

Supplementary Appendix A: Minimum number of studies for p-curve and p-uniform

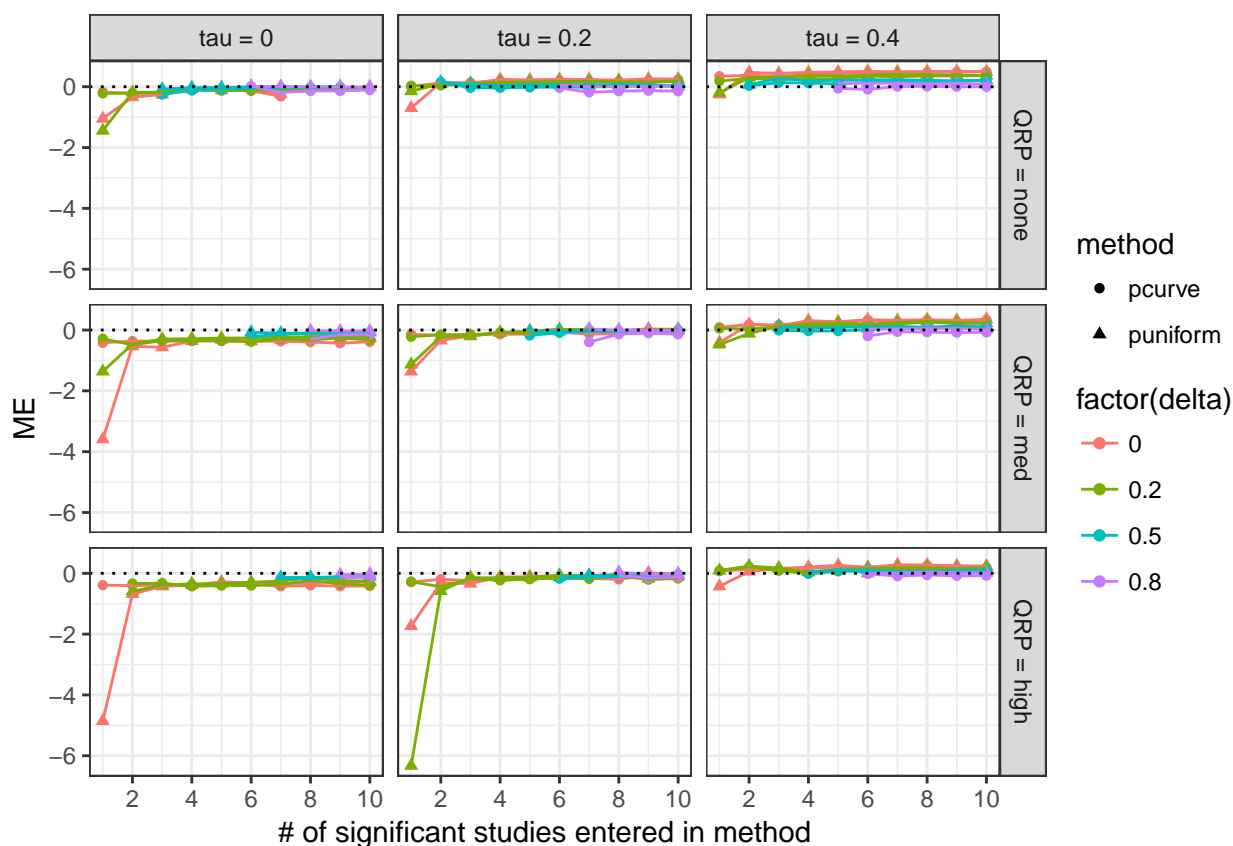
Felix Schönbrodt

2016-11-21

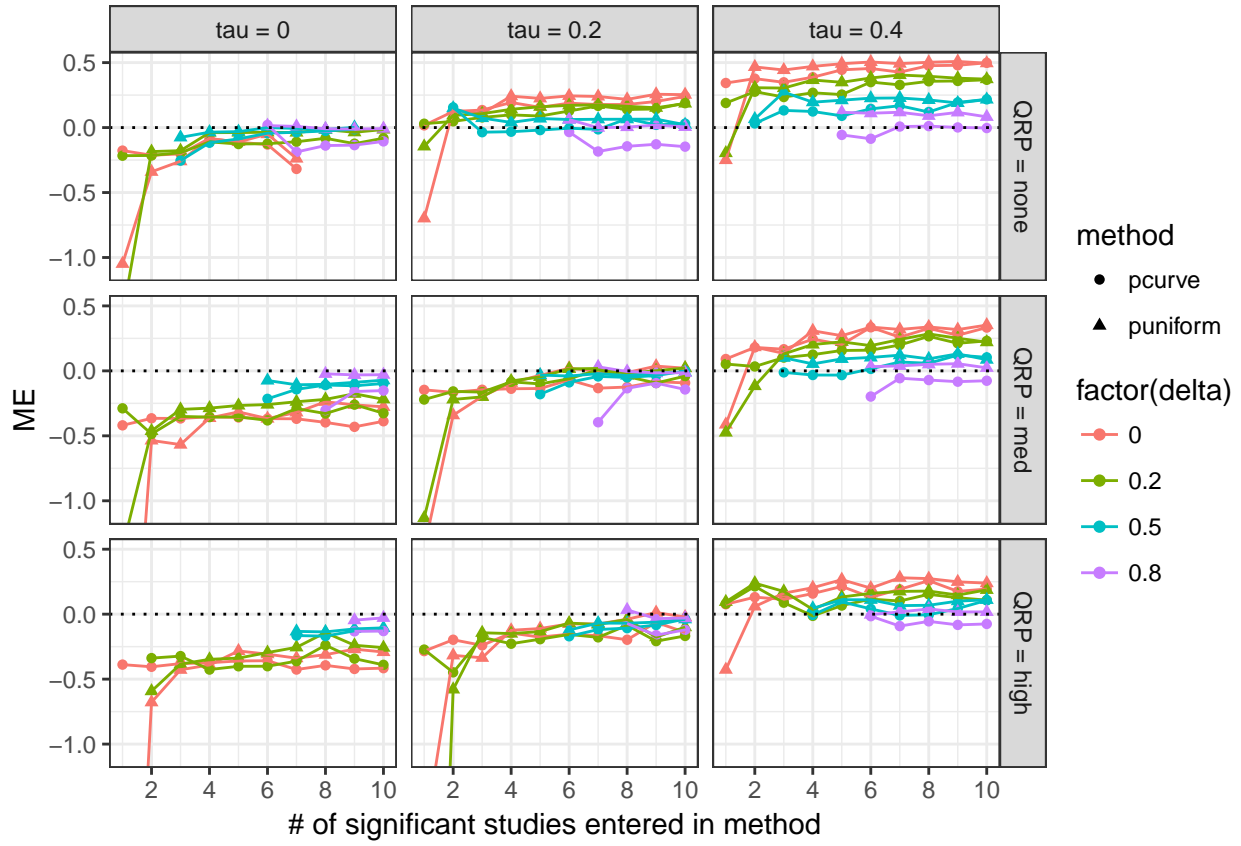
Method

Effect size estimates and p-values from p-curve and p-uniform were grouped by the number of significant studies that were entered into the methods. Only groups with more than 10 simulated meta-analyses were used for the plots. Furthermore, we only looked at the conditions without publication bias (because conditions with 60% or 95% publication bias rarely had less than 10 significant studies in each meta-analysis).

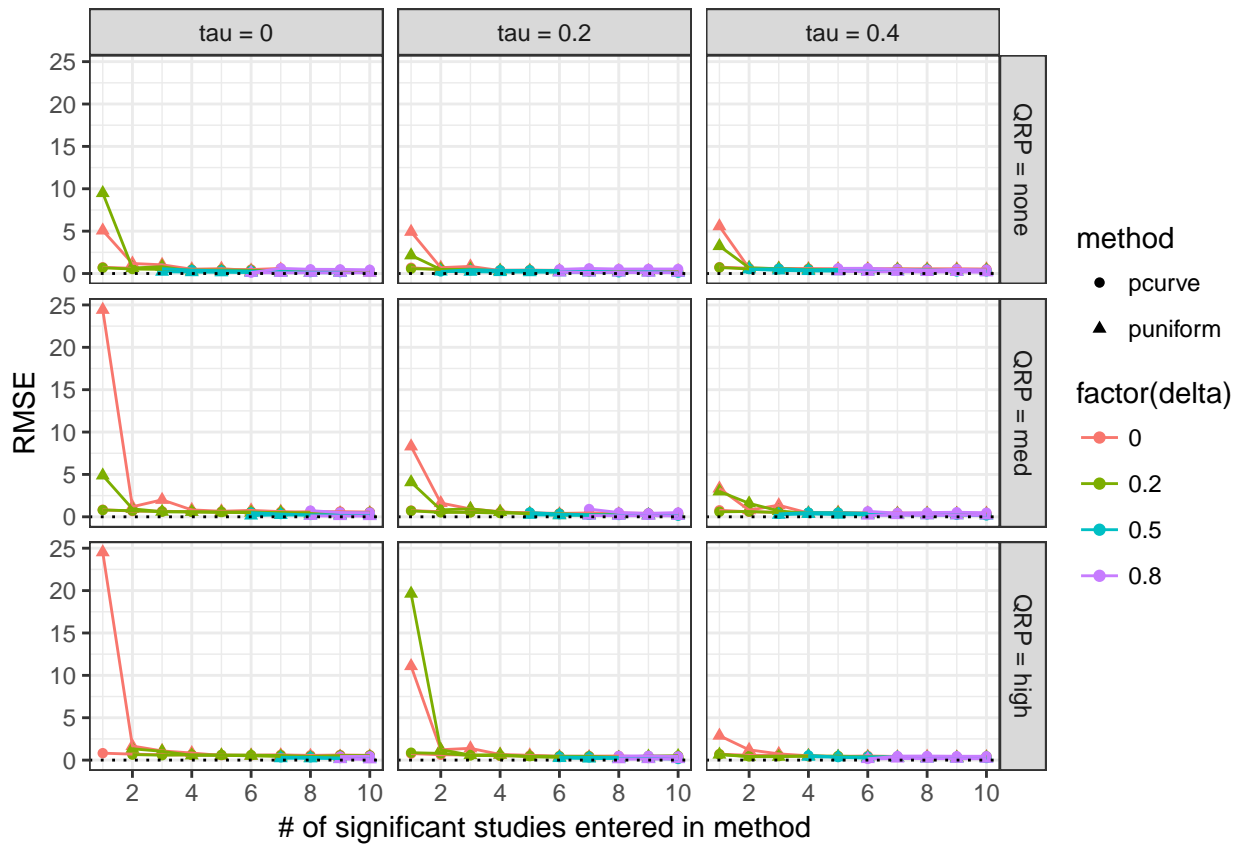
Mean error (ME) in Cohen's d , grouped by “# of significant studies”



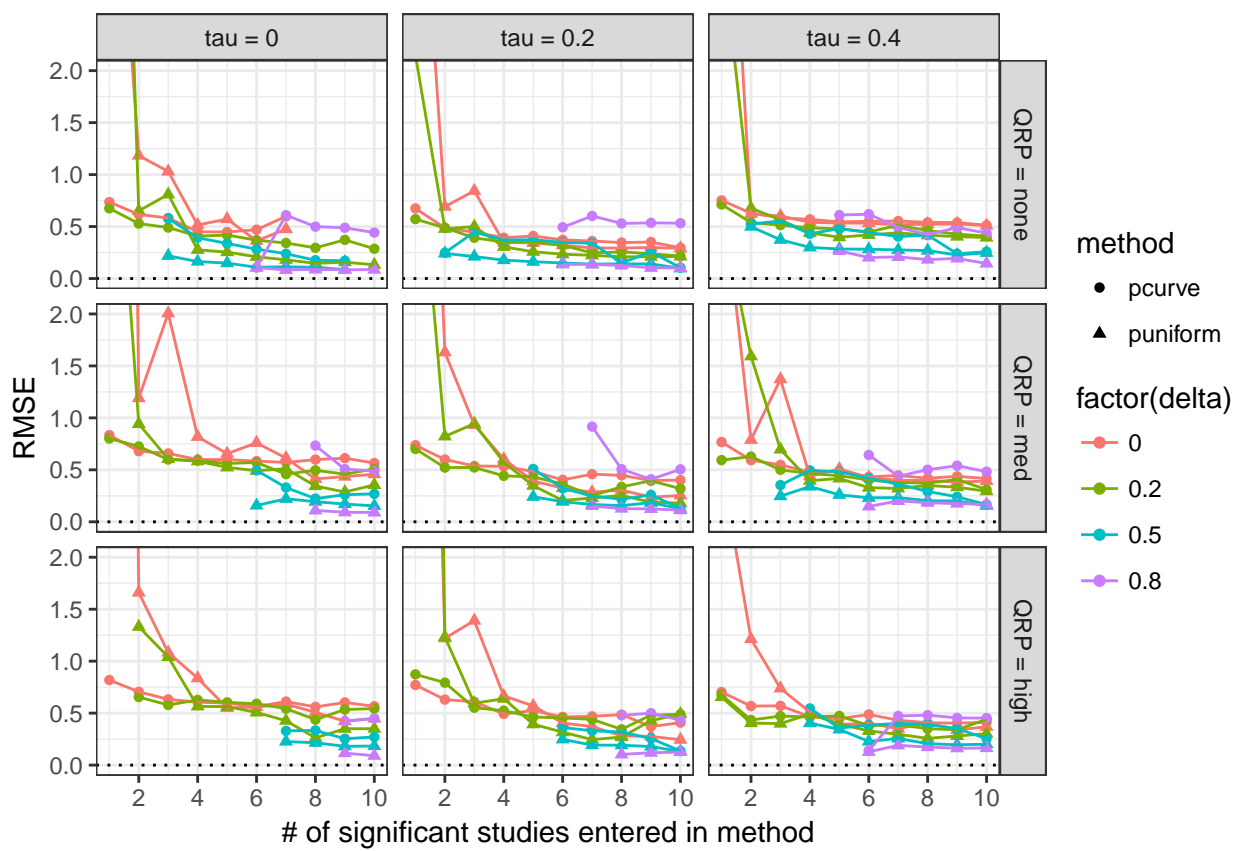
ME with zoomed y-scale:



Root mean square error (RMSE) in Cohen's d , grouped by “# of significant studies”



RMSE with zoomed y-scale



False positive rate (Type I errors)



True positive rate (statistical power) for $\delta = 0.2$

Power for $\delta = 0.2$ and 0% publication bias

