New in Stata 16

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)

Specify precomputed effect sizes and their SEs (and label effect sizes)
. meta set es se, esize(Log hazard-ratio)

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
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

- Assess publication bias using the trim-and-fill method; produce contour-enhanced funnel plot including omitted studies.
  - .meta trimfill, funnel(contours(1 5 10))

- Produce a funnel plot by subgroup.
  - .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

Use commands or GUI

stata.com/meta16

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