## Reporting checklist for the evaluation of imputation methodology □ Aims e.g. simulation scope □ simulation design (incl. pseudo-code or flow diagram) □ required level of precision (incl. number of simulation repetitions) □ Data-generating mechanisms e.g. data generation and missingness generation □ data source (incl. model-based or design-based, sampling variance) □ data characteristics (incl. multivariate relations and data structures such as clustering) □ missingness mechanisms (incl. type or functional form of the missing data model) □ missingness patterns (incl. missingness proportion) □ Estimands e.g. complete data target □ Methods e.g. missing data methods and analytic method □ imputation methods (incl. parameters such as the number of imputations) □ estimation method (incl. reference methods such as complete case analysis) **□** Performance measures e.g. evaluation of estimates and imputed values

□ statistical properties (incl. comparative performance, if applicable)

□ validity of imputations (incl. imputation model fit and distributional characteristics)