Tables First
Tables are designed at the time of study and protocol development. The tables inform all aspects of database design and creation.

Tables inform analysis metadata
Table level metadata are used to populate clinical database development. The tables inform all aspects of database and display creation. The selections made within these libraries will not only inform the table, but also inform the ADaM metadata, the SDTM dataset metadata, the clinical datasets, and the CRF panels. Along with using independent standards, this is the source of most of the metadata used in a study.

Tables inform SDTM metadata
Analysis metadata, which contains table level metadata, are filtered through SDTM standard metadata libraries to pre-populate study level SDTM metadata.

Tables inform data collection
Table metadata are used to populate pre-populate clinical database metadata and CRF panels.

Summary
The FDA’s acceptance of CDISC's SDTM and ADaM models has contributed to the increased use of CDISC standards in clinical trials. The use of standards and metadata for analysis reporting lags behind that of database production. Extending the end to end concept to analysis reporting can not only facilitate display production, but can also improve efficiency throughout the life cycle of a clinical trial. A tables-first approach produces more targeted CRF design and data collection; more efficient database and display creation; and improved quality based on the elimination of redundant processes.

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