

Supplementary Material.

G\*Power 3.1.3

Central and noncentral distributions Protocol of power analyses

[7] -- Sunday, February 16, 2020 -- 11:43:41

t tests - Means: Difference between two dependent means (matched pairs)

Analysis: A priori: Compute required sample size

Input:

Tail(s)	=	Two
Effect size dz	=	0.81
α err prob	=	0.05
Power (1-β err prob)	=	0.95

Output:

Noncentrality parameter δ	=	3.7992368
Critical t	=	2.0796138
Df	=	21
Total sample size	=	22
Actual power	=	0.9515880

Test family: Statistical test: Means: Difference between two dependent means (matched pairs)

Type of power analysis: A priori: Compute required sample size - given α, power, and effect size

Input Parameters: Tail(s) Two, Effect size dz 0.81, α err prob 0.05, Power (1-β err prob) 0.95

Output Parameters: Noncentrality parameter δ 3.7992368, Critical t 2.0796138, Df 21, Total sample size 22, Actual power 0.9515880

X-Y plot for a range of values Calculate

G\*Power 3.1.3

Central and noncentral distributions Protocol of power analyses

[9] -- Sunday, February 16, 2020 -- 11:44:59

t tests - Means: Difference between two dependent means (matched pairs)

Analysis: A priori: Compute required sample size

Input:

Tail(s)	=	Two
Effect size dz	=	1.25
α err prob	=	0.05
Power (1-β err prob)	=	0.95

Output:

Noncentrality parameter δ	=	4.1457810
Critical t	=	2.2281389
Df	=	10
Total sample size	=	11
Actual power	=	0.9610499

Test family: Statistical test: Means: Difference between two dependent means (matched pairs)

Type of power analysis: A priori: Compute required sample size - given α, power, and effect size

Input Parameters: Tail(s) Two, Effect size dz 1.25, α err prob 0.05, Power (1-β err prob) 0.95

Output Parameters: Noncentrality parameter δ 4.1457810, Critical t 2.2281389, Df 10, Total sample size 11, Actual power 0.9610499

X-Y plot for a range of values Calculate

G\*Power 3.1.3

Central and noncentral distributions Protocol of power analyses

[10] -- Sunday, February 16, 2020 -- 11:45:48

t tests - Means: Difference between two dependent means (matched pairs)

Analysis: A priori: Compute required sample size

Input:

Tail(s)	=	Two
Effect size dz	=	1.22
α err prob	=	0.05
Power (1-β err prob)	=	0.95

Output:

Noncentrality parameter δ	=	4.0462822
Critical t	=	2.2281389
Df	=	10
Total sample size	=	11
Actual power	=	0.9530071

Test family: Statistical test: Means: Difference between two dependent means (matched pairs)

Type of power analysis: A priori: Compute required sample size - given α, power, and effect size

Input Parameters: Tail(s) Two, Effect size dz 1.22, α err prob 0.05, Power (1-β err prob) 0.95

Output Parameters: Noncentrality parameter δ 4.0462822, Critical t 2.2281389, Df 10, Total sample size 11, Actual power 0.9530071

X-Y plot for a range of values Calculate