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**Record: 2**

**Title:**

Evaluating the Risk in Sample Size Determination.

**Authors:**

De Martini, D.1 *demartin@eco.unipmn.it*

**Source:**

Communications in Statistics: Simulation & Computation; Oct2008, Vol. 37 Issue 9, p1776-1784, 9p, 2 charts, 3 graphs

**Document Type:**

Article

**Subject Terms:**

\*DECISION theory
\*MATHEMATICAL analysis
\*SAMPLING (Statistics)
\*DISTRIBUTION (Probability theory)
SAMPLE size
STANDARD deviations

**Author-Supplied Keywords:**

Convenient sample size
Loss function
Risk evaluation
Risk function

**NAICS/Industry Codes:**

NAICS/Industry Codes 541910 Marketing Research and Public Opinion Polling

**Abstract:**

This article considers experimental costs, besides power evaluation, in order to determine the sample size of an experiment. We focus on the use of standard tools of decision theory in the context of sample size determination. The loss function is defined, from the perspective of an experimenter which adopts the classical frequentist approach, and the risk function is computed. Then, we show the behavior of the risk function in the two-sample t-test, for a small sample experimental setting, with a medium-sized sample, and with large samples. Moreover, an objective criterion for a convenient sample size choice is introduced. Finally, a practical example of sample size determination, which also considers risk computation, is shown. [ABSTRACT FROM AUTHOR]

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**Record: 5**

**Title:**

SIZE DOES MATTER: HOW VARYING GROUP SIZES IN A SAMPLE AFFECT THE MOST COMMON MEASURES OF GROUP DIVERSITY.

**Authors:**

BIEMANN, TORSTEN1
KEARNEY, ERIC2

**Source:**

Academy of Management Proceedings; 2009, p1-6, 6p

**Document Type:**

Article

**Subject Terms:**

\*DIVERSITY in the workplace
\*RESEARCH
\*SELF-directed work teams
\*TEAMS in the workplace
\*WORK environment
\*MANAGEMENT science -- Research
METHODOLOGY
RESEARCH methodology evaluation
SAMPLE size
STATISTICAL bias

**Abstract:**

The article presents research on diversity among teams in the workplace, diversity being defined as the presence within the group of varying skills, information and experience which contribute to group performance, differences in attitude, and discrepancies among members in salaries or status within the organization. A statistical bias is found in research on team diversity which tends to underestimate the amount of diversity contained in smaller groups. Means of correcting this bias are discussed.

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<A href="http://search.ebscohost.com/login.aspx?direct=true&db=buh&AN=44246463&loginpage=Login.asp&site=ehost-live">SIZE DOES MATTER: HOW VARYING GROUP SIZES IN A SAMPLE AFFECT THE MOST COMMON MEASURES OF GROUP DIVERSITY.</A>

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**Record: 4**

**Title:**

Sample Size Calculation for the van Elteren Test Adjusting for Ties.

**Authors:**

Zhao, Yan D.1 *yzhao@lilly.com*
Rahardja, Dewi2
Mei, Yajun3

**Source:**

Journal of Biopharmaceutical Statistics; Nov/Dec2008, Vol. 18 Issue 6, p1112-1119, 8p, 3 charts

**Document Type:**

Article

**Subject Terms:**

\*SAMPLING (Statistics)
\*RESEARCH
\*STATISTICS
SAMPLE size
METHODOLOGY
CONFIDENCE intervals

**Author-Supplied Keywords:**

Adjusting for ties
Ordinal data
Power calculation
Sample size calculation
Van Elteren test

**NAICS/Industry Codes:**

NAICS/Industry Codes 541910 Marketing Research and Public Opinion Polling

**Abstract:**

In this article we study sample size calculation methods for the asymptotic van Elteren test. Because the existing methods are only applicable to continuous data without ties, in this article we develop a new method that can be used on ordinal data. The new method has a closed form formula and is very easy to calculate. The new sample size formula performs very well because our simulations show that the corresponding actual powers are close to the nominal powers. [ABSTRACT FROM AUTHOR]

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<A href="http://search.ebscohost.com/login.aspx?direct=true&db=buh&AN=35141086&loginpage=Login.asp&site=ehost-live">Sample Size Calculation for the van Elteren Test Adjusting for Ties.</A>

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**Record: 1**

Sample Size Re-Estimation for Adaptive Sequential Design in Clinical Trials. By: Ping Gao; Ware, James H.; Mehta, Cyrus. Journal of Biopharmaceutical Statistics, Nov/Dec2008, Vol. 18 Issue 6, p1184-1196, 13p, 2 charts, 3 graphs; Abstract: There is considerable interest in methods that use accumulated data to modify trial sample size. However, sample size re-estimation in group sequential designs has been controversial. We describe a method for sample size re-estimation at the penultimate stage of a group sequential design that achieves specified power against an alternative hypothesis corresponding to the current point estimate of the treatment effect. [ABSTRACT FROM AUTHOR]; DOI: 10.1080/10543400802369053; (*AN 35141096*)

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