

Statistical treatment of analytical data

Blackwell Science - Selection of Appropriate Statistical Methods for Data Analysis

Method	Computational and statistical complexity	Potential problems
Two-stage subgroup analysis	Low. Requires only standard meta-analysis techniques and interaction tests. Available in several meta-analysis packages (eg, Comprehensive Meta-Manager which requires preprocessing of PICO studies within trial and GRADE). Possible in most statistical packages (eg, J, Stata).	High. Limited statistical power. Potential for aggregation bias. Probable loss of data in some subgroup categories.
Two-stage combining within-trial regression coefficients [3], [15]	Moderate. Requires regression models estimating treatment effect and treatment-covariate interaction in each trial, and meta-analysis. Possible in statistical packages with regression and meta-analysis facilities (J, Stata).	Low. Intermediate statistical power. Eliminates potential aggregation bias.
Simple one-stage regression [8]	Moderate to high. Requires some experience in fitting regression models. Possible in J, Stata, SAS or equivalent.	Moderate. Normal statistical power. Potential for aggregation bias.
Complex one-stage regression (eg, separating within- and across-trial information [17], [18])	High. Requires expertise in fitting mixed-effect regression models and programming ability in J, Stata, SAS or equivalent. May require specialist software such as WinBUGS. Statistical support is recommended.	Low. Intermediate to high statistical power. Eliminates aggregation bias if only within-trial information considered.

Description: -

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 Medical care -- Law and legislation -- United States.
 Pensions -- Law and legislation -- United States.
 Romance: Modern
 Dissenters, Religious -- England -- History -- 19th century.
 Chemometrics
 Statistical treatment of analytical data
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 Notes: Includes bibliographical references and index
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What's The Difference Between Statistical Analysis And Data Analysis?

It means that in rejecting the datum the experimentalist will be right an average of 9 times out of 10, or that the chances of the point actually being bad are 90%. Precision refers to the degree of agreement among repeated measurements or how closely two or more measurements agree with each other.

Basic statistical tools in research and data analysis

Ordinal variables have a clear ordering between the variables. Unless otherwise noted, LibreTexts content is licensed by. It is up to you to select the level of confidence you wish to use.

3 Types Of Statistical Data Analysis

However, with greater care during measurements and with the application of more experimental methods, we can reduce the errors and, thereby gain better confidence that the measurements are closer to the true value.

Statistical Treatment

Illustration: A measurement of volume using a graduated measuring cylinder with 1-mL graduation markings will be reported with a precision of ± 0.0 . Suppose we want to compare the diastolic blood pressure DBP between three age groups years 50.

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