

Table S3 Computed sample size, estimated power, and simulated power for transformed Exponential predictors with $\{\beta_L, \beta_S\} = \{0.3, 1.3\}$, $\{\beta_{L0}, \beta_{S0}\} = \{0, 1\}$, $\sigma^2 = 1$, Type I error $\alpha = 0.05$, and nominal power $1 - \beta = 0.90$

μ_X	σ_X^2	N	Simulated power	Exact approach		Approximate method	
				Estimated power	Error	Estimated power	Error
0	0.5	99	0.8941	0.9025	0.0084	0.7524	-0.1417
	1	76	0.8831	0.9030	0.0199	0.6257	-0.2574
	2	53	0.8727	0.9050	0.0323	0.4602	-0.4125
0.5	0.5	56	0.9020	0.9055	0.0035	0.8430	-0.0590
	1	48	0.8874	0.9024	0.0150	0.7756	-0.1118
	2	38	0.8693	0.9006	0.0313	0.6604	-0.2089
1	0.5	35	0.9000	0.9013	0.0013	0.8682	-0.0318
	1	33	0.9061	0.9089	0.0028	0.8445	-0.0616
	2	28	0.8832	0.9016	0.0184	0.7689	-0.1143