Probability of Achieving Balance on ALL Covariates

Red = nearly impossible | Yellow = unlikely | Green = achievable

Sample Size per Group	1 covariates	5 covariates	10 covariates	15 covariates	20 covariates
n=1000 (N=2000)	97%	88%	77%	68%	60%
n=500 (N=1000)	89%	55%	30%	16%	9%
n=250 (N=500)	74%	22%	5%	1%	0.2%
n=100 (N=200)	52%	4%	0.1%	<0.1%	<0.1%
n=50 (N=100)	38%	0.8%	<0.1%	<0.1%	<0.1%
n=30 (N=60)	30%	0.2%	<0.1%	<0.1%	<0.1%

Number of Covariates to Balance