

# 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-analytic packages (e.g., Cochrane Review Manager) which requires preprocessing of IPD analyses within trials and SHARP, Possible in most statistical packages (e.g., R, Stata).	High Limited statistical power. Potential for aggregation bias if trials lack data in some subgroup categories.
Two-stage combining within trial	Moderate Requires regression models estimating treatment effect and treatment-regression coefficients [8,18]	Low Intermediate statistical power. Intermediate potential for aggregation bias.
Simple one-stage regression [8]	Moderate to high Requires some experience in fitting regression models. Possible in R, Stata, SPSS or equivalents.	Moderate Limited statistical power. Potential for aggregation bias.
Complex one-stage regression [8,18]	High Requires expertise in fitting mixed-effect regression models and specifying within and between trial programming ability in R, Stata, SPSS or equivalents. May require specialized software such as WinBUGS. Statistical support is recommended.	Low Intermediate to high statistical power. Intermediate potential for aggregation bias if only within trial information considered.

Description: -

- Medical care -- Law and legislation -- United States.

Pensions -- Law and legislation -- United States.

Romance: Modern

Dissenters, Religious -- England -- History -- 19th century.

ChemometricsStatistical treatment of analytical data

-Statistical treatment of analytical data

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  $\pm 0$ . Suppose we want to compare the diastolic blood pressure DBP between three age groups years 50.

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## Related Books

- [Shāfi‘ī wa-maqāsid al-shari‘ah](#)
- [Our branch of the Branch family tree - Erastus G. Sr. and Emily Sophia Branch](#)
- [Being Lehigh - an essay in photographs](#)
- [Wajīz fī nazarīyat al-iltzām - maṣādir al-iltzāmāt wa aḥkāmuḥā fī al-qānūn al-madani](#)
- [International Conference on Thermal Infrared Sensing for Diagnostics and Control \(Thermosense VII\) -](#)