- 1008 Additional file 7 Assessing models using a different set of effect sizes
- 1009 The data were simulated as in Section Simulation setup basic model but with a set of relatively small effect sizes



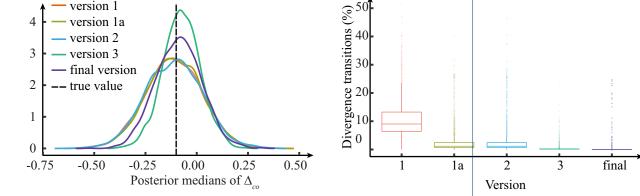


Figure A1 The performance of the five versions of the basic *co* model: (a) the distribution of posterior medians of the pooled CCP treatment effect Δ_{co} and the true value used to generate the data (true value); (b) boxplots show the median, lower quartile, upper quartile, minimum, and maximum of the number of divergent transitions (%). The proportion of divergent transitions was calculated by (the number of divergent transitions/10,000)×100% in each simulated trial using the five models.

1011 As shown in Figure A1, the results were consistent in this new scenario:

- Version 1: the proportion of divergent transitions was unacceptably high.
- Version 1(a): the divergent transitions decreased relative to version 1, but were not good enough.
- Version 2: the divergent transitions decreased compared to version 1(a), but again were not good enough.
- Version 3: the posterior estimation of Δ_{co} was extracted to the null effect due to the skeptical prior.
- Final version: the true value was almost at the position with the highest probability. The number of
- divergent transitions was close to or at zero for nearly all simulated trials, indicating that model fitting
 converged almost every time.