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Introduction; 2.2 Populations; 2.3 Counting things - the sampling unit; 2.4 Sampling strategy; 2.5 Target and study populations; 2.6 Sample designs; 2.7 Simple random sampling; 2.8 Systematic sampling; 2.9 Stratified sampling; 2.10 Quota sampling; 2.11 Cluster sampling 2.12 Sampling designs - summary 2.13 Statistics and parameters; 2.14 Descriptive and inferential statistics; 2.15 Parametric and non-parametric statistics; 3 PROCESSING DATA; 3.1 Scales of measurement; 3.2 The nominal scale; 3.3 The ordinal scale; 3.4 The interval scale; 3.5 The ratio scale; 3.6 Conversion of interval observations to an ordinal scale; 3.7 Derived variables; 3.8 Logarithms; 3.9 The precision of observations; 3.10 How precise should we be?; 3.11 The frequency table; 3.12 Aggregating frequency classes; 3.13 Frequency distribution of count observations; 3.14 Bivariate data 4 PRESENTING DATA 4.1 Introduction; 4.2 Dot plot or line plot; 4.3 Bar graph; 4.4 Histogram; 4.5 Frequency polygon and frequency curve; 4.6 Scattergram; 4.7 Circle or pie graph; 5 CLINICAL TRIALS; 5.1 Introduction; 5.2 The nature of clinical trials; 5.3 Clinical trial designs; 5.4 Psychological effects and blind trials; 5.5 Historical controls; 5.6 Ethical issues; 5.7 Case study: Leicestershire Electroconvulsive Therapy (ECT) study; 5.8 Summary; 6 INTRODUCTION TO EPIDEMIOLOGY; 6.1 Introduction; 6.2 Measuring disease; 6.3 Study designs - cohort studies; 6.4 Study designs - case-control studies 6.5 Cohort or case-control study? 6.6 Choice of comparison group; 6.7 Confounding; 6.8 Summary; 7 MEASURING THE AVERAGE; 7.1 What is an average?; 7.2 The mean; 7.3 Calculating the mean of grouped data; 7.4 The median - a resistant statistic; 7.5 The median of a frequency distribution; 7.6 The mode; 7.7 Relationship between mean, median and mode; 8 MEASURING VARIABILITY; 8.1 Variability; 8.2 The range; 8.3 The standard deviation; 8.4 Calculating the standard deviation; 8.5 Calculating the standard deviation from grouped data; 8.6 Variance 8.7 An alternative formula for calculating the variance and standard deviation 8.8 Obtaining the standard deviation and sum of squares from a calculator; 8.9 Degrees of freedom; 8.10 The Coefficient of Variation (CV); 9 PROBABILITY AND THE NORMAL CURVE; 9.1 The meaning of probability; 9.2 Compound probabilities; 9.3 Critical probability; 9.4 Probability distribution; 9.5 The normal curve; 9.6 Some properties of the normal curve; 9.7 Standardizing the normal curve; 9.8 Two-tailed or one-tailed?; 9.9 Small samples: the t-distribution; 9.10 Are our data 'normal' ? 9.11 Dealing with 'non-normal' data

Sommario/riassunto

Nursing is a growing area of higher education, in which an introduction to statistics is an essential component. There is currently a gap in the market for a 'user-friendly' book which is contextualised and targeted for nursing. Practical Statistics for Nursing and Health Care introduces statistical techniques in such a way that readers will easily grasp the fundamentals to enable them to gain the confidence and understanding to perform their own analysis. It also provides sufficient advice in areas such as clinical trials and epidemiology to enable the reader to critically appraise work published
