角色	姓名	公司	
联席团队领导	Carolyn Wilson	Forest	Research
		Institute	
联席团队领导	Richard Lewis	Octagon	Research
		Solutions	
	Gail Stoner	Johnson and	Johnson
	Madhavi Vemuri	Johnson and	Johnson

Gary Walker	Quintiles
Susan Hamilton	Eli Lilly
Carol Vaughn	Sanofi-Aventis
Tang Li	
Carlo Radovsky	Etera Solutions
Vineet Sharma	
Jozef Aerts	XML4Pharma

6.2 Sample Submission Software Issues 递交示例中软件

1553 问题

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6.2.1 Adobe 7 Links to blankcrf.pdf 用 Adobe 7 点击到

blankcrf.pdf 的链接时

- There is a known problem with Adobe Acrobat 7 when trying to link to a specific page in a PDF from an HTML document, in this case an XML file
- rendered in a web browser. In the submission example, the links within the
- define.xml are defined to point to a specific page number within the
- blankcrf.pdf. If a version of Acrobat other than version 7 is used, the links
- should work perfectly. However, if Acrobat 7 is used, the links will always
- point to the first page within the blankcrf.pdf.
- 1563 从 HTML 文档链接到 PDF 的一个指定页面的时候,使用 Acrobat 7 有一个已知的问题,
- 1564 这时候 XML 文件是用网页浏览器打开的。在递交示例中,define.xml 里面的链接指向的
- 1565 是 blankcrf.pdf 的一个特定页面。如果使用的 Acrobat 不是版本 7,这些链接工作正常。
- 1566 但是,如果使用的是 Acrobat 7,这些链接总是指向 blankcrf.pdf 的首页。

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- 1568 The issue described above may be found using the following link:
- 1569 上面描述的问题可以通过下面这个链接找到:
- 1570 http://www.adobe.com/cfusion/knowledgebase/index.cfm?id=326332

1571

- Using named-destinations in the hyperlink, instead of using CRF page numbers in the hyperlink, should resolve this issue.
- 1574 在超链接中指向名称而不是指向CRF页码,就可以解决这个问题。

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6.2.2 Back Arrows within the Define.xml 中的返

1577 回箭头

- 1578 In some cases the back arrows do not work when maneuvering within the
- define.xml. It is believed that this functionality is associated with the

- 1580 browser and version used.
- 1581 在某些情况下, define.xml中的返回箭头会出现不工作的情况。据说这与使用的浏览器
- 1582 和版本有关。

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6.2.3 Browser Display/Functionality Issues 浏览器显示/功能

1585 的问题

- Depending on your Adobe version and your browser and its settings, you
- 1587 may experience bookmark functionality issues or observe display and
- functionality issues in the rendered XML. Adjusting your browser settings
- can rectify this, but due to so many combinations it is not possible for this
- document to describe them all.
- 1591 由于你的 Adobe 版本和你使用的浏览器及浏览器的设置,可能会遇到标签功能问题或者
- 1592 xml 显示和功能的问题。调整你的浏览器设置可以解决这些问题,但由于有太多种原因,
- 1593 本文档不可能把所有的情况都列出来。

6.3 VALUELISTS 值列表

- This appendix to the MSG has been included to explain ValueLists in more 1595 technical detail. Included in the "alternative sample tabulations" folder of 1596 the Metadata package is a stylesheet (define2-0-0_extended.xsl) that 1597 displays more detailed information about each of the value-level and 1598 There is also a copy of the define.xml 1599 variable-level metadata. (define_no_stylesheet.xml) that does not reference a stylesheet, displaying 1600 only the XML when viewed through a web browser. These additional files are 1601 not considered to be submission components, but are rather included for 1602 illustrative purposes. Modifications might be necessary for these files to be 1603 used as alternatives. The necessary documentation is included in the 1604
- README file in the same folder.

 MSG 的这个附录包含了对值列表更多技术细节上的解释。在元数据包的"alternative sample tabulations"目录中有一个样式表(define2-0-0_extended.xsl),显示了每一个参数值水平和变量水平元数据的更多的细节信息。还有一个 define.xml 的副本(define_no_stylesheet.xml),这个文件没有引用样式表,通过浏览器查看的时候仅仅显示XML。这些附加的文件不是必须的递交组件,但是为了说明的目的,还是应该尽量包含在递交文件中。作为替代方案对这些文件的修改是必须的。必要的文档信息包含在同
- 1612 一个目录中的 README 文件中。

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In the define.xml, variable-level metadata are described by ItemRef elements (within ItemGroupDef elements) and ItemDef elements. The former describe which variables are a part of each domain; whereas, the latter describe the metadata details (data type, length, controlled

terminology) of each of the variables. See Section 2.1.4 of the CRTDDS for additional details.

1620 在 define.xml 中,变量水平的元数据由 ItemRef 元素(包含在 ItemGroupDef 元素中)和

- 1621 ItemDef 元素描述。前者描述每个域都应该包含哪些变量,后者描述每个变量的元数据
- 1622 详细信息(数据类型、长度、受控术语)。更多详细信息见 CRTDDS 的 2.1.4 节。

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- 1624 The value-level metadata in the define.xml are described by
- def:ValueListDef and ItemRef elements, referenced from the ItemDef of the
- SDTM Variable through a ValueListRef. For example, the ValueList for
- VSTESTCD in the sample submission is defined using:
- 1628 define.xml 中参数值水平的元数据由 def:ValueListDef 和 ItemRef 元素描述,通过
- 1629 ValueListRef 来引用 ItemDef 定义的 SDTM 变量。例如,在递交示例中 VSTESTCD 的值列
- 1630 表使用以下定义:

```
<ItemDef OID="VS.VSTESTCD" Name="VSTESTCD" DataType="text" Length="20"
Origin="Assigned" Comment="" def:Label="Vital Signs Test Short Name">
    <def:ValueListRef ValueListOID="ValueList.VS.VSTESTCD" />
    </ItemDef>
```

1631

- and the possible values for VSTESTCD are described by:
- 1633 VSTESTCD 可能的取值描述为:

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Just as for variable-level metadata, the details of each of the value-level test codes are further defined by an ItemDef element. The possible values for test codes are defined by the "Name" attribute. The details for the value-level test codes DIABP, FRMSIZE, HEIGHT, PULSE, SYSBP and WEIGHT are defined by:

1641 这只作为变量水平的元数据,每个参数值水平的元数据测试编码由 ItemDef 元素进一步 1642 定义。测试编码的可能值由"Name"属性定义。参数值水平测试编码 DIABP, FRMSIZE, 1643 HEIGHT, PULSE, SYSBP 和 WEIGHT 的详细信息定义为:

```
<ItemDef OID="VS.VSTESTCD.DIABP" Name="DIABP" DataType="integer" Length="2" Origin="CRF Page 11"
    def:Label="Diastolic Blood Pressure" />
<ItemDef OID="VS.VSTESTCD.FRMSIZE" Name="FRMSIZE" DataType="text" Length="6" Origin="CRF Page 11"
    def:Label="Body Frame Size">
        <CodeListRef CodeListOID="SIZE" />
    </ItemDef

ClemDef OID="VS.VSTESTCD.HEIGHT" Name="HEIGHT" DataType="float" SignificantDigits="1" Length="5"
    Origin="CRF Page 11" def:Label="Height" />
    <ItemDef OID="VS.VSTESTCD.PULSE" Name="PULSE" DataType="integer" Length="2" Origin="CRF Page 11"
    def:Label="Pulse Rate" />
    ItemDef OID="VS.VSTESTCD.SYSBP" Name="SYSBP" DataType="integer" Length="3" Origin="CRF Page 11"
    def:Label="Systolic Blood Pressure" />
    <ItemDef OID="VS.VSTESTCD.WEIGHT" Name="WEIGHT" DataType="float" SignificantDigits="1" Length="4"
    Origin="CRF Page 11" def:Label="Weight" />
```

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1648

So this set of metadata defines that "DIABP" has a data type of integer, a maximum length of 2, a label "Diastolic Blood Pressure", and can be found on page 11 of the CRF.

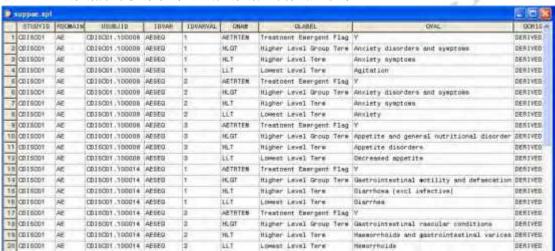
这样"DIBAP"的元数据定义集有数值型的数据类型,最大长度是 2,标签是"舒张压", 1649

并且在 CRF 的第 11 页可以找到。 1650

1651

Value-level metadata is also needed to describe QNAM in the SUPPAE 1652 dataset. 1653

在 SUPPAE 数据集中参数值水平的元数据还需要描述 QNAM。 1654



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For the supplemental qualifiers for dataset AE using:

作为数据集 AE 的补充修饰符使用: 1658

```
<ItemDef OID="SUPPAE.QNAM" Name="QNAM" DataType="text" Length="7" Origin="Assigned"</p>
 def:Label="Qualifier Variable Name">
  <def: ValueListRef ValueListOID="ValueList.SUPPAE.QNAM" />
</ItemDef>
```

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And the possible values for QNAM are then given by: 1661

并且 QNAM 可能的值有: 1662

```
<def: ValueListDef OID="ValueList.SUPPAE.QNAM">
 <ItemRef ItemOID="SUPPAE.QNAM.AETRTEM" OrderNumber="1" Mandatory="No" />
 <ItemRef ItemOID="SUPPAE.QNAM.HLGT" OrderNumber="2" Mandatory="No" />
 <ItemRef ItemOID="SUPPAE.QNAM.HLT" OrderNumber="3" Mandatory="No" />
 <ItemRef ItemOID="SUPPAE.QNAM.LLT" OrderNumber="4" Mandatory="No" />
</def: ValueListDef>
```

- defining that QNAM in SUPPAE has the values "AETRTEM", "HLGT", "HLT" or 1665 "LLT". 1666
- 在 SUPPAE 中 QNAM 定义的值有"AETRTEM", "HLGT", "HLT" or "LLT"。 1667
- 1668 The details of each of the value-level QNAMs are defined by the corresponding "ItemDef" elements: 1669
- 每个参数值水平的 QNAM 的详细信息由相应的"ItemDef"元素定义: 1670

1671 </ItemDef

Each of the value-level QNAMs (defined by the "Name" attribute) has a different length, a label, and associated controlled terminology (CodeLists).

1674 每个参数值水平的 QNAM(由"Name"属性定义)有不同的长度,一个标签,和相关的

1675 受控术语(代码表)。

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The details of each value-level QNAM are applicable to the result fields in the SUPPAE dataset, i.e. on "QVAL". So the above metadata shows that the maximum character length for the result in QVAL for the case where QNAM=AETRTEM is 1, and that only the values defined in the codelist "NY" (N/Y) are possible.

1682 每个参数值水平 QNAM 的详细信息同样适用于 SUPPAE 数据集的结果值,例如,"QVAL"

1683 的值。所以从上面的元数据定义可以看出,在 QNAM=AETRTEM 时 QVAL 的值的最大字

符长度是 1, 并且值只可能是代码表"NY"中定义的(N 或 Y)。

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Similarly, it shows that the maximum character length for the result in QNAM for the case where QNAM=HLGT is 52, and that the allowed values come from the (external) codelist "AEDICT_F" (MedDRA v.8.0).

1689 同样的,可以表明在 QNAM=HLGT 的情况下, QVAL 值的字符最大长度为 52,允许的值

1690 来自(扩展)代码表"AEDICT_F"(MedDRA V.8.0)。

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The stylesheet in the sample submission allows one to inspect the value-level metadata in a much more user-friendly way than the source XML. If an SDTM variable has a valuelist, then a hyperlink is provided in the column "Variable", which when clicked, jumps to a table containing the associated valuelist.

1697 在递交示例中有一个样式表,可以把参数值水平的元素据使用用户友好的方式来呈现,

1698 而不是 XML 源码的方式。如果一个 SDTM 变量有一个值列表,然后在列"变量"中设置 1699 了一个超链接,那么在点击的时候,会跳转到包含相关值列表的表格中。

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The latter lists the source variable (e.g. VSTESTCD), the value-level variable (e.g. "DIABP"), the label (e.g. "Diastolic Blood Pressure"), the datatype (e.g. integer), whether controlled terminology is applicable (and if so a link to the associated codelist), and the origin (e.g. "CRF Page 11"). Also columns for

the "Role" and "Comments" are provided. The stylesheet provides a limited amount of information: the maximum length for example is not displayed. 以下列出了源变量(如: VSTESTCD),参数值水平变量(如: "DIABP"),标签(如: "舒张压"),数据类型(如: 整数),是否使用受控术语(如果使用,会有一个到相关编码表的链接),来源(如: "CRF 的第 11 页")。还列出了"Role"和"Comments"。但是样式表只提供了有限的信息:例如最大长度信息没有显示。

Source Variable	Value	Label	Туре	Controlled Terms or Format	Origin	Comment
VSTESTCD	DIABP	Diastolic Blood Pressure	integer		CRF Page 11	
VSTESTCD	FRMSIZE	Body Frame Size	text	SIZE	CRF Page 11	
VSTESTCD	HEIGHT	Height	float		CRF Page 11	
VSTESTCD	PULSE	Pulse Rate	integer		CRF Page 11	
VSTESTCD	SYSBP	Systolic Blood Pressure	integer		CRF Page 11	
VSTESTCD	WEIGHT	Weight	float		CRF Page 11	

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As mentioned at the beginning of this appendix, a second stylesheet (define2-0-0_extended.xsl) is found in the 'additional samples' folder, allowing for display of considerably more detailed information about each of

the value-level and variable-level metadata.

正 如 本 附 录 开 头 提 到 的 , 在 ' 附 加 示 例 ' 文 件 夹 中 有 第 二 个 样 式 表 (define 2-0-0_extended.xls),用来显示每个参数值水平和变量水平的元数据的更多详细 信息。

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For the SUPPAE dataset, the stylesheet provides a hyperlink from the "QNAM" variable to a table containing a valuelist with all possible values for "QNAM" in the SUPPAE dataset. This valuelist table then displays further details for each of the allowed values of QNAM: source variable ("QNAM"), variable value (e.g. "AETRTEM"),the label (e.g. "Treatment Emergent Flag"), the data type, whether controlled terminology is applicable (and if so a link to the associated codelist), the origin, and when present, a comment.

7728 对于 SUPPAE 数据集,样式表提供了一个从"QNAM"变量到一个表格的超链接,这个表格包含 SUPPAE 数据集中"QNAM"变量所有可能值的一个值列表。这个值列表显示了 QNAM 每个允许值的更多详细信息:来源变量("QNAM"),变量值(如:"AETRTEM"),标签(如:"治疗中出现的标帜"),数据类型,是否使用受控术语(如果使用,会有一个1732 个到相关编码表的链接),来源,有时候会有一个注释。

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The stylesheets also provide backlinks from the supplemental data tables to the table for the originating dataset. Notice that this backlink relies on the value of def:Label being composed of: "Supplemental Qualifiers for " + dataset name.

样式表也提供了从补充数据表格到原始数据集表格的反向链接。请注意,反向链接依赖于 def:Label 的值,这个值由"补充修饰符(Supplemental Qualifiers for)"+数据集名称组成。

Source Variable	Value	Label	Туре	Controlled Terms or Format	Origin	Comment
QNAM	AETRIEM	Treatment Emergent Flag	test	NY	Derived	If it was not present prior to the RFSTDTC, or it was present prior to the RFSTDTC but increased in severity during the treatment period then equal Y.
QNAM	HLGT	High Level Group Term	text	AEDICT F	Assigned	
QNAM	HLT	High Level Term	text	AEDICT F	Assigned	
QNAM	LLT	Lowest Level Term	text	AEDICT F	Assigned	

In some circumstances, it may be necessary to "nest" value-level metadata in order to group topic variables because the topic variable alone is not specific enough to represent the attributes. For example, if multiple questionnaires are collected and included in a single QS dataset, the data might best be described by first providing a value list reference for QSCAT. This value list would describe each questionnaire collected. Then a value list could be associated with QSCAT. Each "secondary" value list would describe the test codes and result attributes particular to each questionnaire.

在一些情况下,由于单独的主题变量不足以表示这些属性,有必要用参数值水平的元数据"嵌套"来对主题变量进行分组。例如,如果在一个QS数据集中有多个调查问卷,那么最好首先提供一个QSCAT值列表来对数据进行说明。这个值列表描述每个采集到的问卷。然后再给QSCAT关联一个值列表。每个"二级"值列表来描述每个特定问卷的测试编码和结果属性。

An alternative approach is to provide a single dataset for each questionnaire, as was done in the sample submission.

另一种方式是为每一个调查问卷创建一个独立的数据集,就像示例递交中做的一样。

Likewise, when using the CDISC standard laboratory test code dictionary, it may be necessary to nest on lab specimen and method in order to provide appropriate descriptions of different types of results that share the same test code. For example, serum glucose, qualitative urine glucose, and quantitative 24-hour urine glucose all share the same LBTESTCD value (GLUC), but have different attributes.

1767 同样,在使用CDISC标准的实验室测试编码字典时,也需要通过实验室标本和测试方法 1768 嵌套来描述同一个测试编码的不同类型和结果。例如,血糖、尿糖定性分析和24小时尿

```
糖定量分析都有相同的测试编码(LBTESTCD)(值为GLUC),但是有不同的属性。
1769
1770
       In the sample submission, a valuelist is provided for LBCAT. For each
1771
       possible value of LBCAT ("CHEMISTRY", "HEMATOLOGY", "URINALYSIS"), a
1772
       new valuelist is defined based on the possible values of LBSPEC. For
1773
       example, for "CHEMISTRY", the allowed values for LBSPEC are "BLOOD" and
1774
       "SERUM", whereas the only possible values for LBSPEC in "HEMATOLOGY" is
1775
       "BLOOD". For "URINALYSIS", the only possible value for LBSPEC is "URINE".
1776
       在递交示例中,为LBCAT提供了一个值列表。对于LBCAT的每个可能值("化学",
1777
        "血液学", "尿液分析"), 都会为LBSPEC提供不同的值列表。例如, 对于"化学",
1778
       LBSPEC的可选值是"血液"和"血清",但是对于"血液学"来说LBSPEC的可选值
1779
       只有"血液"。对于"尿液分析", LBSPEC的可选值只有"尿液"。
1780
       <def:ValueListDef OID="ValueList.LB.LBCAT">
              <|temRefItemOID="LB.LBCAT.CHEMISTRY" OrderNumber="1" Mandatory="No"/>
              <itemRef ItemOID="LB.LBCAT.HEMATOLOGY" OrderNumber="2" Mandatory="No"/>
              <ItemRef ItemOID="LB.LBCAT.UR NALYSIS" OrderNumber="3" Mandatory="No"/>
       </def:ValueListDef>
1781
        <ItemDef OID="LB,LBCAT,URINALYSIS" Name="URINALYSIS" DataType="text" Length="10" Origin="eDT"</p>
             Comment="" def:Label="URINALYSIS">
             <def:ValueListRef ValueListOID="ValueList.LB.LBCAT.URINALYSIS.LBSPEC"/>
        </ItemDef>
1782
        <def:ValueListDef OID="ValueList.LB.LBCAT.URINALYSIS.LBSPEC">
             <!temRef</pre>
                   ItemOID="LB.LBCAT.URINALYSIS.LBSPEC.URINE" OrderNumber="4" Mandatory="No"/>
        </def:ValueListDef>
1783
       The latter is then further differentiated by method: the possible values are
1784
       "DIPSTICK", "QUANT" (quantitative) and "NOMETHOD".
1785
       下面通过检测方法进行进一步的细化:可选的值有"浸量尺","QUANT"(定量的)和
1786
        "没有方法"。
1787
       <itemDef OiD="LB.LBCAT.URINALYSIS.LBSPEC.URINE" Name="URINE" DataType="text" Length="5"</p>
             Origin="eDT" Comment="" def:Label="URINE">
             <def:ValueListRef ValueListOID="ValueList.LB.LBCAT.URINALYSIS.LBSPEC.URINE.LBMETHOD"/>
       c/ItemDef>
1788
        <def:ValueListDef OID="ValueList.LB.LBCAT.URINALYSIS.LBSPEC.URINE.LBMETHOD">
             <ItemRef | temOID="LB.LBCAT.URINALYSIS.LBSPEC.URINE.LBMETHOD.DIPSTICK" OrderNumber="1"</p>
                  Mandatory="No"/>
             <ItemRef ItemOID="LB.LBCAT.URINALYSIS.LBSPEC.URINE.LBMETHOD.QUANT" OrderNumber="2"</p>
                  Mandatory="No"/>
             <ItemRef Item0ID="LB.LBCAT.URINALYSIS.LBSPEC.URINE.LBMETHOD.NOMETHOD" OrderNumber="3"</p>
                  Mandatory="No"/>
        </def:ValueListDef>
1789
         <itemDef DID="LB.LBCAT.URINALYSIS.LBSPEC.URINE.LBMETHOD.NOMETHOD" Name="(no method)"</p>
             DataType="text" Length="5" Origin="eDT" Comment="" def:Label="NO METHOD">
                  ValueListOID="ValueList.LB.LBCAT.URINALYSIS.LBSPEC.URINE.LBMETHOD.NOMETHOD.LBTESTCD*/>
         1790
```

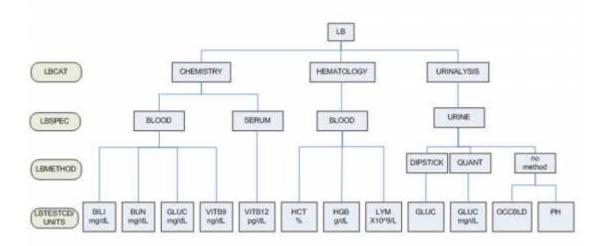
For the category "NOMETHOD" a further differentiation is made by lab test code: the possible values are "OCCBLD" (occult blood), and "PH".

1795 在"没有方法"分类中又可以通过实验室检查编码进一步细化,可能的值有"OCCBLD" 1796 (潜血)和"PH值测定"。

```
<ItemDef OID="LB.LBCAT.URINALYSIS.LBSPEC.URINE.LBTESTCD.OCCBLD" Name=""OCCBLD"
    DataType="text" Length="8" Origin="eDT" Comment="" def:Label="Occult Blood"/>
<ItemDef OID="LB.LBCAT.URINALYSIS.LBSPEC.URINE.LBTESTCD.PH" Name="PH"
    DataType="float" SignificantDigits="1" Length="3" Origin="eDT" Comment="" def:Label="pH"/>
```

Differentiation is also made for the other laboratory test categories. A further differentiation is made. For example, in case LBCAT=CHEMISTRY and LBSPEC=BLOOD, the allowed values for LBTESTCD are "BILI" (Bilirubin), "BUN" (Blood Urea Nitrogen), "GLUC" (Glucose), and "VITB9" (Folic Acid; Vitamin B9). Each of these nested test codes has its own datatype, label, units etc. The full scheme of the nested valuelists for the LB domain is depicted below:

其他的实验室检查类别也会有进一步的细化。一个进一步细化的例子,在LBCAT=CHEMISTRY(化学)并且LBSPEC=BLOOD(血液)中,LBTESTCD允许的值有 "BILI"(胆红素), "BUN"(血尿素氮), "GLUC"(葡萄糖)和"VITB9"(叶酸;维生素B9)。每个嵌套的测试编码都有自己的数据类型,标签,单位等。LB域中对所有嵌套的值列表定义描述如下:



The sponsor should decide when multiple levels are required in order to properly describe the attributes of a test. In the sample submission define.xml, --CAT was nested for QS, LB, and IE. Again this is only an example and the sponsor should customize the define.xml and stylesheet to

- display their data in a logical manner.
- 1816 由申办者决定什么时候需要用多层嵌套才能正确描述测试的属性。在递交示例
- 1817 define.xml中,--CAT在QS, LB, IE域中是嵌套的。再次声明这只是一个示例,申办者
- 1818 应该定制define.xml和样式表以便用合理的方式显示数据。

