**Business Source Premier web site**

http://web.ebscohost.com/ehost/search?vid=1&hid=7&sid=5ffe246f-c530-4b10-8281-2ad0ae105548%40sessionmgr14

**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]

*Copyright of Communications in Statistics: Simulation & Computation is the property of Taylor & Francis Ltd and its content may not be copied or emailed to multiple sites or posted to a listserv without the copyright holder's express written permission. However, users may print, download, or email articles for individual use. This abstract may be abridged. No warranty is given about the accuracy of the copy. Users should refer to the original published version of the material for the full abstract.* (Copyright applies to all Abstracts.)

**Author Affiliations:**

1Dipartimento SEMEQ, Università del Piemonte Orientale "A. Avogadro", Novara, Italy

**ISSN:**

0361-0918

**DOI:**

10.1080/03610910802296505

**Accession Number:**

34555422

**Persistent link to this record (Permalink):**

<http://search.ebscohost.com/login.aspx?direct=true&db=buh&AN=34555422&loginpage=Login.asp&site=ehost-live>

**Cut and Paste:**

<A href="http://search.ebscohost.com/login.aspx?direct=true&db=buh&AN=34555422&loginpage=Login.asp&site=ehost-live">Evaluating the Risk in Sample Size Determination.</A>

**Database:**

Business Source Premier

The link information above provides a persistent link to the article you've requested.  
  
Persistent link to this record: Following the link above will bring you to the start of the article or citation.  
  
Cut and Paste: To place article links in an external web document, simply copy and paste the HTML above, starting with "<A HREF"  
  
If you have any problems or questions, contact Technical Support at <http://support.epnet.com/contact/askus.php> or call 800-758-5995.  
  
This e-mail was generated by a user of EBSCOhost who gained access via the CAREER EDUCATION CORP ONLINE EDUCATION GROUP account. Neither EBSCO nor CAREER EDUCATION CORP ONLINE EDUCATION GROUP is responsible for the content of this e-mail.

**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.

**Author Affiliations:**

1Jacobs University Bremen, Jacobs Center on Lifelong Learning and Institutional Development, Campus Ring 1, 28759 Bremen, Germany  
2Jacobs University Bremen

**Accession Number:**

44246463

**Persistent link to this record (Permalink):**

<http://search.ebscohost.com/login.aspx?direct=true&db=buh&AN=44246463&loginpage=Login.asp&site=ehost-live>

**Cut and Paste:**

<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>

**Database:**

Business Source Premier

The link information above provides a persistent link to the article you've requested.  
  
Persistent link to this record: Following the link above will bring you to the start of the article or citation.  
  
Cut and Paste: To place article links in an external web document, simply copy and paste the HTML above, starting with "<A HREF"  
  
If you have any problems or questions, contact Technical Support at <http://support.epnet.com/contact/askus.php> or call 800-758-5995.  
  
This e-mail was generated by a user of EBSCOhost who gained access via the CAREER EDUCATION CORP ONLINE EDUCATION GROUP account. Neither EBSCO nor CAREER EDUCATION CORP ONLINE EDUCATION GROUP is responsible for the content of this e-mail.

**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]

*Copyright of Journal of Biopharmaceutical Statistics is the property of Taylor & Francis Ltd and its content may not be copied or emailed to multiple sites or posted to a listserv without the copyright holder's express written permission. However, users may print, download, or email articles for individual use. This abstract may be abridged. No warranty is given about the accuracy of the copy. Users should refer to the original published version of the material for the full abstract.* (Copyright applies to all Abstracts.)

**Author Affiliations:**

1Lilly Research Laboratories, Eli Lilly and Company, Indianapolis, Indiana, USA  
2Department of Statistical Science, Baylor University, Waco, Texas, USA  
3School of Industrial and Systems Engineering, Georgia Institute of Technology, Atlanta, Georgia, USA

**ISSN:**

1054-3406

**DOI:**

10.1080/10543400802369020

**Accession Number:**

35141086

**Persistent link to this record (Permalink):**

<http://search.ebscohost.com/login.aspx?direct=true&db=buh&AN=35141086&loginpage=Login.asp&site=ehost-live>

**Cut and Paste:**

<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>

**Database:**

Business Source Premier

The link information above provides a persistent link to the article you've requested.  
  
Persistent link to this record: Following the link above will bring you to the start of the article or citation.  
  
Cut and Paste: To place article links in an external web document, simply copy and paste the HTML above, starting with "<A HREF"  
  
If you have any problems or questions, contact Technical Support at <http://support.epnet.com/contact/askus.php> or call 800-758-5995.  
  
This e-mail was generated by a user of EBSCOhost who gained access via the CAREER EDUCATION CORP ONLINE EDUCATION GROUP account. Neither EBSCO nor CAREER EDUCATION CORP ONLINE EDUCATION GROUP is responsible for the content of this e-mail.

**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*)

**Persistent link to this record (Permalink):**

<http://search.ebscohost.com/login.aspx?direct=true&db=buh&AN=35141096&site=ehost-live>

**Cut and Paste:**

<A href="http://search.ebscohost.com/login.aspx?direct=true&db=buh&AN=35141096&site=ehost-live">Sample Size Re-Estimation for Adaptive Sequential Design in Clinical Trials.</A>

**Database:**

Business Source Premier

The link information above provides a persistent link to the article you've requested.  
  
Persistent link to this record: Following the link above will bring you to the start of the article or citation.  
  
Cut and Paste: To place article links in an external web document, simply copy and paste the HTML above, starting with "<A HREF"  
  
If you have any problems or questions, contact Technical Support at <http://support.epnet.com/contact/askus.php> or call 800-758-5995.  
  
This e-mail was generated by a user of EBSCOhost who gained access via the CAREER EDUCATION CORP ONLINE EDUCATION GROUP account. Neither EBSCO nor CAREER EDUCATION CORP ONLINE EDUCATION GROUP is responsible for the content of this e-mail.