Supplementary material B
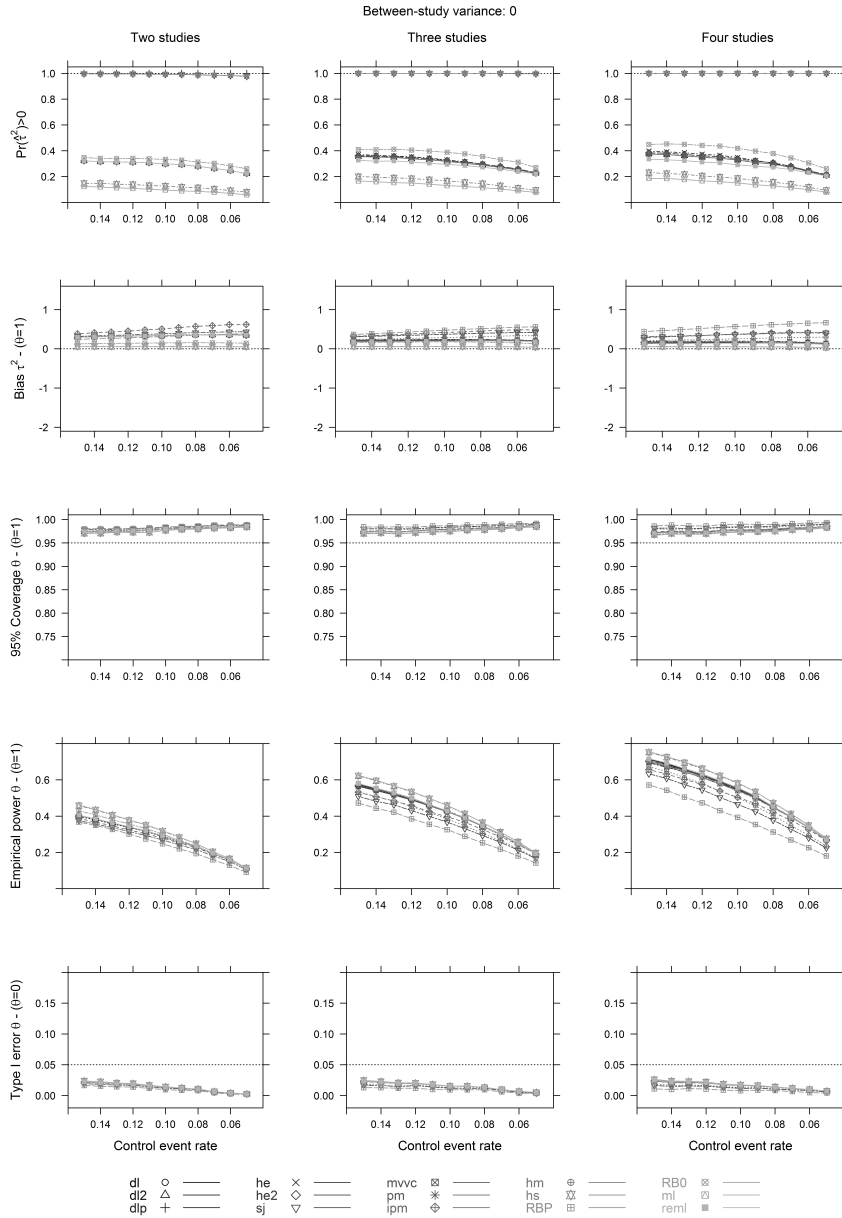

Figure 1: Main simulation scheme operational characteristics ($Pr(\hat{\tau}) > 0$, mean bias of τ, 95% coverage probability, empirical power and empirical type I error of θ) for a selected scenario of two to four studies. For abbreviations see Table 1 (Main manuscript).

Figure 2: Main simulation scheme operational characteristics ($Pr(\hat{\tau}) > 0$, mean bias of τ, 95% coverage probability, empirical power and empirical type I error of θ) for a selected scenario of two to four studies. For abbreviations see Table 1 (Main manuscript).
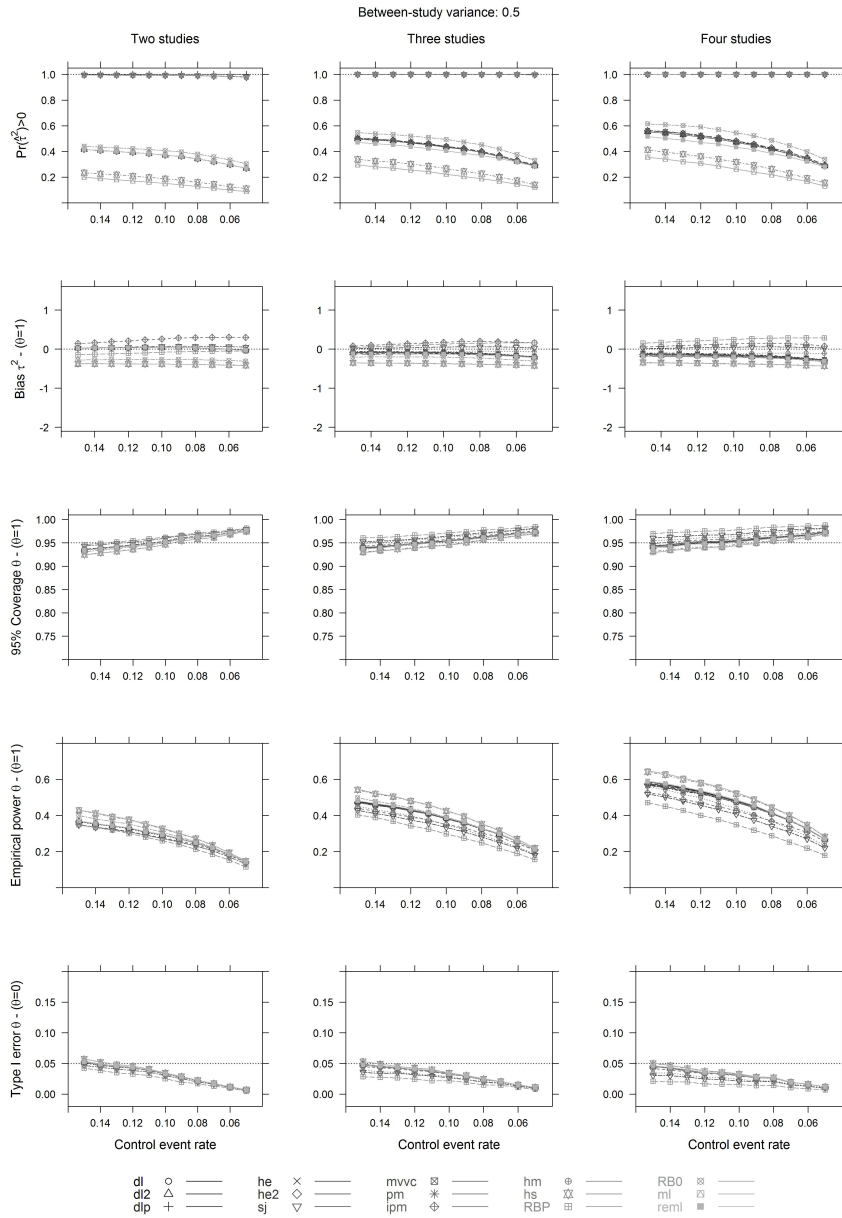
Figure 3: Main simulation scheme operational characteristics ($Pr(\hat{\tau}) > 0$, mean bias of τ, 95% coverage probability, empirical power and empirical type I error of θ) for a selected scenario of two to four studies. For abbreviations see Table 1 (Main manuscript).
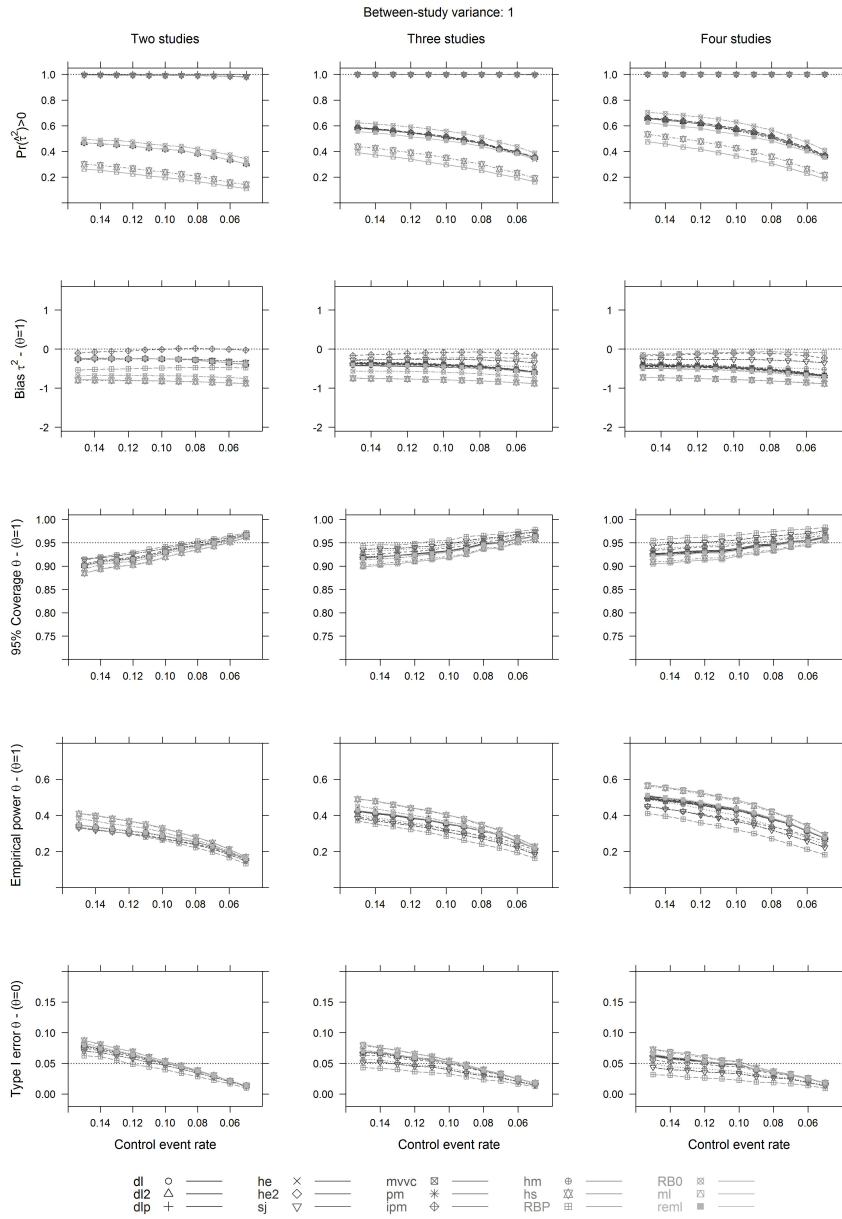
Figure 4: Main simulation scheme operational characteristics ($Pr(\hat{\tau}) > 0$, mean bias of τ, 95% coverage probability, empirical power and empirical type I error of θ) for a selected scenario of two to four studies. For abbreviations see Table 1 (Main manuscript).
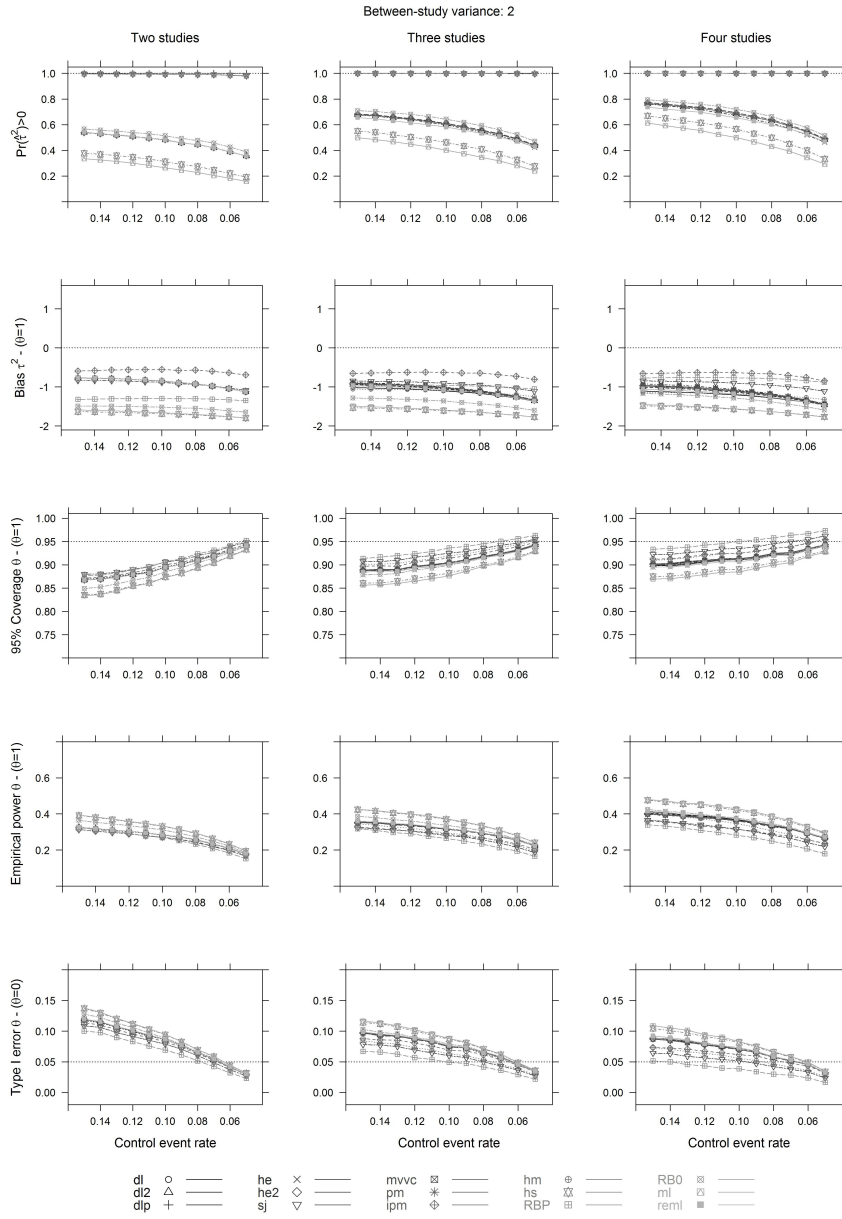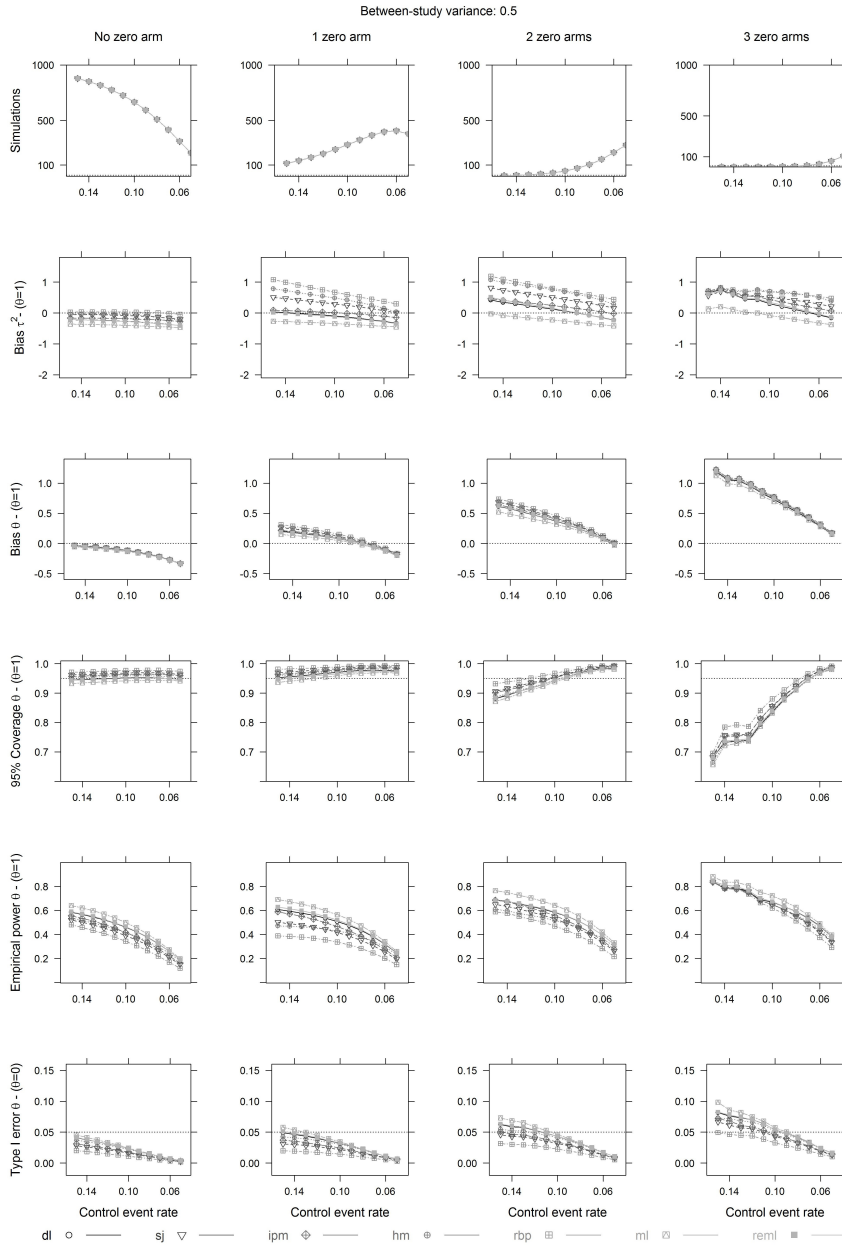
Figure 5: Conditional subset simulation scheme operational characteristics (Mean bias of τ, mean bias, 95% coverage probability, empirical power and empirical type I error of θ) for four studies and $\tau^2 = 0.5$. For abbreviations see Table 1 (Main manuscript). First row y-axis - 100: 100,000, 50: 50,000, 10: 10,000 simulations
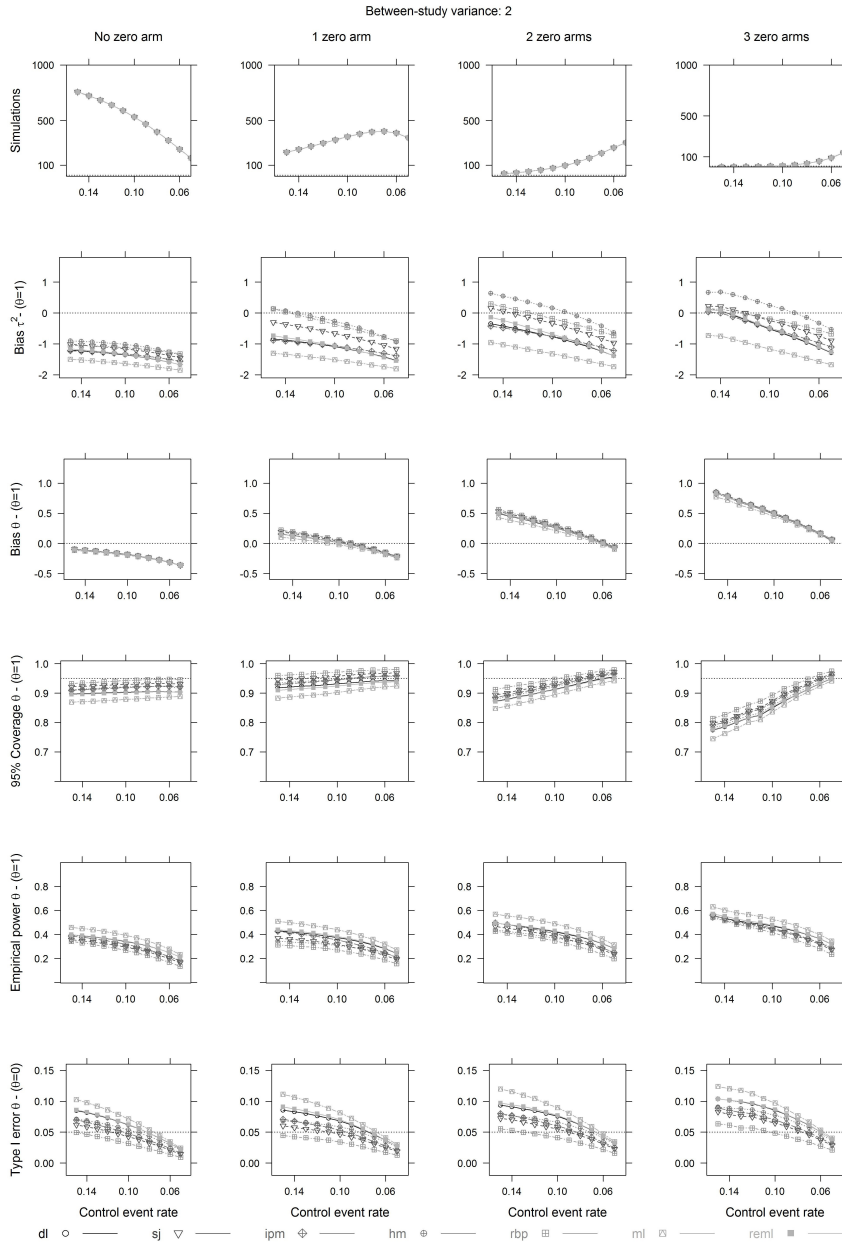
Figure 6: Conditional subset simulation scheme operational characteristics (Mean bias of τ, mean bias, 95% coverage probability, empirical power and empirical type I error of θ) for four studies and $\tau^2 = 2$. For abbreviations see Table 1 (Main manuscript). First row y-axis - 100: 100,000, 50: 50,000, 10: 10,000 simulations
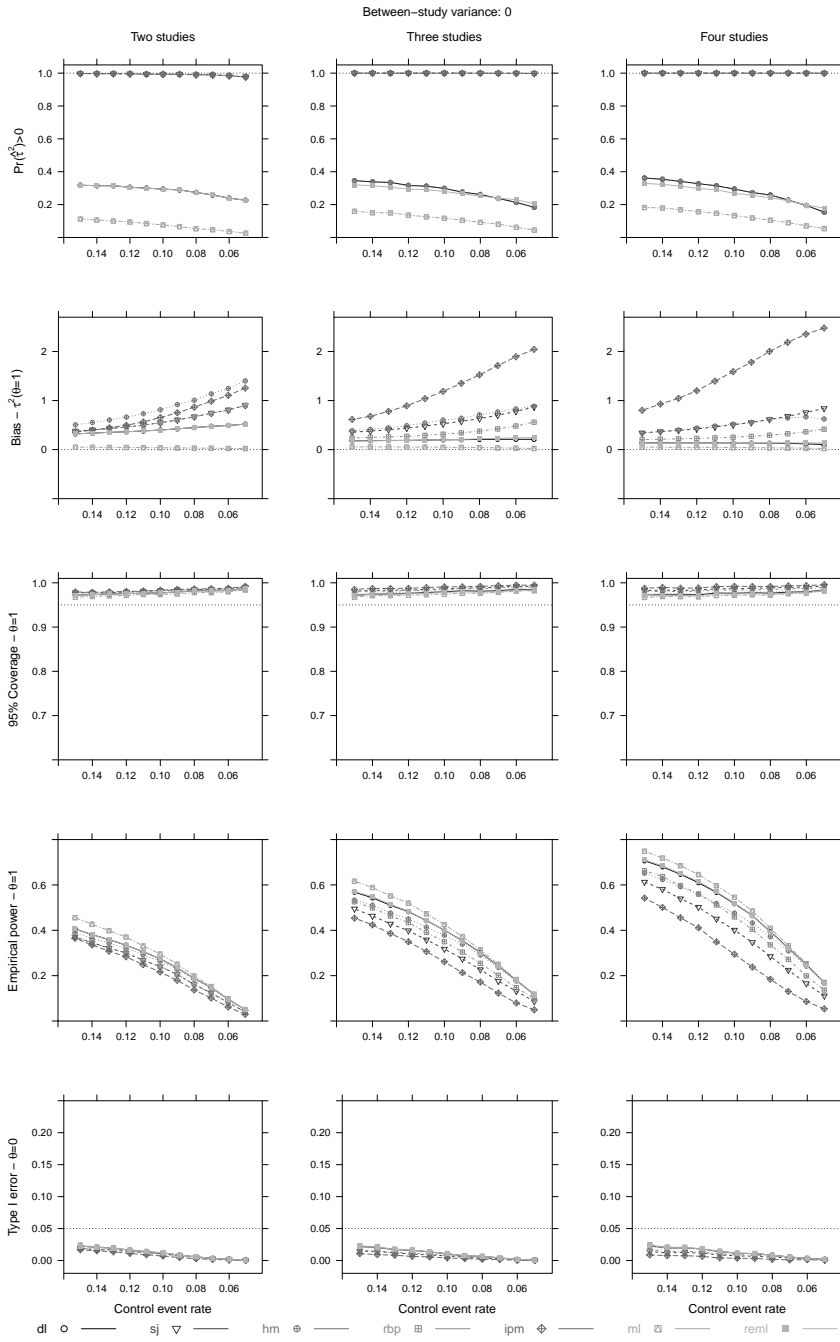
Figure 7: Main simulation scheme operational characteristics ($Pr(\hat{\tau}) > 0$, mean bias of τ, 95% coverage probability, empirical power and empirical type I error of θ) for a selected scenario of two to four studies with a constant continuity correction of 0.1. For abbreviations see Table 1 (Main manuscript).

Figure 8: Main simulation scheme operational characteristics ($Pr(\hat{\tau}) > 0$, mean bias of τ, 95% coverage probability, empirical power and empirical type I error of θ) for a selected scenario of two to four studies with a constant continuity correction of 0.1. For abbreviations see Table 1 (Main manuscript).
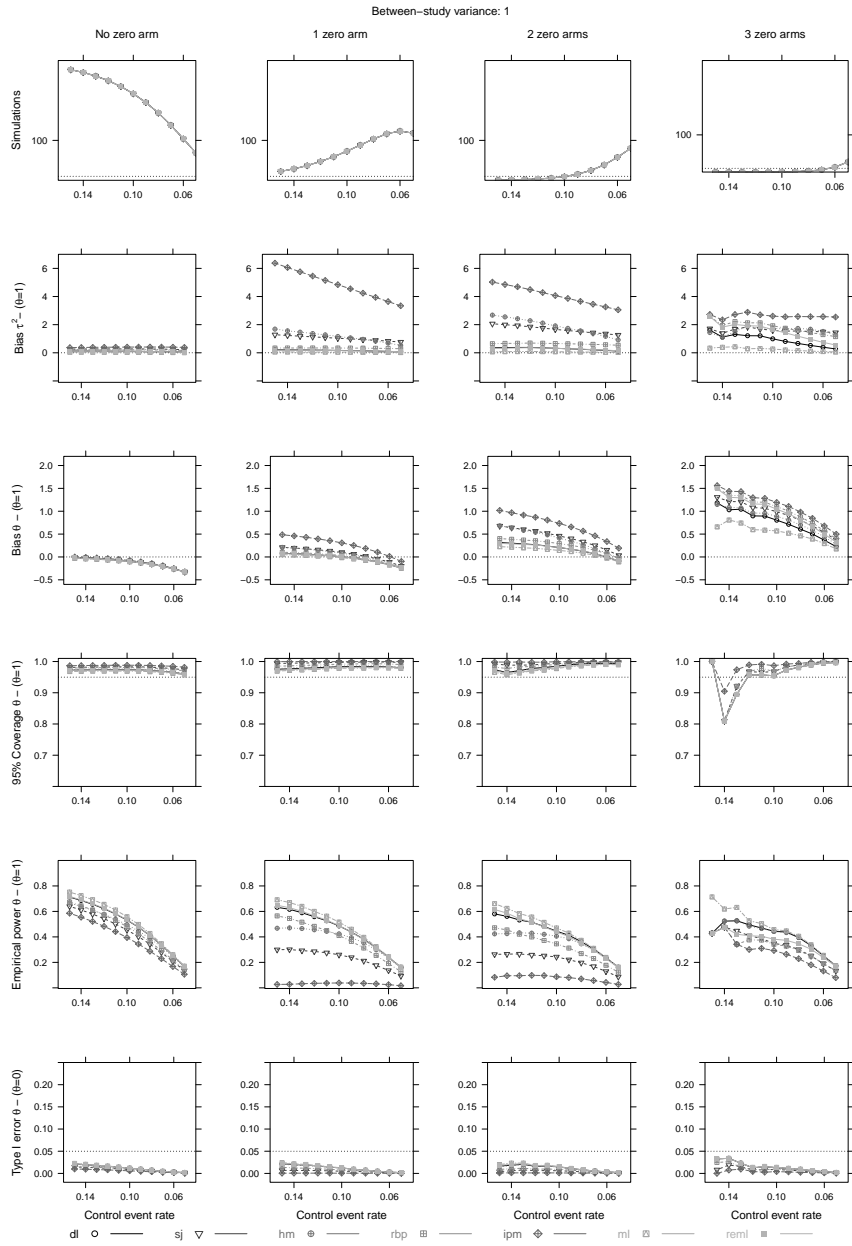
Figure 9: Conditional subset simulation scheme operational characteristics (Mean bias of τ, mean bias, 95% coverage probability, empirical power and empirical type I error of θ) for four studies and $\tau^2 = 2$ with a constant continuity correction of 0.1.. For abbreviations see Table 1 (Main manuscript). First row y-axis - 100: 100,000, 50: 50,000, 10: 10,000 simulations
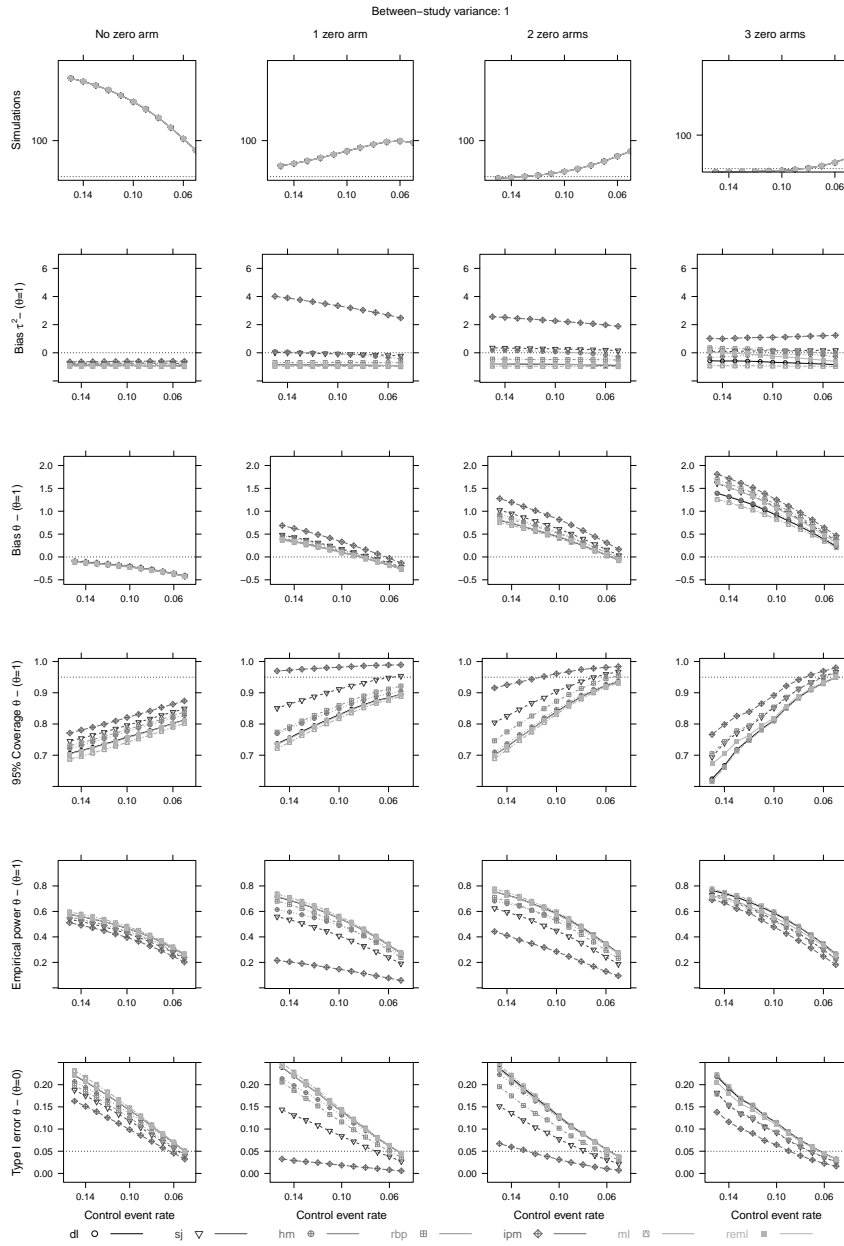
9

Figure 10: Conditional subset simulation scheme operational characteristics (Mean bias of τ, mean bias, 95% coverage probability, empirical power and empirical type I error of θ) for four studies and $\tau^2 = 2$ with a constant continuity correction of 0.1.. For abbreviations see Table 1 (Main manuscript). First row y-axis - 100: 100,000, 50: 50,000, 10: 10,000 simulations