

Review Article

Basic statistical tools in research and data analysis

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ABSTRACT

Statistical methods involved in carrying out a study include planning, designing, collecting data, analysing, drawing meaningful interpretation and reporting of the research findings. The statistical analysis gives meaning to the meaningless numbers, thereby breathing life into a lifeless data. The results and inferences are precise only if proper statistical tests are used. This article will try to acquaint the reader with the basic research tools that are utilised while conducting various studies. The article covers a brief outline of the variables, an understanding of quantitative and qualitative variables and the measures of central tendency. An idea of the sample size estimation, power analysis and the statistical errors is given. Finally, there is a summary of parametric and non-parametric tests used for data analysis.

Key words: Basic statistical tools, degree of dispersion, measures of central tendency, parametric tests and non-parametric tests, variables, variance

INTRODUCTION

Statistics is a branch of science that deals with the collection, organisation, analysis of data and drawing of inferences from the samples to the whole population.^[1] This requires a proper design of the study, an appropriate selection of the study sample and choice of a suitable statistical test. An adequate knowledge of statistics is necessary for proper designing of an epidemiological study or a clinical trial. Improper statistical methods may result in erroneous conclusions which may lead to unethical practice.^[2]

VARIABLES

Variable is a characteristic that varies from one individual member of population to another individual.^[3] Variables such as height and weight are measured by some type of scale, convey quantitative information and are called as quantitative variables. Sex and eye colour give qualitative information and are called as qualitative variables^[4] [Figure 1].

Quantitative variables

Quantitative or numerical data are subdivided into discrete and continuous measurements. Discrete

numerical data are recorded as a whole number such as 0, 1, 2, 3,... (integer), whereas continuous data can assume any value. Observations that can be counted constitute the discrete data and observations that can be measured constitute the continuous data. Examples of discrete data are number of episodes of respiratory arrests or the number of re-intubations in an intensive care unit. Similarly, examples of continuous data are the serial serum glucose levels, partial pressure of oxygen in arterial blood and the oesophageal temperature.

A hierarchical scale of increasing precision can be used for observing and recording the data which is based on categorical, ordinal, interval and ratio scales [Figure 1].

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Basic Tools Of Research

Shimpock



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Readings in Population Research Methodology: Basic tools United Nations Population Fund, 1993 **Fundamental Approach to Research Methodology: Key Concepts and Techniques** Dr. Nagla Hussein Mohamed Khalid, Dr. Vipul A Shah, Prashanth Kambli, Dr. Mohammad Chand Jamali, 2024-10-23

Fundamental Approach to Research Methodology Key Concepts and Techniques is a structured introduction to the art and science of research. This book covers the fundamental principles, practical techniques, and ethical considerations necessary for conducting systematic and meaningful research. Divided into eight comprehensive chapters, it begins with a foundational overview of research, exploring its objectives, types, and the critical role it plays across various disciplines. From there, readers are guided through the process of designing research, formulating research questions, selecting appropriate data collection methods, and understanding sampling techniques. Data analysis, both qualitative and quantitative, is covered with explanations of relevant software tools and visualization techniques that aid in interpreting and presenting findings. Additionally, the book addresses the essential components of a research report, including structuring, formatting, and effective referencing to ensure clear and professional communication of findings. The book also delves into advanced research practices, such as case studies, mixed methods approaches, and action research, catering to the needs of both novice and experienced researchers. The final chapters focus on common challenges, emerging trends, and the ethical and social implications of modern research, equipping readers to adapt to the evolving landscape of research. Ideal for students, educators, and professionals, this book is a valuable resource for anyone aiming to conduct research with integrity and depth.

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