Exclusion Chart

Computational Step	MetaPipeX Function	Computations	Exclusions

1

Variable Selection,
Data Cleaning

variables, participants & replications
as preregistered

2

Aggregate Dependent Variable

participants & replications as preregistered;
computationally dysfunctional cases
(e.g., rowSums(, na.rm = TRUE))

3

Aggregate to Replication,
Compute Effect Sizes

create_replication_summaries

Effect Size Statistics

mean()

sd()

metafor::escalc(measure = "MD")$yi

pooled_SD_fct()

metafor::escalc(measure = "MD")$yi

Standard Error

SE_of_mean_fct()

SE_SD_fct()

metafor::escalc(measure = "MD",...)$vi

SE_pooled_SD_fct()

metafor::escalc(measure = "SMD",...)$vi

Any row in the data with

DV = NA

and/or

Group = NA

4

Combine into single Data Set

merge_replication_summaries

full_pipeline

5

Run Meta-Analyses

meta_analyses

Meta Analyses

metafor::rma.mv(random = ~ 1 | Replication,...)

replications including at least
one group with n =< 1
(resulting in a missing MD or missing SE)

6

Combine Replication- & Meta-Level Data