Overview and feed-back from CDISC European Interchange 2008

(From April 21st to 25th, COPENHAGEN)

Groupe des Utilisateurs Francophones de CDISC Bagneux - June 20th, 2008

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- SDTM Training
- ADaM Training
- Messages from SDTM & ADaM training
- Legacy Data Conversion Workshop
- General comments from that Interchange
- Useful WEB links
- Conclusion



SDTM Training - Content of 2 full days (1/2)

- Review the mains terms used by CDISC, their definition and the differences between some of them (SDTM vs AdaM...)
- Annotate the blank CRF with SDTM variables
- How to choose the correct model
- How to create a new domain (finding, intervention or event)
- Create the defines for SDTM
 - list of variables
 - name of variables
 - no use of derived variables (they should be kept in ADS)



SDTM Training - Content of 2 full days (2/2)

- Format for Date/Time variables
- Create few SUPPQUAL
- Create some Trial design define (Subject level data, Subject Elements and Subject visits)
- Create tables for "relationships"



ADaM Training - Content of 1 full day

- Background and introduction of CDISC and Standards, CDISC and the FDA
- Purpose of ADaM
- Basic principles of ADaM
- ADaM rules and variables
- ADaM Metadata
- ADSL
- ADaM Implementation guide Draft



Messages from SDTM & ADaM training (1/7)

FDA according to CDISC presenter's experience

- FDA wants to be able to replicate what the sponsor did so that they can trust them
- First thing FDA statistician do
 - Recreate analyses datasets
- Some tools at FDA only use SDTM
 - Some derived variables are needed in SDTM as well
 - o ie "total score for a questionnaire"
- FDA does not employ programmers
 - Statistical and Medical reviewers need ADaM
- Traceability is of high importance
 - Traceability from p-value back to protocol
 - CDISC recommends to QC the transparency so that FDA understand easily what the sponsor did and how he did it
- Keep in touch with FDA reviewer
 - to understand what they want
 - So that they understand what you did



Messages from SDTM & ADaM training (2/7)

- Up to sponsor, but CDISC Recommendation
 - Use SDTM to build ADaM
- Separate submission of SDTM and ADaM
 - With corresponding define files
- No real recommendation from CDISC on derived variables to be in SDTM
 - "Include some derived as they seem natural to be in SDTM"



Messages from SDTM & ADaM training (3/7)

- Distinguish between what was observed and what was derived
- No imputation should be done in SDTM
 - If imputation needed, should be in ADaM
- Analysis Timing variables
 - Character variables (C) in SDTM
 - Numerical variables (N) in ADaM
 if lots of imputation in (N) variable, keep (C) in ADaM as well

CDISC suggestion to FDA:

Minimum mandatory submission should include SDTM and ADSL from ADaM (still in discussion with FDA)



Messages from SDTM & ADaM training (4/7)

- Specifications for organizing the datasets in eCTD
 - Contents of ECTD folders:
 - Folder Datasets/[study]/analysis => should contain analysis datasets and corresponding define files
 - Folder Datasets/[study]/tabulations => should contain data tabulation datasets, corresponding define files and blank annotated CRF
 - Annotated CRF recommended in data tabulation datasets folder with links in other directories (listing, analysis)
 - Recommendation is to not refer to annotated CRF in ADaM but to SDTM which themselves do refer to annotated CRF



Messages from SDTM & ADaM training (5/7)

- If submission of SDTM, submission of subject profiles might not be needed
 - Need agreement with FDA at pre-NDA meeting
- Permissible variables
 - if information collected in CRF, variables must be submitted in SDTM
- (U?)SUBJID:
 - Recommendation from CDISC is
 - The SUBJID uniquely identify each subject within a submission and ensure that the same person has the same number across studies
 - However, Not always possible
 - Enough information might not be allowed to be collected to ensure same numbering across studies within submission
- Information on randomization (IVRS)
 - Might be recorded in sub-qualifier DM
 - However never discussed in SDTM WG
- Trial design domain
 - Not required but recommended for clinical trials



Messages from SDTM & ADaM training (6/7)

- Pilot ADaM submission
 - Not always what you are supposed to do!
- "Role" column in define
 - Was present in ADaM 2.0
 - Not included anymore in 2.1 since variables may have different roles within analyses
- "Reviewer guide"
 - Optional document presenting key decisions
 - Should add additional information compared to SAP
 - Not a CDISC document, no template exists
 - FDA's feedback in ADaM pilot: Felt as very Helpful
- ADaM 2.1 version just released for public consultation/review by September 5, 2008



Messages from SDTM & ADaM training (7/7)

"one proc away" table

- Dose not mean only one SAS proc to produce a given table
 - A table containing mixed information (baseline, value at time X, change from baseline and Ismeans estimates) OK
 - as long as information to produce this table available somewhere
 - even if you need 4 proc to produce the table

Program codes

- "Ensure program codes are well commented, easy to follow and well formed"
 - I Provide code to help reviewer understand what you did (ie PROC MIXED with options)
 - FDA does not expect to run the code, just need to understand the options used



Legacy Data Conversion Workshop

- A ½ day workshop with 4 examples about the way to convert legacy data into SDTM data
- Very interesting workshop
 - Presentation of process to convert legacy data
 - Retrieve of all information needed
 - Harmonization of controlled terminology
 - CRF annotation
 - Mapping
 - I QC
 - Demo of SAS ETL STUDIO used to do the mapping
- Link to WEB site will be given later?



General comments from that Interchange (1/3)

- Gray zones in SDTM definition on derived variables
 - Part of SDTM? SUPPQUAL? ADaM?
- Different approaches/interpretations of SDTM IG / ADAM but All the presentations report the data flow SDTM -> ADS
- Very wide profiles of participants (50% DM)
- A lot of new standards are under definition at CDSIC level, for Data management mainly
- Operational Data Model (ODM) trends to be a standard way to store data from EDC?
- Trend to integrate all kind of data used in research into 1 standard (public health as well)



General comments from that Interchange (2/3)

Risks

- Not follow-up the discussions and orientations
- Not easy to understand all the initiatives: HL7, ODM etc
- Key words for 2008
 - TRANSPARENCY & INTEROPERABILITY
- Important focus on QC aspects, SDTM adherence checks
- Importance of metadata
- Ensure that FDA reviewers have complete & accurate information



General comments from that Interchange (3/3)

Training for all DM and PROG staff to SDTM is very important (could be organized internally)

Training for all STAT staff to AdAM is also recommended



Useful WEB links

On FDA websites:

- Checks performed by the FDA before any loading attempt in Data warehouse JANUS: http://www.fda.gov/oc/datacouncil/janus_sdtm_v alidation_specification_v1.pdf
- Study data specifications: http://www.fda.gov/cder/regulatory/ersr/studydat a.pdf

On CDISC website:

Presentations from Congress part:
http://www.cdisc.org/publications/interchange20
08.html



Very interesting congress & trainings

Recommended to EVERYBODY!

