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Bayesian Sample Size

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Determination For

Here, we develop methods for sample size determination for odds ratios in the presence of exposure misclassification by using several interval-based Bayesian criteria. By using a series of prototypical examples, we compare sample size requirements after adjustment for misclassification with those required

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when this problem is ignored.

Bayesian Sample Size Determination for Case-Control ...

With the growing popularity of Bayesian statistics (Van de Schoot et al., 2017), it is important tools for sample-size determination in the Bayesian framework become available. In this

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manuscript, we developed software to calculate sample sizes within the framework of Bayesian t test and Bayesian Welch's test hypotheses using time-efficient algorithms.

Sample-size determination for the Bayesian t test and ...

After incorporating the prior information

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of the treatment effects, the Bayesian sample size is the number of patients of the Phase III trial for a given Bayesian Predictive Power (BPP) or Bayesian Historical Predictive Power (BHPP).

Bayesian sample size determination for a Phase III ...

3 Description of sample size

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determination algorithm. The sample size determination method uses a Monte Carlo simulation approach to generate data randomly selected from the design priors for a fixed n and to analyze the data using the proposed model. This is repeated for multiple sample sizes and in most cases the smallest sample size for which some optimality criteria has

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been achieved is selected as the preferred sample size.

Bayesian sample size determination for cost-effectiveness ...

A Bayesian Approach for Sample Size Determination in Method Comparison Studies Kunshan Yina, Pankaj K. Choudharya;1, Diana Vargheseb and

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Steven R. Goodman^a Department of Mathematical Sciences
^bDepartment of Molecular and Cell Biology University of Texas at Dallas
Abstract Studies involving two methods for measuring a continuous response are regularly

A Bayesian Approach for Sample Size Determination in ...

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case of Bayesian sample size determination, the marginal or prior-predictive distribution is used which is the mixture of the sampling distribution of the data and the prior distribution of the unknown parameters (M'lan et al., 2008). In this context, the minimal sample size determination using three different Bayesian approaches

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Contrast of Bayesian and Classical Sample Size Determination

The problem of sample size determination in the context of Bayesian analysis, decision theory and quality management is considered. For the familiar, and practically important, parameter of a binom...

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Sample Size Determination in Bayesian Analysis - Pham-Gia ...

As the sample size goes up, impact of this prior belief is minimized. A common method in Bayesian inference is to use the uninformed prior. This means that we are assuming equal likelihood for all the events. For a binomial distribution

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we can use beta distribution to model our prior belief.

Reliability/Sample Size Calculation Based on Bayesian ...

Bayesian Sample Size Determination99 models and for a given choice criterion, we search for the minimal number of observations for which the correct model

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is likely to be selected. For details on this topic, see, among others, Weiss (1997), Wang and Gelfand (2002) and De Santis (2004). 2.2.

Using historical data for Bayesian sample size determination

propdiff.mblacc Bayesian sample size determination for the difference

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between two binomial proportions using the Mixed Bayesian/Likelihood Average Coverage Criterion Description The function `propdiff.mblacc` returns the required sample sizes to reach a given coverage probability on average for a posterior credible interval of fixed length using a mixed Bayesian/likelihood approach for the difference between two

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binomial proportions.

Package 'SampleSizeProportions'

A Bayesian average power criterion is used to determine a sample size that will yield high posterior probability, on average, of a future study correctly deciding in favor of these goals.

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A Bayesian approach to sample size determination for ...

In determining sample sizes in intervention research, a Bayesian framework offers certain advantages. Differing from the more common frequentist perspective on probability, a Bayesian perspective incorporates data from prior studies into the design and

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development process.

A Bayesian Approach to Sample Size Estimation and the ...

Many Bayesian approaches have been proposed for sample-size determination in single-arm or two-arm trials with a dichotomous or binary primary endpoint, eg, responded (success) or not

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(failure)², 5, 16.

Bayesian sample-size determination methods considering ...

Sample size determination (SSD) is a crucial component in the design of experiments and clinical trials. There is a substantial literature on frequentist SSD approaches (Kraemer and Thiemann

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1987, Cohen 1988, Desu and Raghavarao 1990). The two issues of The Statistician(44 (2) 1995, 46 (2) 1997) presented a summary of the work on Bayesian SSD.

Comparison of Bayesian Sample Size Criteria: ACC, ALC, and WOC

Using historical data for Bayesian

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sample size determination Author: Fulvio De Santis, J. R. Statist. Soc. A (2007) 170, Part 1, pp. 95-113 Harvard Catalyst Journal Club: December 7th 2016 Kush Kapur, PhD •

Using historical data for Bayesian sample size determination

The function `propdiff.mblmodwoc` uses a

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mixed Bayesian/likelihood approach to determine conservative sample sizes for the difference between two binomial proportions, in the sense that the desired posterior credible interval coverage and length are guaranteed over a given proportion of data sets that can arise according to the prior information.

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propdiff.mblmodwoc: Bayesian sample size determination for ...

Bayesian methods were used to obtain a sample size in a trial comparing intravenous immunoglobulin and plasmapheresis in treating Guillain-Barré syndrome in children. 21 The authors showed that using standard methods to

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obtain a sample size for their noninferiority design would have required a sample size beyond what was reasonably feasible.

Standard 4: Determining Adequate Sample Sizes | American ...

In addition, a full Bayesian ap ...
Methods for determining sample size

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requirements for cost-effectiveness studies are reviewed and illustrated. Traditional methods based on tests of hypothesis and power arguments are given for the incremental cost-effectiveness ratio and incremental net benefit (INB). In addition, a full Bayesian ap ...

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Sample Size Determination for Cost-Effectiveness Trials ...

Sample size determination is the process of determining the appropriate number of subjects to include in a study. The appropriate sample size is defined as the minimum sample size required to achieve an acceptable chance of achieving a statistical criterion of

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interest (e.g. statistical significance, maximum interval width) for a proposed study.

Solved - Sample Size Questions Answered - Sample Size FAQs

Using assurance also known as Bayesian Power, you can integrate prior uncertainty about the effect size or other

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parameters to gain a more complete understanding of your sample size estimate and trial design. These priors can be elicited and then integrated into frameworks such as the Sheffield Elicitation Framework (SHELF).

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