



Science For A Better Life

# CDISC Intrachange 2013

## 30.07. - 01.08.2013 Silver Spring

German User Group Meeting, 24-Sep-2013

Melanie Füllbeck

# Intrachange Agenda



## 30.07.2013

- Technical Plan, Roadmap
- Study Data Standards at FDA
- Cross-team Sessions:
  - FDA-CDISC Submission Issues
  - Integrated Standards from Study Planning through Execution
  - Discussing the impact of Therapeutic Area Standards projects on CDISC Foundational teams

## 31.07.2013

- CDISC Standards Development Process, SHARE and Tools for Teams
- Cross-team Sessions:
  - SDTM Governance - Integrating SEND, Drug Trials, Devices

## 31.07.2013 (cont.)

- Validation Conformance Requirements; Interaction with PhUSE CSS
- Education and Tools for Teams

## 01.08.2013

- Cross-team Sessions:
  - Managing Questionnaires from Protocol to Analysis
  - Drug Exposure from Protocol to Analysis
  - Integrated Metadata: Using Define-XML for full submissions

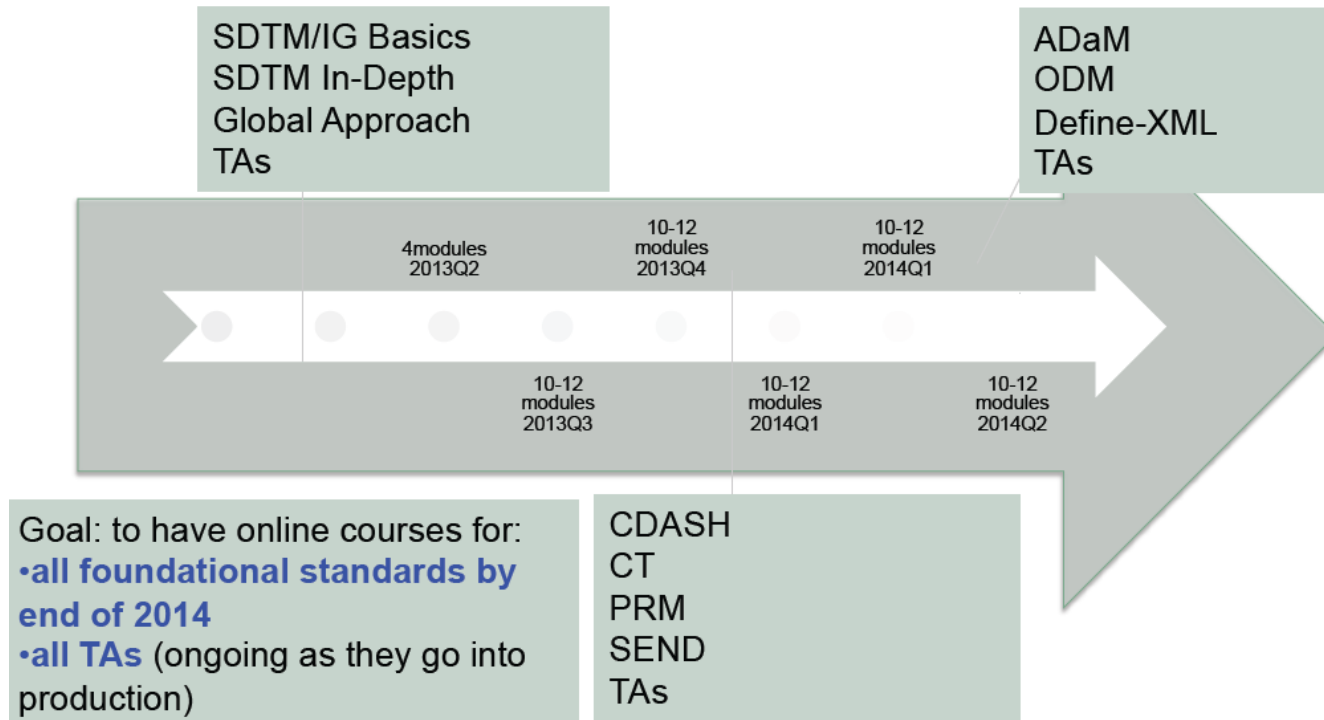
## On all Days:

- Individual Team Meetings: ADaM, SDS, SEND, CDASH, XML Tech, Protocol, QS

# Technical Plan/Roadmap



## Proposed Online Course Release Schedule



Source: Presentation - W. Kubick, Intrachange 2013



# Collaboration Tools

- Portal Enhancements:
  - Comprehensive list of standards documents that are currently under development
  - Contact list of who is working on what
  - Detailed instruction on sharepoint functionalities (check-in and check-out)
- Launch of online training campus:
  - General Training webinars
  - Training on what to expect as a project team member



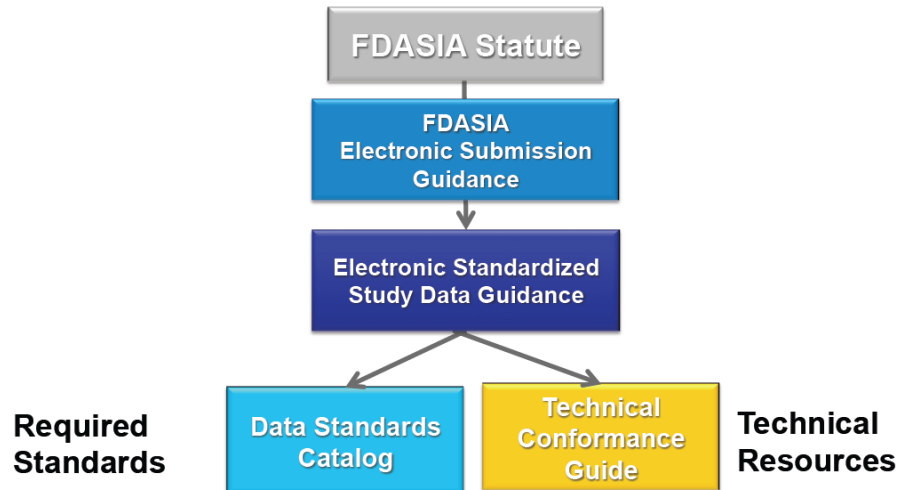
# Collaboration Tools

- Issue Tracking
  - Jira (<http://jira.cdisc.org>)
  - Plan to begin evaluation in conjunction with Confluence
  - Can also be utilized for action items and decision register
- Document Collaboration
  - Confluence (<http://wiki.cdisc.org>)
  - Any comments/issues identified with documents posted on Confluence linked directly with issue tracking in Jira
- Both are currently in a testing phase (CDISC sub-team)



# Study Data Standards at FDA

- In 2012 the FDA received 662 study datasets per week, up to 10GB in size
- 43% of effort in a review is spent on data management and primary analysis
- Guidance on the standards and format of electronic submission
  - Binding: 24 month after issuance of final guidance: For NDA and BLA submissions, efficacy/labeling/manufacturing supplements and amendments, and all other new NDA submissions
- Periodic releases of final guidance



*Adapted from Source by Ron Fitzmartin, FDA*

NDA: New Drug Application, BLA: Biologics License Application, FDASIA: FDA Safety and Innovation Act

# FDA-CDISC Submission Issues



- Industry would like feedback on submissions
  - CDISC can improve implementation advice
  - Sponsors learn what they can improve
- Clear communication of FDA expectations
  - Template for communication
  - Let reviewers know data are SDTM/ADaM based
- Validation challenges
  - Need feedback to improve
  - Understand that validation checks do not rule the data
  - Poor implementations can still be compliant

# Validation Conformance Requirements



- CDISC teams own/drive validation requirements for their standard(s)
  - Currently: discrepancies between rule definitions and implementation at vendor
  - Validation requirements definition will be integrated in standard development process
  - Validation/Conformance Rule document needs to be documented after new releases
- FDA-PhUSE Data Quality Working Group will provide common place for finding all of the Validation/Conformance Rules for a standard and will support governance process
  - <http://www.phusewiki.org/wiki/index.php?title=Data Validation and Quality Assessment>



# Integrated Standards from Study Planning through Execution



- High-level picture of standards that impact CDISC and that CDISC impacts



CONSORT: Consolidated Standards of Reporting Trials (CONSORT Statement)  
EMA: European Medicines Agency  
MHLW: Ministry of Health, Labour, and Welfare  
FDA: Food and Drug Administration  
ICH: International Conference on Harmonisation  
NIH: National Institute of Health  
WHO: World Health Organisation  
ANSI: American National Standards Institute  
ISO: International Organization for Standardization  
HL-7: Health Level 7  
JIC: Joint Initiative Council  
HITSP: Healthcare Information Technology Standards Panel  
CTTI: Clinical Trials Transformation Initiative  
NLM: National Library of Medicine  
MSSO: Maintenance and Support Service Organization  
UMLS: Unified Medical Language System  
IHTSDO: International Health Terminology Standards Development Organisation  
NCVHS: National Committee on Vital and Health Statistics  
PHIN: Public Health Information Network

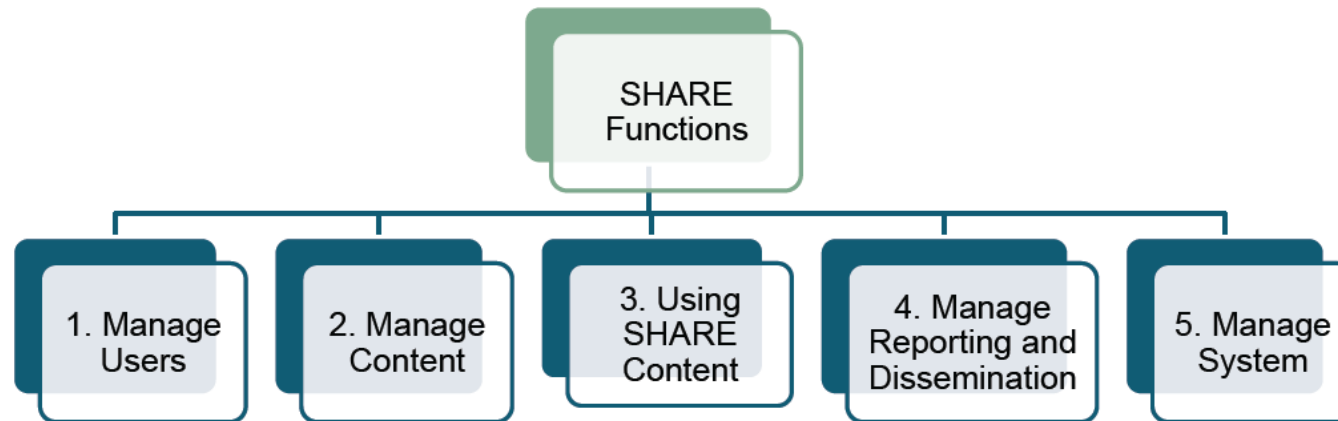
Source: XT2 Summary, Gary Walker and Kit Howard, Intrachange 2013

- List will be completed
- Relationships will be defined (both direction)
- Define expectations among CDISC standards
- Identify gaps
  - What is needed to address the gaps?
  - Determine and develop solutions (Process...)
- Determine to which degree SHARE could be a backbone for this

# SHARE(Shared Health and Clinical Research Electronic Library)



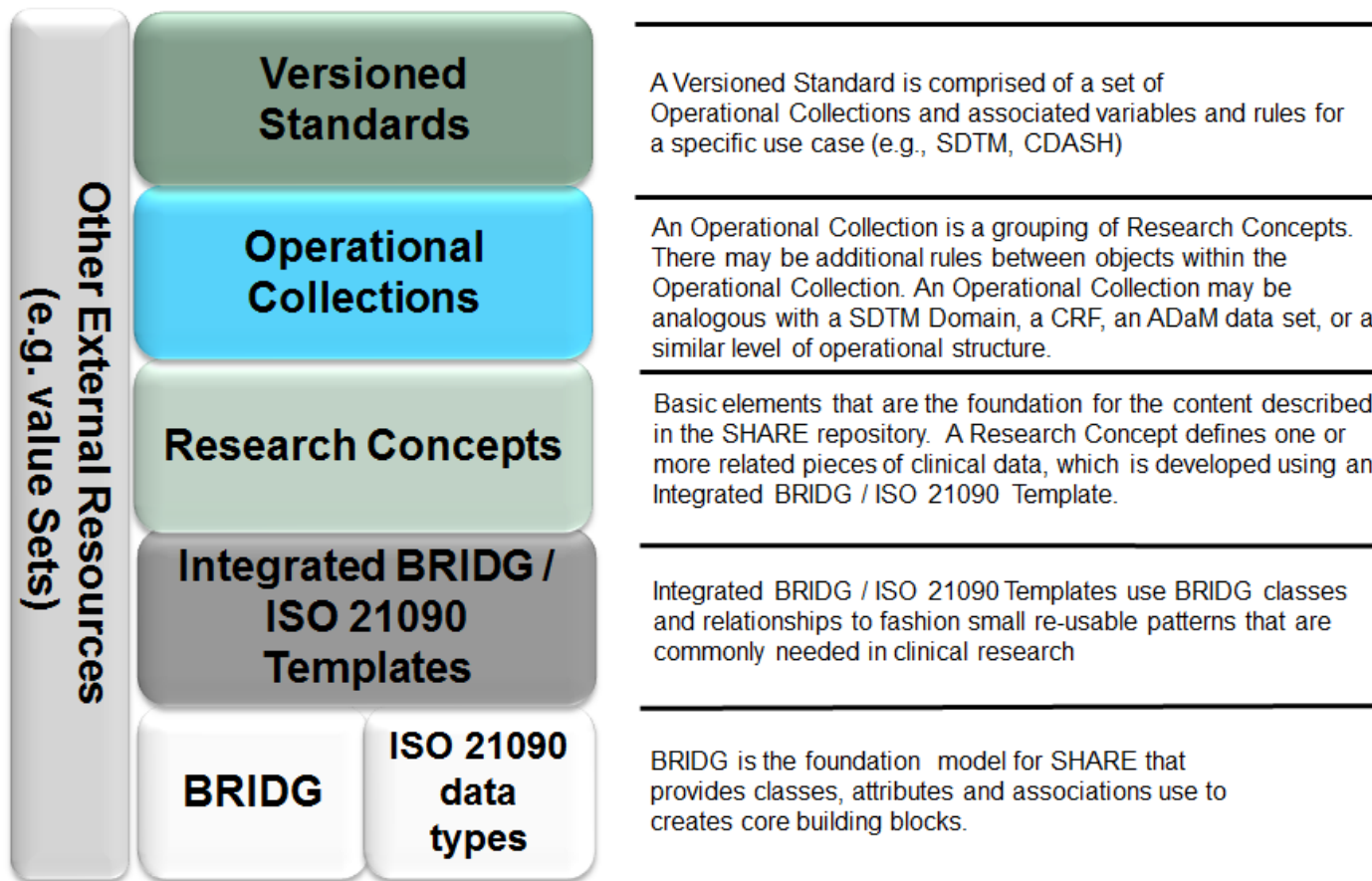
## SHARE Top-Level Functions



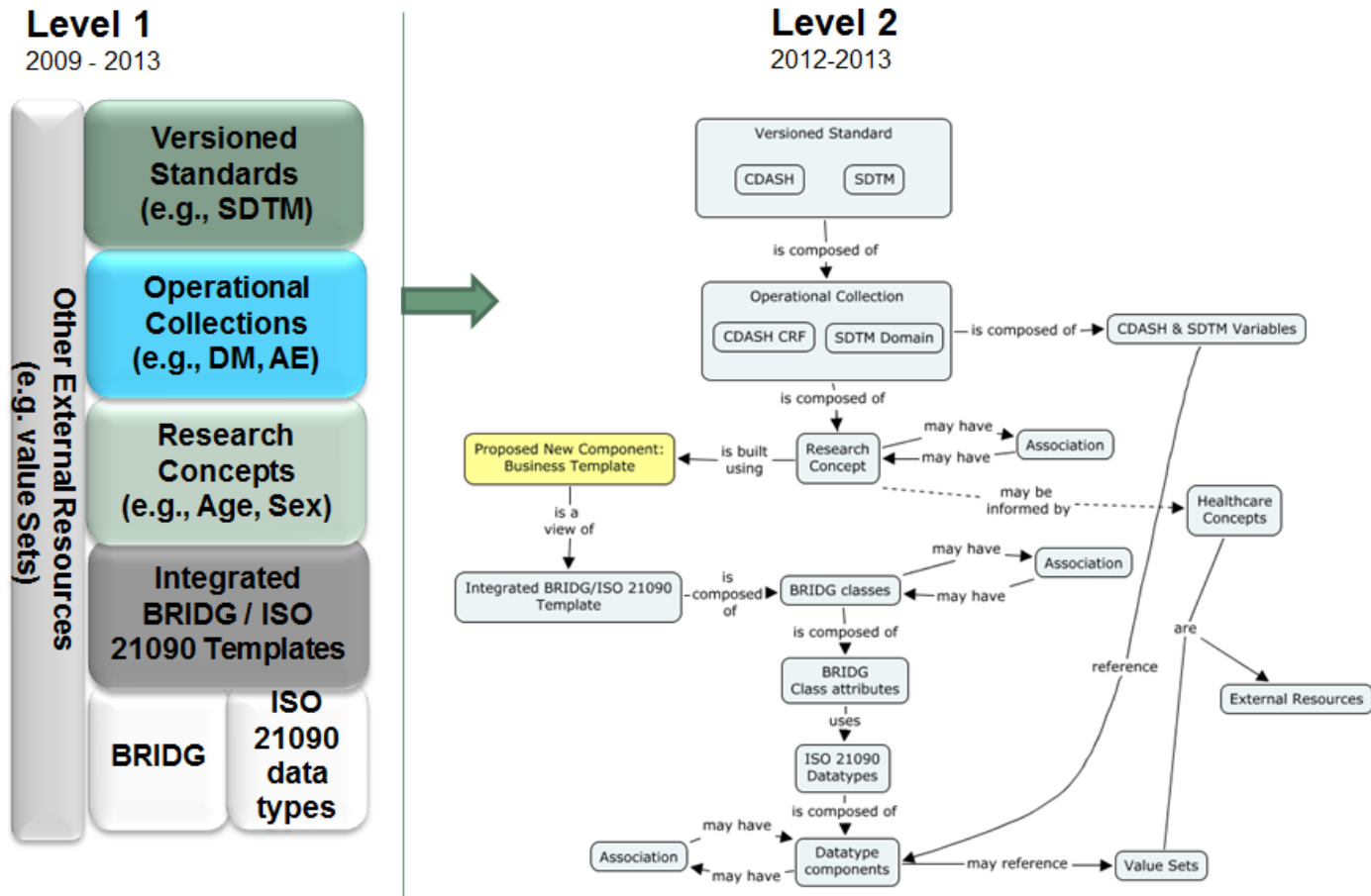
- Manage User Roles
  - Manage User Profiles
  - Manage Password
  - Manage User Dashboard
- Development templates
  - Manage Work Items/ work in progress
  - Manage Standard Objects
  - Manage Audit Trail
  - Version control
  - Associations, links, references
  - Value sets, codelists
- Search, Browse, Compare, Reconcile
  - Impact analysis
  - Import
  - Export
  - Print
  - API integration
- Send Notifications to users re object changes
  - Manage listserv
- Manage SHARE MDR Framework Components
  - Monitor User Activity
  - Maintain Metrics
  - Manage System Availability

Source: Presentation - W. Kubick, Intrachange 2013

## SHARE MDR Framework



Source: Presentation - S. Hume, Intrachange 2013



Source: Presentation - J. Evans, Intrachange 2013



# CFAST (Coalition for Accelerating Standards and Therapies)



## Program Overview – July 2013

### Therapeutic Area Standards Under Development

	Coordinating Organization(s)	Project Manager	Stage 0	Stage 1	Stage 2	Stage 3a	Stage 3b	Stage 3c	Issues
			Scoping & Input	Concept Modeling	Standards Development	Internal Review	Public Review	Publication	
Alzheimer's V1.1	CPATH/CDISC Jon Neville		Jan	Mar	Jun	Jul	Sep	Q313	
Asthma V1	CDISC Rhonda Facile		Jan	Mar	Jun	Jul	Sep	Q413	
Cardiovascular Endpoints V1	CDISC/DCRI Amy Palmer		Jun	Jul	Aug			Q114	
Multiple Sclerosis V1	CPATH/CDISC Bess Leroy		May	Aug	Jul			Q114	<i>Concept modeling done prior to standards development step.</i>
Diabetes V1	TCB/CDISC Rachael Zirkle		Mar	Jun	Aug			Q114	
QT Studies V1	TCB/CDISC John Owen		Jul	Sep				Q214	
Traumatic Brain Injury V1	CDISC TBD		Aug					Q214	
Hepatitis C V1	TBD		Sep					Q314	
Schizophrenia V1	CDISC/DCRI Amy Palmer		Oct					Q314	
Oncology	TBD		Oct						<i>SAC working to define scope and deliverables.</i>

Project Status: ● On track ● At risk ● Critical issues   Stage ongoing   Stage completed *Italics = Projected*

### Published Therapeutic Area Standards

<a href="#">Alzheimer's Disease V1 - Final</a>	<a href="#">Polycystic Kidney Disease V1- Provisional</a>
<a href="#">Pain V1 - Provisional</a>	<a href="#">Tuberculosis V1 - Provisional</a>
<a href="#">Parkinson's Disease V1 - Provisional</a>	<a href="#">Virology V1 - Provisional</a>



Source: Presentation - W. Kubick, Intrachange 2013

# CFAST - Deliverables



1. Mindmap visualization of disease area clinical concepts
2. Essential **core** data elements of the disease
3. Definitions
4. Data types (simple & ISO 21090)
5. BRIDG and SDTM mappings
6. SDTM domains and examples
7. Minimum value sets (from code lists)
8. User/Implementation Guide
9. Standard CDASH CRFs with SDTM annotations, as appropriate

## More detailed & rigorous development process

- quality checks and gates
  - 3 review cycles
  - SRC final approval

## New roles & team organization

- New roles: scoping expert, concept modelers, metadata analyst, clinical experts
- That collaborate with established CDISC teams:  
Terminology, SDS, CDASH, ADaM teams



# Questionnaires Sub-Team

- QS Supplement Quarterly Delivery Schedule
  - Approximately 6-10 per quarter
- On the CDISC new term request page a link to the new questionnaire implementation request form is available
- Backlog of 31 questionnaires
  - Backlog needs to be cleared with the help of volunteers
  - A WebEx to train volunteers is planned



# CDASH



- CDASH Model to be drafted in Q4 2013
  - Explains what CDASH standard is and how companies can implement themselves
- CDASH Terminology Guidance internal review Q1 2014
  - Develop CRF completion instructions for code lists
  - Goal is to provide terminology guidance for 15-20 codelists in the next CDASH update
- PK Domain → eventually with next CDASH release
- CDASH Device CRFs
  - Volunteers needed

# CDASH



- CDASH v1.2 internal review in Q1 2014
  - SDTM 3.1.3 domains
  - Terminology guidance
  - Changes from CDASH v1.1 (comments)
  - PK domain (?)
  - Oncology CRFs (?)
- CDASH v2.0 internal review in Q3 2014
  - SDTM 3.1.4 domains
- CDASH UG 2.0 internal review in Q4 2014

# SDS Team



- Clear guidance on preparing proposals for new domains
- Clear guidance on development process (milestones...)
- Ongoing consistency checks
  - E.g. Governance of SDTM separated from IG
- Goal is to have more frequent IG releases
  - Domains become available as soon as they are finished
  - Provisional domains could be tested by the user community: Rules are needed → after SRC approval
- Transparency of comment handling
  - Public Comment Tracker

# SDS Team



- SDTM 3.1.4
  - Release as portfolio
  - Domains are inserted in the observation class in alphabetical order
  - Consistent sections within each domain
  - Some domains are released as topic sets (PP/PC, MB/MS, EX/EC)
- CT checks for 3.1.4
- Release: Q4 2013 ?
- 2014 and beyond:
  - Timing variables
  - USUBJID/SUBJID clarifications in DM (proposal in internal review)
  - SUPPQUAL, FA
  - Synchronizing with other teams/initiatives
    - CDISC Teams (CDASH, ADaM, SEND....)
    - TA Projects
    - Other External Teams (PhUSE Validation/Conformance)

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SDTM 1.4	SDTM IG 3.1.4
SDTM 1.3	SDTMIG 3.1.3
New Device variables	Death Details (DD)
New EX variables	Exposure as Collected (EC) and EX enhancements
Associated Person IG	Healthcare Encounters (HO)
	Immunogenicity domains (IS/SR)
	Microscopic Findings (MI)
	Morphology (MO)
	Procedures (PR)
	Reproductive System Findings (RP)
	Subject Status (SS)
	Associated Person IG (AP IG)
	Virology User Guide (VR, VF, VP)
	Trial Disease Assessments (TD)

# SDS Team



<b>SDTM 1.5</b>	<b>SDTM IG 3.1.5</b>
SDTM 1.4	SDTMIG 3.1.4
SDTM Timing Variables	Cardiovascular (CV)
	Lesion Attributes (LA)
	Nervous System (NV)
	Respiratory Measurements (RE)
	Urinary System (UR)
	FA Model Clarification
	SUPPQUAL - Supplemental Qualifiers Public Proposal
	Updates to existing domains: PC, CM, QS



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Thank you!