

Supplementary Materials

Table S1. Results from the mixed_2 simulated data with $\Delta = -0.50$ by groups defined by the ratio of rapidly progressing patients in the drug and placebo arms.

$\Delta = -0.50$, High RP Ratio on Drug ($\geq 1.5\times$ more RP on drug, 27% of data sets)				
Analysis	Mean Δ^1	Mean SE ²	SD Δ^3	% Significant ⁴
MMRM	-0.3515	0.2121	0.1868	36.94
HL	-0.4347	0.2075	0.2001	55.06
RR	-0.5009	0.1775	0.1772	80.27
$\Delta = -0.50$, High RP Ratio on Placebo ($\geq 1.5\times$ more RP on placebo, 27% of data sets)				
Analysis	Mean Δ^1	Mean SE ²	SD Δ^3	% Significant ⁴
MMRM	-0.5901	0.2091	0.2059	81.64
HL	-0.5565	0.2090	0.2061	75.64
RR	-0.5293	0.1774	0.1814	84.13
$\Delta = -0.50$, Balanced RP Ratio ($<1.5\times$ more RP on drug and placebo, 46% of data sets)				
Analysis	Mean Δ^1	Mean SE ²	SD Δ^3	% Significant ⁴
MMRM	-0.4785	0.2127	0.1834	62.51
HL	-0.5017	0.2089	0.2020	67.41
RR	-0.5204	0.1780	0.1786	83.02
¹	Mean estimated treatment difference from the 10,000 data sets;			
²	Mean standard error of the treatment difference from the 10,000 data sets;			
³	Standard deviation of the estimated treatment differences from the 10,000 data sets;			
⁴	Percent of data sets with a statistically significant treatment difference ($\alpha = 0.05$).			