

G*Power 3.1.9.7

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Tests

Calculator

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Central and noncentral distributions

Protocol of power analyses

[4] -- Thursday, April 07, 2022 -- 09:56:21

F tests

– ANOVA: Fixed effects, omnibus, one-way

Analysis:

A priori: Compute required sample size

Input:

Effect size f = 0.55

α err prob = 0.05

Power ($1 - \beta$ err prob) = 0.95

Number of groups = 5

Output:

Noncentrality parameter λ = 21.1750000

Critical F = 2.5130401

Numerator df = 4

Denominator df = 65

Total sample size = 70

Actual power = 0.9612211

Clear

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Test family

F tests

Statistical test

ANOVA: Fixed effects, omnibus, one-way

Type of power analysis

A priori: Compute required sample size – given α , power, and effect size

Input Parameters

Determine =>

Effect size f

0.55

α err prob

0.05

Power ($1 - \beta$ err prob)

0.95

Number of groups

5

Output Parameters

Noncentrality parameter λ

21.1750000

Critical F

2.5130401

Numerator df

4

Denominator df

65

Total sample size

70

Actual power

0.9612211