

Supplementary material: Meta-Regression with Categorical Moderators and Dependent Effect Sizes: A Simulation Study

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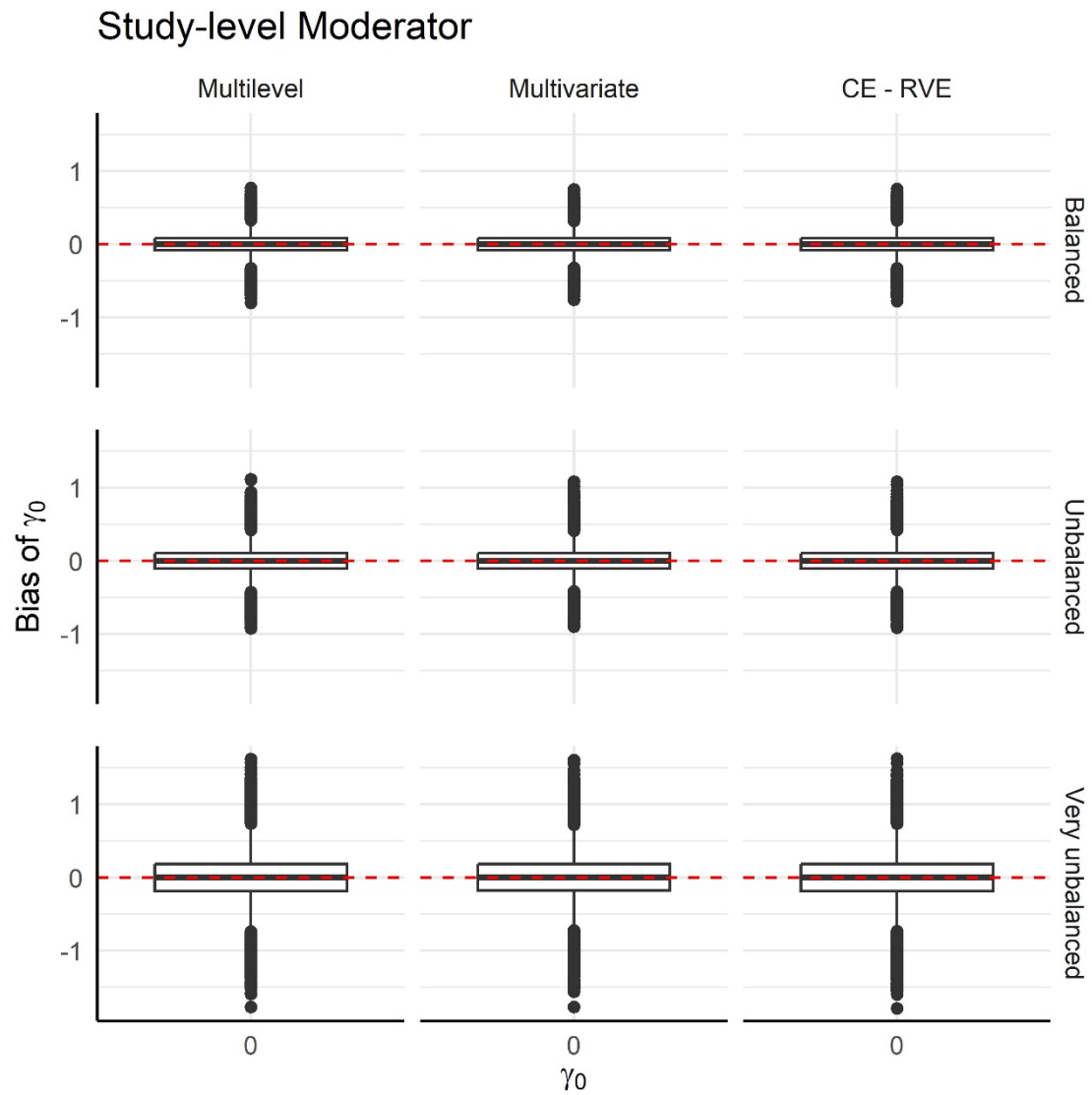
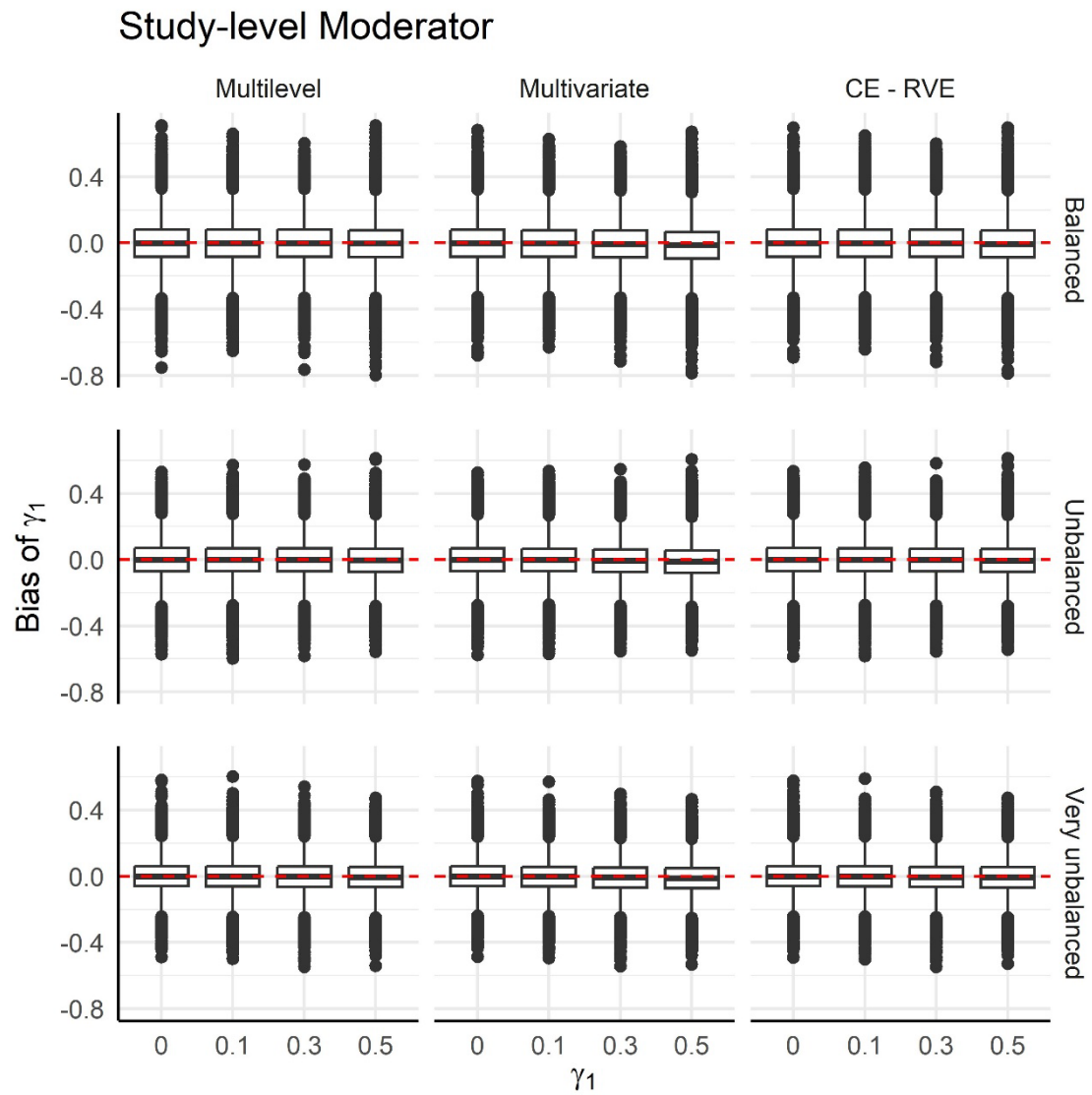
Figure S1.*Bias of γ_0 when the moderator effect was at study-level**Notes.* CE - RVE = correlated-effects model with robust variance estimation method.

Figure S2.*Bias of γ_1 when the moderator effect was at study-level*

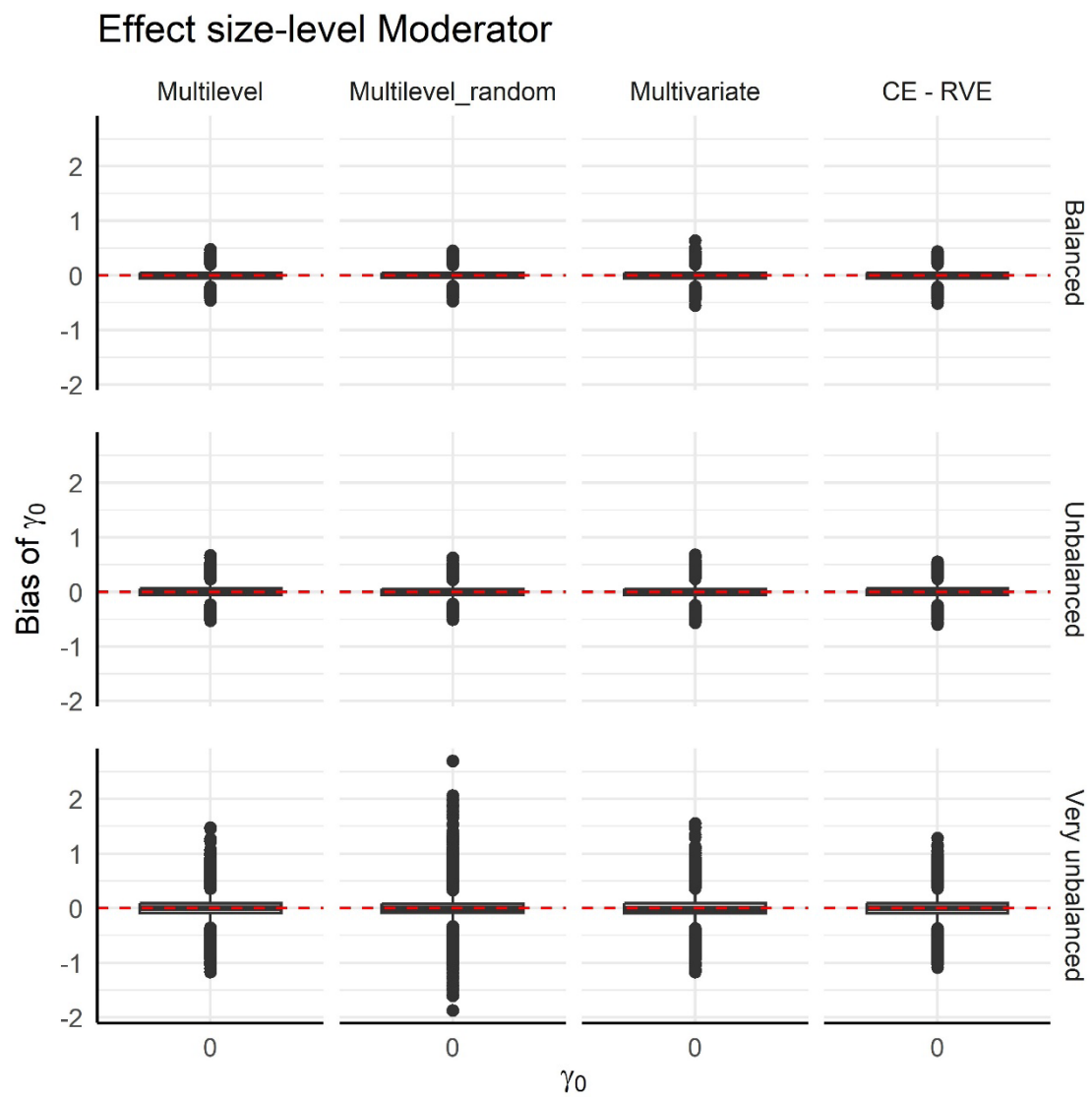
Notes. CE - RVE = correlated-effects model with robust variance estimation method.

Table S1.*Mean Squared Error by relevant conditions.*

	Study-level moderator		Effect size-level moderator	
	γ_0	γ_1	γ_0	γ_1
Studies				
$k = 20$	.062	.018	.018	.008
$k = 40$	.031	.009	.009	.004
Between studies variance				
0.10	.027	.008	.008	.004
0.30	.065	.019	.018	.008
Unbalanced degree				
Balanced	.018	.018	.007	.007
Unbalanced	.030	.013	.009	.006
Very unbalanced	.090	.010	.024	.005

Figure S3

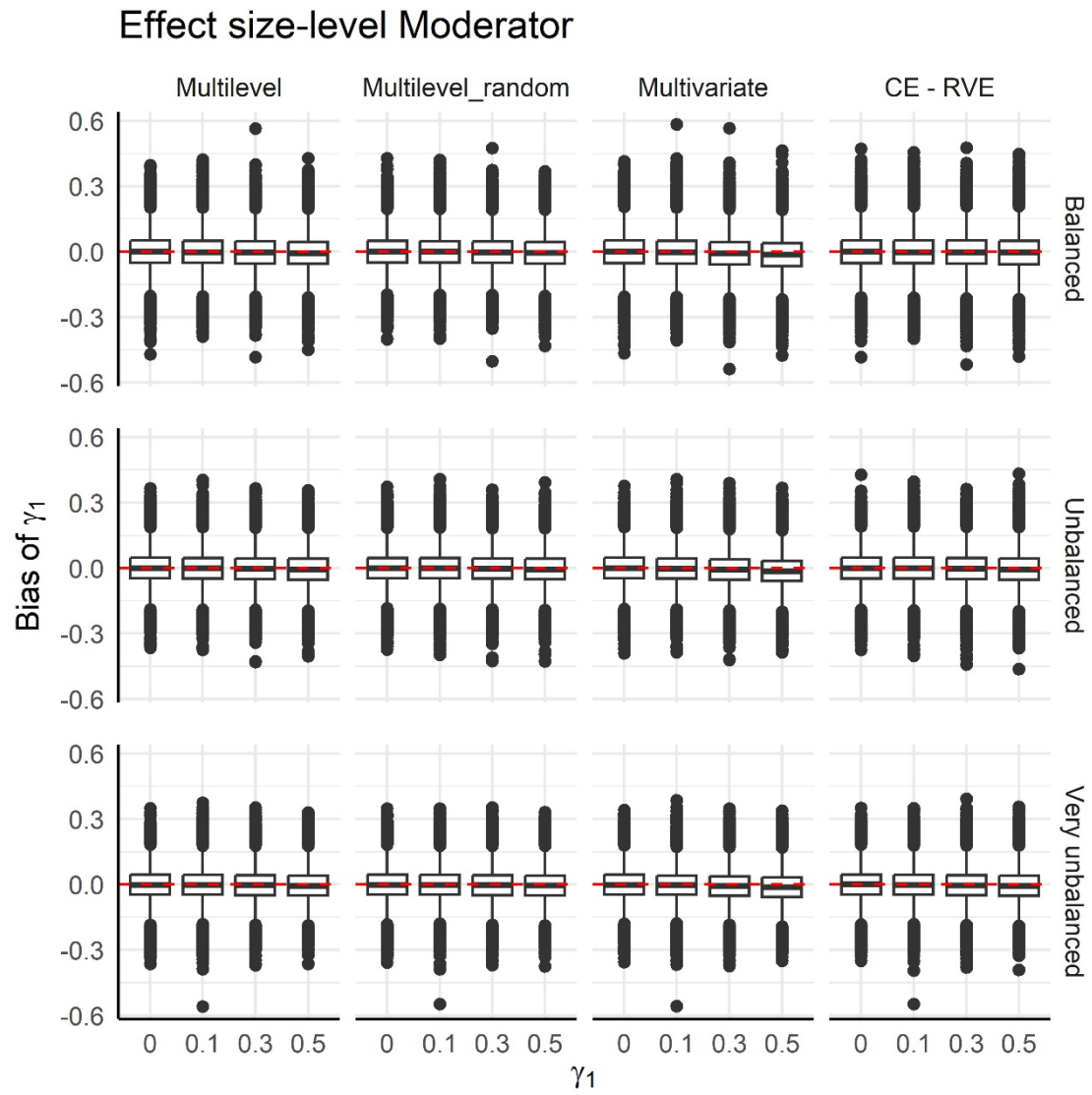
Bias of γ_0 when the moderator effect was at effect size-level



Notes. CE - RVE = correlated-effects model with robust variance estimation method.

Figure S4

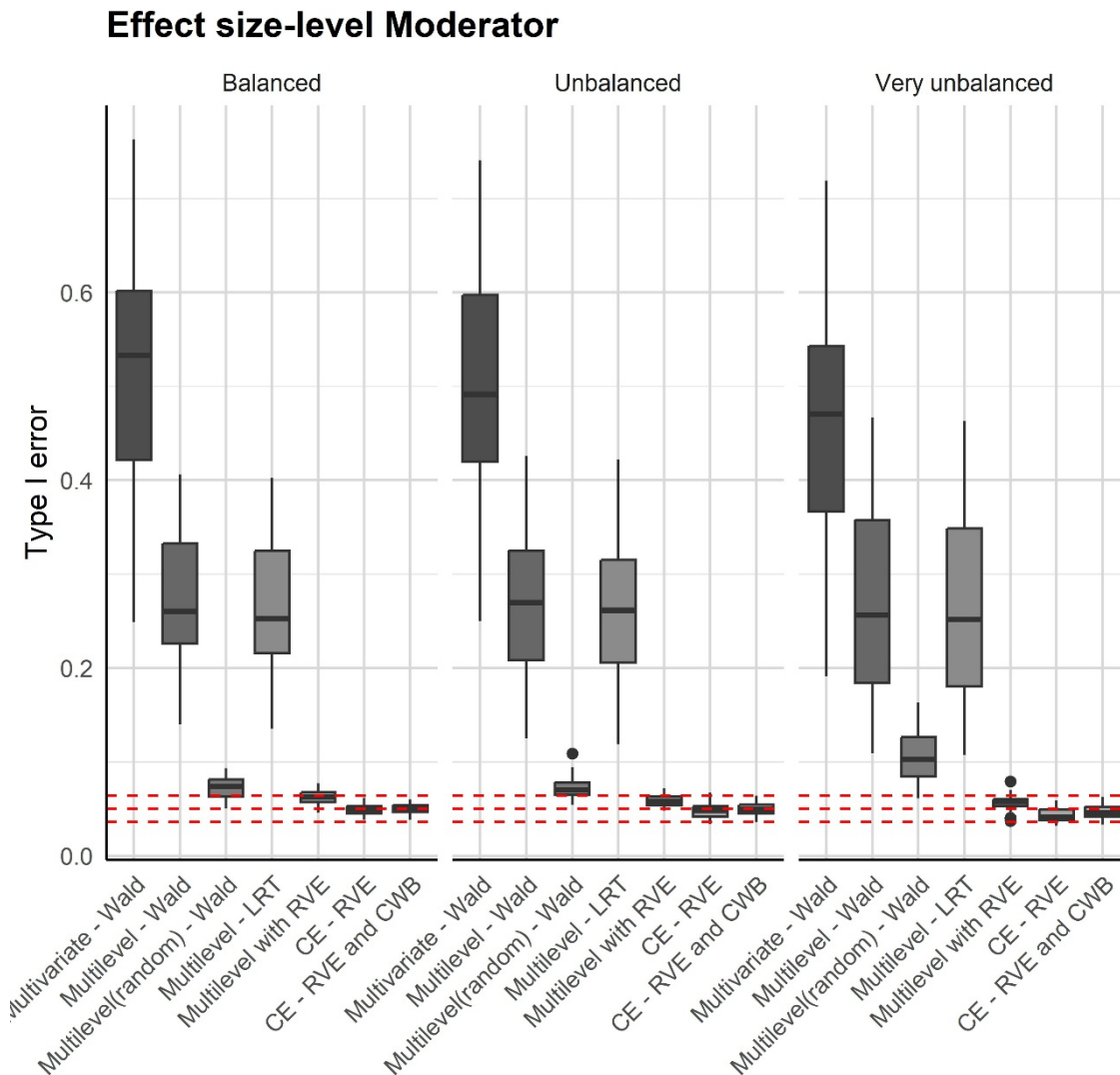
Bias of γ_1 when the moderator effect was at effect size-level



Notes. CE - RVE = correlated-effects model with robust variance estimation method.

Figure S5.

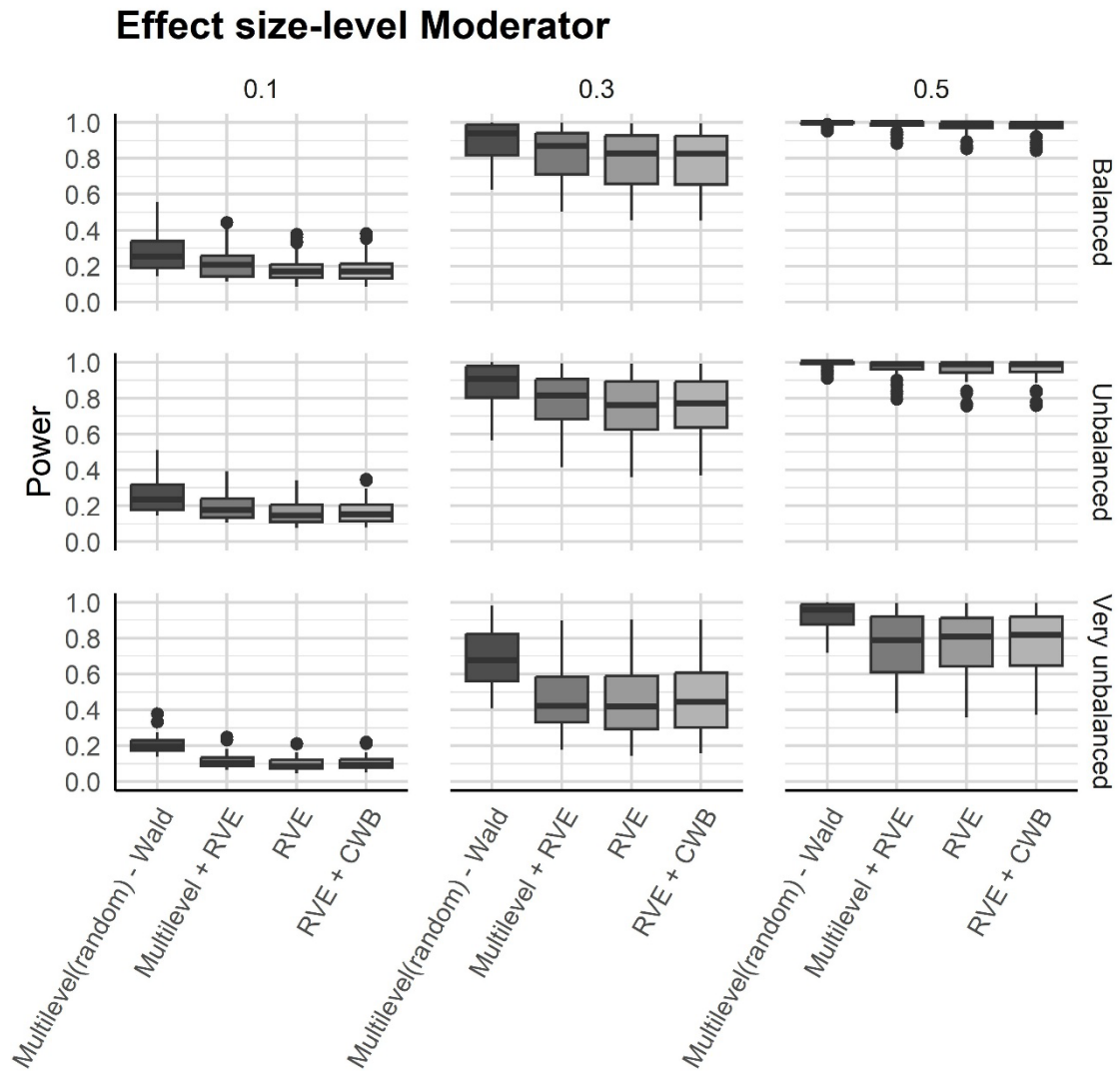
Type I error distribution across methods, disaggregated by the degree of imbalance in the distribution of effect sizes across the moderator categories



Notes. CE = correlated-effects model; RVE = Robust variance estimation method; CWB = Cluster wild bootstrapping.

Figure S6.

Power distribution across methods, disaggregated by the degree of imbalance in the distribution of effect sizes across the moderator categories



Notes. CE = correlated-effects model; RVE = Robust variance estimation method; CWB = Cluster wild bootstrapping.