

Supplement table 2: Percent changes (and 95% confidence intervals) in the ratio of the target to actual sample size.

Database	group	label	PC	CI
ANZCTR	Status	Stopped early	-70.2	-71.5 to -68.8
		Withdrawn	-98.8	-99.2 to -98.2
clinicaltrials.gov	continuous	Double target sample size	-5.7	-5.9 to -5.5
		Double the number of arms	8.4	7.3 to 9.4
		Double the number of conditions	-1.3	-2.1 to -0.6
		Double the number of secondary outcomes	2.4	2.1 to 2.7
		Trend per 5 years	-4.3	-4.8 to -3.8
	Healthy volunteers	Yes	4.2	3.3 to 5.2
	Intervention	Radiation	-3.7	-6.3 to -1.0
	Phase	Early Phase 1	-12.0	-14.9 to -9.0
		Phase 1	-11.0	-12.1 to -9.9
		Phase 1/2	-8.6	-10.3 to -6.8
		Phase 2	-5.7	-6.7 to -4.7
	Sponsor	Industry	18.1	17.1 to 19.1
		NIH	-7.0	-9.8 to -4.1
		US Federal agencies	-10.3	-13.3 to -7.3
	Purpose	Health Services Research	10.4	7.8 to 13.0
		Prevention	6.4	5.1 to 7.7
		Screening	16.3	11.5 to 21.4
	Masking	Double	3.2	2.0 to 4.4
		Quadruple	4.2	2.9 to 5.5
		Single	3.3	2.1 to 4.5
	Assignment	Single group	-2.9	-4.0 to -1.9
	Allocation	Non-Randomized	-2.2	-3.4 to -1.0
	Status	Suspended	-64.5	-68.7 to -59.7
Terminated		-73.2	-73.5 to -72.9	
Withdrawn		-99.9	-99.9 to -99.9	

PC = percent change. CI = confidence interval. Variables selected using elastic net.

Reference groups are: Healthy volunteers = No; Phase = Phase 3; Sponsor = Other; Purpose = Treatment; Masking = Blinded; Assignment = Parallel; Status = Completed. All other variables are continuous or binary meaning the reference group is 'No'.