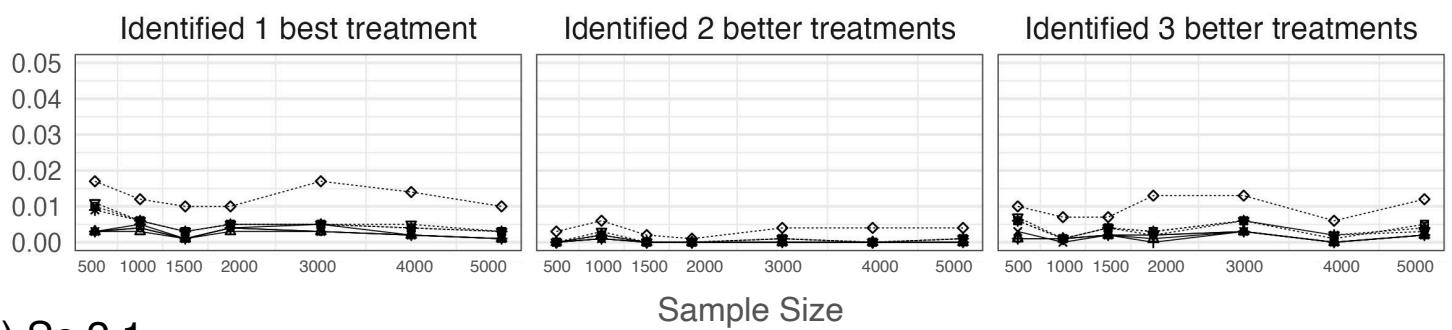
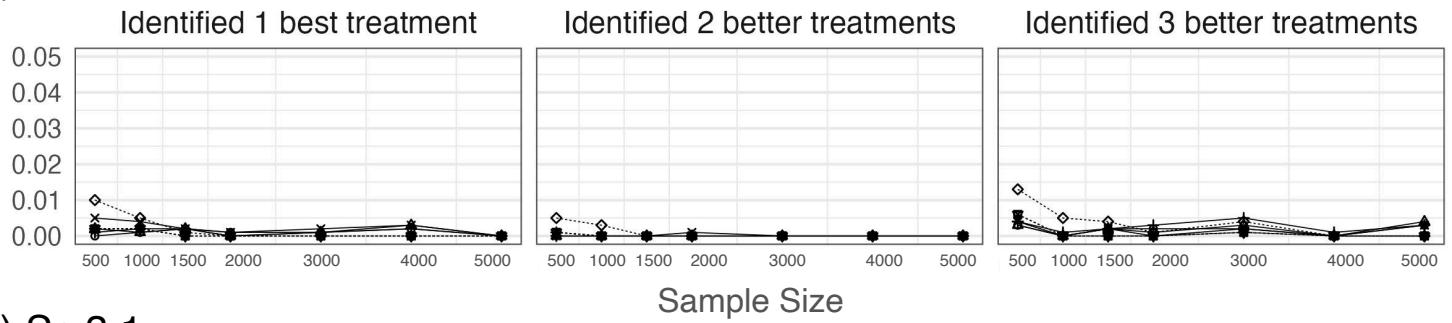


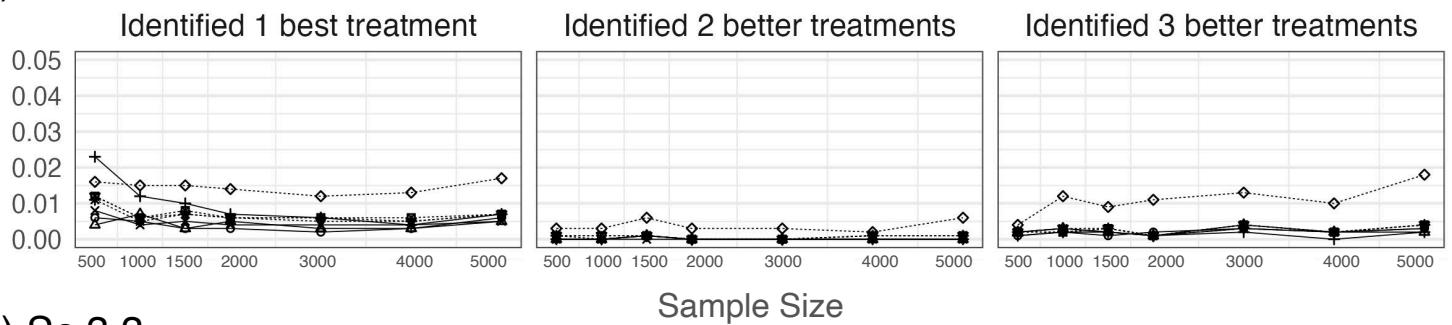
### a) Sc 1.1



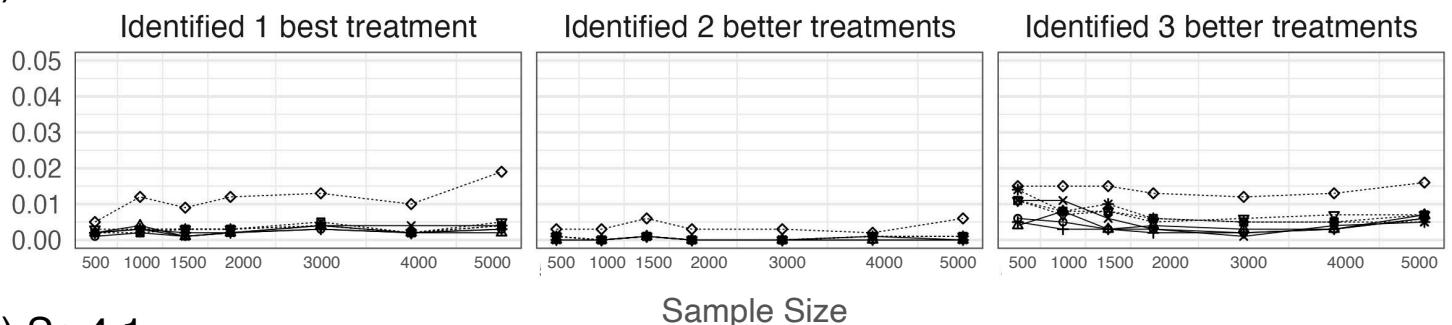
### b) Sc 2.1



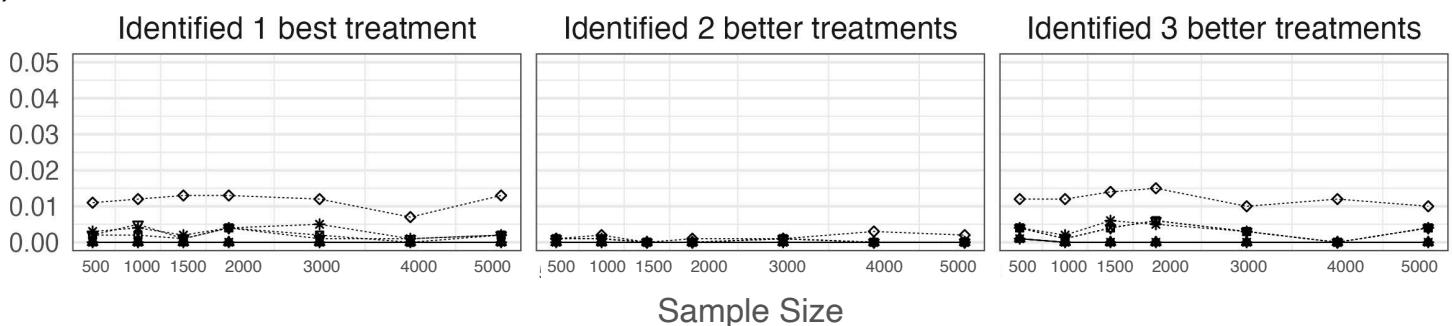
### c) Sc 3.1



### d) Sc 3.3



### e) Sc 4.1



|                |                |                  |                |
|----------------|----------------|------------------|----------------|
| — Fixed        | ··· Mixed      | ○ FE             | ◊ ME           |
| △ 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 = 500-5,000.