



CDISC Communications

- Business Case (Stage V)
- YouTube Videos (e.g. SHARE)
- · Press Releases and Announcements
- eNewsletter-New Format!

Website Upgrade (www.cdisc.org) CDISC 2013 Annual Report **Published in May**







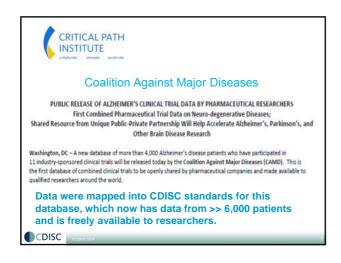


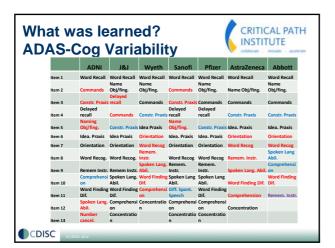


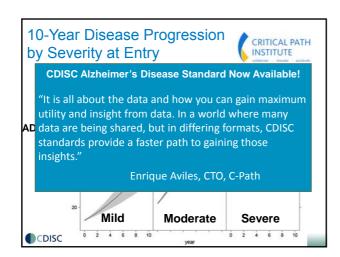
CDISC Strategic Goals 2013-2015

- · Refine, support and provide education on existing foundational CDISC standards
- Expedite development and rollout of new therapeutic area standards
- · Achieve significant progress in enabling interoperability between clinical research and healthcare

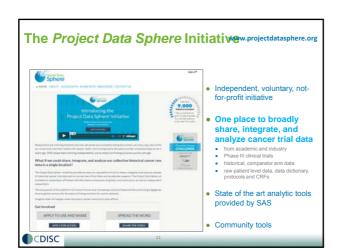
 Develop CDISC SHARE
- Forge productive global collaborations

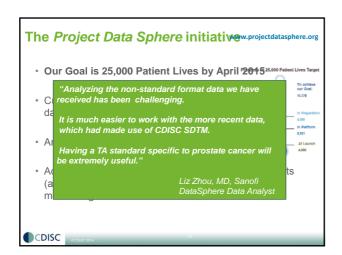


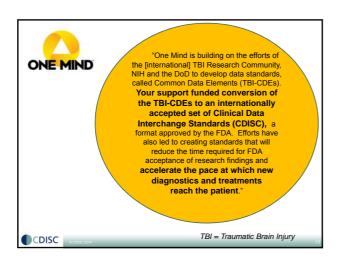


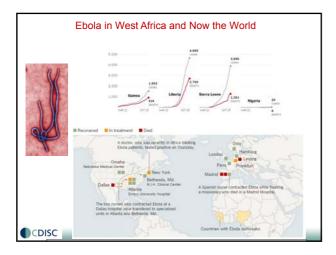












 The Oxford University Clinical Research Unit (OUCRU) is a large-scale clinical and public health research unit based in Viet Nam. (Funded through the Wellcome Trust...)

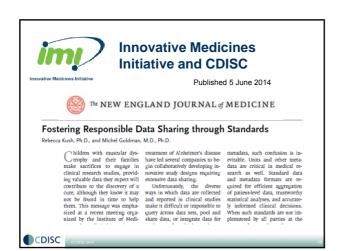
"We work with organizations and consortia around the world and need to share data. We have to believe that CDISC is the language for that." Laura Merson, Clinical Trialist, OUCRU

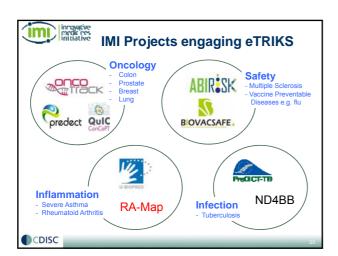
 $\underline{\text{https://ebolaclinicaltrials.tghn.org/data-management/}} \ \textbf{cites CDISC}.$

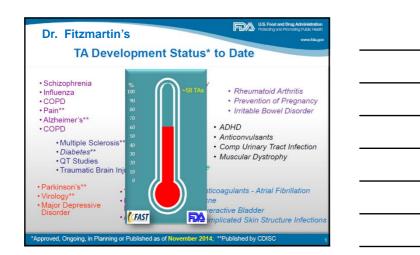












A Changing Landscape in Japan PMDA conducting pilots with CDISC standards and writing Guidance requiring CDISC standards for submissions by 2016 (while encouraging the use of CDASH for data collection). CDISC authorized Education increasing in Japan.... now with Japanese instructors authorized by CDISC. (CDISC CDISC FDA & PMDA are now CDISC Platinum Members. Danone is joining this month (and working on nutrition standard). We welcomed Our 350th **Organizational Member in September:** Hitachi Inspharma Ltd. ● CDISC **Update on the Center of Drug Evaluations** (CDE), China FDA (CFDA) and CDISC (C3C) • 2012 -mid-2013 China CDISC Coordinating Committee 3C - CSTAR) validated translations of CDISC standards into Chinese and launched Traditional Chinese Medicine (TCM) Team June 2013 - Established China Clinical Trial Data Standards **Steering Committee** (临床试验数据标准化工作指导组)

Co-led by C3C Chair with CFDA

Standards

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July and August: Issued <u>China Clinical Data Plan (CCDP)</u>
 and formed several working groups (<u>CTDS-WG</u>) around the CDISC

September through 2014: Pilot project (CDISC standards in Chinese)
 Many thanks to Zibao Zhang, leader of C3C, and to the C3C teams.



The Research Landscape: Data Sharing



complied with their data sharing policy

Of 53 landmark basic science

studies in oncology, Amgen could only reproduce results

Institute of Medicine (IOM): Committee to Report on Sharing of Data for Clinical Trials **New England Journal of Medicine**

U.S. National Academies of Science

- (NEJM): Series of Articles on Data Sharing
- Only ~ 45% of researchers · Data transparency, liquidity, share their data; 143 of 351 randomly selected papers
 - liberation
 Data privacy, security, confidentiality
 - Meta-analysis, data pooling and mining, clean vs. 'scruffy data,
 - 'rogue data' Incentives/disincentives, especially for researchers

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Data Sharing – Recent Attention

- In late 2012, EU informed European Medicines Agency: "Clinical trial data is not commercial confidential information."
- Recent series of New England Journal of Medicine Articles on Data Sharing
 - Nisen and Rockhold (GSK) "Access to Patient Level Data from GSK Clinical Trials"
 - Eichler, Petavy, Pignatti, Rasi (EMA) "Access to Patient Level Trial Data---A Boon to Drug Developers'
 - Mello et al (Harvard) "Preparing for Responsible Sharing of Clinical Trial Data"
 - Zarin (NLM) "Participant-Level Data and the New Frontier in Trial Transparency"

The Research Landscape: Data Sharing

 European Medicines Agency informed by EU Committee: "Clinical trial data is not commercial confidential information."

"Data are like children; you like your own best and you don't like strangers to play with them." Hans Joerg Eichler, EMA

What about Data Standards? Formats?

- How are the data to be shared?
- Can the data be readily aggregated, analyzed and compared?

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"Data are More Meaningful when SHARE'd... With Standards!"

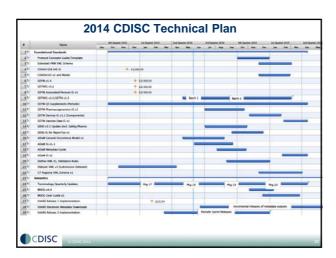


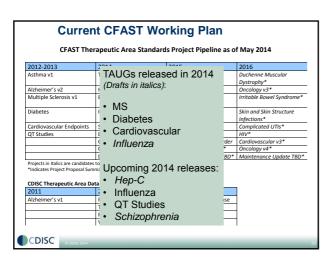
We owe it to the patients who participate in research studies to use their data and to use it wisely.

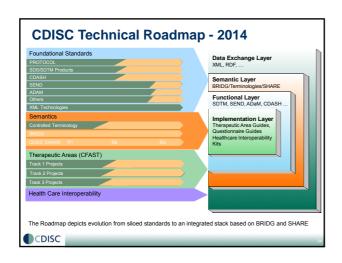
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Progress Update — Foundational Stds Foundational Products Released in 2014: Dataset-XML v1 Final SDTMIG 3.3 Batch 1 (7 draft domains) SDTMIG 3.3 Batch 2 (Milestones, 2 Domains) Pharmacogenomics SDTMIG v1 Draft SDM: ADaM Occurrence Data Structure v1 Draft ADaM Occurrence Data Structure v1 Draft ADaM Results Metadata Spec for Define-XML Periodic Terminology and COA Packages Updated COP and Process Docs Upcoming New Drafts for Comment: ADaM Data Structure for Integration (ADSL) RDF User Guide (PhUSE) Gloss CDASH Model Define-XML IG & Validation Rules BRIDG CDISC









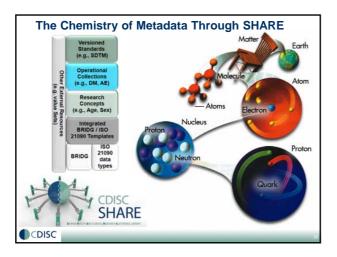
Shared Health and Research Electronic Library (SHARE)

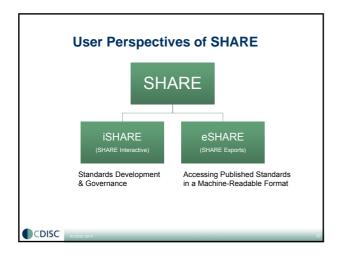
A global electronic repository for developing, integrating and accessing CDISC standards metadata in electronic format.

SHARE should dramatically improve the quality, reusability and integration across CDISC standards and controlled terminologies, and improve interoperability with healthcare.

SHARE is a requirement for standards-based automation, which is key to ROI from standards implementation

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SHARE R1: Initial Capability

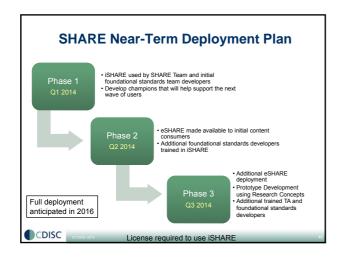
- · First version of iSHARE
 - Implemented using SOA's Semantics Manager
 - Meta-model based on ISO11179, BRIDG and ISO21090/HL7 Datatypes
 - Cloud-based hosted at Amazon
 - Exploring out-of-the-box functionality to develop, maintain and access CDISC standards.
- · Load of Initial set of CDISC standards into SHARE
 - SDTM 1.2 (SDTMIG 3.1.2)
 - CDASH 1.1
 - BRIDG 3.2 and ISO21090
 - All CDISC Terminologies
 - New versions (e.g. SDTMIG 3.1.3, 3.2) now being added.

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R1: Machine-Readable Standards and Basic Functions

- Export machine-readable standards
 - ODM v1.3.2
 - Define-XML v1.0 & v2.0
 - CSV / Tab delimited / Excel
- Version control & impact analysis
- Workflows (e.g. new requests, metadata governance)
- · Reporting (e.g. governance metrics)



eSHARE: Accessing SHARE Content

- Website for easy, one-stop download of SHARE machine-readable content
 - Metadata and Terminologies
- · Export formats include:
 - ODM v1.3.2
 - Define-XML v1.0 & v2.0
 - CSV / Tab delimited / Excel
 - RDF/OWL (R2)
- Website for easy download of SHARE machinereadable content
- Initial pilot rollout to Platinum members in Q2 2014.

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Agile Incremental Development Approach

- Each release will include incremental improvements in:
 - Expanded breadth of standards content
 - Standards quality & completeness
 - Relationships between metadata
 - Use of concepts to define standards and standards models
 - Ease of use refinements
 - New reports and metrics
 - Standards development and governance workflows
 - SHARE training and documentation
 - Reducing the reliance on spreadsheets and other document formats for standards development and governance
 - Efficiency in standards development and governance

R2: SHARE Concept-based Standards

- · Implementation of SHARE research concept model
 - Support for Therapeutic Area standards development
- Additional CDISC standards content (PRM, ADaM, SEND)
 - Single, trusted source for all CDISC data standards
- · Expanded eSHARE content download site
 - Value Level Metadata content
- Improved Controlled Terminology process integration
- RDF/OWL export format
- Future releases will include:
 - Improved end-to-end standards integration
 - IG standards document generation
 - Support for other concept systems and increased interoperability.

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SHARE as a Knowledge Resource for Research iSHARE SHARE eSHARE WS EC2 Cloud \$ SHARE Metadata Services Bus Batch Load SHARE API Export Open CDISC External Web Clients Terminologies External Repositories & Models Products **OCDISC**

Standards on Internet Time

- · Move from large pdf documents to electronic metadata packages assemblies of small component objects
 - Research concepts separated from implementation format Just-in-time modules: variables, domains, codelists, terms
 - Released for draft use individually when ready and later
 - packaged into versioned assemblies
 - · TAUGs create modules; teams publish versions
 - If later vetting requires changes SHARE can track and support up-versioning changes
 - All new v1 domains & variables include validation rules
 - Example data files for testing, packaged for publication
- · Requires an industry-wide, expert governance system
- · A culture of change that can keep pace with science

