CDISC Public Webinar – Standards Updates SDTM1.7/SDTMIG3.3 Stanley Wei (C3C)

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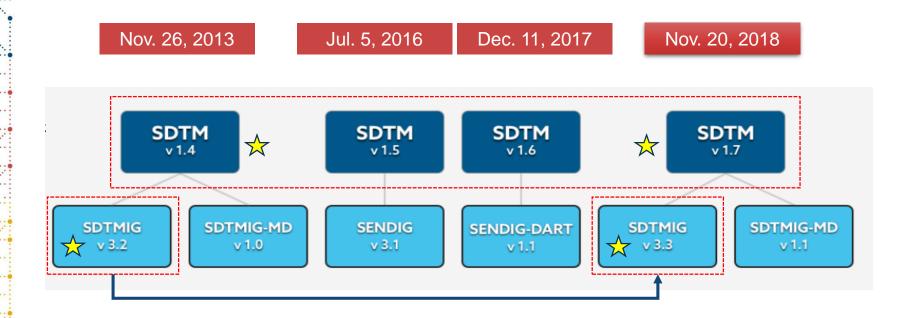


Agenda

- Updates of SDTM in history version since SDTM1.4
- Updates of SDTMIG3.3 from SDTMIG3.2
- Key considerations of SDTM1.7/SDTMIG3.3
- Q&A

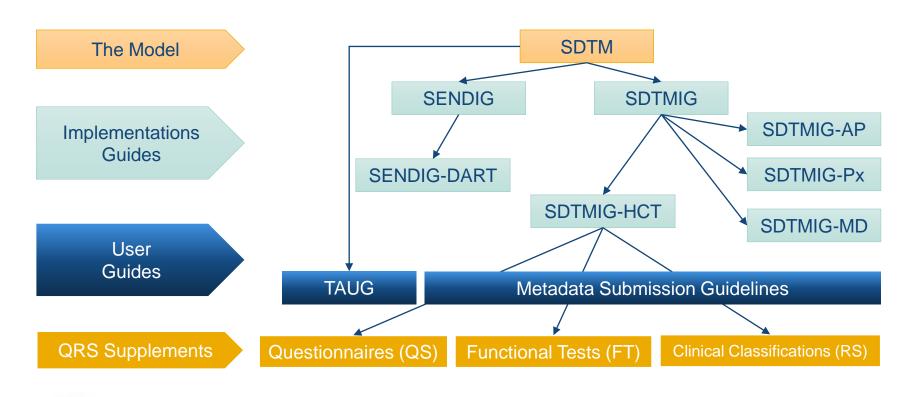


History Versions of SDTM/SDTMIG Standards





Relationships between SDTM, IGs and TAUGS



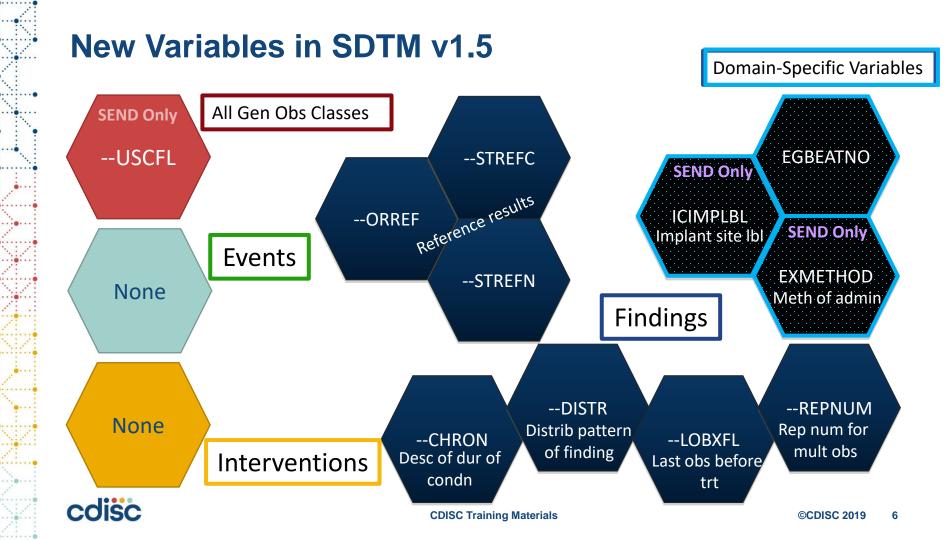


Major Updates between History Versions of SDTM

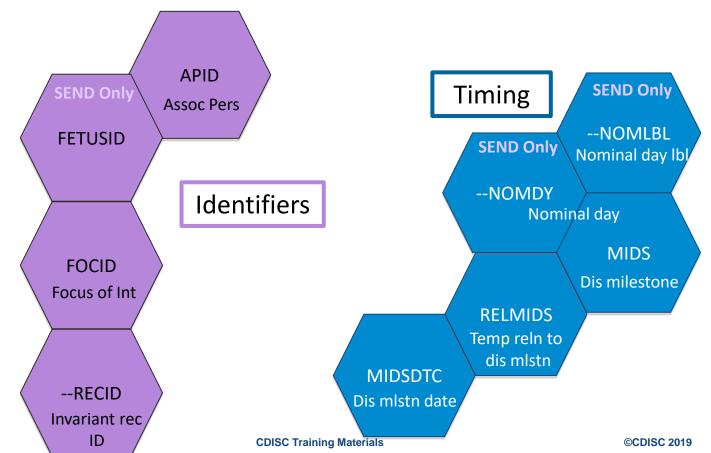
SDTM Version 1.5

- Introduces the concept of domain specific variables.
- Introduce new tables to relay data about disease milestones
- Contains a few newly added variables to address TAUG needs
- Contains newly added variables to support SEND that will not be used in human clinical trials.
- Only SENDIG v3.1 was specifically developed based on this version SDTM.





New Variables in SDTM v1.5





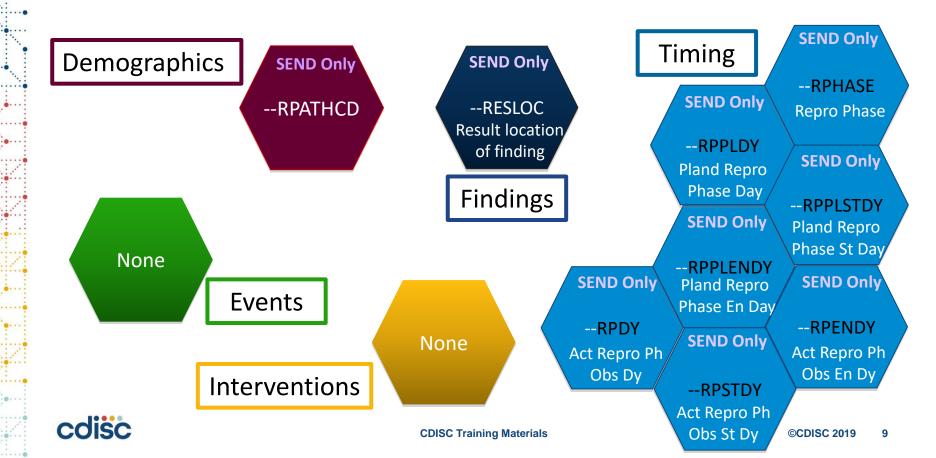
Major Updates between History Versions of SDTM

SDTM Version 1.6

- Start to use HTML webpage instead of PDF document.
- Supports the SENDIG-DART v1.1
- Includes additional variables related to developmental and reproductive toxicology (DART) animal studies.



New Variables in SDTM v1.6



Major Updates between History Versions of SDTM

SDTM Version 1.7

- Added the Role column to the TDM Datasets and Relationship Datasets.
- Dataset additions:
 - Device-Subject Relationships Dataset
 - Device Identifiers Dataset
 - Non-Host Organism Identifiers Dataset
- Domain-specific variables additions
- Each implementation guide specifies the version of the SDTM that it is associated with.



New Variables in SDTM v1.7

MHEVDTYP MH Event Date Type

Events Domain-Specific Variables ACTARMUD Desc of unplan Arm or Actual Arm

Demographics

Arm
ARMNRS
Reas Arm
or Actual

or Actual Arm is null COEVALID Evaluator ID

Comments

CODY Study day of comment

Interventions

--RSDISC Reas for discount. Findings Domain-Specific Variables

MSCONCU Agent Concentr

Unit

Agent Concentr

MSCONC

MSAGENT Agent Name

Domain-Specific Variables for the General Observation Classes

Table 2.2.12.1 Domain-Specific Variables for General Observation Class Domains

Observation Class	Domain	Variable Name	Variable Label	Туре	Role	Description	Position
Events	MH	MHEVDTYP	Medical History Event Date Type	Char	Variable Qualifier of MHSTDTC and/or MHENDTC	Specifies the aspect of the medical condition or event by which MHSTDTC and/or the MHENDTC is defined. Examples: "DIAGNOSIS", "SYMPTOMS", "RELAPSE", "INFECTION".	After MHDECOD
Interventions	EX	EXMETHOD	Method of Administration	Char	Record Qualifier	Method of administration of the treatment. Not to be used with human clinical trials.	After EXLOC
Findings	EG	EGBEATNO	ECG Beat Number	Num	Variable Qualifier of EGORRES	A sequence number that identifies the beat within an ECG.	
Findings	IC	ICIMPLBL	Implantation Site Label	Char	Record Qualifier	Label or identifier that describes the location or position of a fetal implantation site in the uterus (or uterine horn) when classifying implantations during a uterine examination in a reproductive toxicology study. Not to be used with human clinical trials.	
Findings	MS	MSAGENT	Agent Name	Char	Record Qualifier	The name of the drug or other material for which resistance is tested. The agent may be used for in vitro testing or may be used in tests for genetic markers or in direct phenotypic drug-sensitivity testing.	After MSTEST
Findings	MS	MSCONC	Agent Concentration	Num	Variable Qualifier of MSAGENT	The amount of drug or other material listed in MSAGENT per unit volume or weight. Used when the agent is part of the pre-specified test. Not to be used when the concentration is a result of a test such as minimal inhibitory concentration, IC50, or EC50.	After MSAGENT
Findings	MS	MSCONCU	Agent Concentration Units	Char	Variable Qualifier of MSCONC	Unit of measure for MSCONC.	After MSCONC



Notable Changes between SDTM v1.4 and 1.7

NEW! Concept

Domain-Specific Variables

 Selected variables added to be used only in specific gen obs domains, e.g., MHEVDTYP NEW! Content

Representing Relationships

- RELSUB: relating subjects to subjects (e.g., mother/infant)
- DR: relating subjects to devices

NEW! Content

Trial Design

- Subject Disease Milestones
- Trial Disease Milestones

NEW! Section

Study References

- Datasets that construct objects needed for a study
- Ex. device identifiers (SPDEVID), nonhost organism identifiers (NHOID)



Major Changes from Previous Version SDTMIG3.2

- Preparation of the SDTMIG in the CDISC wiki environment, with HTML format.
- New domains for existing models/sections
 - Special purpose domains: Subject Disease Milestones (SM)
 - Interventions domains: Meal Data (ML), Procedure Agents (AG)
 - Findings domains: Functional Tests (FT)
 - Trial design datasets: Trial Disease Milestones (TM)
- Newly added models/sections
 - Body system-based domains (Morphology/Physiology Domains):
 - Cardiovascular System Findings (CV)
 - Musculoskeletal System Findings (MK)
 - Nervous System Findings (NV)
 - Ophthalmic Examinations (OE)
 - Respiratory System Findings (RE)
 - Urinary System Findings (UR)
 - Study references:
 - · Device Identifiers (DI)
 - Non-host Organism Identifiers (OI)



Domain Additions and *Changes* by Class: SDTM IG v3.3

	Interventions	Events	Findings	Special Purpose	Trial Design	Study References
	Procedure Agents (AG)	N/A	Morphology (MO)	Subject Disease Milestones (SM)	Subject Disease Milestones (TM)	Non-Host Organism ID (OI)
	Meal Data (ML)		Cardiovascular (CV)			Device Identifiers (DI) (moved)
			Musculoskeletal (MK)			
			Nervous (NV)			
,			Ophthalmic (OE)			
			Respiratory (RE)			
			Urinary (UR)			
			Functional Tests (FT)			



Respiratory System Findings (RE)

- A physiology findings domain, one of several domains used to represent tests/examinations that assess functioning of a particular body system
- Developed as part of the Asthma TA project
- Examples show pulmonary function tests
- Controlled terminology for test names has been approved; additional test names may be requested
- Introduces 3 new variables for a single reference value (REORREF, RESTREFN, RESTREFC), units themselves are in REORRESU and RESTRESU, as for the normal range variables



Functional Tests (FT)

- A findings domain used to represent tests/examinations that are task-based evaluations that provide an assessment of the subject's mobility, dexterity, or cognitive ability
- They are not subjective assessments of how the subject generally performs a task. Rather they are an objective measurement of the performance of the task by the subject in a specific instance
- Examples include the 25-foot Walk Test and the 6 Minute Walk Test
- Developed as part of the Multiple Sclerosis TA project
- Introduces 1 new variable (Repetition Number -- REPNUM)



Domain-Related Changes (V3.3)

RS/CC/QRS

- Expanded scope of RS domain to include clinical classifications as well as oncology disease response.
- RS moved from old Oncology grouping to Questionnaires, Ratings, and Scales grouping.

TU/TR

 Scope of TU and TR domains was expanded to include lesions in addition to tumors.

MB/NHOID

- Now handles tests for all types of microorganisms, not just bacteria.
- NHOID created to allow construction of meaningful identifiers.



Domain-Related Changes (V3.3)

DM

 Revised assumption to say that supplemental qualifiers for population flags should not be used.

DS

- Defined use of Disposition Events for both study participation disposition and study treatment disposition.
- Representing multiple informed consents in DS

PE

- Domain limited to data collected in a traditional physical examination of the body
- Included reference to CDASH advice on physical examination data.



Additional Items (V3.3)

Baseline values

 New section, describing the new --LOBXFL variable and contrasting it with the old --BLFL variable and the ADaM variable ABLFL.

Conformance

Variable labels removed from conformance

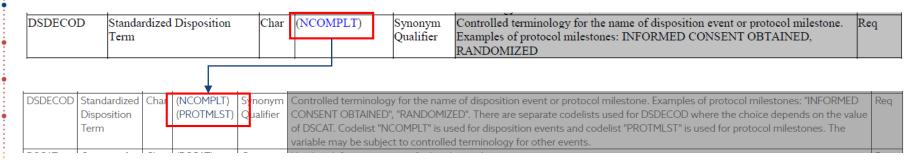
Epoch

- Describes period of time based on Arms/Elements in Trial Arms (TA) dataset
- Assigning from data on CRF is preferable to imputing
- If data not collected, if Epoch is not clear, should be left null
- For data prior to subject participation, Epoch should be null



New Functionality: Multiple CT Lists for One Variable

DS Domain (example)

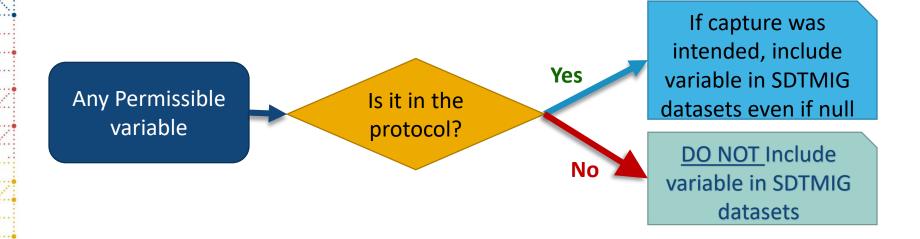


Code	Codelist Code	Codelist Extensible (Yes/No)	Codelist Name	CDISC Submission Value	CDISC Synonym(s)
C114118		Yes	Protocol Milestone	PROTMLST	Protocol Milestone
C132447	C114118		Protocol Milestone	ELIGIBILITY CRITERIA MET	
C16735	C114118		Protocol Milestone	INFORMED CONSENT OBTAINED	

Code	Codelist Code	Codelist Extensible (Yes/No)	Codelist Name	CDISC Submissi Value	on	CDISC Synonym(s)
C66727		Yes	Completion/Reason for Non-Completion	NCOMPLT		Completion/Reason for Non-Completion
C41331	C66727		Completion/Reason for Non-Completion	ADVERSE EVEN	١T	
C25250	C66727		Completion/Reason for Non-Completion	COMPLETED		



Permissible Variables (v3.3)





Planned and Actual Arm (v3.2)

Planned Arm: **required** for all subjects (ARM, ARMCD)

- No planned arm = NOT ASSIGNED
- Screen Failure = SCREEN FAILURE

Actual Arm: <u>required</u> for all subjects (ACTARM, ACTARMCD)

Not treated = NOT TREATED



Planned and Actual Arm (v3.3)

Planned Arm: expected for all subjects (ARM, ARMCD)

Actual Arm: expected for all subjects (ACTARM, ACTARMCD)

Reason why Planned and/or Actual Arm is null (ARMNRS)

- Screen Failure
- Not Assigned

Unplanned Actual Arm: expected for all subjects (ACTARMUD)



SDTM Model to SDTMIG Correspondence

- The Global Governance Team made a decision that a version of the SDTM will be published with any new release of an SDTM-based implementation guide:
 - SDTMIG
 - SENDIG
 - SDTM-PGx
 - SDTM-AP
 - SDTMIG-MD
- This will ensure alignment of new domains and concepts in each IGs with the SDTM at the time of publication.





How do I Access the Latest Controlled Terminology?

- https://www.cdisc.org/standards/terminology
- https://www.cancer.gov/research/resources/terminology/cdisc
- https://evs.nci.nih.gov/ftp1/CDISC/



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