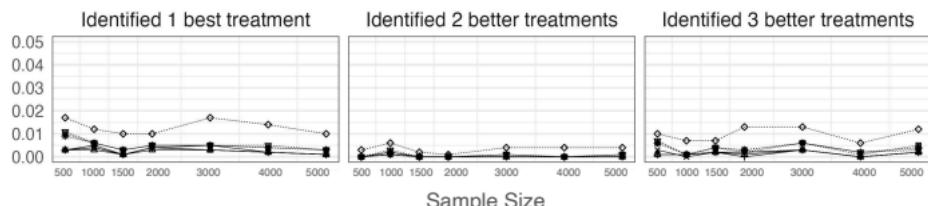
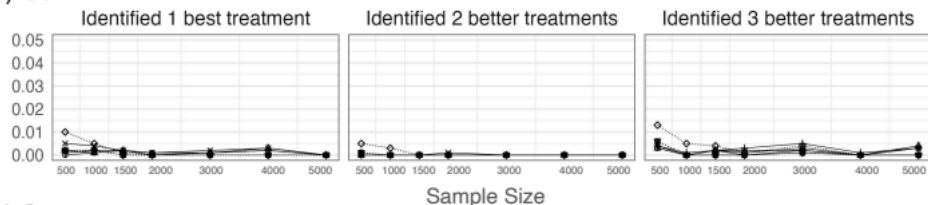
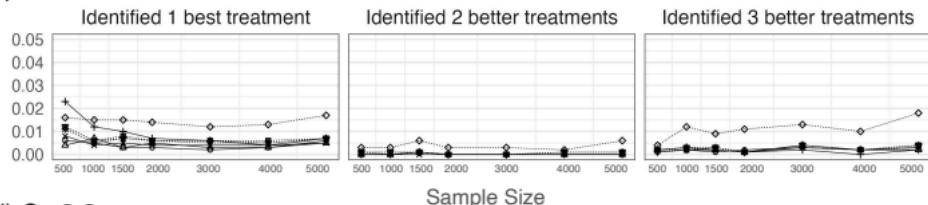
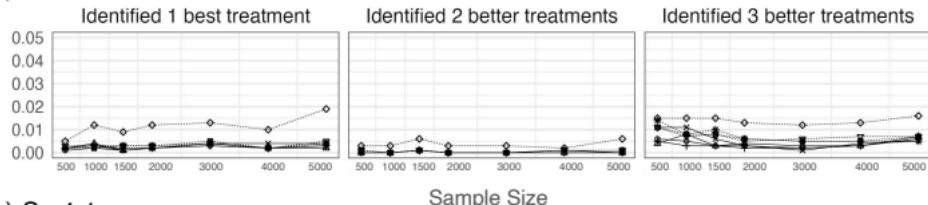
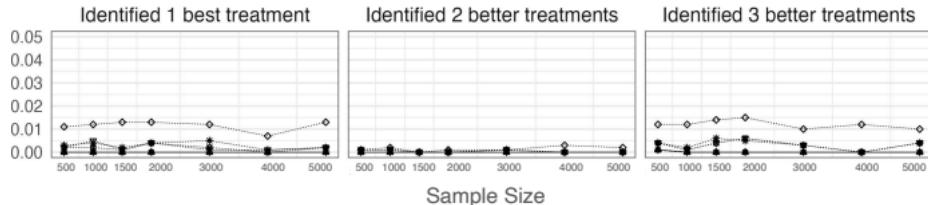


a) Sc 1.1**b) Sc 2.1****c) Sc 3.1****d) Sc 3.3****e) Sc 4.1**

— Fixed	--- Mixed	○ FE Frequentist	◊ ME Frequentist
▲ FE Bayes Rep	▼ ME Bayes Rep	+ FE Bayes URep1	■ ME Bayes URep1
× FE Bayes URep2	*	×	* ME Bayes URep2

Fig. SM 1 Probability of incorrect interval separation for all null scenarios, when using a fixed and mixed effects model

using frequentist and Bayesian approaches for sample sizes ranging between N = 500-5000.