

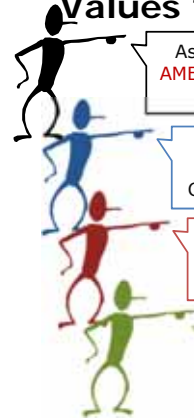


Topic 4 - You want to use CDISC Submission Values in SDTM for Analysis Results?

CJUG SDTM
LISaS Team
8th February 2012

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If you use CDISC Submission Values for Analysis Results...



As you know RACE is "**BLACK OR AFRICAN AMERICAN**" in SDTM, but I prefer proper case "**Black or African American**" for CRF!

Lab test name should be "**Red Blood Cell**" instead of "**Erythrocytes**" for CSR because CDISC terminology is not common in Japan!

Sex="F"? Response="Y"? We should use "**Female**" and "**Yes**" for our Listing respectively!!

For Outcome of Event, CDISC value is "**RECOVERED/RESOLVED WITH SEQUELAE**", but "/" is used for split character in SAS, That's why we should change it to "**or**"!!

2

Many Queries and Requests!!



- From Stakeholders
 - Data Managers
 - Stats
 - Programmers
 - Clinicians or Clinical Study Leaders
 - Medical Writers
 - CRAs

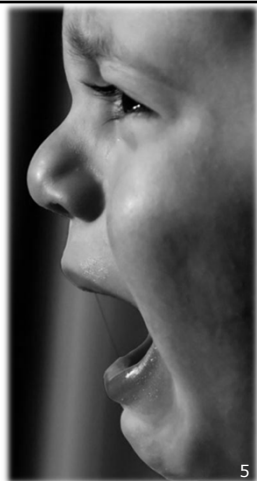
3



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Help me!

- Do we need...
 - ✓ A lot of data-handling for ADaM creation?
 - ✓ Additional format catalogs?
 - ✓ Training for learning unfamiliar terms?
 - ✓ Being careful about upper-case and lower-case?



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Let's think about it

1. What is the "CDISC Submission Values"?

2. What type of "CDISC Submission Values"?

3. What type of Issues?

4. How should we control Analysis results?



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Study Data Tabulation Model (SDTM)

- SDTM v1.2 Quote;
 - A standard structure for study data tabulations that are to be submitted as part of a product application to a regulatory authority such as the United States Food and Drug Administration (FDA).
- The focus of SDTM is **Not** on;
 - Data monitoring/cleaning and coding
 - Analysis result

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CDISC Submission Values in SDTM

- Primary users are "**Medical Reviewers**" in FDA
 - Not Statisticians
- Specific "**Tools**" are used^{Machine-friendly}
 - Empirica Study(WebSDM), JReview, JMP Clinical, MAED
 - Formats in outputs depend on the tools, e.g., "F" may be displayed on the inside of the graph to reduce the space, and "Female" in the legend.

RACE	SEX	AEOUT	QSSTRESC
BLACK OR AFRICAN AMERICAN	F	RECOVERED/RESOLVED WITH SEQUELAE	Y

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Reviewer's Desktop JMP Clinical



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Let's think about it

1. What is the "CDISC Submission Values"?

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SDTM IG v3.1.2 Quote;

- 4.1.2.1 VARIABLE-NAMING CONVENTIONS
 - *"Variables with names ending in "CD" are "short versions" of associated variables that do not include the "CD" suffix (e.g., --TESTCD is the short version of --TEST)."*
- 4.1.3.4 USE OF CONTROLLED TERMINOLOGY AND ARBITRARY NUMBER CODES
 - *"Controlled terminology or decoded text should be used instead of arbitrary number codes in order to reduce ambiguity for submission reviewers. For example, for concomitant medications, the verbatim term and/or dictionary term should be presented, rather than numeric codes. Separate code values may be submitted as Supplemental Qualifiers and may be necessary in analysis datasets."*

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What dose "code/decode" mean?

Longman Dictionary of Contemporary English

➤ "code"

1. A set of instructions that tell a computer what to do, e.g., source code
2. A set of numbers, letters, or symbols that shows what something is or gives information about it, e.g., zip code

➤ "decode"

1. If a computer decodes data, it receives it and changes it into a form that can be used by the computer or understood by a person [\neq encode]
2. To discover the meaning of a message written in a code (=a set of secret signs or letters) [= decipher] #decipher=to change a message written in a code into ordinary language so that you can read it)

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Type of Submission Values

No.1 Value only(or Result)

Example: SEX, AETERM, LBUNIT, Comments

No.2 Code only

Example: LBLOINC, COUNTRY

No.3 Code and Decode

Example: AEPTCD/AEDECOD
Special Case: QSSTRESN/QSORRES
(--STRESN=Code, --ORRES=Decode)

No.4 Short Name and Verbatim Name

Example: LBTESTCD/LBTEST

Note: "SEX" is not categorized as "Short Name" because of no "Verbatim Name" in SDTM. 13

Example

SEX	AETERM	LBUNIT	COVAL1
F	headache	mg/L	Subject 123104 died in an automobile accident.

COUNTRY	LBLOINC	Note: Albumin
JPN	2862-1	Code Decode

AEPTCD	AEDECOD	QSSTRESN	QSORRES
10003988	Back pain	4	VERY GOOD

LBTESTCD	LBTEST
EOSLE	Eosinophils/Leukocytes

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Question

- "Code" or "Decode"?

RACE	SEX	COUNTRY	ETHNIC
ASIAN	M	JPN	NOT HISPANIC OR LATINO

Sex="M" gives us enough information to understand! We don't need any additional formats!

I guess RACE="ASIAN" is "decode" but Sex="M" is "code"! We should display "Male" format!

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Let's think about it

1. What is the "CDISC Submission Values"?

2. What type of "CDISC Submission Values"?

3. What type of Issues?

4. How should we control Analysis results?

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Case1: Capitalization Rule



As you know RACE is "BLACK OR AFRICAN AMERICAN" in SDTM, but I prefer proper case "Black or African American" for CRF!

- Data should be submitted in upper case except;
 - External reference (e.g., MedDRA)
 - Units
 - Comments
 - Values of --TEST in Findings datasets
- For good legibility and readability, Clinicians or Medical writers request us to change CDISC submission values into proper case, which is to use capital letter for the first letter of each word. 17

Case2: Unfamiliar Terms



Lab test name should be "Red Blood Cell" instead of "Erythrocytes" for CSR because CDISC terminology is not common in Japan!

- Some CDISC submission values are not common in Japan, US/EU or specific therapeutic area.

Conventional Terms	CDISC Submission Values
Red Blood Cell	LBTEST="Erythrocytes"
White Blood Cell	LBTEST="Leukocytes"
Total Cholesterol	LBTEST="Cholesterol"
O.D. / Oculus Dexter	--LOC="EYE" + --LAT="RIGHT"

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Case3: Abbreviations



Sex="F"? Response="Y"? We should use "Female" and "Yes" for our Listing respectively!!

- Some CDISC submission values are populated for abbreviated (short) word.
 - It can reduce the file size and output space.
 - Sex="F" / Response="Y" gives us enough information to understand.
- Our colleagues (various stakeholders) request us to change it into "human-readable" format.
 - Sex="Female" / Response="Yes"

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Case4: Specific Characters



For Outcome of Event, CDISC value is "RECOVERED/RESOLVED WITH SEQUELAE", but "/" is used for split character in SAS, That's why we should change it to "or"!!

- Some submission values include the characters.
 - hyphen, slash, comma, parenthesis and quotation
- For technical or special purpose, sometimes these characters are used;
 - Concatenate by "-"
 - Split by "/"
 - Export CSV

Subject	AE Term	Serious/ Action Taken/ Outcome of Event
101	Head ache	Yes/ DOSE REDUCED/ NOT RECOVERED/NOT RESOLVED

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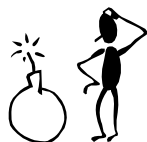
Out of the Scope

- Difference between "CDISC Submission Values" and definitions in your company

CDISC SDTM Controlled Terminology, 2012-08-03
C68727 - NCOMPLT - Completion/Reason for Non-Completion
CodeList extensible: Yes

NCI Code	CDISC Submission Value	CDISC System	CDISC Definition	NCI Preferred Term
C4831	PROTOCOL VIOLATION		An event or decision that stands in contrast to the guidelines set out by the protocol. (NCI)	Protocol Violation

Protocol Violation?



Protocol Deviation?

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Customer Satisfaction Survey

- Questions;
 - What do you think about using these CDISC Controlled Terminology for Analysis results?
- Interview;
 - Stats & Programmers
 - Clinicians or Clinical Study Leaders
 - Medical Writers
 - Native English Speaker or Not



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Example: Summary of Demography

		Placebo (N=30)	Treatment A (N=30)
Sex	F	30 (100%)	30 (100%)
	M	0 (0%)	0 (0%)
Race	AMERICAN INDIAN OR ALASKA NATIVE	0 (0%)	0 (0%)
	ASIAN	15 (50%)	15 (50%)
	BLACK OR AFRICAN AMERICAN	0 (0%)	0 (0%)
	NATIVE HAWAIIAN OR OTHER PACIFIC ISLANDER	0 (0%)	0 (0%)
	WHITE	15 (50%)	15 (50%)
Ethnicity	HISPANIC OR LATINO	30 (100%)	30 (100%)
	NOT HISPANIC OR LATINO	0 (0%)	0 (0%)
Country	CHN	7 (23%)	7 (23%)
	JPN	7 (23%)	7 (23%)
	SGP	8 (27%)	8 (27%)
	USA	8 (27%)	8 (27%)
Pregnant?	Y	3 (10%)	6 (20%)
	N	27 (90%)	24 (80%)

Example: Listing of Adverse Events

Subject Id	Treatment	Sex	Race	Verbatim term	Preferred term	Start date
123-01-01	Placebo	M	WHITE	Eczema (both arm)	Eczema	2012-01-13
123-01-02	10mg	F	ASIAN	acute myocardial infarction	Acute myocardial infarction	2012-11-23
123-98-92	50mg	M	ASIAN	POUNING HEADACHE	Headache	2012-02-19
Serious	Severity	Action Taken	Outcome	Location	Laterality	
N	MILD	DOSE REDUCED	RECOVERED/RESOLVED	ARM	BILATERAL	
Y	SEVERE	DRUG WITHDRAWN	FATAL	HEART, LEFT VENTRICLE		
N	MODERATE	DRUG INTERRUPTED	RECOVERED/RESOLVED WITH SEQUELAE	HEAD		

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Example: Summary of Laboratory Results

Visit	Lab test (Unit)		Placebo (N=30)	Treatment A (N=30)
Visit 1	Erythrocyte (10 ⁴ /mm ³)	n	30	30
		Mean	440.6	425.3
		SD	62.1	66.3
		Min.	380	378
		Max.	460	445
	Eosinophils/Leukocytes (%)	n	30	30
		Mean	2.23	2.11
		SD	1.72	1.63
		Min.	0.2	0.1
		Max.	7.1	6.8
	Cholesterol (mg/dL)	n	29	30
		Mean	218.0	200.4
		SD	45.5	51.2
		Min.	124	120
		Max.	319	300

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Feel free to talk!



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Let's think about it

1. What is the "SDTM Submission Values"?

2. What type of "SDTM Submission Values"?

3. What type of Issues?

4. How should we control Analysis results?



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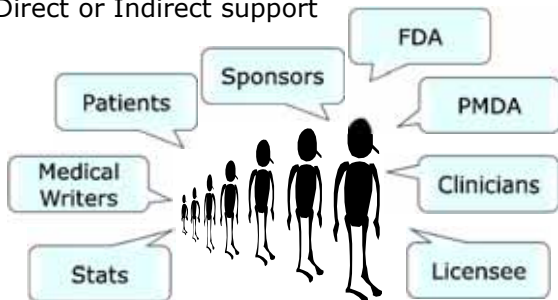
4. How should we control Analysis results?

- 4-1: Back ground
- 4-2: Description in ADaM vs. SDTM
- 4-3: Consideration about Format catalogue
- 4-4: Type of Issues
 - Capitalization Rule
 - Abbreviations
 - Unfamiliar Terms

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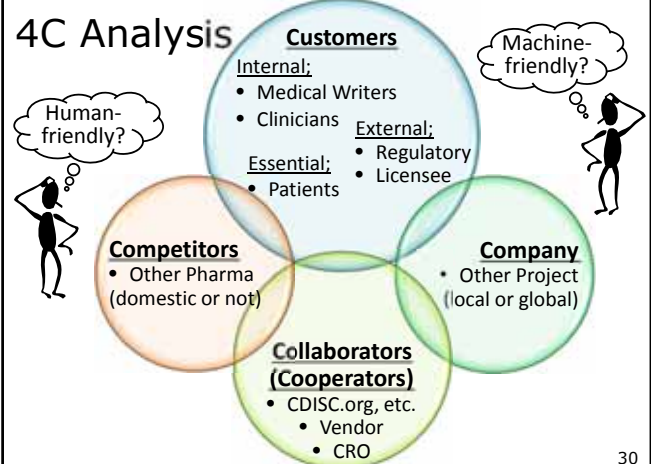
Who is your customer?

- Internal or External use
- Short-term or Long-term benefit
- Direct or Indirect support



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4C Analysis



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If you follow the Simple Analysis Process...

(Raw->SDTM->ADaM->Analysis Results)



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Analysis Data Model (ADaM) v2.1

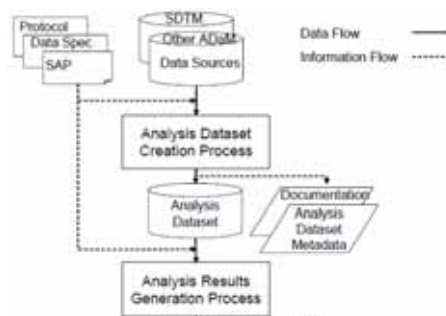


Figure 3.2.1: Analysis Data Flow Diagram Showing One Scenario for the Flow of Data

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4. How should we control Analysis results?

4-1: Back ground

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SDTM vs. ADaM Traceability

- ADaM IG v1.0 Quote;
 - Any ADaM variable whose name is the same as an SDTM variable must be a copy of the SDTM variable, and its label, meaning, and values must not be modified. ADaM adheres to a principle of harmonization known as "same name, same meaning, same values".

SDTM	ADaM		
RACE	RACEN	RACE	RACE
ASIAN	1	Asian	ASIAN
WHITE	2	White	WHITE

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ADaM for Adverse Event Analysis v1.0 Quote;

ADAE - Adverse Event Analysis Dataset				
Variable Name	Variable Label	Type	Code List/ Controlled Terms	CDISC Notes
AESEV	Serious Event	Char	(NY)	AE.AESEV
AESEV	Severity/Intensity	Char	(AESEV)	AE.AESEV
AESEVN	Severity/Intensity (N)	Num	1, 2, 3	Code AE.AESEV to numeric Low intensity should correspond to low value
AEEV	Analysis Severity/Intensity	Char	*	Apply imputation rules for missing severity of adverse events as specified in the SAP or metadata. May change case of text, such as from all uppercase in AESEV to mixed case in AEEV.
AESEVN	Analysis Severity/Intensity (N)	Num	1, 2, 3	Code AEEV to numeric Low intensity should correspond to low value

Note: AEREL is described in the same manner as in AESEV.

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Example: ADAE

- AEEV, AEEVN;
 - Apply imputation rules for missing severity of adverse events as specified in the SAP or metadata. May change case of text, such as from all uppercase in AESEV to mixed case in AEEV.

SDTM	ADaM			
AEEV	AEEV	AEEVN	AEEV	AEEVN
MILD	MILD	1	Mild	1
MODERATE	MODERATE	2	Moderate	2
SEVERE	SEVERE	3	Severe	3
(null)	(null)	(null)	Not Applicable	99

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ADaM Implementation Guide v1.0 Quote;

Table 3.2.4.1 Analysis Parameter Variables for BDS Datasets			
Variable Name	Variable Label	Type	CDISC Notes
PARAM	Parameter	Char	The description of the analysis parameter. Examples include: "Supine Systolic Blood Pressure (mm Hg)", "Log10 (Weight (kg))", "Time to First Hypertension Event (Days)", "Estimated Tumor Growth Rate", etc. PARAM should be sufficient to describe unambiguously the contents of AVAL and/or AVALC. PARAM must include test, units (if appropriate), specimen type, location, position, and any other applicable qualifying information needed, any additional information such as transformation function, and indeed any text that is needed. PARAM may be longer than 40 characters in length. PARAM is often directly usable in Clinical Study Report displays. Note that in the ADaM IG, "parameter" is a synonym of "analysis parameter."

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Example: ADLB

- The description in the PARAM column must contain the units, as well as any other information such as location and specimen type that is needed to ensure that **PARAM uniquely describes what is in AVAL**, and differentiates between parameters as needed. **PARAM cannot be the same for different units.**

SDTM

LBCAT	LBTEST CD	LBTEST	LBORRES	LBORRESU	LBSTRESC	LBSTRESU
URINALYSIS	PROT	Protein	NEGATIVE			
CHEMISTRY	PROT	Protein	100	mg/dL	5.55	mmol/L

ADaM

PARAM	PARAMCD	AVAL	AVALC
Urine Protein (qualitative)	UPROT		Negative
Protein (mmol/L)	PROT	5.55	5.55
Protein (mg/dL)	PROTMG	100	100

Note: AVALC can be a character string mapping to AVAL, but if so there must be a one-to-one map between AVAL and AVALC within a given PARAM when AVALC and AVAL are presented. (OpenCDISC v1.3, 29-Mar-2011)

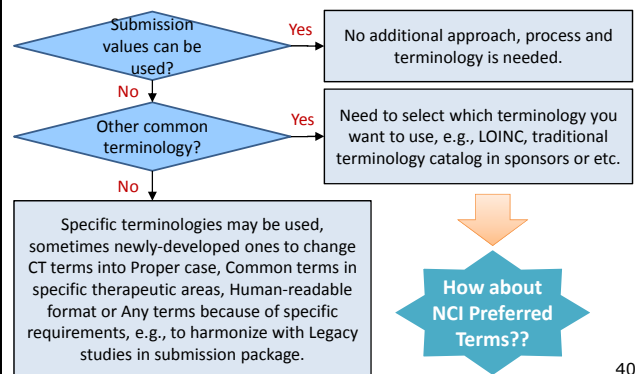
If you need any conventional/local units 38

4. How should we control Analysis results?

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What type of terms are appropriate in Analysis Results?



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Using NCI Preferred Terms

- The "NCI Preferred Term" instead of CDISC Submission Values in Analysis results would be preferred as Internal Standards;
 - Because of "Data exchange" and "Transparency"
 - For some sponsors "Death" may be preferable instead of "Death Related to Adverse Event"

Codelist Name	CDISC Submission Value	NCI Preferred Term
Outcome of Event	FATAL	Death Related to Adverse Event
Outcome of Event	NOT RECOVERED/NOT RESOLVED	Not Recovered or Not Resolved
Outcome of Event	RECOVERED/RESOLVED	Recovered or Resolved
Outcome of Event	RECOVERED/RESOLVED WITH SEQUELAE	Recovered or Resolved with Sequelae
Outcome of Event	RECOVERING/RESOLVING	Recovering or Resolving
Outcome of Event	UNKNOWN	Unknown

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Traceability ADaM vs. Output

- To keep traceability the "Sort order" and "Decode (Mixed-case)" variables may be added to ADaM.
 - Except ASEV, AREL etc.

RACE	RACEN	RACEC
ASIAN	2	Asian

SEX	SEXN	SEXDECOD
M	1	Male

Note: Some sponsors may remove the SEX and RACE variables from ADaM because of the file size issue or etc.

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Analysis Data Model (ADaM) v2.1

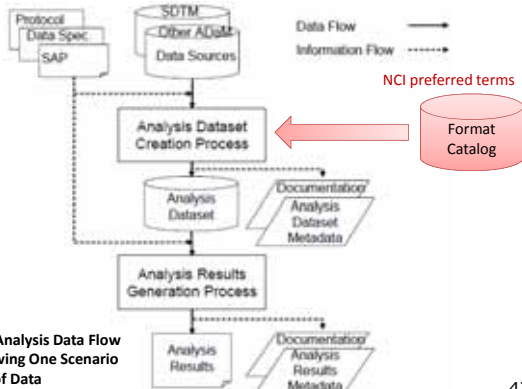


Figure 3.2.1: Analysis Data Flow Diagram Showing One Scenario for the Flow of Data

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Should we display all categories which are used on CRF?

StudyDesign: Demographics

Demographics

1. Sex [Sex] [SEX] [A:F] Female [A:M] Male



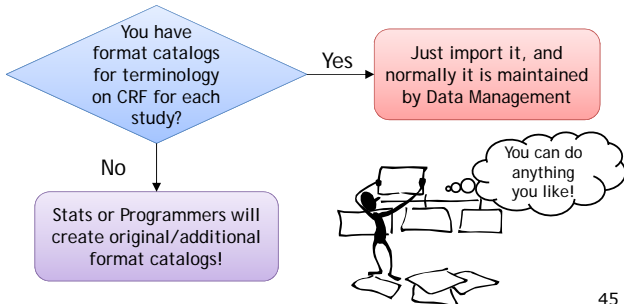
If no Female subjects in a study...

Sex	Placebo (N=30)	Treatment A (N=30)
Female	0 (0%)	0 (0%)
Male	30 (100%)	30 (100%)

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If you say "Yes"...

- You must use a format catalog for analysis results in order to display all categories;



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Analysis Data Model (ADaM) v2.1

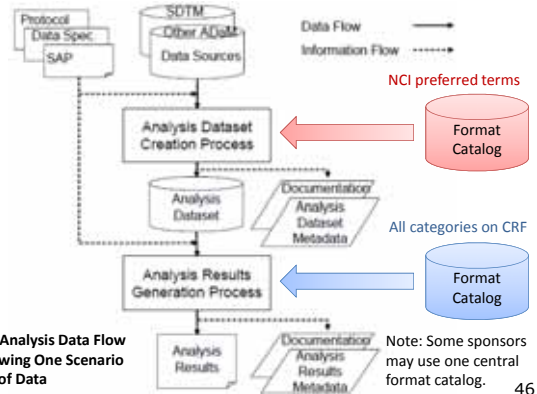


Figure 3.2.1: Analysis Data Flow Diagram Showing One Scenario for the Flow of Data

Note: Some sponsors may use one central format catalog.

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4. How should we control Analysis results?

- 4-1: Back ground
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- 4-4: Type of Issues
 - Capitalization Rule
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 - Unfamiliar Terms

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You are Native English Speaker?



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Capitalization Rule: Considerations

- 3 Points;
 1. Customers think CDISC Submission Values are "machine-friendly"
 - Stats & Programming may make them "human-friendly" in analysis data flow
 2. Should be controlled by "Implementer"
 - to avoid conflict between organizations/groups
 - not to cause differences between studies
 3. What do you think about the traceability
 - CRF -> SDTM -> ADaM -> Analysis Results
 - e.g., Different terms may be displayed on CRF

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Capitalization Rule: Solutions

- 5 Options;
 1. Using format catalog for analysis results
 - No sponsor formats should be associated in SDTM and ADaM datasets
 2. Auto-formatting by programming/system
 - No additional format catalog; e.g., Changing the terminology by standard macros
 3. Adding extra variables not defined by IG
 - e.g., RACEC,SEXDECOD in ADaM
 4. Using analysis variables defined by IG
 - e.g., ASEV, AREL in ADAE
 5. Good-bye to "Good legibility and readability"
 - Case-insensitive

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4. How should we control Analysis results?

- 4-1: Back ground
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About Abbreviations

Type 1;

- A few choices
- May be no-update

Type 2;

- Many choices
- May be added/updated

CodeList Name	CDISC Submission Value	NCI Preferred Term	CodeList Name	CDISC Submission Value	NCI Preferred Term
Sex	F	Female	Frequency	BID	Twice Daily
	M	Male		BIS	Twice Weekly
	U	Unknown		QM	Monthly
	UN	Intersex		PRN	As Necessary
No Yes Response	N	No		Q10H	Every Ten Hours
	NA	Not Applicable		QS	Weekly
	U	Unknown		PA	Per Year
	Y	Yes			(continued)

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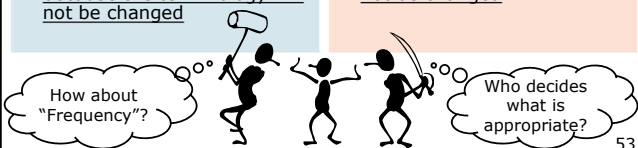
2 opposing points of view

Sex can be "Male" because;

- It's easy to modify the terminology because of a few terms
- Once we create a process to modify the terminology, it doesn't need any update because the terminology will not be changed

Sex can be "M" because;

- It's easy to understand because of a few terms
- Once we have a training to learn the terminology, it doesn't need any update because the terminology will not be changed



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Abbreviations: Considerations

- 2 Points;
 1. Same Situation as "Capitalization Rule"
 - Strongly influenced by the decision about "Capitalization Rule "
 2. "Flag" is not a Topic of discussion
 - Normally "Flag" is not displayed in summary tables (Note: AESER is not a "Flag")
 - e.g., TRTEMFL(Treatment Emergent Flag)="Y", TRTSDTF(Date of First Exposure Impute Flag)="M"

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4. How should we control Analysis results?

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About Unfamiliar Terms

- Searching on **Google.com** (not "co.jp")

Red Blood Cell	28,400,000
Erythrocyte	4,250,000
White Blood Cell	30,400,000
Leukocyte	6,290,000

As of Nov 2012



You may never have seen these CDISC terminology regardless of your location!!

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AM I PRETTY OR UGLY?



In Some Situations...

- "Global Headquarter" or "Implementer" enforce CDISC terminology
- Not use English Language
- Not use Unfamiliar CDISC Terminology
 - e.g., Erythrocyte
 - RBC or Red Blood Cell?
 - in ADaM Creation Process?
 - in Analysis Results Creation Process?
 - How do we keep traceability

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ADaM: PARAM variable

- Easy to modify
- Difficult to keep the Traceability

SDTM			ADaM					
VSTEST	VSSEQ		PARAM	PARAMCD	SRC DOM	SRCVAR	SRC SEQ	
Weight	2		Weight (kg)	WEIGHT	VS	VSSTRESN	2	
Systolic Blood Pressure	6		Log10 (Weight (kg))	WEIGHTLG				
			Systolic Blood Pressure (mmHg)	SYSBP	VS	VSSTRESN	6	
			Time to First SBP>140 (day)	SYSBPDY	VS	VSDY	6	

LBCAT	LBTEST	LBSEQ	PARAM	PARAM CD	SRC DOM	SRCVAR	SRC SEQ
URINALYSIS	Protein	1	Urine Protein (qualitative)	UPROT	LB	LBSTRESN	1
CHEMISTRY	Protein	23	Protein (mmol/L)	PROT	LB	LBSTRESN	23
HEMATOLOGY	Erythrocyte	89	Red Blood Cell (10 ⁶ /mm ³)	RBC	LB	LBSTRESN	89

Note: Data Point Traceability Variables = SRCDOM, SRCVAR and SRCSEQ (+ASEQ)
In this case, LBSEQ would be sufficient to provide the needed traceability because of all SRCDOM values are the same throughout the dataset

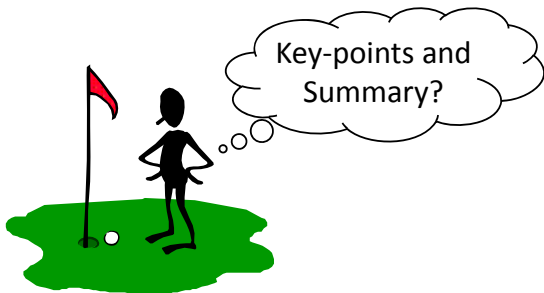
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Unfamiliar Terms: Considerations

- 2 Points;
 1. Completely different from "Capitalization Rule" and "Abbreviations" for data handling
 - May not be preferable to add any extra format or variables, e.g.;
 - LOC="EYE" & LAT="BILATERAL" > EYELOC="O.U."
 - Difficult to keep Traceability (BDS)
 - If you change the term "Erythrocyte" (LBSTEST) to "Red Blood Cells" (PARAM) then you definitely need "Data Point Traceability Variables"
 2. Typical examples may be useful for customers
 - to reduce queries
 - e.g., Erythrocytes, Leukocytes etc.

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Just a few more slides



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Key-points

- Machine-friendly vs. Human-friendly
- SDTM variables vs. ADaM variables
- Listen to Customer's feedback
- Traceability
- 3 Type of Issues;
 - Capitalization Rule
 - Abbreviations
 - Unfamiliar Terms



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Summary

- Trade-off;
 - "Customer Satisfaction" versus "Cost/Resource"
 - Plus "Traceability"

For example;	Customer Satisfaction	Traceability	Cost/Resource
All "Decode (Mixed-case)" variables are added to ADaM			
Using format catalog in Analysis results process			
No extra format and Case-insensitive			

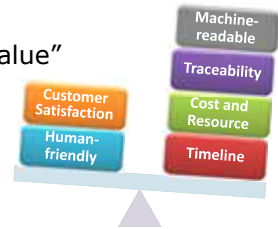
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Summary (Cont.)

- If All "Decode" variables are added to ADaM data to satisfy our customer needs + keep traceability, No SDTM variables are displayed in Analysis results

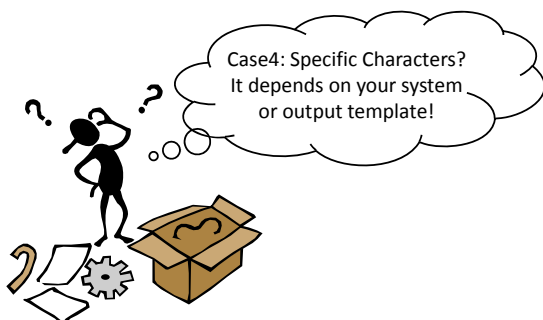


- "CDISC Submission Value" in SDTM is;
 - for submission
 - for traceability



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Questions?



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Developing Standardized Clinical Data Terminology

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PDUFA V Reauthorization Performance Goals and Procedures; Fiscal Years 2013 through 2017

- E. Clinical Terminology Standards: Using a public process that allows for stakeholder input, FDA shall develop standardized clinical data terminology through open standards development organizations (i.e., the Clinical Data Interchange Standards Consortium (CDISC)) with the goal of completing clinical data terminology and detailed implementation guides by FY 2017.
 - 1. FDA shall develop a project plan for distinct therapeutic indications, prioritizing clinical terminology standards development within and across review divisions. FDA shall publish a proposed project plan for stakeholder review and comment by June 30, 2013. FDA shall update and publish its project plan annually.
- F. Development of terminology standards for data other than clinical data: To address FDA-identified nonclinical data standards needs, FDA will request public input on the use of relevant already-existing data standards and the involvement of existing standards development organizations to develop new standards or refine existing standards. FDA will obtain this input via publication of a Federal Register notice that specifies a 60-day comment period.
- G. FDA shall periodically publish final guidance specifying the completed data standards, formats, and terminologies that sponsors must use to submit data in applications. In the case of standards for study data, new data standards and terminology shall be applicable prospectively and only required for studies that begin 12 months after issuance of FDA's final guidance on the applicable data standards and terminology.

Reference as of Dec 2012: <http://www.fda.gov/ForIndustry/UserFees/PrescriptionDrugUserFee/ucm272170.htm>

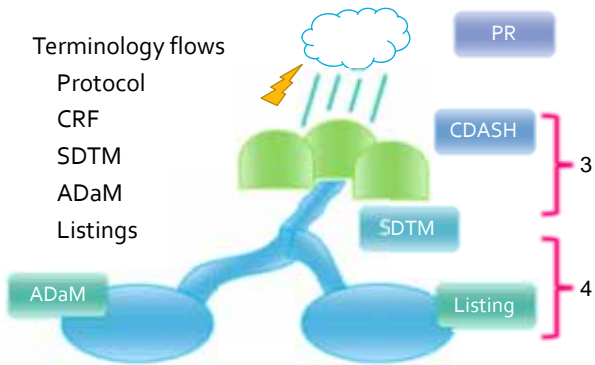
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References and Key Links

- SDTM v1.3, SDTM IG v3.1.3, ADaM v2.1 and ADaM IG v1.0
- FDA CDER Common Data Standards Issues Document (Ver1.1)
- CDISC eJournal 2012
 - The Major Impacts of CDISC on Clinical Data Lifecycle - Article by Chengxin Li and Nancy Bauer
http://www.cdisc.org/stuff/contentmgr/files/0/36b3ee257bd65b5d7f0f279bd45dead4/misc/major_impacts_of_cdisc_on_clinical_data_lifecycle_li_bauer.pdf
- OpenCDISC Rule AD0129 - AD0130, AD0149 - AD0150
<http://www.opencdisc.org/forum/rule-ad0129-ad0130-ad0149-ad0150>
- Prescription Drug User Fee Act (PDUFA)
 - PDUFA V Reauthorization Performance Goals and Procedures; Fiscal Years 2013 through 2017
<http://www.fda.gov/downloads/ForIndustry/UserFees/PrescriptionDrugUserFee/UCM270412.pdf>
- FDA-WG(Data Validation and Quality Assessment) Group2 - Top 20 validation rule failures
[http://www.phusewiki.org/wiki/index.php?title=Top_20_Validation_Rule_Failures_\(CBER\)](http://www.phusewiki.org/wiki/index.php?title=Top_20_Validation_Rule_Failures_(CBER))

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Connection LISaS - Topic 3 & 4



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Topic Discussion Members and Acknowledgments

- Some of the views and opinions expressed in this presentation are those of the individual discussion member and should not be attributed to the organization by which the member is employed.
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