

RCT Power Analysis - Centre for Injury Prevention and Community Safety

[1] -- Saturday, November 28, 2009 -- 20:12:35

t tests - Means: Difference between two independent means (two groups)

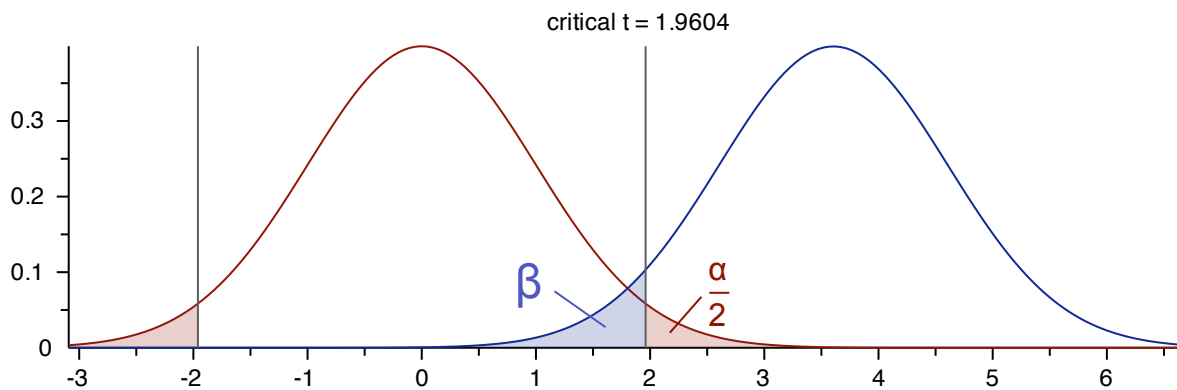
Analysis: A priori: Compute required sample size

Input:

Tail(s)	=	Two
Effect size d	=	0.5
α err prob	=	0.05
Power ($1-\beta$ err prob)	=	0.95
Allocation ratio N2/N1	=	1

Output:

Noncentrality parameter δ	=	3.622844
Critical t	=	1.971435
Df	=	208
Sample size group 1	=	105
Sample size group 2	=	105
Total sample size	=	210
Actual power	=	0.950129



RCT Power Analysis - Centre for Injury Prevention and Community Safety

[2] -- Saturday, November 28, 2009 -- 20:19:37

t tests - Means: Difference between two independent means (two groups)

Analysis: A priori: Compute required sample size

Input:

Tail(s)	=	Two
Effect size d	=	0.1
α err prob	=	0.05
Power ($1-\beta$ err prob)	=	0.95
Allocation ratio N2/N1	=	1

Output:

Noncentrality parameter δ	=	3.605551
Critical t	=	1.960420
Df	=	5198
Sample size group 1	=	2600
Sample size group 2	=	2600
Total sample size	=	5200
Actual power	=	0.950007

[3] -- Saturday, November 28, 2009 -- 20:21:17

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

Analysis: A priori: Compute required sample size

Input:

Tail(s)	=	Two
Effect size dz	=	0.1
α err prob	=	0.05
Power ($1-\beta$ err prob)	=	0.8

Output:

Noncentrality parameter δ	=	2.805352
Critical t	=	1.962987
Df	=	786
Total sample size	=	787
Actual power	=	0.800095

