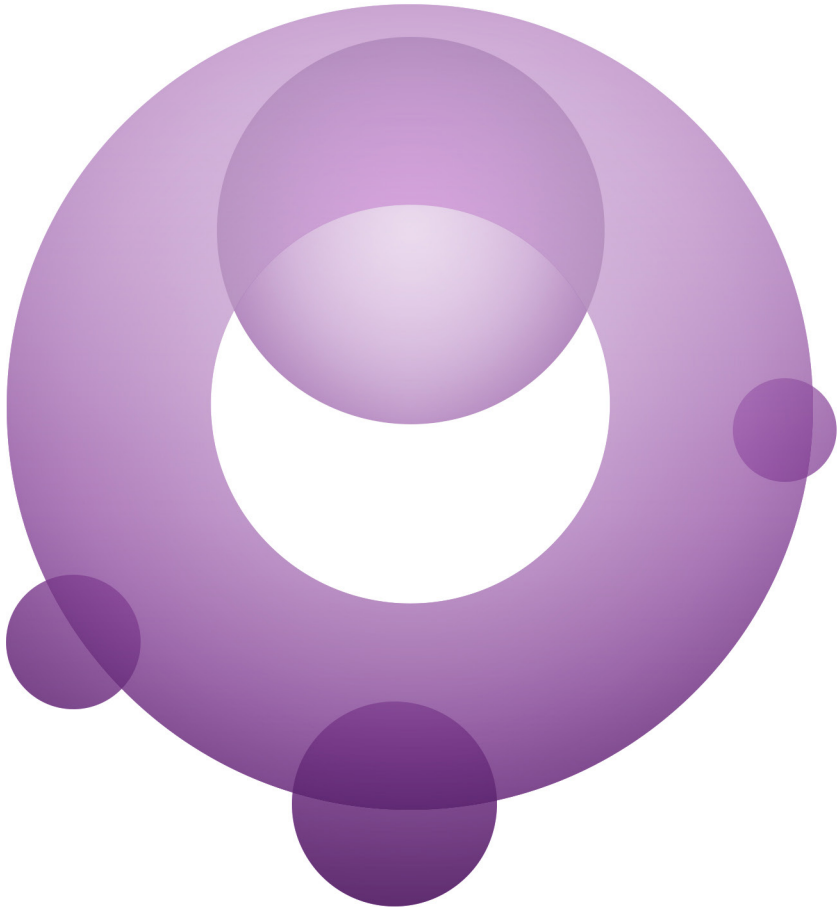


# Data Programming

## The Power of Compiling



# Data Programming

Pharmetheus' specialized data programming team can help you create analysis ready data sets (e.g., for pharmacometric analyses or NCA) to get it right from the start and to save time when handling one of your most valuable assets. We offer a range of services tailored to your needs including:

- Support with conversion of most data file formats, typically CDISC standard (SDTM, ADaM), Raw, CSV etc.
- Support with advanced data sets that are to be used in for example repeated time-to-event modeling, IRT analyses or joint modelling of multiple responses such as PKPD with dropout.

The data programming at Pharmetheus is performed in close connection to a MIDD consultant with expertise in complex types of analyses and data file specifications. Our experience and knowledge guarantee a thorough understanding of your needs and make us a highly capable partner. As for all Pharmetheus' services, the data programming

is performed with reproducible techniques using LaTeX and knitR.

Pharmetheus' reproducible environment enables:

- The transformation of data files to be tracked and performed in a highly reproducible manner.
- Creation of the data programming report, i.e., a submission ready document which captures the entire data programming process, from source data to an analysis ready data set.
- Immediate updates of analysis data sets and data programming reports in case of changes (even late changes) in source data.
- Almost instant turn-around after database release by preparation of data programming on dummy data or early unblinded data.

We have a longstanding collaboration with an external QC company for quality control of our data programming. This ensures an independent non-biased check of the correctness of analysis data versus source data.

*Thanks to the parallel QC and highly standardized reproducible methods, our data programming is cost efficient, fast, and reliable.*

