

EMIF Deliverable 1.2: Private Remote Research database environment with pooled data from research cohorts

Executive summary

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In order to perform analyses across the cohorts available in EMIF-AD we need to pool these cohorts. In this report, we describe the technical solution for pooling of data across cohorts for a selected number of variables.

Specific obtained results:

- 4 AD cohorts were used and a list of priority variables was defined to pool data in TranSMART.
- Webprotégé was used to harmonize data of the selected variables and served as a communication tool between the EMIF-AD and EMIF-platform teams. Via this tool it could be defined how the selected variables map to measurements in the local data sources.
- The pooled data in TranSMART is available as a virtual cohort, which means that data of a cohort only needs to be uploaded once.
- All data analysis functionalities in TranSMART can be used to analyse a pooled dataset. Thus, possibilities for cross trial analyses are the same as those for single cohort analyses.
- Future challenges include pooling data of high dimensional data and optimizing the security framework of TranSMART so that also partial data access to cross trial data is possible.
- Next steps include the further development of the knowledge object library as
 a sustainable solution for data harmonisation and the upload of new cohorts for
 data pooling in TranSMART (e.g. for the WP3 1000 subjects study)

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