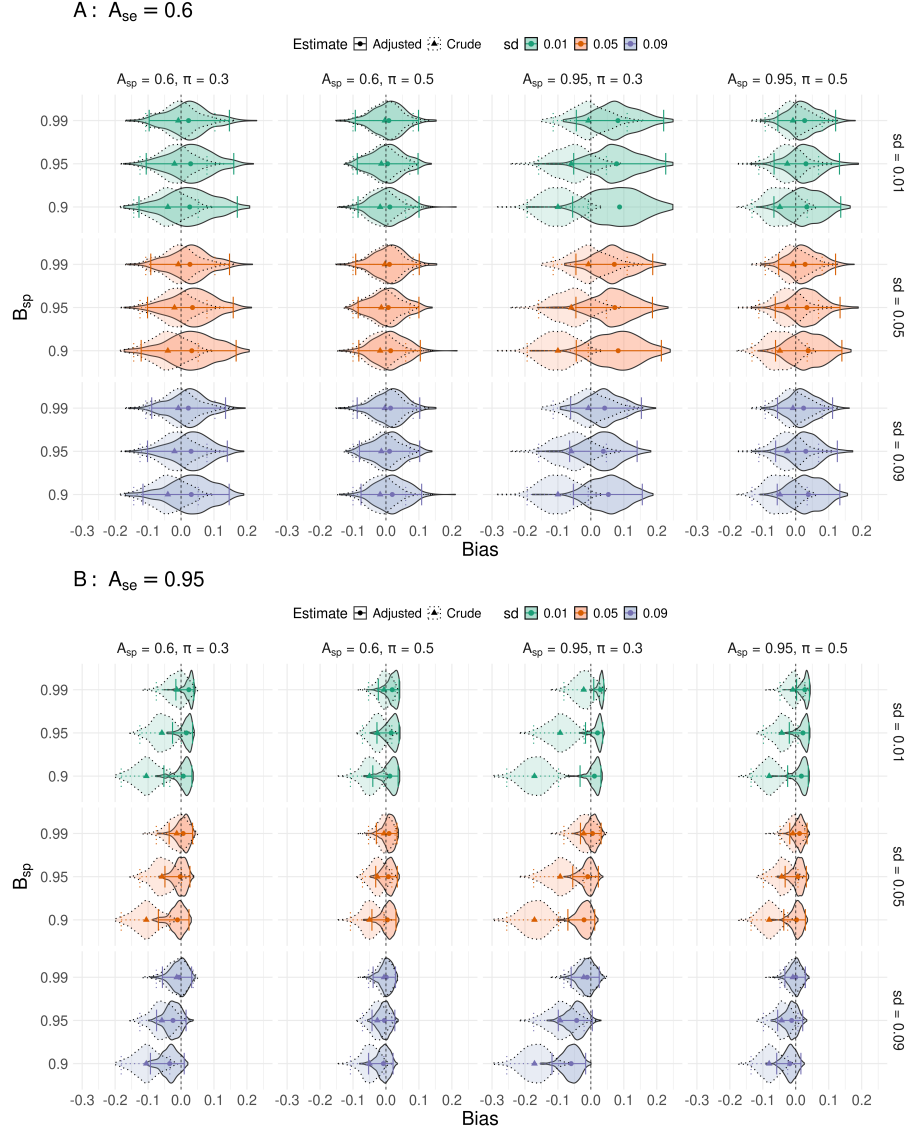
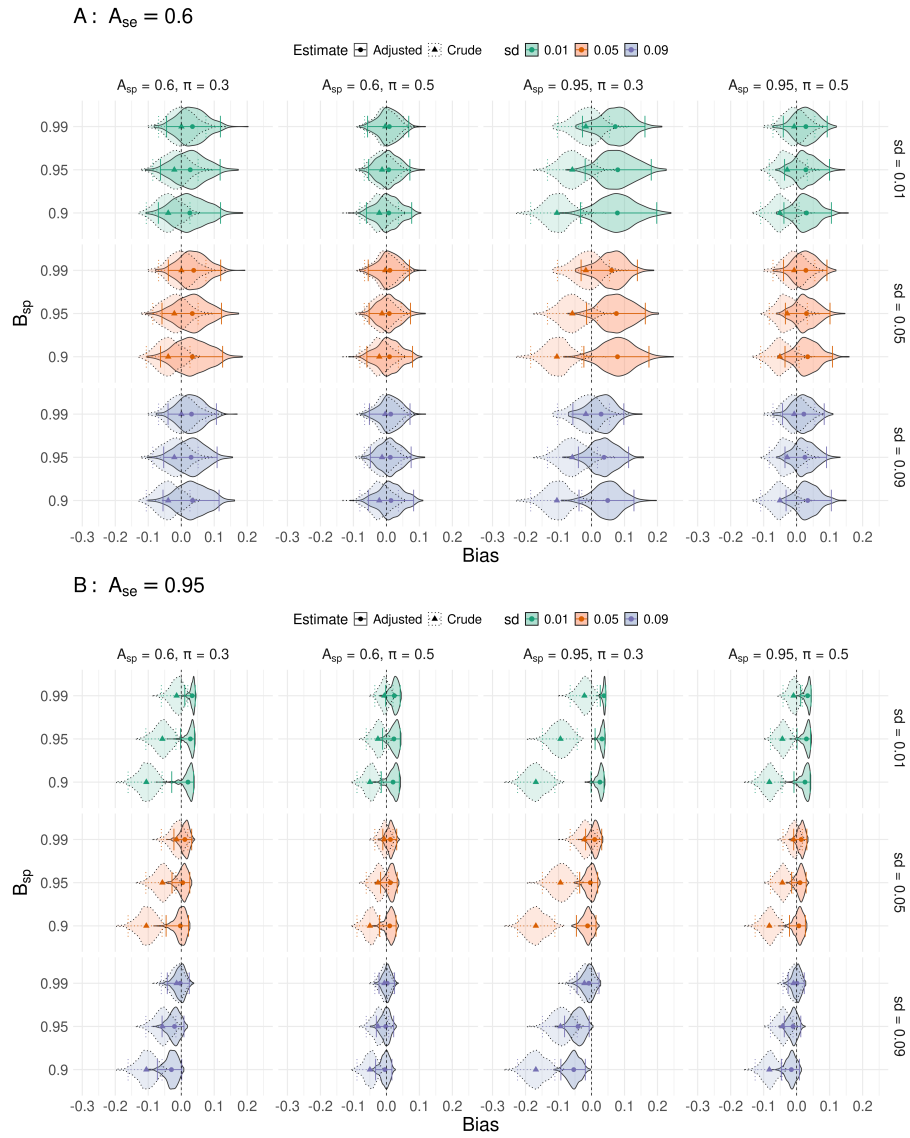


Supporting Information S4

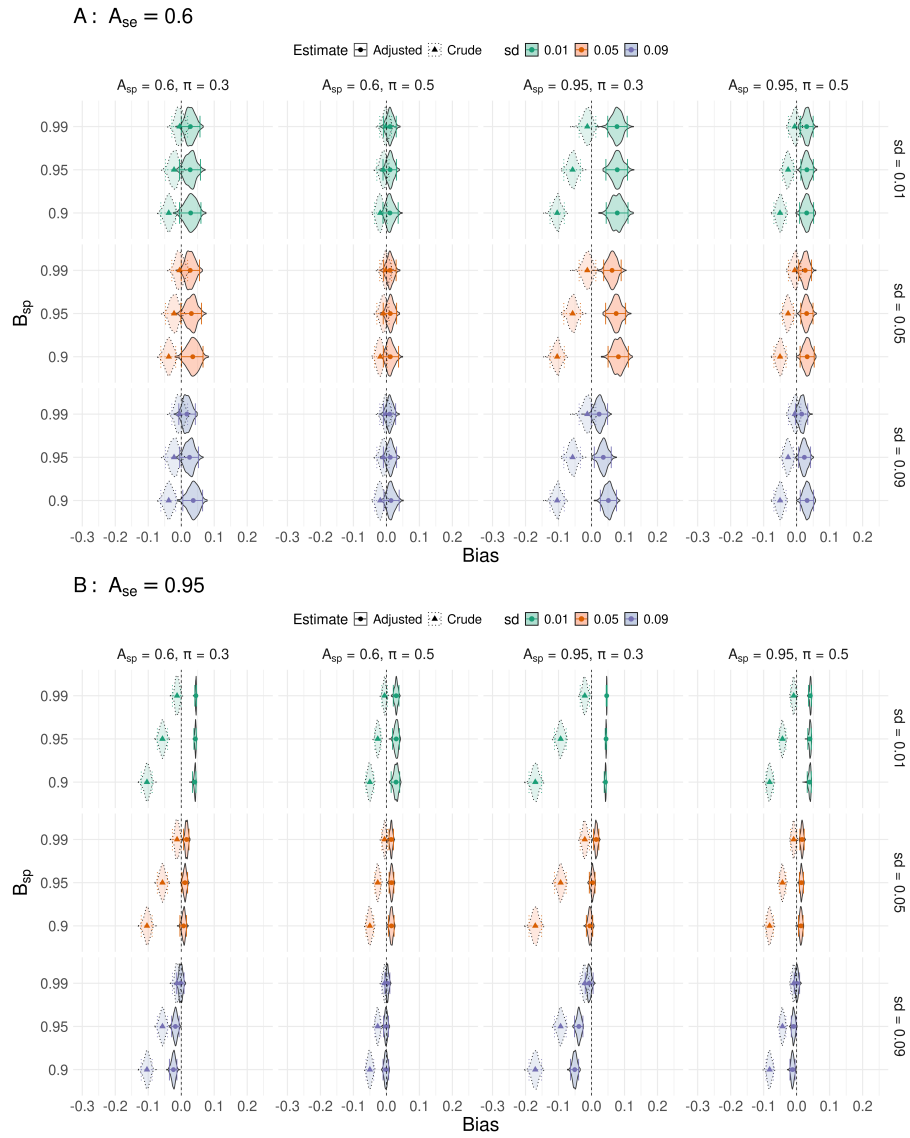
Bias and standard error plots for $n_{obs} = \{250, 500, 5000\}$ and heat map of bias against prior sd and n_{obs} , for correctly centred priors.



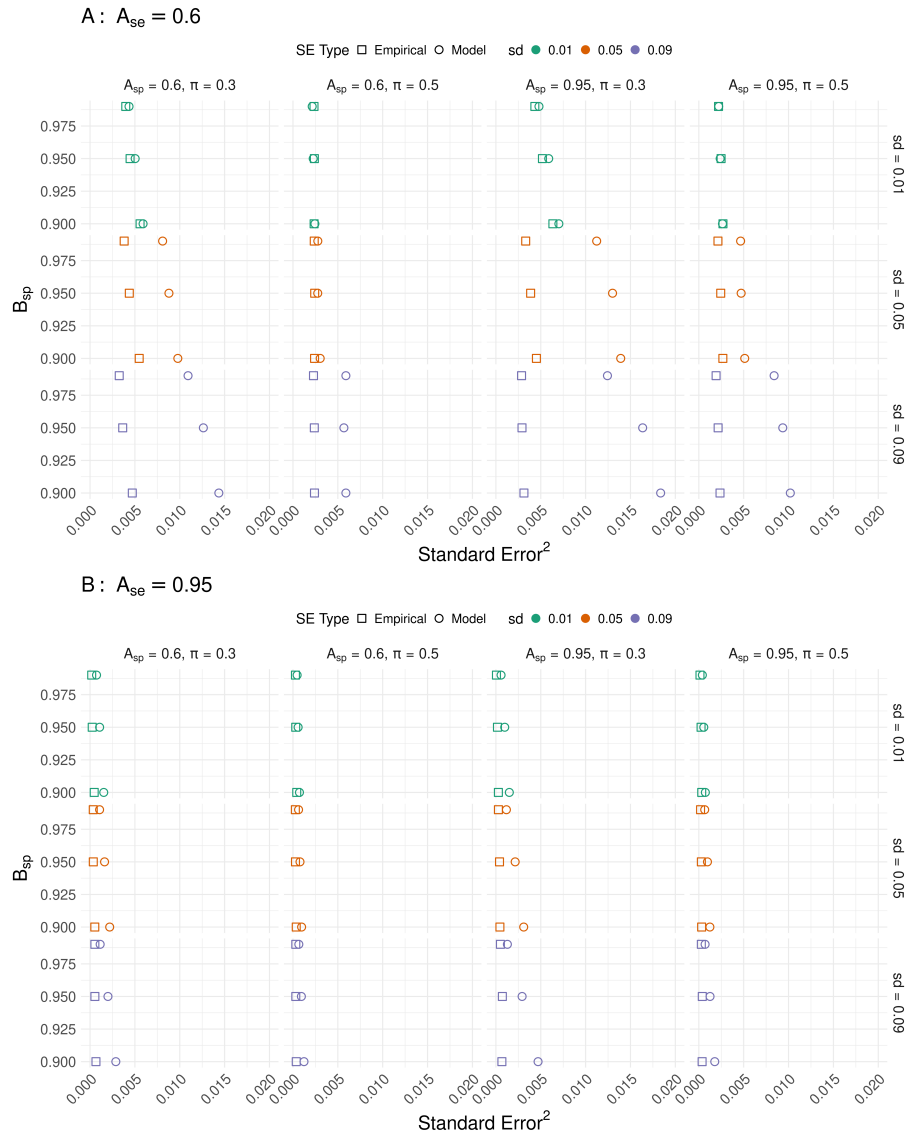
S4.1: Bias in the adjusted and crude estimates of A_{se} , for low (A) and high (B) values of A_{se} , when $n_{obs} = 250$, for correctly centred priors. Points represent the mean bias across simulations, and vertical lines show the 2.5th and 97.5th percentiles.



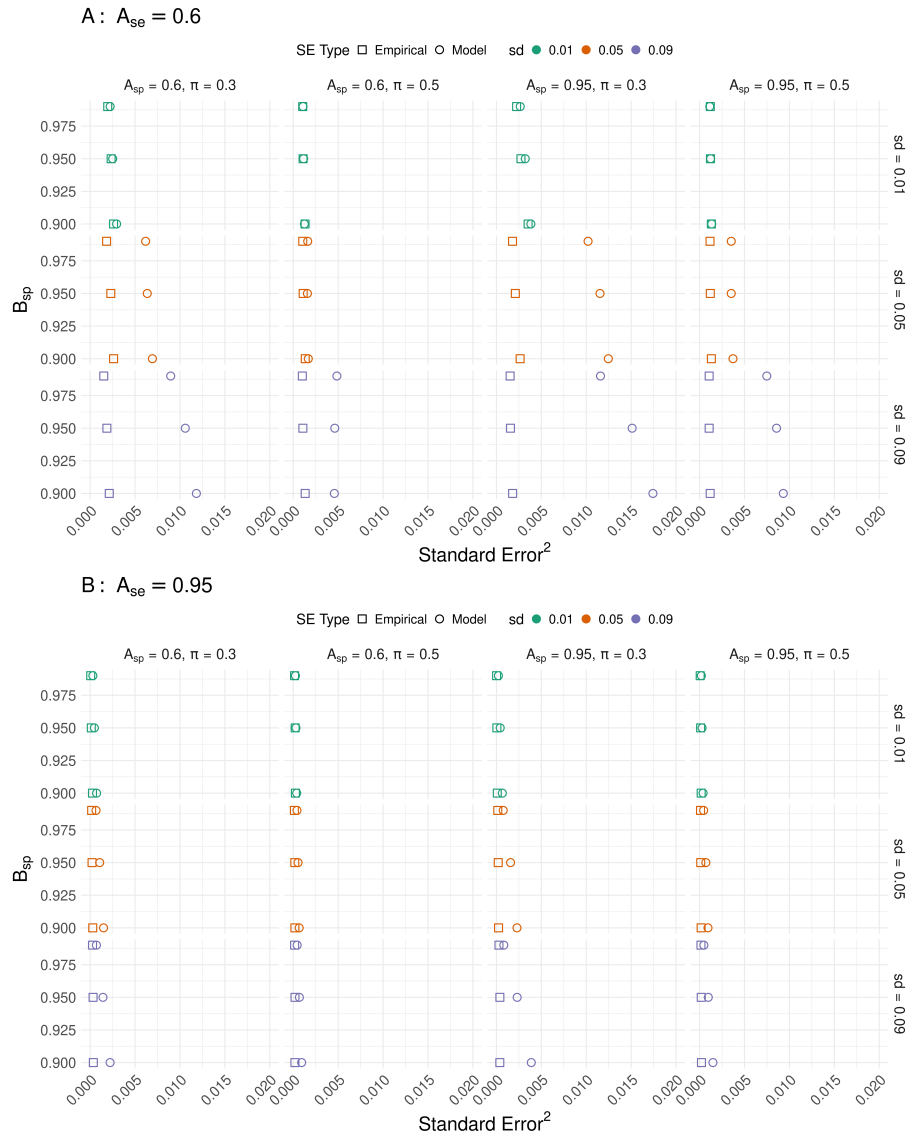
S4.2: Bias in the adjusted and crude estimates of A_{se} , for low (A) and high (B) values of A_{se} , when $n_{obs} = 500$, for correctly centred priors. Points represent the mean bias across simulations, and vertical lines show the 2.5th and 97.5th percentiles.



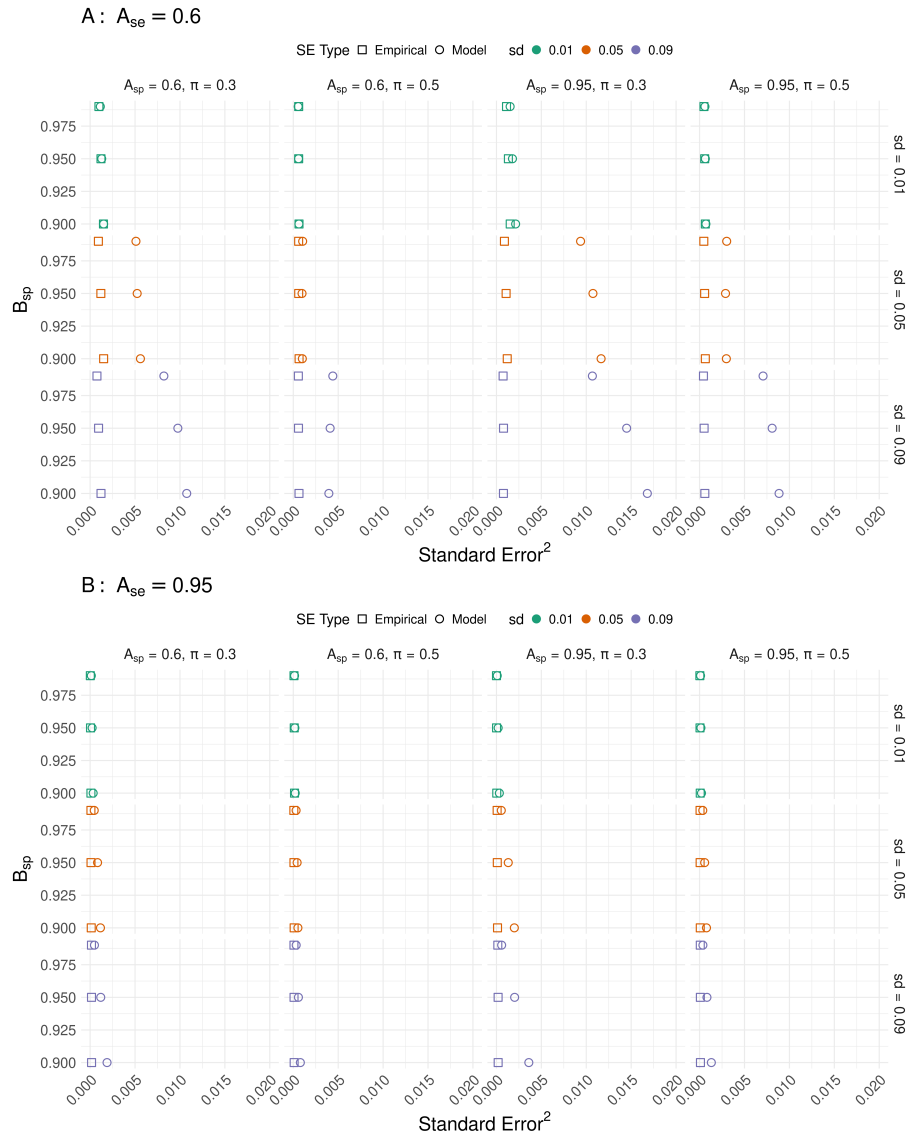
S4.3: Bias in the adjusted and crude estimates of A_{se} , for low (A) and high (B) values of A_{se} , when $n_{obs} = 5000$, for incorrectly centred priors. Points represent the mean bias across simulations, and vertical lines show the 2.5th and 97.5th percentiles.



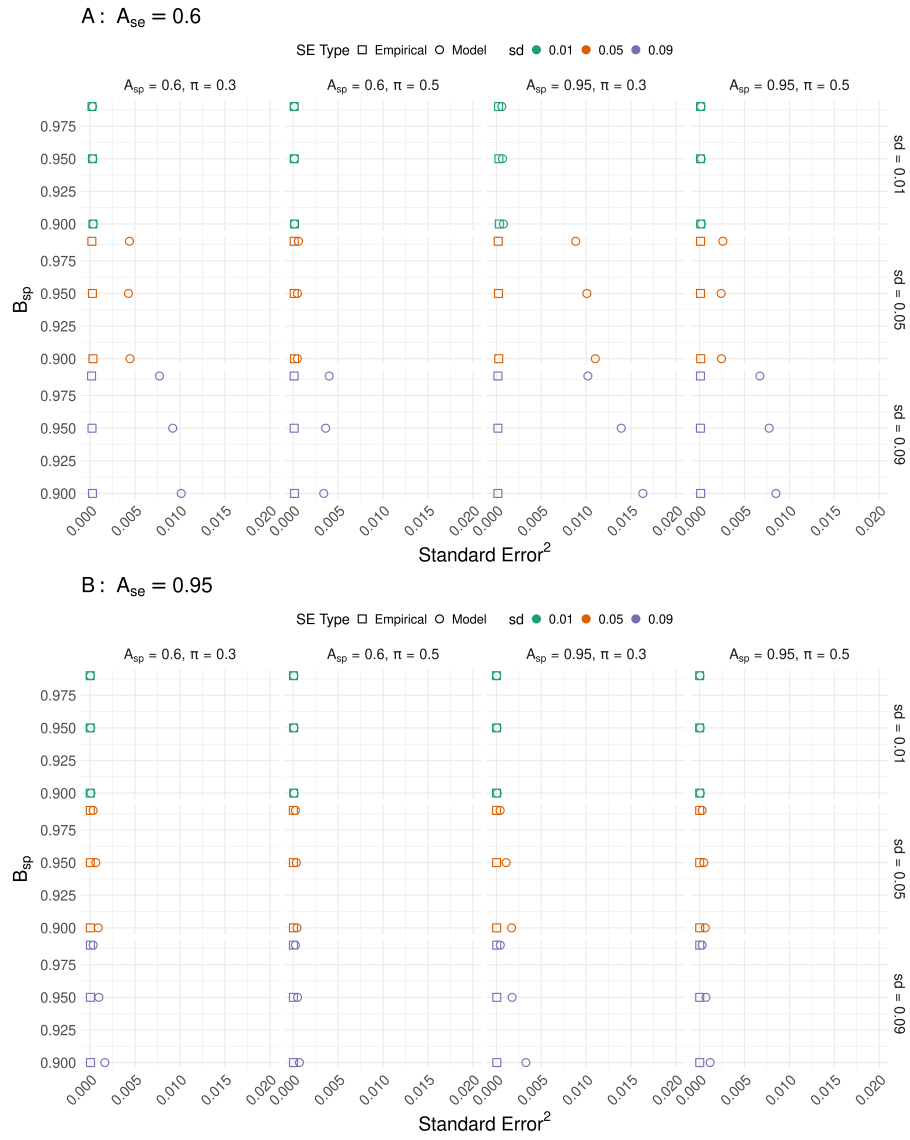
S4.4: EmpSE^2 and ModSE^2 , for low (A) and high (B) values of A_{se} , when $n_{obs} = 250$, for incorrectly centred priors.



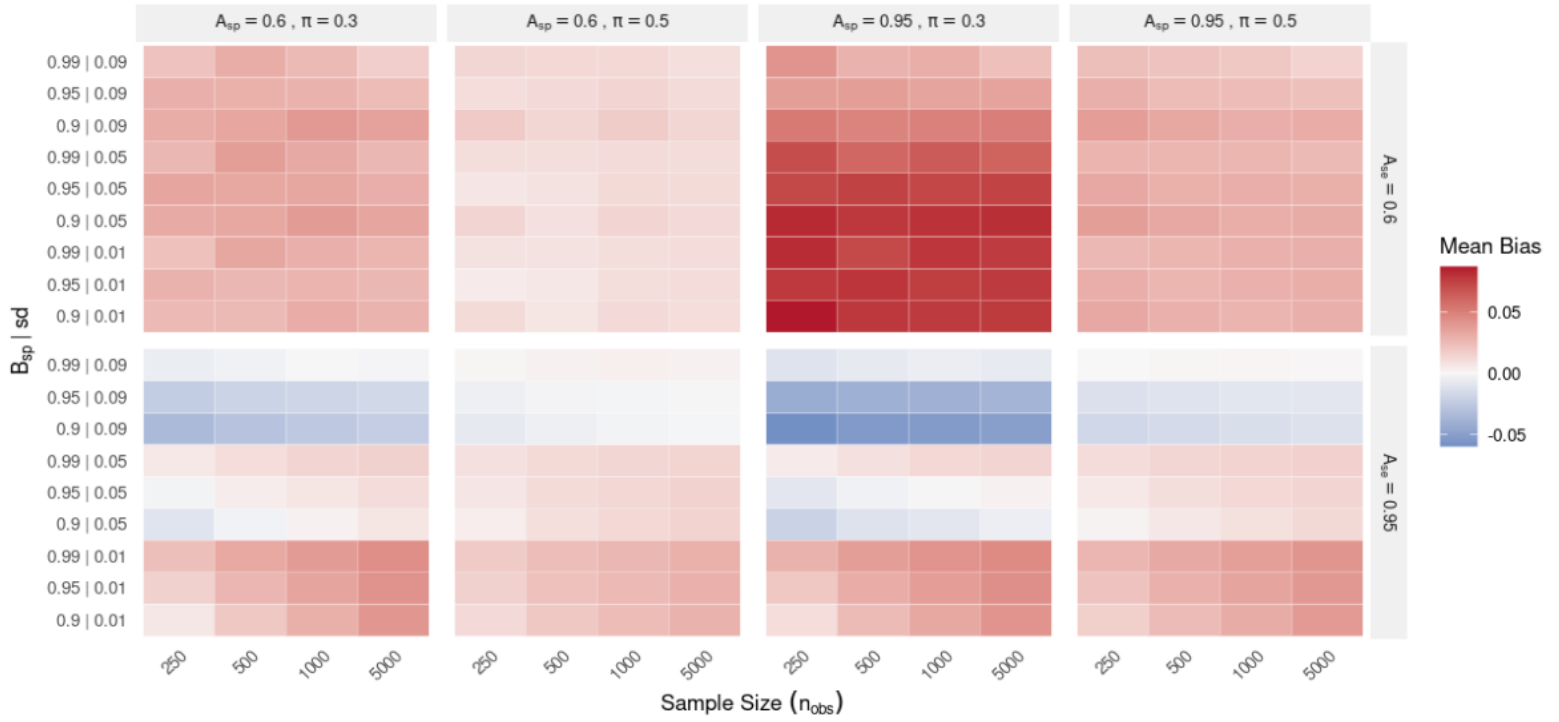
S4.5: EmpSE² and ModSE², for low (A) and high (B) values of A_{se} , when $n_{obs} = 500$, for incorrectly centred priors.



S4.6: EmpSE² and ModSE², for low (A) and high (B) values of A_{se} , when $n_{obs} = 1000$, for incorrectly centred priors.



S4.7: EmpSE² and ModSE², for low (A) and high (B) values of A_{se} , when $n_{obs} = 5000$, for incorrectly centred priors.



S4.8: Heat map of the bias in the adjusted estimate of A_{se} , against sample size (n_{obs}) and prior standard deviation and mean (sd and B_{sp}), for incorrectly centred priors.