

# (1) 2群

[1] -- Friday, June 01, 2018 -- 17:28:09

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  
 $\alpha$  err prob = 0.05  
Power (1- $\beta$  err prob) = 0.8  
Allocation ratio N2/N1 = 1  
**Output:** Noncentrality parameter  $\delta$  = 2.8284271  
Critical t = 1.9789706  
Df = 126  
Sample size group 1 = 64  
Sample size group 2 = 64  
Total sample size = 128  
Actual power = 0.8014596



[6] -- Friday, June 01, 2018 -- 17:28:56

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

**Analysis:** A priori: Compute required sample size  
**Input:** Tail(s) = Two  
→ Effect size d = 0.7  
 $\alpha$  err prob = 0.05  
→ Power (1- $\beta$  err prob) = 0.7  
Allocation ratio N2/N1 = 1  
**Output:** Noncentrality parameter  $\delta$  = 2.5719642  
Critical t = 2.0066468  
Df = 52  
Sample size group 1 = 27  
Sample size group 2 = 27  
→ Total sample size = 54  
Actual power = 0.7137135

[7] -- Friday, June 01, 2018 -- 17:29:09

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

**Analysis:** A priori: Compute required sample size  
**Input:** Tail(s) = Two  
→ Effect size d = 0.8  
 $\alpha$  err prob = 0.05  
→ Power (1- $\beta$  err prob) = 0.7  
Allocation ratio N2/N1 = 1  
**Output:** Noncentrality parameter  $\delta$  = 2.5922963  
Critical t = 2.0210754  
Df = 40  
Sample size group 1 = 21  
Sample size group 2 = 21  
→ Total sample size = 42  
Actual power = 0.7155555

## (2) 1群

[1] -- Friday, June 01, 2018 -- 17:30:52

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

Analysis: A priori: Compute required sample size  
Input: Tail(s) = Two  
Effect size dz = 0.5  
 $\alpha$  err prob = 0.05  
Power (1- $\beta$  err prob) = 0.8  
Output: Noncentrality parameter  $\delta$  = 2.9154759  
Critical t = 2.0345153  
Df = 33  
Total sample size = 34  
Actual power = 0.8077775

[6] -- Friday, June 01, 2018 -- 17:31:44

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

Analysis: A priori: Compute required sample size  
Input: Tail(s) = Two  
→ Effect size dz = 0.7  
 $\alpha$  err prob = 0.05  
→ Power (1- $\beta$  err prob) = 0.7  
Output: Noncentrality parameter  $\delta$  = 2.7110883  
Critical t = 2.1447867  
Df = 14  
→ Total sample size = 15  
Actual power = 0.7129024

[7] -- Friday, June 01, 2018 -- 17:31:48

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

Analysis: A priori: Compute required sample size  
Input: Tail(s) = Two  
→ Effect size dz = 0.8  
 $\alpha$  err prob = 0.05  
→ Power (1- $\beta$  err prob) = 0.7  
Output: Noncentrality parameter  $\delta$  = 2.7712813  
Critical t = 2.2009852  
Df = 11  
→ Total sample size = 12  
Actual power = 0.7136601