

Sensitivity Analysis

From the sensitivity analysis, we determined that main conclusions did not change depending on whether one included or excluded outlying/influential cases. All effect size estimates were, for the most part, within a few hundredths of one another, and confidence intervals around all estimates overlap when comparing estimations with and without influential cases. The only exception was for fixed effects with the Trim and Fill analysis for within-subjects designs. However, as noted in the manuscript, this method has been previously criticized, and thus, more weight was placed on the PET-PEESE analysis. Publication bias testing remained the same across the inclusion/exclusion of outlying/influential cases. One notable change across these two columns was that heterogeneity (I^2) was decreased when outlying/influential cases were removed, implying better model fit. As noted in the manuscript, since many bias-correcting techniques require heterogeneity to be at moderate levels ($I^2 < 50\%$), the decision was chosen to exclude outlying/influential cases for two reasons: 1) this exclusion allowed us to reduce heterogeneity to an acceptable level to conduct various bias-correcting techniques 2) This was done with increased confidence provided that results and main conclusions did not change whether outlying/influential cases were included or not. Appendix A indicates overall model sensitivity results, while Appendix B and C show separate between-subjects and within-subjects designs.

Appendix A. All Studies

- Including Outliers/Influential Cases
 - Fixed Effects: .12 [.11, .14]
 - Random Effects: .13 [.11, .16]
 - I^2 : 65.2% [56.6, 72.1]
 - $Q(89) = 255.84, p < .001$
 - Trim/Fill
 - Fixed Effects: .07 [.06, .09]
 - Random Effects .08 [.05, .10]
 - PET-PEESE
 - Intercept: $b = 0.30$, $SE = 0.04$, $t = 7.95$, $p < .001$
 - Var of Z: $b = 5.32$, $SE = 2.58$, $t = 2.06$, $p = .04$
 - Estimate: .08 [.05, .13]

- Excluding Outliers/Influential Cases
 - Fixed Effects: .11 [.10, .12]
 - Random Effects: .12 [.10, .14]
 - I^2 : 50.9% [37.1, 61.6]
 - $Q(86) = 175.04, p < .001$
 - Trim/Fill
 - Fixed Effects: .07 [.06, .09]
 - Random Effects .08 [.06, .10]
 - PET-PEESE
 - Intercept: $b = 0.28$, $SE = 0.03$, $t = 8.76$, $p < .001$
 - Var of Z: $b = 5.60$, $SE = 2.14$, $t = 2.62$, $p = .01$
 - Estimate: .07 [.04, .11]

Appendix B. Between-Subjects

- Including Outliers/Influential Cases
 - Fixed Effects: .09 [.08, .11]
 - Random Effects: .10 [.07, .12]
 - R^2 : 54.2% [36.8, 66.9]
 - $Q(48) = 104.90, p < .001$
 - Trim/Fill
 - Fixed Effects: .07 [.06, .08]
 - Random Effects .07 [.05, .10]
 - PET-PEESE
 - Intercept: $b = 0.26$, $SE = 0.05$, $t = 5.68$, $p < .001$
 - Var of Z: $b = 5.65$, $SE = 4.00$, $t = 1.41$, $p = .17$
 - Estimate: .06 [.03, .11]

- Excluding Outliers/Influential Cases
 - Fixed Effects: .09 [.06, .11]
 - Random Effects: .09 [.07, .11]
 - R^2 : 37.5% [11.2, 56.1]
 - $Q(47) = 75.25, p = .01$
 - Trim/Fill
 - Fixed Effects: .07 [.06, .08]
 - Random Effects: .07 [.05, .09]
 - PET-PEESE
 - Intercept: $b = 0.25$, $SE = 0.04$, $t = 6.44$, $p < .001$
 - Var of Z: $b = 5.44$, $SE = 3.40$, $t = 1.60$, $p = .12$
 - Estimate: .06 [.03, .10]

Appendix C. Within-Subjects

- Including Outliers/Influential Cases
 - Fixed Effects: .20 [.17, .23]
 - Random Effects: .19 [.15, .24]
 - R^2 : 62.8% [47.9, 73.4]
 - $Q(40) = 107.41, p < .001$
 - Trim/Fill
 - Fixed Effects: .27 [.25, .30]
 - Random Effects .27 [.21, .32]
 - PET-PEESE
 - Intercept: $b = 0.53$, $SE = 0.08$, $t = 7.06$, $p < .001$
 - Var of Z: $b = -2.98$, $SE = 3.79$, $t = -0.79$, $p = .44$
 - Estimate: .24 [.13, .35]

- Excluding Outliers/Influential Cases
 - Fixed Effects: .17 [.15, .20]
 - Random Effects: .17 [.14, .21]
 - R^2 : 45.5% [20.4, 62.6]
 - $Q(38) = 69.67, p < .01$
 - Trim/Fill
 - Fixed Effects: .18 [.15, .21]
 - Random Effects: .18 [.14, .22]
 - PET-PEESE
 - Intercept: $b = 0.46$, $SE = 0.07$, $t = 7.00$, $p < .001$
 - Var of Z: $b = -0.65$, $SE = 3.40$, $t = -0.204$, $p = .84$
 - Estimate: .18 [.10, .28]