

Table S6 Computed sample size, estimated power, and simulated power for transformed Uniform predictors with $\{\beta_L, \beta_S\} = \{0.3, 1.3\}$, $\{\beta_{I0}, \beta_{S0}\} = \{0, 1\}$, $\sigma^2 = 1$, 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	0.8971	0.9025	0.0054	0.7524	-0.1447
	1	76	0.9101	0.9030	-0.0071	0.6257	-0.2844
	2	53	0.9076	0.9050	-0.0026	0.4602	-0.4474
0.5	0.5	56	0.9078	0.9055	-0.0023	0.8430	-0.0648
	1	48	0.9000	0.9024	0.0024	0.7756	-0.1244
	2	38	0.9036	0.9006	-0.0030	0.6604	-0.2432
1	0.5	35	0.8990	0.9013	0.0023	0.8682	-0.0308
	1	33	0.9124	0.9089	-0.0035	0.8445	-0.0679
	2	28	0.8994	0.9016	0.0022	0.7689	-0.1305