

A Shared Language for Clinical Research

How technical organizations are embracing
plain language and implementing the
MRCT Center Clinical Research Glossary



Thursday, May 8, 2025
10 - 11 AM ET

Learn more at www.mrctcenter.org

Disclaimer



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We are committed to autonomy in our research and to transparency in our relationships. The MRCT Center—and its directors—retain responsibility and final control of the content of any products, results, and deliverables.

Session Overview



- Welcome
- Overview of Patient Centricity, Health Literacy, and Clinical Research
- Patient Centricity and Data Sciences with SCDM
- Patient Centricity and the Data Standards Landscape with CDISC
- Discussion and Q&A
- Final Thoughts and Wrap-up

Welcome!



Sylvia Baedorf Kassis
MRCT Center



Erin Muhlbradt
NCI EVS [c]



Rebecca Baker
CDISC



Carol Ann Schaffer
2025 Chair, SCDM



Claudine Moore
Editor in Chief, JSCDM

Patient Centricity, Health Literacy, and Clinical Research Data



The MRCT Center:
A Focus on Participant
Understanding Benefits
Everyone



About Us

MRCT Center is an applied policy center focused on addressing the conduct, oversight, ethics and regulatory environment for clinical trials around the world.

www.mrctcenter.org

Our Vision

Improve the integrity, safety, and rigor of clinical trials around the world.

Our Community

We engage diverse stakeholders to define emerging issues in global clinical trials and to create and implement ethical, actionable, and practical solutions.

The MRCT Center offers....

Foundational information for participants...

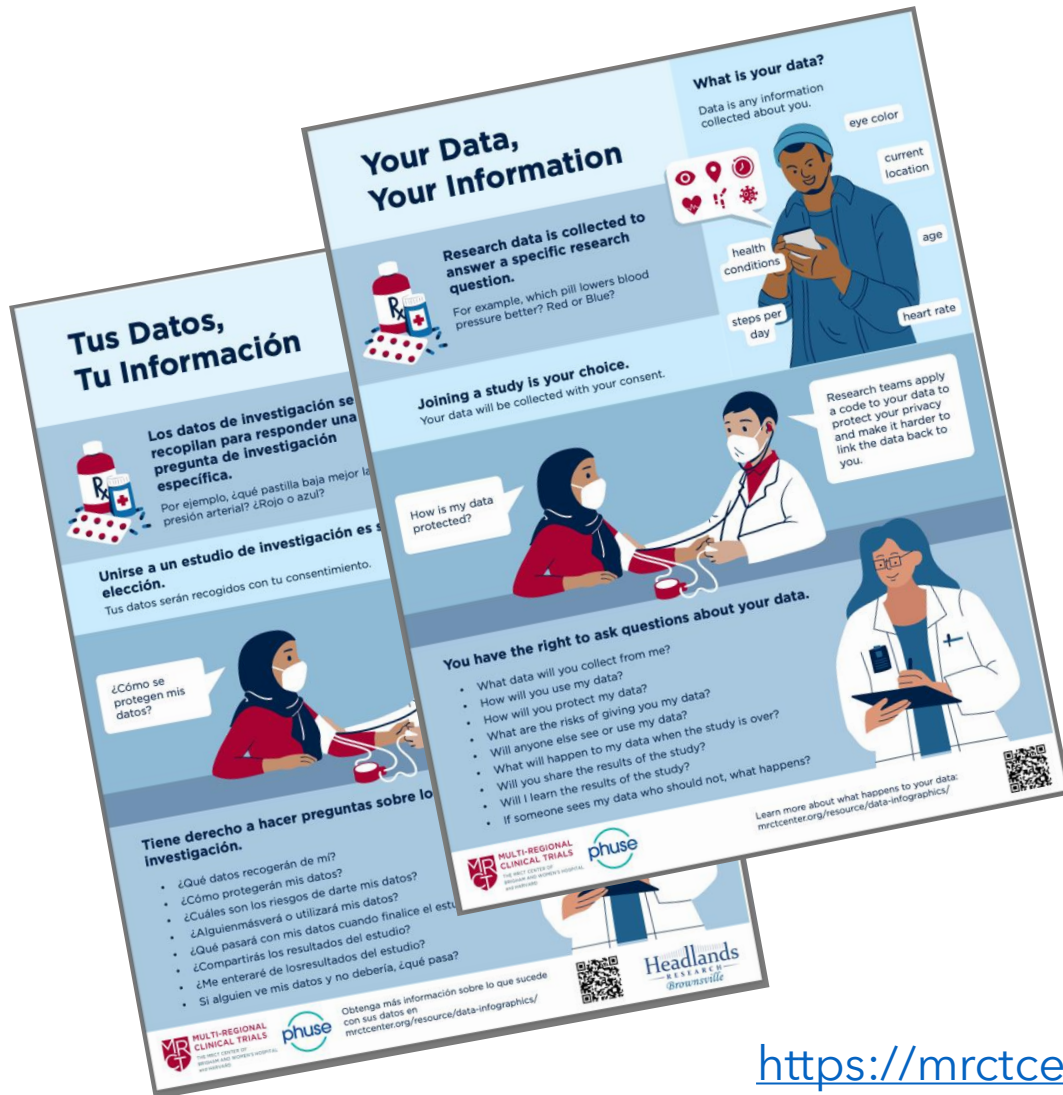


...with an extra focus on special populations...

... and topics.

More at: <https://mrctcenter.org/project/resources-for-patients-and-participants/>

New in 2025 – Data Literacy Infographics



English

- **Infographic #1: 'Your Data, Your Information'**
- **Infographic #2: 'What Happens to Data During a Research Study?'**
- **Infographic #3: 'What Happens to Data After a Research Study?'**
- **Infographic #4: 'What is a Data Repository?'**
- **Infographic #5: 'What Happens to Data if You Leave a Research Study?'**

Spanish

- **Infographic #1: 'Tus Datos, Tu Información'**
- **Infographic #2: ¿Qué Sucede Con Los Datos Durante un Estudio de Investigación?**
- **Infographic #3: ¿Qué Sucede Con Los Datos Después de un Estudio de Investigación?**
- **Infographic #4: ¿Qué es un Repositorio de Datos?**
- **Infographic #5: ¿Qué pasa con los datos si te retiras de un estudio de Investigación?**

<https://mrctcenter.org/resource/data-infographics/>

Helping you understand clinical research

The **Clinical Research** Glossary offers easy to understand clinical research definitions.

All definitions are developed by the MRCT Center and a committed team of patient advocates and other professionals in medicine and research. Before definitions are released, they are reviewed by members of the public.

The Clinical Research Glossary started as a pilot project in 2020 and is now a CDISC glossary standard for clear communication. This means that more and more groups are learning about and using this resource.

Welcome! We hope this resource is helpful to you.

[LEARN MORE](#) [GET INVOLVED](#) [MEET THE TEAM](#) [DOWNLOAD](#)

A B C D E F G H I J K L

data

Information collected from or about people taking part in a research study

Example of *data* in a sentence

Researchers use *data* to answer study questions.

More Info

There are many different types of data including: personal information like age and date of birth, [questionnaires](#), blood test results, imaging scans and their interpretations, health insurance status and so on.

The types of data collected depend on the study.

Other info to think about when joining a study

Analyzing data is the way research questions are answered. You will usually hear the term “data” when researchers talk about the information they will be collecting about you during the study

You may want to clarify what data the study team will collect from you and how the data will be used for the research. You can also ask how the data will be protected and whether the data could be used for any other future uses.

	#				
	001	35	119/78	117/76	112/73
	002	42	113/72	120/79	113/74
	003	38	110/71	140/77	112/79
	004	39	99/63	106/83	95/77

Related Words

[assessment](#) [questionnaire](#)

information

Other Resources

[NCI Thesaurus](#) [Harvard Catalyst - Information about Data](#)

Download image

Accessibility Menu

www.mrctcenter.org/glossary

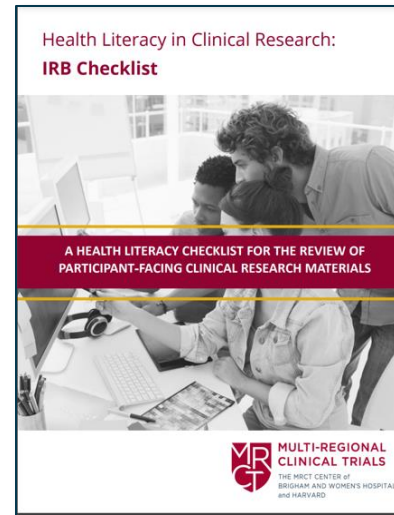
A Shared Language for Clinical Research

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10



2013 - 2017



2019

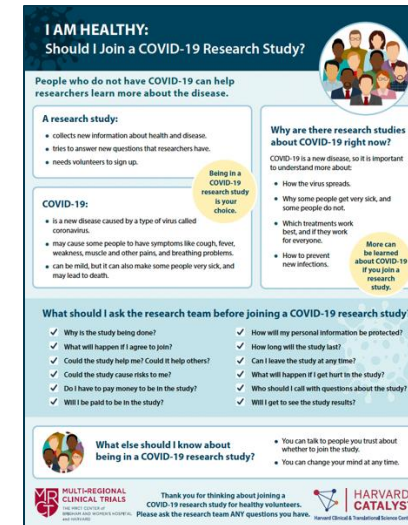


Glossary Pilot Project

2018 - 2019



2020





2021

V 1.0

2023

2024

V 2.0

SCDM

2022

Clinical Research Glossary Expansion Efforts

Baedorf Kassis S, White S, & Bierer B. (2022). [Developing a consensus-driven, plain-language clinical research glossary for study participants and the clinical research community](#). *Journal of Clinical and Translational Science*, 1-20. doi:10.1017/cts.2022.12

Health Literacy (and its connection to data)

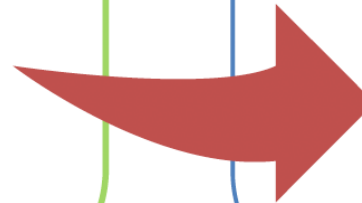
Organizational health literacy

The degree to which organizations **equitably enable individuals** to find, understand, and use information and services to inform health-related decisions and actions for themselves and others



Personal health literacy

The degree to which individuals have the ability to find, understand, and **use information and services** to inform health-related **decisions and actions** for themselves and others



From: <https://odphp.health.gov/healthypeople/priority-areas/health-literacy-healthy-people-2030>

Patient Centricity Benefits Everyone



Individual Patients, Participants, and Care Partners

The Public

Clinical Research Professionals

Health and Research Organizations





Patient Centricity and the Data Sciences



Society for Clinical Data
Management (SCDM):
Our Commitment to a
Healthier World

Who We Are



Non-Profit Global Professional Organization founded in 1994

- Membership spanning Academia, Sponsor, CRO, Regulatory and Technology Providers
- Serving Clinical Data Management and Research Professionals
- Setting the stage for Data Management and framing the future
- Research, Education and Certification
- Conferences and Networking

Our Vision:

To lead the clinical data science industry for a healthier world.

Our mission:

- **Accelerate the development** of preventative and curative medical interventions by leading the clinical data science profession.
- **Prepare our industry and professionals** for the evolution of the management of health data through education, best practices and certification programs.
- **Engage and partner** with policy makers, regulators, patient organizations and other key stakeholders for a healthier world.

In 2024, we consolidated our strategic plan and established ourselves as leaders in the industry

Bridging the skills gap

- CDM Competency Framework
- CDA Certification Program
- Conferences with a global reach
- Promoting lifelong professional learning with more than 15 Webinars in 2024
- Strategic investments in talent and technological capabilities in education

Expanding through partnerships

- Regulatory Council through PPP with FDA
- Expanded Corporate Partnership Program
- Expansion into CDM/CDS regions of growth
- Collaboration with MRCT Center

Influencing through leadership

- JSCDM quarterly publications, including GCDMP chapters
- Career journey: Insights into the CCDA and CCDS roles through on-demand, free webinars
- Updates from the industry: 15 podcast episodes

Risk-Based CDM (RB-CDM)

Quality by Design (QbD)

Controlling risks by building with the end in mind; Proactive planning

RB-study execution: Risk controls

Risk assessment; Quality checks & mitigation

RBQM

Incorporate QbD, Quality Controls and Continuous Quality Improvement; Use of RACT as a Risk Evaluation Tool

Soft Skills Inc. Leadership & Executive Skills

CDS-driven business models

CDS-based organization/ business structure

Change management

Skills to effectively implement change; Transition planning from CDM to CDS

People/Team development

High performing teams; Career development

Critical & strategic thinking

Skills to effectively analyze information plan according to objectives

Crisis management

Maintaining business continuity during a significant event

Clinical Trial Operations

Patient-driven development & inclusion

Patient/Site-driven development; For example: DCT, patient-centric designs

Emerging study execution

Patient/Site-driven development; For example: DCT, patient-centric designs

Trial design & logistics

Understanding study objectives and site/sample logistics

Protocol design, feasibility & review

Understanding protocol objectives and endpoints and how to review with a CDS eye/how to contribute to draft protocol design

SCDM
CDM Industry
Competency Framework

Good Clinical Data Management Practices (GCDMP)

Chapter topics/updates

CDM-role evolution

CDM to CDS

Partnership governance & oversight

Vendor management/governance

Stakeholder identification and management

Relationship building/interaction

Cross-functional collaboration

Relationship building/interaction

Clinical Data Competencies & Cross-Functional Interactions

CDISC, FHIR, HL7

Global Regulatory Guidelines

For example: ICG-GCP

Country/Regional - specific regulations

For example: HGRAC China, GDPR

AI-driven technology platform

AI-driven DM workbenches

AI rb-SDLC

Risk-based approach to AI development life cycle

Generative AI

For example: Chat GPT, GPT 4.0

Data curation & insights generation

Spotfire, Power BI, visualization tools

Data collection platforms

For example ECOA, EDC

Site eSource

EHR, Telemedicine, Home Care, DCT

Patient-tailored technology

For example: wearables, BYOD

Regulations & Standards

AI & Cognitive Tech

Technology & Data Platforms

SCDM: Driving Change to Address Industry Challenges



Lead

Leverage innovation and thought leadership to identify industry needs and develop best practices / standards to adapt.



Influence

Utilize partnerships of value, interactions with regulators and policy makers to work together providing industry expertise.



Transform

Drive the CDM to CDS evolution and identify future needs.

Provide education and certification keeping skills in line with industry changes.



Grow

Leveraging global CDMs/CDSs footprint to expand knowledge and industry expertise driving leadership, influence and transformation

Professional growth through education and certification.

Our Vision for 2030

THE INDUSTRY



Clinical Research 2.0

The line between clinical research and healthcare will continue to blur, driven by the increased use of real-world data (RWD) and the adoption of innovative study designs, reshaping how clinical data is collected, analyzed, and utilized for improved patient outcomes.



End-2End Data Flow

The integration of metadata beyond MDR, digital protocol-driven data flows (USDM - ICH M11), and seamless integration of source data (ETL to ELT) alongside real-world data (RWD) will redefine clinical data management, enabling scalable audit trails and maximizing the value of data for more accurate and efficient patient care.



Patient's Choice

The patient voice will shape the future of clinical trials, with patient data return reducing site burden through decentralized trial activities. Multi-source data streams and improved data quality will drive more efficient, patient-centered research.



Intelligent Technologies

Continuous technology advancements will enable AI-assisted data flow and transformations, augmenting clinical data management with new roles like data curators and prediction modelers. 'Human in the loop' integration and AI/ML best practices will ensure ethical and efficient clinical trial solutions

A Shared Language for Clinical Research

SCDM's ROLE

Opportunities & Considerations

- Education Strategy Transformation CDM to CDS
- Collaborations/Partnerships of Value
- Global Influence

Evolution & Growth: certifications, roles, technology

CCDA, CCDM, CCDS...is there another?

Evolve Competency Framework toward CD

→ Evolution of ROLES

AI is changing landscape of roles

Clinical Data Manager & Central Monitor Role Blending

Lower reliance on site Monitors for Data Review and technology management.

→ Evolution of TECHNOLOGIES

End of SAS and Data of Analytics as we know it (Used for exploration NOT issue identification<n)

The rise of Natural Language Interaction & Programming (~ "Prompt Engineering")



What is JSCDM?



Scholarly publication that began in 2020



Open-access; Member of the Directory of Open Access Journals (DOAJ)



Peer-reviewed



Focus: Publishing the science and operations behind data collection and use in clinical studies



Complies with International Committee of Medical Journal Editors (ICJME) recommendations



In collaboration with CDISC



Contains links to the Multi-Regional Clinical Trials (MRCT) Plain Language Medical Glossary

Journal of the Society for Clinical Data Management



Journal of the Society for Clinical Data Management



- Where is JSCDM viewed?
- Accessed by 180 Countries
- Top 10 Countries by View

Country	Views
United States	130302
China	56504
India	17368
Germany	11318
Japan	7758
United Kingdom	6900
Canada	6679
Ireland	6404
Russian Federation	4493
Singapore	3467

Journal of the Society for Clinical Data Management



- Who's citing us?
- 14 Published JSCDM articles have been cited 30 times across 16 Journals

Journal Name	# times JSCDM article cited
Clinical and Translational Science	6
JMIR Formative Research	5
JMIR Medical Informatics	3
Journal of the Society for Clinical Data Management	2
npj Digital Medicine	2
Therapeutic Innovation & Regulatory Science	2
Discover Health Systems	1
Journal of Medical Systems	1
Journal of Biomedical Informatics	1
BMC Medical Research Methodology	1
Data	1
Nuklearmedizin - NuclearMedicine	1
Heliyon	1
Contemporary Clinical Trials	1
BMJ Health & Care Informatics Online	1
JMIR Research Protocols	1

Glossary

The Good Clinical Data Management Practices adopt the ICH definitions for terms defined within the ICH guidelines. Unless otherwise noted, these definitions were taken from ICH E6.1 (ASQ) in a definition indicates the American Society for Quality as a source.

In addition, where available, technical definitions include a link to patient-friendly, plain language definitions. These easy-to-understand definitions, and the accompanying information and graphics, have been developed by an engaged multi-stakeholder workgroup of the Multi-Regional Clinical Trials Center of Brigham and Women's Hospital and Harvard (MRCT Center). Learn more about the MRCT Center and their Clinical Research Glossary [here](#).

Go to:

[A](#)[B](#)[C](#)[D](#)[E](#)[F](#)[G](#)[H](#)[I](#)[J](#)

Thank you

Patient Centricity and the Data Standards Landscape



The Clinical Data Interchange Standards Consortium (CDISC):
Together, we can do
so much more

CDISC Standards

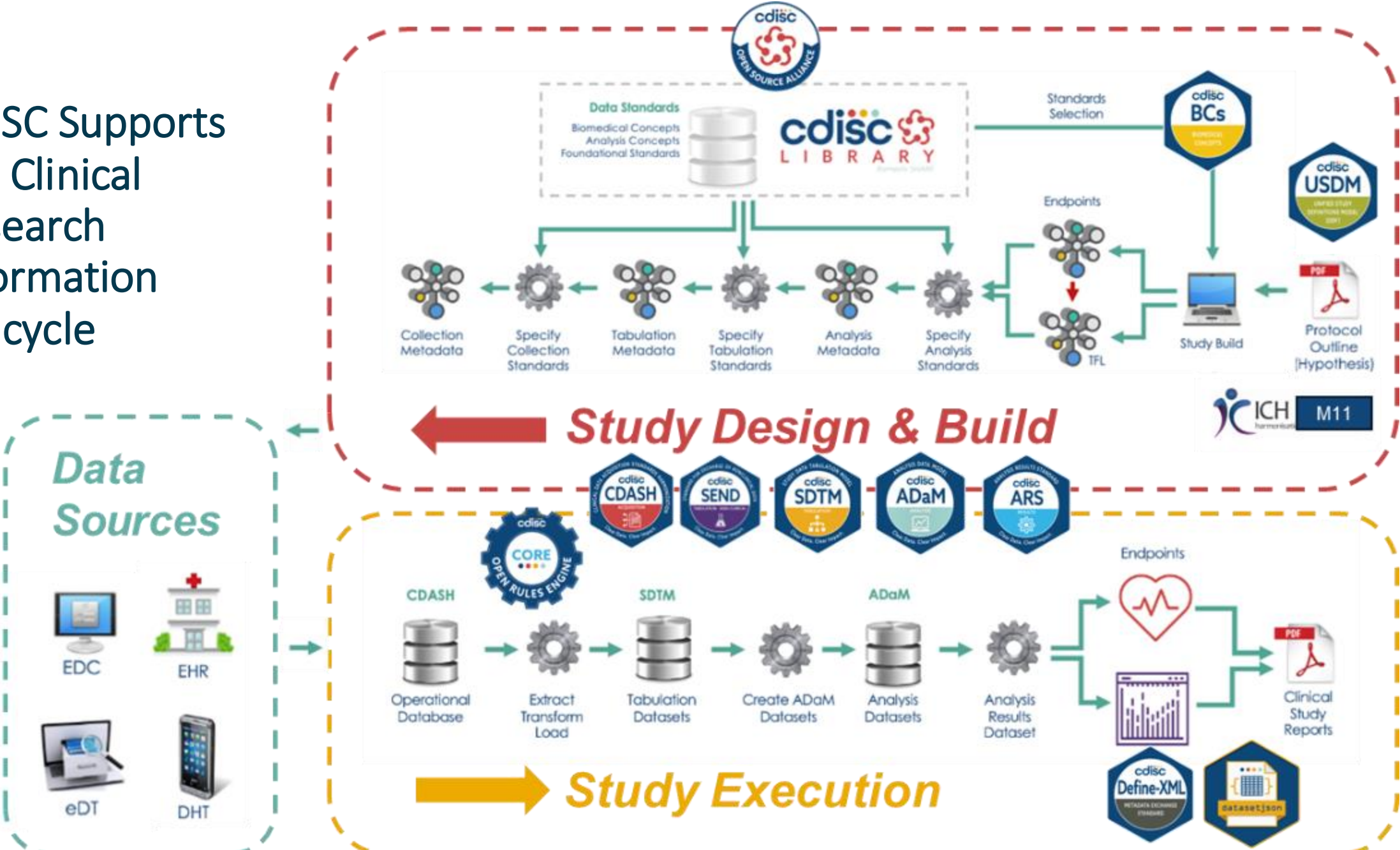
- Consensus-based standards development nonprofit founded in 2000
- Standards for clinical, non-clinical and translational research
- Standards are freely available at www.cdisc.org
- IP Policy ensures open standards
- Ongoing global research support in the Americas, Europe, Japan, China, India, Korea and other regions
- Standards downloaded in 90+ countries



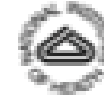
Alliances and Partnerships Landscape



CDISC Supports the Clinical Research Information Lifecycle



NCI EVS Partnership



CDISC and EVS have been working closely together for more than 20 years.

- EVS provides dedicated terminology experts, subject matter experts, and management resources.
- CDISC provides subject matter experts, data model experts, and a large review community.

EVS is responsible for CDISC controlled terminology development, harmonization, publication and maintenance.

EVS provides established terminology infrastructure and standard operating procedures.

>60,000 CDISC terms are coded and tagged in NCI Thesaurus (NCIt)

- Required by FDA and PMDA
- Preferred NMPA and Recommended by EMA

CDISC terminology standards average >50,000 downloads/month in more than 60 countries.

The EVS website hosts biomedical terminologies that NCI does not own or control. Some of these sources may contain gender-related terminology that does not comply with Executive Order 14168

Enter concept code or at least 3 letters of a term.

☒ Contains ☐ Exact Match ☐ Starts With ☐ Phrase ☐ Fuzzy ☐ AND ☐ OR

Welcome

NCI Thesaurus (NCIt) provides reference terminology for many NCI and other systems. It covers vocabulary for clinical care, translational and basic research, and public information and administrative activities.

NCIt features:

- Stable, unique codes for biomedical concepts.
- Preferred terms, synonyms, research codes, external source codes, and other information.
- Over 100,000 textual definitions.
- Over 400,000 cross-links between concepts, providing formal logic-based definition of many concepts.
- Extensive content integrated from NCI and other partners, much available as separate NCIt subsets.
- Updated frequently by a team of subject matter experts.

NCIt is a widely recognized standard for biomedical coding and reference, used by a broad variety of public and private partners both nationally and internationally including the Clinical Data Interchange Standards Consortium Terminology (CDISC), the U.S. Food and Drug Administration (FDA), the Federal Medication Terminologies (FMT), and the National Council for Prescription Drug Programs (NCPDP).

Term Suggestion Form: <https://evsexplore.semantics.cancer.gov/evsexplore/termform>

Download: https://evs.nci.nih.gov/ftp1/NCI_Thesaurus

More Information: <https://wiki.nci.nih.gov/x/IAWy>

NCIt Terms of Service: https://evs.nci.nih.gov/ftp1/NCI_Thesaurus/ThesaurusTermsOfUse.htm

EVS NCI Enterprise Vocabulary Services: Terminology resources and services for NCI and the biomedical community.

NCIm NCI Metathesaurus: Comprehensive database of 8,000,000 terms from over 100 terminologies.

NCIt NCI Thesaurus: Reference terminology for NCI, NCI Metathesaurus and NCI informatics infrastructure.

Multiple Terminology Search: Search through a combination of medical terminologies including NCI Thesaurus, NCI Metathesaurus, MedDRA, and more.

cancer.gov NCI Terminology Resources: More information on NCI dictionaries and resources.

NCI Thesaurus Report Exporter NCI Thesaurus Report Exporter: A tool to customize exports of data from NCI Thesaurus (NCIt).

Swagger API Documentation: View documentation for the EVS REST API providing data to this application.

Client SDK Documentation: EVS REST API client SDK documentation providing code examples for interacting with the API in a variety of programming languages. Also includes answers to Frequently Asked Questions (FAQ).

- Publications: DDF (USDM), SEND, CDASH, SDTM, ADaM, Define-XML, TMF, MRCT, CDISC Glossary
 - (Coming Soon: ICH M11 Protocol)
- Formats: .xls, .txt, .html, .odm-xml, .OWL/RDF, .pdf
- Changes files (from previous release) + Changes Program
- All files stored on NCI Ftp and archived files are made available.
- FREE Terminology Access:
 - NCI website*
 - CDISC website*
 - CDISC Library metadata repository
 - EVS Explore Browser*
 - EVS REST API
 - MRCT Glossary website

HOMENCI THESAURUS - VERSION: 25.03E; RELEASE DATE: MARCH 31, 2025SUBSETSMAPPINGSHIERARCHYDOCUMENTATION *HELP

The EVS website hosts biomedical terminologies that NCI does not own or control. Some of these sources may contain gender-related terminology that does not comply with Executive Order 14168

Trial Phase (Code - C48281) --

Open In Hierarchy

Term Suggestion Form

Collapse All

Export

New Search

All | caDSR | CDISC | CDISC-GLOSS | MRCT-Ctr | NCI | PCDC

NCI Thesaurus Code: C48281 (Search for linked caDSR metadata)

Semantic Type(s): Classification

Preferred Name: Trial Phase

Synonyms

Other Properties

Parent/Child Concepts

Roles and Associations

Definitions (4) [top]

Definition ↑↓

Source ↑↓

Attribution

A stage in the clinical research and development of a therapy from initial clinical trials to post-approval studies. NOTE: Clinical trials are generally categorized into four (sometimes five) phases. A therapeutic intervention may be evaluated in two or more phases simultaneously in different trials, and some trials may overlap two different phases. [21 CFR section 312.21; After ICH Topic E8 NOTE FOR GUIDANCE ON GENERAL CONSIDERATIONS FOR CLINICAL TRIALS, CPMP/ICH/291/95 March 1998] See also Phase 0-5, epoch (if reference is to a single trial), phase (within a study), clinical research and development.

CDISC GLOSS

A step in the clinical research and development of a therapy from initial clinical trials to post-approval studies. NOTE: Clinical trials are generally categorized into four (sometimes five) phases. A therapeutic intervention may be evaluated in two or more phases simultaneously in different trials, and some trials may overlap two different phases. [21 CFR section 312.21; After ICH Topic E8 NOTE FOR GUIDANCE ON GENERAL CONSIDERATIONS FOR CLINICAL TRIALS, CPMP/ICH/291/95 March 1998]

CDISC

A step in the overall clinical research process to test a new drug, device, or treatment. (https://mrctcenter.org/glossaryterm/phase/)

MRCT Ctr

Clinical trials are broken into three or four phases: Phase I tests a new drug or treatment for safety in a small group; Phase II expands the study to a larger group of people; Phase III expands the study to an even larger group of people to measure whether the treatment actually benefits patients, and whether its benefits outweigh its risks.

NCI

from PDtrials.org Glossary

Synonyms & Abbreviations (14) [top]

Term ↑↓

phase

phase

phase (of clinical development)

STUDY_PHASE

TPHASE

Trial Phase

Trial Phase

Trial Phase

Trial Phase

Trial Phase

Trial Phase

Trial Phase Classification

Trial Phase Classification

Trial Phase Classification

Associations (17) [top] pointing from the current concept to other concepts

Relationship ↑↓

Related Code ↑↓

Related Name ↑↓

Concept_In_Subset

C207443

CDISC DDF Study Version Attribute Terminology

Concept_In_Subset

C188693

CDISC DDF Terminology

Concept_In_Subset

C67497

CDISC Glossary Terminology

Concept_In_Subset

C203912

CDISC MRCT Center Clinical Research Glossary

Concept_In_Subset

C139020

CDISC Protocol Entities Clinical Trial Attribute Terminology

Concept_In_Subset

C132298

CDISC Protocol Terminology

Concept_In_Subset

C66830

CDISC SDTM Terminology

Concept_In_Subset

C67152

CDISC SDTM Trial Summary Parameter Long Name Terminology

Concept_In_Subset

C66738

CDISC SDTM Trial Summary Parameter Short Name Terminology

Concept_In_Subset

C61410

Clinical Data Interchange Standards Consortium Terminology

Has_PCDC_Data_Type

C25162

Code

Concept_In_Subset

C186309

HL Subject Characteristics Table

Concept_In_Subset

C186342

HL Variable Terminology

Has_PCDC_HL_Authorized_Value

C15600

Phase I Trial

Has_PCDC_HL_Authorized_Value

C15601

Phase II Trial

Has_PCDC_HL_Authorized_Value

C15602

Phase III Trial

Has_PCDC_HL_Authorized_Value

C15303

Pilot Study

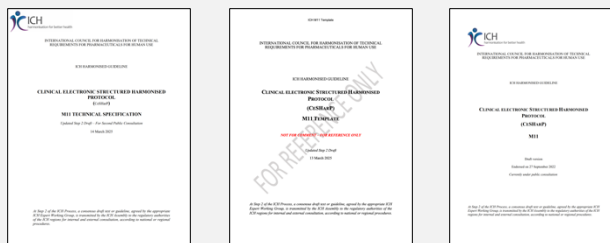
A Shared Language for Clinical Research

New CDISC Initiatives



ICH M11 and CDISC USDM

ICH M11



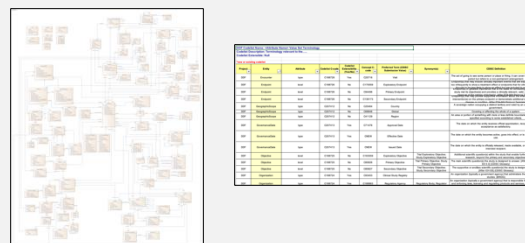
- M11 is a Working Group within ICH
- The WG has produced three documents:
 - A guideline (general overview)
 - A protocol document template specification
 - An associated technical specification detailing content within the template (e.g. CT)
- The focus is on the protocol document, the human readable view



harmonisation for better health

A Shared Language for Clinical Research

CDISC USDM



- Unified Study Definitions Model
- A logical model with associated CT
- Designed to provide industry and academia with a consistent way to digitize study designs
- Supports interventional (incl complex design) and observational study designs
- Provides support for protocol document templates
- Provides support for precise definition of the study design including detailed SoAs



Digital Protocol



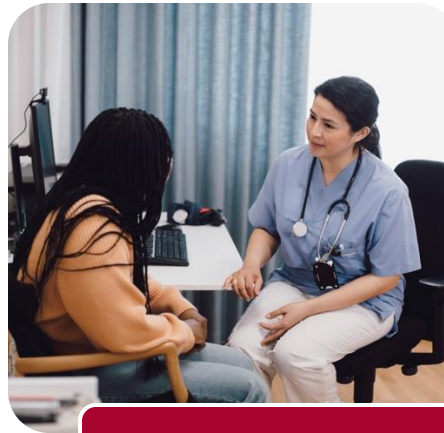
- USDM fully supports the M11 and other templates
- M11 documents can be digitized and held within the USDM format
- ICH M11 and USDM share common controlled terms
- USDM and M11 combined provides a complete electronic digital protocol solution

360i: Next Step to Realizing Standards Driven Research

Intelligent protocol-driven research to improve patient outcomes



Science & Innovation



Study Design & Conduct



Study Analysis & Review



**Standards
Driven
Automation**

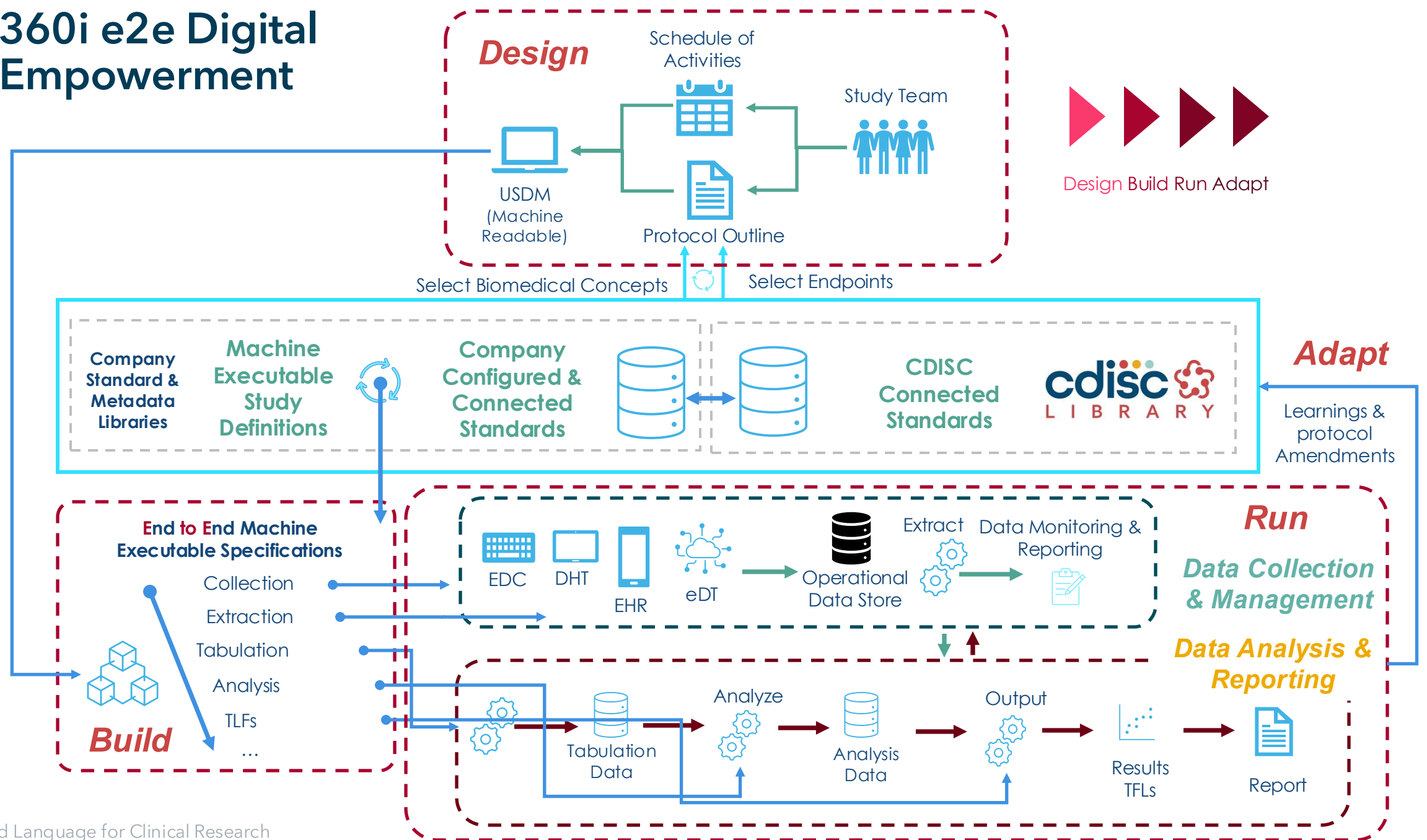
Well-defined
scientific concepts

With a connected
data life cycle

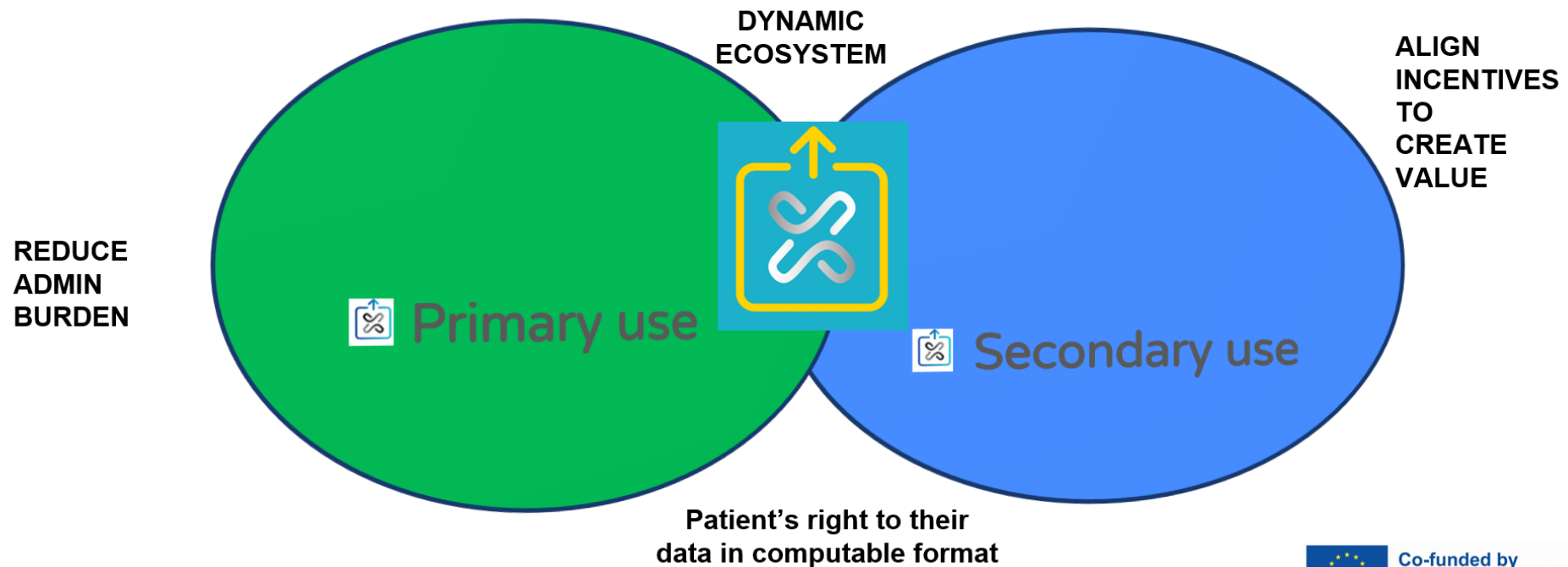
For traceable, interactive, and AI driven
results

Courtesy of CDISC 360i team

360i e2e Digital Empowerment



PRIMARY & SECONDARY USE are not (Totally) SEPARATE WORLDS





Digital Protocol
(USDM)



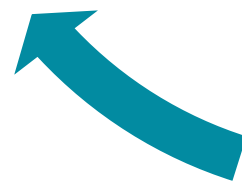
Open study
enrollment



Study
participation
(study schedule
of activities)



Study Data
Collection
informed by Data
Management
Best Practices
(SCDM)



Patient
community w
patient facing
activities enabled
by MRCT glossary

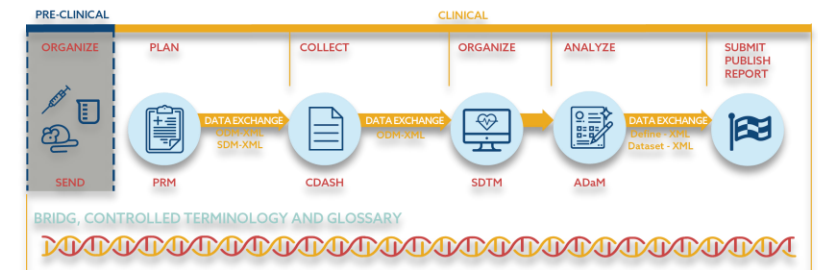


Clinical Research Glossary

SCDM

*Not a comprehensive view of
all CDISC initiatives*

CDISC Standards in the Clinical Research Process



Value Of A Connected World



Transition standards use from necessary requirement to valuable enabler through connected and ready to use implementable standards.



Patients

Data that is easier to extract and understand making it more accessible to patients

Sponsors

Protocol driven research automating the metadata & data pipeline reducing time to study results & increasing quality

Regulators

Reduced variability & clickable traceability from analysis to the collected data increasing confidence in decisions

Researchers

Reduce barrier to entry and cost for standards through ready to use implementable standards & open source tools

Technologists

Provide machine readable and interoperable inputs and outputs for easier adoption by software solutions

Courtesy of CDISC 360i team

The vision for the
future

*Together we can do
so much more*



Thank you

Discussion and Q&A



Upcoming Clinical Research Glossary Webinar



Join the MRCT Center on **June 24 from 12 – 1 PM ET** to learn how to participate in the annual **Public Review**—an essential step in making these plain language clinical research definitions a global standard.

Your involvement ensures the Clinical Research Glossary remains accurate, inclusive, and effective for informed decision-making in clinical research.

Register here:

<https://lp.constantcontactpages.com/ev/reg/4dmwmwf>



Representation in Research



- Underrepresented Populations in General
- Disabled populations/People with disabilities
- Global populations/People living outside the US
- Financially challenged and underinsured populations
- LGBTQIA+ populations
- Limited English Proficiency (LEP) populations
- Resources for IRB/HRPP members

<https://mrctcenter.org/project/representation-in-research/>

Many thanks again!

