Simulation Analysis: table the results

|  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | true.beta1 | BayesB1bias | BayesN1bias | Freq1bias | BayesB1mse | BayesN1mse | Freq1mse | true.beta2 | BayesB2bias | BayesN2bias | Freq2bias | BayesB2mse | BayesN2mse | Freq2mse |
| 1 | 0.00 | 0.0002 | 0.0016 | 0.0050 | 2e-04 | 3e-04 | 2e-04 | 0.00 | -0.0010 | -0.0105 | -0.0060 | 8e-04 | 0.0020 | 8e-04 |
| 2 | 0.10 | 0.0002 | 0.0057 | 0.0037 | 1e-04 | 3e-04 | 2e-04 | 0.03 | 0.0006 | -0.0136 | -0.0042 | 6e-04 | 0.0020 | 6e-04 |
| 3 | 0.20 | 0.0010 | 0.0004 | 0.0040 | 1e-04 | 3e-04 | 2e-04 | -0.20 | -0.0011 | 0.0038 | -0.0044 | 5e-04 | 0.0018 | 6e-04 |
| 4 | 0.00 | 0.0011 | 0.0024 | 0.0058 | 2e-04 | 3e-04 | 2e-04 | 0.00 | -0.0009 | -0.0119 | -0.0060 | 8e-04 | 0.0021 | 8e-04 |
| 5 | 0.04 | 0.0010 | 0.0033 | 0.0051 | 2e-04 | 3e-04 | 2e-04 | 0.00 | -0.0006 | -0.0104 | -0.0055 | 7e-04 | 0.0022 | 8e-04 |
| 6 | 0.10 | 0.0003 | 0.0044 | 0.0038 | 1e-04 | 3e-04 | 2e-04 | 0.03 | 0.0005 | -0.0107 | -0.0042 | 6e-04 | 0.0022 | 6e-04 |
| 7 | 0.20 | 0.0017 | 0.0018 | 0.0044 | 1e-04 | 3e-04 | 2e-04 | -0.20 | -0.0020 | -0.0010 | -0.0051 | 5e-04 | 0.0018 | 6e-04 |
| NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | true.tau | BayesBtaubias | BayesBtaumse | BayesNtaubias | BayesNtaumse |
| 1 | 0.001 | 0.0128 | 2e-04 | 0.0361 | 0.0013 |
| 2 | 0.001 | 0.0104 | 1e-04 | 0.0393 | 0.0016 |
| 3 | 0.001 | 0.0109 | 1e-04 | 0.0393 | 0.0016 |
| 4 | 0.010 | 0.0048 | 1e-04 | 0.0269 | 0.0007 |
| 5 | 0.010 | 0.0044 | 1e-04 | 0.0284 | 0.0008 |
| 6 | 0.010 | 0.0037 | 0e+00 | 0.0303 | 0.0009 |
| 7 | 0.010 | 0.0034 | 0e+00 | 0.0300 | 0.0009 |
| NA | NA | NA | NA | NA | NA |

|  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | 1 | 2 | 3 | 4 | 5 | 6 | 7 | NA |
| X | 1.0000 | 2.0000 | 3.0000 | 4.0000 | 5.0000 | 6.0000 | 7.0000 | NA |
| true.beta1 | 0.0000 | 0.1000 | 0.2000 | 0.0000 | 0.0400 | 0.1000 | 0.2000 | NA |
| BayesB1bias | 0.0002 | 0.0002 | 0.0010 | 0.0011 | 0.0010 | 0.0003 | 0.0017 | NA |
| BayesN1bias | 0.0016 | 0.0057 | 0.0004 | 0.0024 | 0.0033 | 0.0044 | 0.0018 | NA |
| Freq1bias | 0.0050 | 0.0037 | 0.0040 | 0.0058 | 0.0051 | 0.0038 | 0.0044 | NA |
| BayesB1cover | 0.9620 | 0.9650 | 0.9610 | 0.9580 | 0.9680 | 0.9570 | 0.9540 | NA |
| BayesN1cover | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | NA |
| Freq1cover | 0.9540 | 0.9560 | 0.9530 | 0.9380 | 0.9580 | 0.9520 | 0.9390 | NA |
| BayesB1mse | 0.0002 | 0.0001 | 0.0001 | 0.0002 | 0.0002 | 0.0001 | 0.0001 | NA |
| BayesN1mse | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | 0.0003 | NA |
| Freq1mse | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | NA |
| BayesB1power | 0.0380 | 1.0000 | 1.0000 | 0.0420 | 0.8760 | 1.0000 | 1.0000 | NA |
| BayesN1power | 0.0000 | 0.0000 | 0.3310 | 0.0000 | 0.0000 | 0.0000 | 0.3330 | NA |
| Freq1power | 0.0460 | 1.0000 | 1.0000 | 0.0620 | 0.9180 | 1.0000 | 1.0000 | NA |
| BayesB1se2mean | 0.0002 | 0.0002 | 0.0001 | 0.0002 | 0.0002 | 0.0002 | 0.0001 | NA |
| BayesN1se2mean | 0.0100 | 0.0116 | 0.0119 | 0.0101 | 0.0106 | 0.0115 | 0.0121 | NA |
| Freq1se2mean | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | NA |
| mcse.biasB1 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | NA |
| mcse.biasN1 | 0.0005 | 0.0005 | 0.0005 | 0.0006 | 0.0006 | 0.0006 | 0.0005 | NA |
| mcse.biasF1 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | 0.0004 | NA |
| RhatB1 | 1.0077 | 1.0091 | 1.0076 | 1.0074 | 1.0074 | 1.0065 | 1.0066 | NA |
| RhatN1 | 1.0123 | 1.0119 | 1.0123 | 1.0122 | 1.0123 | 1.0125 | 1.0127 | NA |
| true.beta2 | 0.0000 | 0.0300 | -0.2000 | 0.0000 | 0.0000 | 0.0300 | -0.2000 | NA |
| BayesB2bias | -0.0010 | 0.0006 | -0.0011 | -0.0009 | -0.0006 | 0.0005 | -0.0020 | NA |
| BayesN2bias | -0.0105 | -0.0136 | 0.0038 | -0.0119 | -0.0104 | -0.0107 | -0.0010 | NA |
| Freq2bias | -0.0060 | -0.0042 | -0.0044 | -0.0060 | -0.0055 | -0.0042 | -0.0051 | NA |
| BayesB2cover | 0.9680 | 0.9570 | 0.9520 | 0.9520 | 0.9560 | 0.9590 | 0.9470 | NA |
| BayesN2cover | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | NA |
| Freq2cover | 0.9680 | 0.9600 | 0.9540 | 0.9540 | 0.9590 | 0.9600 | 0.9460 | NA |
| BayesB2mse | 0.0008 | 0.0006 | 0.0005 | 0.0008 | 0.0007 | 0.0006 | 0.0005 | NA |
| BayesN2mse | 0.0020 | 0.0020 | 0.0018 | 0.0021 | 0.0022 | 0.0022 | 0.0018 | NA |
| Freq2mse | 0.0008 | 0.0006 | 0.0006 | 0.0008 | 0.0008 | 0.0006 | 0.0006 | NA |
| BayesB2power | 0.0320 | 0.2920 | 1.0000 | 0.0480 | 0.0440 | 0.2800 | 1.0000 | NA |
| BayesN2power | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | NA |
| Freq2power | 0.0320 | 0.2080 | 1.0000 | 0.0460 | 0.0410 | 0.2030 | 1.0000 | NA |
| BayesB2se2mean | 0.0009 | 0.0006 | 0.0006 | 0.0008 | 0.0008 | 0.0006 | 0.0005 | NA |
| BayesN2se2mean | 0.0678 | 0.0814 | 0.0856 | 0.0626 | 0.0736 | 0.0814 | 0.0798 | NA |
| Freq2se2mean | 0.0009 | 0.0006 | 0.0006 | 0.0009 | 0.0008 | 0.0007 | 0.0006 | NA |
| mcse.biasB2 | 0.0009 | 0.0008 | 0.0007 | 0.0009 | 0.0009 | 0.0007 | 0.0007 | NA |
| mcse.biasN2 | 0.0014 | 0.0014 | 0.0013 | 0.0014 | 0.0014 | 0.0015 | 0.0014 | NA |
| mcse.biasF2 | 0.0009 | 0.0008 | 0.0007 | 0.0009 | 0.0009 | 0.0008 | 0.0007 | NA |
| RhatB2 | 1.0093 | 1.0102 | 1.0091 | 1.0087 | 1.0086 | 1.0076 | 1.0076 | NA |
| RhatN2 | 1.0155 | 1.0150 | 1.0154 | 1.0152 | 1.0154 | 1.0157 | 1.0159 | NA |
| true.tau | 0.0010 | 0.0010 | 0.0010 | 0.0100 | 0.0100 | 0.0100 | 0.0100 | NA |
| BayesBtaubias | 0.0128 | 0.0104 | 0.0109 | 0.0048 | 0.0044 | 0.0037 | 0.0034 | NA |
| BayesNtaubias | 0.0361 | 0.0393 | 0.0393 | 0.0269 | 0.0284 | 0.0303 | 0.0300 | NA |
| BayesBtaucover | 0.9380 | 0.9430 | 0.9330 | 0.9840 | 0.9770 | 0.9780 | 0.9870 | NA |
| BayesNtaucover | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | 1.0000 | NA |
| BayesBtaumse | 0.0002 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0000 | 0.0000 | NA |
| BayesNtaumse | 0.0013 | 0.0016 | 0.0016 | 0.0007 | 0.0008 | 0.0009 | 0.0009 | NA |
| BayesBtaupower | 0.0870 | 0.0810 | 0.0850 | 0.1340 | 0.1660 | 0.1850 | 0.1460 | NA |
| BayesNtaupower | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | 0.0000 | NA |
| BayesBtause2mean | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | NA |
| BayesNtause2mean | 0.0008 | 0.0010 | 0.0010 | 0.0008 | 0.0009 | 0.0010 | 0.0010 | NA |
| mcse.biastauB | 0.0002 | 0.0001 | 0.0001 | 0.0002 | 0.0002 | 0.0002 | 0.0002 | NA |
| mcse.biastauN | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | 0.0001 | NA |
| RhatBtau | 1.0196 | 1.0199 | 1.0200 | 1.0207 | 1.0202 | 1.0218 | 1.0216 | NA |
| RhatNtau | 1.0066 | 1.0067 | 1.0063 | 1.0069 | 1.0071 | 1.0066 | 1.0064 | NA |