a Sc 1.1

b Sc 1.2

c Sc 1.3

d Sc 1.4

e Sc 1.5

f Sc 1.6

g Sc 2.1

Coverage probability

Sample size

FE freq	ME freq	Treatment A	Treatment C
FE Bayes Rep	ME Bayes Rep	Treatment B	Treatment D
FE Bayes URep1	ME Bayes URep1		
FE Bayes URep2	ME Bayes URep2		

Fig. SM 2 Coverage probability of each treatment (A–D) coefficient 80% confidence/credible intervals for fifteen scenarios,

when using a fixed and mixed effects model using frequentist and Bayesian approaches for sample sizes ranging between N = 500–5,000.