Web-based supporting materials for

**Indices of Non-Ignorable Selection Bias for Proportions**

**Estimated from Non-Probability Samples**

by

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**Supplemental Figure 1:** MUBP() from the probit model (solid lines/solid symbols) and MUB() from the normal model (dotted lines/open symbols) versus the true estimated bias, shown for combinations of the biserial correlation *Corr*(*U*, *X*) = (rows) and the selection mechanism (columns), for E[*Y*] = 0.1. Grey dashed line is equality (index = estimated bias). Results are medians across 1000 simulated data sets for each scenario.



**Supplemental Figure 2:** MUBP() from the probit model (solid lines/solid symbols) and MUB() from the normal model (dotted lines/open symbols) versus the true estimated bias, shown for combinations of the biserial correlation *Corr*(*U*, *X*) = (rows) and the selection mechanism (columns), for E[*Y*] = 0.5. Grey dashed line is equality (index = estimated bias). Results are medians across 1000 simulated data sets for each scenario.



**Supplemental Figure 3:** Coverage of [MUBP(0), MUBP(1)] and [SMUB(0), SMUB(1)] intervals, shown as a function of the true estimated bias (x-axis), selection mechanism (columns), proxy strength (rows), and E[*Y*] (shape). Coverages are estimated from 1000 simulated data sets.



**Supplemental Figure 4:** Coverage of credible intervals for MUBP() and SMUB() with a beta prior on , shown as a function of the true estimated bias (x-axis), selection mechanism (columns), proxy strength (rows), and E[*Y*] (shape). Coverages are estimated from 1000 simulated data sets.

