

## Evidence-Based Dentistry Resources

Information Sheet No: EI001

Issue Date: February 2010

Updated: May 2010

**Note** the following resources are available in the ADAVB Reading Room:

**Title**            **How to read a paper: the basics of evidence-based medicine**  
**Author/s**       Greenhaigh, Trisha  
**Edition**         3rd edition  
**Details**         Oxford, Eng. ; Malden, Mass. : BMJ, 2006

### Abstract

Contents: Why read papers at all? - Searching the literature - Getting your bearings: what is this paper about? - Assessing methodological quality - Statistics for the non-statistician - Papers that report drug trials - Papers that report diagnostic or screening tests - Papers that summarise other papers (systematic reviews and meta-analyses) - Papers that tell you what to do (guidelines) - Papers that tell you what things cost (economic analyses) - Papers that go beyond numbers (qualitative research) - Papers that report questionnaire research - Getting evidence into practice - Appendix 1: Checklists for finding, appraising and implementing evidence - Appendix 2: Assess the effects of an intervention

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**Title**            **Research Writing in Dentistry**  
**Author/s**       Fraunhofer  
**Details**         Blackwell Publishing, 2010

**Contents:** Part I: Organizing, writing, and performing dental research – Introduction – What is Research? – Research Planning – Performing Research – How to Design a Research Study – Non-Bench Research – Sources of Error and Avoiding the “Whoops” Factor – Reports, Theses, Dissertations, and Scientific Papers – Introduction and Literature Review – Methods and Materials (Experimental) – Results – The Discussion – Conclusions – The Abstract – Writing Style and Technique – Getting Published. Part II: Statistics and Statistical Analysis – Basic Statistics – Data and Data Distributions – Averages (Measures of Central Tendency) – Measures of Dispersion – Probability of the Normal Curve – Presentation of Data – Comparing Sample Means – Student’s t-Test – Analysis of Variance – Power of Analysis – Multiple Comparisons – Chi-Square Test – Correlation of Regression – Weibull Analysis – Ranking Tests. Appendix: Further Reading.

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**Title**            **Health research methodology: a guide for training in research methods**  
**Author/s**       World Health Organization (WHO). Regional Office for the Western Pacific  
**Edition**         2nd edition  
**Details**         Manila: WHO, 2001

**Contents:** Introduction to research - Research strategies and design - Descriptive epidemiological studies - Experimental studies and clinical trials - Sampling methods and sampling size - Bias and confounding - Basic risk measurement - Tests of significance - Association and causation - Ethical aspects of health research - Construction of a research proposal - Annex 1: Questionnaire design - Annex 2: Descriptive statistics: Table, graphs, and charts - Annex 3: Organization of a workshop on research methods in health sciences

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**Title**            **Dental statistics made easy**  
**Author/s**        Smeeton, Nigel  
**Details**          Oxford: Radcliffe Publishing, 2005

**Contents:** Introduction - Planning a study - Types of study in dental research - Sampling - Randomised controlled trials - Ethical considerations - The Normal Distribution - Diagnostic tests - Sampling variation - Introduction to hypothesis tests - Comparing two means - Dealing with proportions and categorical data - Regression, correlation and agreement - Non-normally distributed data - The choice of sample size - Statistical refereeing.

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**Title**            **Health science research: a handbook of quantitative methods**  
**Author/s**        Peat, Jennifer K. ; Mellis, Craig ; Williams, Katrina ; Xuan, Wei  
**Details**          London: Sage Publications, 2002

**Contents:** Reviewing the literature - Planning the study - Choosing the measurements - Calculating the sample size - Conducting the study - Analysing the data - Reporting the results - Appraising research protocols.

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**Title**            **Evidence-based decision making: a translational guide for dental professionals**  
**Author/s**        Forrest, JL. ; Miller, SA. ; Overman, PR. ; Newman, MG.  
**Details**          Philadelphia: Lippincott, Williams & Wilkins, 2009

**Contents:** Introduction to evidence-based decision making - PICO: Asking good questions - Research design and sources of evidence - Levels of evidence - Finding the evidence: Using PICO to guide the search - Critical appraisal of the evidence - Evaluating we-based health information - Applying the evidence to practice - Evaluating the process and your performance

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**Title**            **Practicing research: discovering evidence that matters**  
**Author/s**        Fink, Arlene  
**Details**          Thousand Oaks, Calif. : SAGE Publications, 2008

**Contents:** The evaluation research and evidence-based practice partnership - The research consumer as detective: Investigating program and bibliographic databases - The practical research consumer - The designing research consumer - The research consumer reviews the measures - The research consumer evaluates measurement reliability and validity - Getting closer: Grading the literature and evaluating the strength of the evidence - The ethical research consumer assesses needs and evaluates improvement

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**Title** **Interpreting and reporting clinical trials: a guide to the CONSORT statement and the principles of randomised controlled trials**

**Author/s** Keech, Anthony ; Gebski, Val ; Pike, Rhana

**Details** Sydney: Australasian Medical Publishing Company, 2007

**Contents:** Randomised controlled trials: elements of a good study - Introducing the report of a randomised controlled trial : the title, abstract, scientific background and rationale - Selecting participants for clinical trials - Specifying interventions in a clinical trial - Specifying objectives and outcomes for clinical trials - Determining the sample size in a clinical trial - Managing the resource demands of a large sample size in clinical trials: can you succeed with fewer subjects? - Randomisation in clinical trials - Allocation concealment and blinding: when ignorance is bliss - Statistical methods in clinical trials - Flow of participants in randomised studies - Recruitment to randomised studies - Baseline data in clinical trials - Inclusion of patients in clinical trial analysis: the intention-to-treat principle - Making sense of trial results: outcomes and estimation - Subgroup analysis in clinical trials - Applying subgroup analysis to individual patient decisions - Multiple analyses in clinical trials: sound science or data dredging? - Balancing the outcomes: reporting harms (adverse events) - Interpreting the results of a clinical trial - Generalising the results of trials to clinical practice - Putting results of a clinical trial in perspective.

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**Title** **Manual of evidence-based research for the health sciences: implication for clinical dentistry**

**Author/s** Chiappelli, Francesco

**Details** New York: Nova Science, 2008

**Contents:** EBR - what is it all about? - FUNDAMENTALS - Evidence-based Research: an overview - Performers of evidence-based research and ethical concerns - Translational and trans-cultural evidence-based research: EBR and globalization - PRACTICUM - Setting the question, initiating the search, evaluating a research paper - Evaluating research design - Identifying the purpose, the findings and the clinical significance vs. statistical significance decision making - Issues about methodology: variables, measurements, implications of sampling NNT,ITT,PF - Systematic evaluation of the statistical analysis (SETA): Analyses of continuous and dichotomous measurements - The EBR process: analyzing EBR data, generating a consensus statement - IMPLICATIONS FOR CLINICAL DECISION-MAKING - The clinical significance decision - Evidence-based Research for geriatric populations - The changing nature of treating frail and functionally dependent older adults: Paucity of best evidence - Clinical decision making tree for older dental patients - Alternative and complementary medicine for treatment and diagnosis of allergic diseases: Relevance to translational evidence-based clinical decisions

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**Title** **Evidence-based dentistry: Managing information for better practice**  
**Author/s** Richards, Derek ; Clarkson, Jan ; Matthews, Debora ; Niederman, Richard  
**Details** London: Quintessence Publishing, 2008

**Contents:** Introduction - Finding answers - Clinical scenarios - Evidence-based guidelines - Cochrane Reviews - Systematic reviews - Individual studies - Study appraisal: Randomised controlled trials - Study appraisal: Cohort studies - Study appraisal: Diagnostic studies - Study appraisal: Qualitative studies - Keeping up to date - Sources of evidence/information - Appendix: Search methods

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**Title** **Evidence-based dentistry: an introduction**  
**Author/s** Hackshaw, Allan K. ; Paul, Elizabeth A. ; Davenport, Elizabeth S.  
**Details** Oxford: Blackwell Munksgaard, 2006

**Contents:** Evidence-based dentistry: what is it and how to practice it - Counting people: understanding percentages and proportions - Taking measurements on people - Comparing groups of people and examining associations - Assessing the effectiveness of treatments - Determining risk factors for and causes of disease - Detecting disease - Study design issues - Reviewing all the evidence - Summary of statistical concepts

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**Title** **Dental statistics made easy**  
**Author/s** Smeeton, Nigel  
**Details** Oxford: Radcliffe Publishing, 2005

**Contents:** Introduction - Planning a study - Types of study in dental research - Sampling - Randomised controlled trials - Ethical considerations - The Normal Distribution - Diagnostic tests - Sampling variation - Introduction to hypothesis tests - Comparing two means - Dealing with proportions and categorical data - Regression, correlation and agreement - Non-normally distributed data - The choice of sample size - Statistical refereeing.

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**Title** **Qualitative research methods**  
**Author/s** Liamputtong, Pranee ; Ezzy, Doug  
**Edition** 2nd edition  
**Details** Melbourne: Oxford University Press, 2005

**Contents:** Background to qualitative research - Types of qualitative research methods - Applications of qualitative research

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**Note** the following resources are available in the ADAVB Reading Room:

### JOURNALS

**Title** Evidence-based dentistry (now published inside British Dental Journal)

**Details** London: British Dental Association,

**Holdings:** 2008-Present

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**Title** Journal of evidence-based dental practice.

**Details** St. Louis : Mosby, Inc.

**Holdings:** v. 1-4 (2001-2004), v. 9 (2008)- Present