New in

META-ANALYSIS

Stata’s new suite of commands for meta-analysis is broad, yet easy to use.

- Effect sizes: Hedges’ $g$, Cohen’s $d$, odds ratios, risk ratios, and more
- Common-effect, fixed-effects, and random-effects models
- Forest, funnel, bubble, and more plots
- Subgroup analysis
- Meta-regression
- Tests of small-study effects
- Trim-and-fill analysis of publication bias
- Cumulative meta-analysis
- More

Prepare your data

Continuous summary data
Compute Hedges’ $g$ effect sizes (default)
.meta esize n1 m1 sd1 n2 m2 sd2
Compute Cohen’s $d$ effect sizes
.meta esize n1 m1 sd1 n2 m2 sd2, esize(cohend)

Binary summary data
Compute log odds-ratios (default)
.meta esize n11 n12 n21 n22
Compute log risk-ratios
.meta esize n11 n12 n21 n22, esize(lnrratio)

Generic effect sizes
Specify precomputed effect sizes and their SEs
(and label effect sizes)
.meta set es se, esize(Log hazard-ratio)
Or specify effect sizes and their CIs
(and label studies)
.meta set cil ciu, studylabel(studylbl)

Summarize meta-analysis data
Compute basic summaries and display in a table
.meta summarize
Or produce a forest plot
.meta forestplot

Explore heterogeneity
Perform subgroup analysis for levels of group
.meta forestplot, subgroup(group)
Perform meta-regression and also account for continuous $x$
.meta regress i.group $x$
Explore small-study effects

- Produce a funnel plot
  - `. meta funnelplot`

- Produce a funnel plot by group
  - `. meta funnelplot, subgroup(group)`

Perform Egger test for funnel-plot asymmetry

- `. meta bias, egger`

Adjust for heterogeneity due to group during testing

- `. meta bias i.group, egger`

Assess publication bias

Assess publication bias using the trim-and-fill method; produce contour-enhanced funnel plot including omitted studies

- `. meta trimfill, funnel(contours(1 5 10))`

Use commands or GUI

- `. meta summarize`
- `. meta forestplot, subgroup(week1)`
- `. meta funnelplot, subgroup(week1)`
- `. meta funnelplot, subgroup(week1)`
- `. meta bias, egger`
- `. meta bias i.group, egger`