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"FDA-CTP AND CDISC PROJECT TO DEVELOP TOBACCO RELATED STANDARDS TO ACHIEVE EFFICIENCIES FOR ALL STAKEHOLDERS"

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September 2022 Disclaimer: This is not a formal dissemination of information by FDA and does not represent Agency position or policy. CENTER FOR TOBACCO PRODUCTS

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- CTP Data Standards Strategy 2021-2025
 - Purpose: Strategies for the development and dissemination of data standards to better support the programs of CTP through better, more meaningful data.
 - Areas that are included
 - Electronic Data Exchange Standards
 - Premarket and Postmarket Review
 - Quality
 - Policy
 - Planning and Governance

- Electronic Data Exchange Standards
 - <u>Technical Specification Document</u>
 - Electronic Submissions through CTP Portal or Electronic Submission Gateway (ESG)
 - Utilize the Appendix A example for Organization of Folders and Documents
 - Electronic submissions must be packaged using <u>eSubmitter</u>
 - Data files such as Excel (xls, xlsx) or sas transport files (xpt or xport) should not be converted to a PDF
 - Best Practices
 - Obtain an Industry Account Manager account for CTP Portal
 - Submit applications electronically utilizing eSubmitter and CTP Portal
 - Follow recommendations in the Technical Specification Document
 - Future State
 - Functionality and/or tools to assist submitters in organizing and packaging submissions
 - Validations built into tools to assist submitters in correcting issues prior to submission

- Premarket and Postmarket Review
 - <u>OMB Forms</u>
 - Required forms for Premarket Tobacco Product Application and Substantial Equivalence Applications were released when the rules were published 10/4/2021 and the supporting OMB Forms were published in January 2022.
 - Form 4057b: Product Application Grouping Spreadsheet is utilized to standardize product information contained within a submission until such time that a data standard is available.
 - Similar forms are forthcoming for Substantial Equivalence and Exemption applications
 - Best Practices
 - Always obtain the most recent form from FDA.gov. Do not re-use previously downloaded forms.
 - Submit 4057b with all PMTA applications
 - Complete the required fields defined by product category and sub-category
 - Do NOT change form fields, data drop downs or file format. Submit the file as an .xlsx
 - Future State

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• Evaluating development of tools to assist submitters in populating form prior to submission



CTP DATA STANDARDS GRANT PROGRAM

- The Grant program has published for public participation under RFA-FD-22-002
- This is a Cooperative Agreement grant which is a support mechanism used when there will be substantial Federal scientific or programmatic involvement. Substantial involvement means that, after award, FDA scientific or program staff will assist, guide, coordinate, or participate in project activities
 - THE GRANTEE IS THE LEAD
- Outlines CTP Data Standards Program strategic goals
 - Support open, consensus-based, data standards development
 - Maintain and promote a well-defined data standards governance function,
 - Promote electronic submission of regulatory data using established standards
 - Optimize CTP's regulatory review process to fully leverage data conformed to standards

- Benefits to Industry
 - Ensures application is received and processed in a timely manner
 - Reduces time for reviewers to locate and identify required documents
 - Validations can be built into the portal and/or packaging tools to assist Industry in submitting the necessary information required for a particular submission
 - Standardized structured data allows for validation criteria to be built into tools
 - Aligns CTP with FDA Data Standards Catalog in the use of data standards and supporting tools
 - Standardized data helps CTP to streamline the review process by organizing files and data and enabling search and automation capabilities
 - Controlled terminology ensures that the same words mean the same thing to both industry and FDA.
 - Improves collaboration and communication between FDA and Stakeholders
 - FDA leverages form data to obtain administrative information, help determine review types, and populate databases to enable the use of technology for review and analysis

CORESTA

Document

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WHAT IS CDISC?

https://www.cdisc.org/

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A Global Standards Development Organization (SDO)

Founded in 1997 by Volunteers; 501(c)(3) non-profit organization

40 employees; 100+ contractors

>1,000 volunteers

Education available online and classroom for most standards



CDISC ALLIANCES AND COLLABORATIONS

CFAST & Therapeutic Area Partnerships

CDISC collaborates with many organizations to develop Therapeutic Area (TA) standards for multiple disease areas through the Coalition for Accelerating Standards and Therapies (CFAST) initiative, as well as other partnerships.



CDISC collaborates with other SDOs to develop standards that are synergistic to support a learning health system based upon high quality research.

September 2022 | FDA-CDISC Data Standards

Regulatory Collaborations

CDISC works closely with regulators around the world to ensure that CDISC standards will 1) streamline research from protocol/study design and trial registration through analysis and reporting; 2) facilitate the eSubmission review process; 3) ensure that clinical research is high quality; and 4) support the approvals



Additional Collaborations

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- Academic Institutions
- Accumulus Synergy
- **Digital Infuzion**
- **BioPharmaceutical Statistics** Leaders Consortium
- **Clinical Data Privacy** Consortium
- Learning Health Community
- Microsoft
- **OpenClinica**
- Pharmaceutical Data Standards Leaders
- PhUSE
- RedCap
- Vivli

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CDISC STANDARDS DEVELOPMENT

CDISC Team & Volunteers

- Consensus-based standards development
- Standards for clinical and translational research
- Standards are freely available at <u>www.cdisc.org</u>
- IP Policy ensures open standards

Drivers

REGULATION

EHR, CLAIMS AND

ER DATA SOURCES

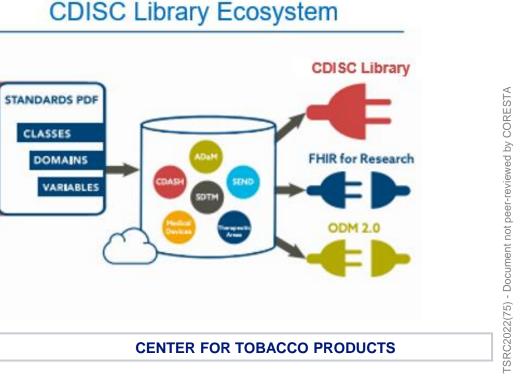
- Ongoing global research support in the Americas, Europe, Japan, China, India, Korea and other regions
- Standards and supporting documents available in English, Japanese, and Chinese

CONSUMER-DRIVEN

HEALTHCARE

NEW SCIENTIFIC

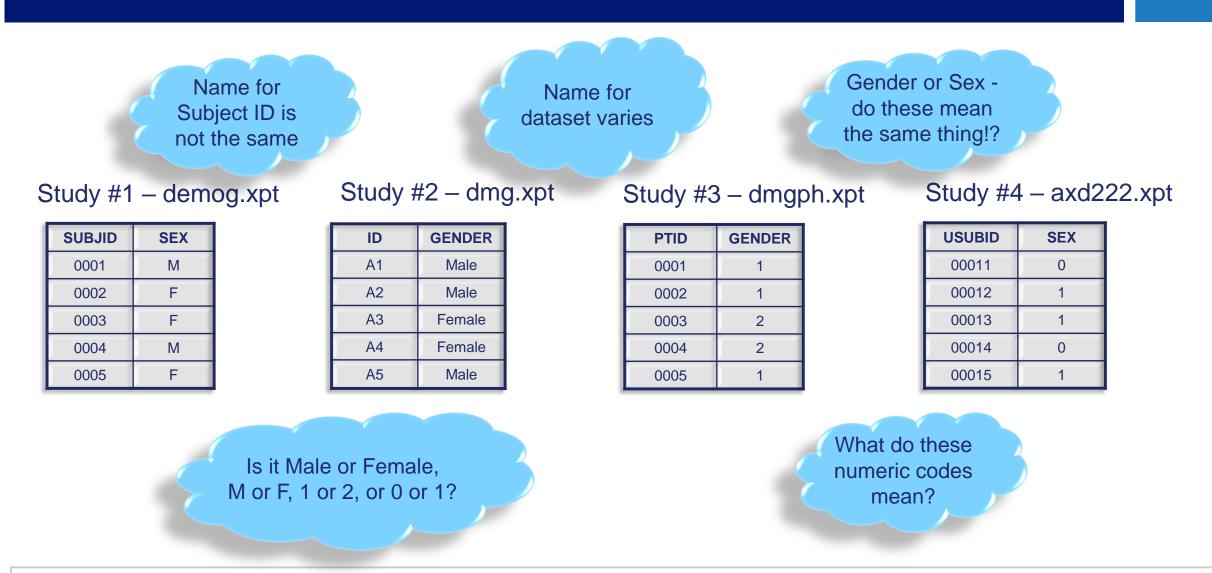
DISCOVERY



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TOBACCO IMPLEMENTATION GUIDE (TIG)

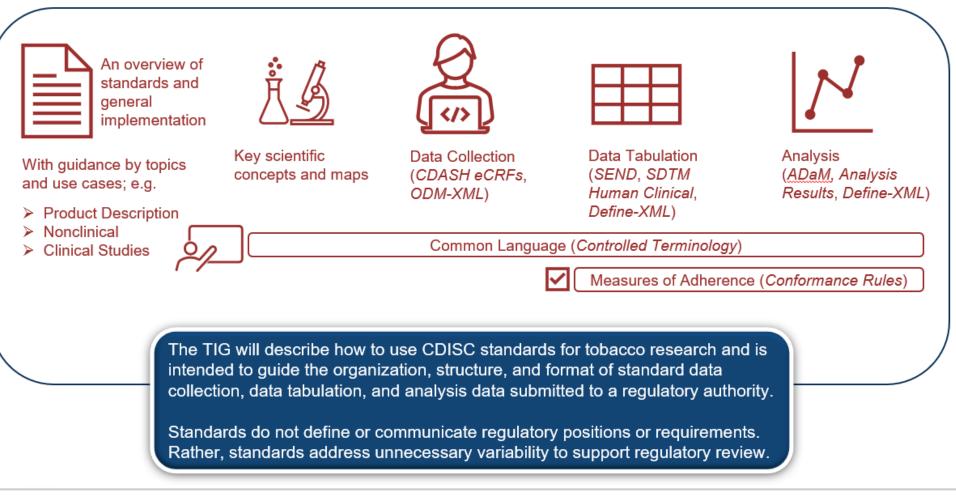
- Tobacco Implementation Guide (TIG):
 - Supports the CTP Data Standards Strategy 2021-2025 through provision of standards and terminologies to facilitate tobacco research, scientific review, harm reduction, and information exchange
 - Is a collaborative initiative with FDA-CTP, CDISC, and industry stakeholders
 - To develop non-proprietary, consensus-based, vendor-neutral, platform-independent submission data standards for studies of tobacco products
 - Will develop a set of standards, collectively referred to as TIG v1.0, to be freely available on the CDISC website with publication planned in 2023



TIG V1.0 ADDRESSES UNNECESSARY DATA VARIABILITY

FDA

DATA STANDARDS



Tobacco Implementation Guide (TIG) v1.0

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- Address concepts for tobacco studies and translates them into CDISC standards; both:
- Established CDISC standards

DATA STANDARDS

- New CDISC standards to fill gaps identified by FDA-CTP and Industry SMEs
- Standards you will see as part of this project include:

Clinical Data Acquisition Standards Harmonization (CDASH) ≻Consistent data collection	Study Data Tabulation Model (SDTM) ≻Organization and formatting of data		N	(ADaM) >Datasets and	Analysis Dataset Model (ADaM) >Datasets and metadata to support clinical trial statistical analyses		
	Terminology inology for use across	Conforma ≻Evaluation of					



DATA STANDARDS IN DEVELOPMENT

Product Description	 SDTM, ADaM, Analysis Results Standards (new), Controlled Terminology, Conformance Rules 	• Standards in development are aligned with hierarchy in <u>Technical Specification</u>
Nonclinical	 SEND, Controlled Terminology, Conformance Rules 	 <u>Document</u> Appendix A Standards are innovative with release to include first hybrid guide,
Clinical – Product Impact on Individual Health	 Biomedical Concepts, CDASH, SDTM (human clinical trials), ADaM, Analysis Results Standards (new), ODM-XML, Define-XML, Controlled Terminology, Conformance Rules 	biomedical concepts, Analysis Results Standards, SEND
Product Impact on Population Health	 New CDISC analysis standards (TBD), Controlled Terminology 	standards for in vitro studies, etc.

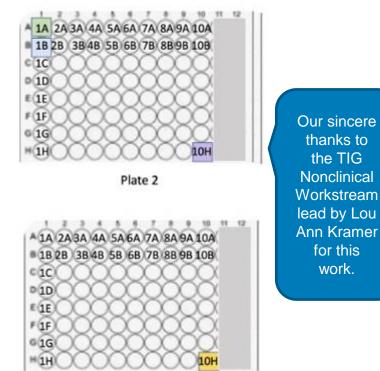
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FDA

NONCLINICAL IN VITRO STUDIES EXAMPLE Draft

- Neutral Red Uptake Assay for Mainstream Tobacco Smoke:
 - The neutral red uptake assay provides a quantitative estimation of the number of viable cells in a culture.
 - It is one of the most used cytotoxicity tests with many biomedical and environmental applications. It is based on the ability of viable cells to incorporate and bind the supravital dye neutral red in the lysosomes. Plate 1

STUDYID	ASSAYID	DOMAIN	TXCD	GTSEQ	GTTESTCD	GTTEST	GTORRES	GTORRESU	GTSTRESC	GTSTRESN	GTSTRESU
123	NRU	GT	1-1-A	1	RELABS	Relative Absorbance Reading	100	ug/ml	100	100	ug/ml
123	NRU	GT	1-1-B	1	RELABS	Relative Absorbance Reading	107	ug/ml	100	100	ug/ml
123	NRU	GT	1-1-C	1	RELABS	Relative Absorbance Reading	98.6	ug/ml	100	100	ug/ml
123	NRU	GT	1-10- H	1	RELABS	Relative Absorbance Reading	0.791	ug/ml	0.791	0.791	ug/ml
123	NRU	GT	2-10- H	1	RELABS	Relative Absorbance Reading	0.780	ug/ml	0.780	0.780	ug/ml
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the TIG

for this

work.

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HOW YOU CAN BE INVOLVED

- We invite you to contribute to development of TIG standards.
 - Become a Tobacco Implementation Guide (TIG) volunteer
 - www.cdisc.org/volunteer
 - Click link to Become a Volunteer
 - Time commitment is generally a one-hour weekly meeting
 - It is never too late to volunteer.
 - Review draft standards as they are released
 - Please reach out with any questions or support you may need.
 - Christine Connolly, CDISC Project Manager: cconnolly@cdisc.org





THANK YOU

• We welcome your questions and feedback!

