

Step-by-step guide to critiquing research. Part 1: quantitative research

Michael Coughlan, Patricia Cronin, Frances Ryan

Abstract

When caring for patients it is essential that nurses are using the current best practice. To determine what this is, nurses must be able to read research critically. But for many qualified and student nurses the terminology used in research can be difficult to understand thus making critical reading even more daunting. It is imperative in nursing that care has its foundations in sound research and it is essential that all nurses have the ability to critically appraise research to identify what is best practice. This article is a step-by-step approach to critiquing quantitative research to help nurses demystify the process and decode the terminology.

Key words: Quantitative research ■ Review process ■ Research methodologies

For many qualified nurses and nursing students research is research, and it is often quite difficult to grasp what others are referring to when they discuss the limitations and or strengths within a research study. Research texts and journals refer to critiquing the literature, critical analysis, reviewing the literature, evaluation and appraisal of the literature which are in essence the same thing (Bassett and Bassett, 2003). Terminology in research can be confusing for the novice research reader where a term like 'random' refers to an organized manner of selecting items or participants, and the word 'significance' is applied to a degree of chance. Thus the aim of this article is to take a step-by-step approach to critiquing research in an attempt to help nurses demystify the process and decode the terminology.

When caring for patients it is essential that nurses are using the current best practice. To determine what this is nurses must be able to read research. The adage 'All that glitters is not gold' is also true in research. Not all research is of the same quality or of a high standard and therefore nurses should not simply take research at face value simply because it has been published (Collum and Droogan, 1999; Polit and Beck, 2006). Critiquing is a systematic method of

appraising the strengths and limitations of a piece of research in order to determine its credibility and/or its applicability to practice (Valente, 2003). Seeking only limitations in a study is criticism and critiquing and criticisms are not the same (Burns and Grove, 1997). A critique is an impersonal evaluation of the strengths and limitations of the research being reviewed and should not be seen as a disparagement of the researchers ability. Neither should it be regarded as a jousting match between the researcher and the reviewer. Burns and Grove (1999) call this an 'intellectual critique' in that it is not the creator but the creation that is being evaluated. The reviewer maintains objectivity throughout the critique. No personal views are expressed by the reviewer and the strengths and/or limitations of the study and the implications of these are highlighted with reference to research texts or journals. It is also important to remember that research works within the realms of probability where nothing is absolutely certain. It is therefore important to refer to the apparent strengths, limitations and findings of a piece of research (Burns and Grove, 1997). The use of personal pronouns is also avoided in order that an appearance of objectivity can be maintained.

Credibility and Integrity

There are numerous tools available to help both novice and advanced reviewers to critique research studies (Tanner, 2003). These tools generally ask questions that can help the reviewer to determine the degree to which the steps in the research process were followed. However, some steps are more important than others and very few tools acknowledge this. Ryan-Wenger (1992) suggests that questions in a critiquing tool can be subdivided in those that are useful for getting a feel for the study being presented which she calls 'credibility variables' and those that are essential for evaluating the research process called 'integrity variables'.

Credibility variables concentrate on how believable the work appears and focus on the researcher's qualifications and ability to undertake and accurately present the study. The answers to these questions are important when critiquing a piece of research as they can offer the reader an insight into what to expect in the remainder of the study. However, the reader should be aware that identified strengths and limitations within this section will not necessarily correspond with what will be found in the rest of the work. Integrity questions, on the other hand, are interested in the robustness of the research method, seeking to identify how appropriately and accurately the researcher followed the steps in the research process. The answers to these questions

Michael Coughlan, Patricia Cronin and Frances Ryan are Lecturers, School of Nursing and Midwifery, University of Dublin, Trinity College, Dublin

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Step By Guide To Critiquing Research

**Patricia Cronin, Michael
Coughlan, Valerie Smith**



Step By Guide To Critiquing Research:

Qualitative Research in Nursing and Healthcare Immy Holloway, Stephanie Wheeler, 2013-05-09 a wonderfully easy to follow text which manages to combine practical procedures with clear explanations of the underlying theoretical concepts Nursing Standard from review of first edition The third edition of this successful book incorporates recent developments in nursing research with updates to every chapter Abstract ideas in qualitative research are clearly explained and more complex theories are included Structured into four clear sections the book looks at initial stages methods of data collection qualitative approaches and analysis of collected data Brand new chapter on Mixed Methods Research Considers a variety of approaches from Ethnography to Action Research Allows the reader to dip in and out depending on their choice of approach Detailed reference lists provide guidance for further reading Links research with real nursing practice through relevant examples throughout

The Socio-Economic Benefit of Home Ownership in Low and Moderate Income Communities Thomas P. Fitzgibbon, 2010-09 The United States government spends billions of dollars on home ownership programs in low and moderate income communities However there is paucity of academic research to assess the socioeconomic impacts of these programs The purpose of this empirical research was to assess their possible impacts The key research question explored the relationship between low and moderate income home ownership the independent variable and the dependent variables of the rates of crime unemployment high school graduation and standardized test scores in the communities concerned The research design was quantitative causal Welfare economic theory formed the theoretical foundation for the study Using public records data were collected from four low and moderate income communities in major Midwestern metropolitan areas The proposed relationships were tested through independent sample t tests and regression analyses Results indicated no significant relationship between low and moderate home ownership rate and the rates of the studied socioeconomic indicators A significant social change implication of this finding would be to relocate federal dollars from housing schemes to more socially and economically relevant programs such as those geared toward improving educational opportunities in low and moderate income communities

Understanding Evidence-Based Practice for Nursing Associates Melissa Owens, Jenny Adams, Peter Rogers, Hannah Smith, Vickie Welsh, 2024-04-03 Providing evidence based care is fundamental to working safely and effectively as a nursing associate This book equips you with the skills to identify evaluate and apply evidence and research to your practice From day to day procedures and decision making to addressing health inequalities and implementing service improvement it develops your confidence in using evidence to underpin all aspects of your role Key features Fully mapped to the NMC Standards of Proficiency for Nursing Associates 2018 Explains the principles of evidence based practice in clear straightforward language Case studies and activities illustrate evidence based practice across a range of different patient groups and care settings Written specifically to address the unique experiences challenges and requirements of the nursing associate role

Introducing Research and

Evidence-Based Practice for Nursing and Healthcare Professionals Jeremy Jolley, 2013-11-26 Research can seem difficult to get to grips with However at the heart of this book is the view that research is essentially a simple activity the principles of which can be readily understood by students new to the subject Each chapter guides the reader to uncover the mysteries of research exposing each aspect in turn while demonstrating how research in healthcare is a practical activity orientated directly to patient care Fully updated to refer to the latest sources and studies this book now includes Two new chapters on qualitative research clearly explaining what it is and how to do it A comprehensive glossary of qualitative and quantitative terms to demystify tricky terminology An appendix of statistical tests explaining the procedures for each Many new examples from practice applying the theory to a wide range of scenarios from across the healthcare professions This book is designed for all students of nursing and allied health professions studying research for the first time Research is illustrated through examples of activities familiar to students from their daily lives helping to build confidence in undertaking research and evidence based practice

Evidence-based Practice in Nursing Peter Ellis, 2016-05-28 Do your students ever struggle to grasp what exactly constitutes evidence or struggle to see how it applies to practice Would you like them to feel more confident about critiquing evidence The need for an evidence base for nursing practice is widely accepted However what constitutes evidence and how nurses might apply it to practice is not always clear This book guides nursing students through the process of identifying appraising and applying evidence in nursing practice It explores a wide range differing sources of evidence and knowledge and helps students to develop key skills of critiquing research and using evidence in clinical decision making

EBOOK: A Postgraduate's Guide to Doing a Literature Review in Health and Social Care Helen Aveyard, Sheila Payne, 2016-01-16 This text is a comprehensive highly readable guide to how to undertake a literature review in health and social care tailored specifically for postgraduate study Essential reading for all those undertaking any study at post graduate level the book provides clarity and a step by step approach to doing a literature review from start to finish which will enable you to Identify which type of review is appropriate for your study Select the literature that you need to include in your review Search for appraise and analyse relevant literature Write up your review Crucially the book explores the common features of a broad range of types of literature review which serve different functions including the literature review that is a pre requisite prior to a larger empirical study and the literature review that is a study in its own right With real life examples of written research and succinct summaries at the end of each chapter A Post Graduate s Guide to Doing a Literature Review in Health and Social Care is the ideal text for students wanting to get the very most from their study Consistently clear and concise and using contemporary examples of research applied to the descriptions of methodology this guide will be useful and accessible at whichever stage in your post graduate project you come across it For those people pondering the most suitable approach to literature reviewing to use it provides answers to fundamental and technical questions For those already immersed in their chosen approach the style and layout will make it a refreshing

resource The breadth of content will demystify approaches that are unfamiliar but that are necessary to understand A highly readable guide whatever your health or social care topic Clare Oakland PhD Student University College London UK [Lab Reports and Projects in Sport and Exercise Science](#) Mike Price,2021-12-30 Most science degrees will have a practical or laboratory based component which will require some sort of final report whether this be a conventional laboratory report or a final year dissertation All of these formats require students to be able to analyse their data in an appropriate way and subsequently convey their key thoughts and information to a third party Therefore writing laboratory reports is an essential part any science degree This new revised edition sees the expansion of statistical examples including initial data checks and assumptions increased awareness of critical appraisal tools and resources project planning and a range of Challenge yourself activities to supplement understanding and provides a comprehensive overview of what should be contained within each section of a scientific report and clearly explains how it should be presented Written in a friendly and engaging style it guides the reader through abstracts literature reviews methodology reporting discussions and referencing and contains a wealth of examples and practical advice on how to improve and refine your own writing From writing a first lab report to preparing a final year dissertation or postgraduate thesis sports and exercise science students at all levels will find this book a valuable resource in developing both skill and confidence in scientific communication Key features include The layout of the book is designed to reflect that of a typical scientific report to help students plan their own projects Each chapter includes numerous examples exercises and activities to engage students and develop skills in each aspect of report writing The book includes discussion of critical appraisal techniques to help students refine their research questions All data sets and illustrations used are drawn from the key disciplines in sport and exercise science including physiology psychology and biomechanics

Introduction to Management Colin Combe,2014 This brand new textbook equips the next generation of managers with the skills to succeed in a global business environment Skillsets help students improve both their academic work and their employability a truly international range of case studies broadens their horizons and practitioner insights show them how skills are used in the real world [Global Perspectives on Quality Assurance and Accreditation in Higher Education Institutions](#) Magd, Hesham,Kunjumuhammed, Siraj Kariyilaparambu,2021-09-17 Quality accreditation in higher education institutions HEIs is currently a buzzword The need to maintain high quality education standards is a critical requirement for HEIs to remain competitive in the market and for government and regulatory bodies to ensure the quality standards of programs offered From being an implicit requirement that is internally addressed quality assurance activities become an explicit requirement that is regularly audited and appraised by national and international accreditation agencies HEIs are voluntarily integrating quality management systems QMS institutional and program specific in response to the political and competitive environment in which it exists Through its higher education department or by creating non profitable accreditation bodies many governments have implemented a quality framework for licensing HEIs and invigilates its

adherence based on which accreditation statuses are granted for HEIs Global Perspectives on Quality Assurance and Accreditation in Higher Education Institutions provides a comprehensive framework for HEIs to address quality assurance and quality accreditation requirements and serves as a practical tool to develop and deploy well defined quality management systems in higher education The book focuses on the critical aspects of quality assurance the need to develop a concise and agile vision mission values and graduate attributes and to develop a system that effectively aligns the various activities of the HEI to the attainment of the strategic priorities listed in the institutional plans The chapters each cover the various facets of the quality assurance framework and accreditation agencies requirements with practical examples of each This book is useful for HEI administrators quality assurance specialists in HEIs heads of academic departments internal auditors external auditors and other practitioners of quality along with stakeholders researchers academicians and students interested in quality assurance and accreditation in higher education

Research Methods in Special Education Brittany Hott, Frederick Brigham, Corey Peltier, 2024-06-01 Research Methods in Special Education equips readers with the knowledge needed to make a difference with data Authors Drs Brittany L Hott Frederick J Brigham and Corey Peltier provide access to cutting edge methodologies and related skills researchers need to successfully carry out projects in applied settings Dedicated chapters focusing on quantitative research synthesis e g meta analysis meta synthesis single case design and program evaluation methods allow readers deeply invested in the field of special education to develop a firm foundation enabling them to ask and answer their socially significant research questions Written for students in special education teacher prep programs early career faculty school administrators and curriculum specialists this text includes numerous features that set it apart from other available resources Dedicated chapters on ethics establishing effective research partnerships and evidence based practice Cutting edge program evaluation methods and reporting Comprehensive coverage of methods commonly used in special education Detailed information on securing special education funding Case studies exemplars resources and recommendations for additional reading Included with the text are online supplemental materials for faculty use in the classroom YouTube videos featuring interviews with authors The up to date research practices in this text are a valuable addition for educators and researchers serving students with disabilities who have a responsibility to support in school and post school outcomes Research Methods in Special Education gives educators the tools to facilitate a deeper understanding of the research process and evidence based practice

Understanding Nursing and Healthcare

Research Patricia Cronin, Michael Coughlan, Valerie Smith, 2014-12-01 This book focuses on enabling students to understand what research is why it is relevant in healthcare and how it should be applied in practice It takes the reader step by step through the research process from choosing research questions through to searching the literature analysing findings and presenting the final piece of work Key features of the book are Tips for the best practice when reading and critiquing research Activities to test your knowledge Key points which highlight the important topics A companion website which

includes a critical appraisal tool to use when assessing papers multiple choice questions and free SAGE journal articles for students Seminar plans and PowerPoint slides are provided to support lecturers in their teaching It is essential reading for all undergraduate students of nursing midwifery and healthcare *Research Methods for Nurses and Midwives* Merryll Harvey, Lucy Land, 2016-11-26 This book is the only research methods book you need to succeed whilst studying nursing and midwifery Ideal for all pre and beyond registration nurses this book has everything you need to know about consuming critiquing and using research it then builds on this foundation to develop these ideas into workable practice for real world research Inspired by over 25 years combined experience the authors have structured the book around the complimentary spheres of theory and practice and take you through each step of the research process demonstrating how to choose a question design your research proposal collect data analyse your findings and write up your research It explores Evidence based research Literature and systematic reviews Ethics Secondary Data Research design Methodologies and individual methods Data analysis quantitative and qualitative Interwoven with case studies and embracing quantitative qualitative and mixed methods alike this balanced textbook provides an introduction to a wide range of theories and methods and is packed full of material specially created to meet student and instructor needs Whether you are new to research methods or returning to formal education and hoping to conduct your own research this book is your ideal companion Assessing the Evidence in Indigenous Education Research Nikki Moodie, Kevin Lowe, Roselyn Dixon, Karen Trimmer, 2023-04-11 This book explores the current state of research on Indigenous education in Australia In particular these chapters focus on exploring deep and enduring questions about the failures of schooling to address the needs of Aboriginal communities This book provides a systematic analysis of existing research to explain how connection to culture and the recognition of Indigenous sovereignties and knowledges are the keys to Aboriginal excellence in schooling **Using Research in Practice** Jaqui Hewitt-Taylor, 2011-09-06 Latest research findings can provide an evidence base for health care practice which ultimately improves outcomes for patients With so much published research out there how do you find evaluate and use the most relevant studies to shape your own health care practice This friendly book walks you through the key stages of locating selecting and evaluating research findings in health care Offering an engaging practice based approach to an often daunting task the book Explores how to appraise and apply data drawn from a range of quantitative qualitative and mixed methods studies Demonstrates how research findings can influence decision making and can improve your own practice as well as that of your team Uses stimulating practice scenarios and worked examples to provide a transferrable blueprint for evidence based practice Drawing on the author s extensive research and teaching experience within the field of practice development Using Research in Practice is an essential text for any health care student or practitioner seeking to evaluate and develop their own evidence base Nursing Research Using Data Analysis Mary De Chesnay, 2014-12-05 This is a concise step by step guide to conducting qualitative nursing research using various forms of data analysis It is part of a unique series of

books devoted to seven different qualitative designs and methods in nursing written for both novice researchers and specialists seeking to develop or expand their competency This practical resource encompasses such methodologies as content analysis a means of organizing and interpreting data to elicit themes and concepts discourse analysis used to analyze language to understand social or historical context narrative analysis in which the researcher seeks to understand human experience through participant stories and focus groups and case studies used to understand the consensus of a group or the experience of an individual and his or her reaction to a difficult situation such as disease or trauma Written by a noted qualitative research scholar and contributing experts the book describes the philosophical basis for conducting research using data analysis and delivers an in depth plan for applying its methodologies to a particular study including appropriate methods ethical considerations and potential challenges It presents practical strategies for solving problems related to the conduct of research using the various forms of data analysis and presents a rich array of case examples from published nursing research These include author analyses to support readers in decision making regarding their own projects The book embraces such varied topics as data security in qualitative research the image of nursing in science fiction literature the trajectory of research in several nursing studies throughout Africa and many others Focused on the needs of both novice researchers and specialists it will be of value to health institution research divisions in service educators and students and graduate nursing educators and students

Key Features Explains how to conduct nursing research using content analysis discourse analysis narrative analysis and focus groups and case studies Presents state of the art designs and protocols Focuses on solving practical problems related to the conduct of research Features rich nursing exemplars in a variety of health mental health clinical settings in the United States and internationally

Basic Steps in Planning Nursing Research Marilyn Wood, Janet C. Kerr, 2011 Basic Steps in Planning Nursing Research From Question to Proposal is the perfect introduction to the research process It details the development of an effective research plan and guides readers through all stages of the process from finding a research topic to the final written proposal It takes an in depth focus on the planning process which makes it an excellent tool for beginners while still being relevant to people at all levels of study who need to develop a research plan The Seventh Edition continues to teach readers how to prepare an appropriate question and topic and the steps it takes formulate a conclusion All of the chapters have been updated with new references and current information including a renewed focus on evidence based practice and an expansion of research ethics Proposals are included at the end of the text to help students learn

Mixed Methods in Health Sciences Research Leslie Curry, Marcella Nunez-Smith, 2014-09-30 Mixed Methods in Health Sciences Research A Practical Primer by Leslie Curry and Marcella Nunez Smith presents key theories concepts and approaches in an accessible way Packed with illustrations from the health sciences literature this ready to use guidebook shows readers how to design conduct review and use mixed methods research findings Helpful checklists figures tables templates and much more give readers examples that will elevate the quality of their

research facilitate communication about their methods and improve efficiency over the course of their projects Real world examples and insights from mixed methods researchers provide unique perspectives on every aspect of mixed methods research This book successfully pulls together foundational mixed methods principles synthesizes the knowledge base in the field and translates it for a health science researcher audience The content is highly applicable to real life research teams in the areas of clinical research health services research and implementation science providing sound content and practical advice The authors have synthesized and pull key concepts from a variety of sources to provide a concise resource Linda M Herrick South Dakota State University Everything from the references to the topics checklists conceptual graphic representations and organizers interviews and resources all contribute to the content and aid with understanding and or application It addresses specific MM research as it pertains to health sciences in a way that other texts just do not even attempt Denise L Winsor University of Memphis This text is a very pragmatic approach to mixed methods research excellent resources tables and figures are provided along with cases and examples of value to researchers and grant reviewers Its relevance to practice education and research as well as to potential policy implications is a strong focus that would make this a valued textbook for any researcher Karen Devereaux Melillo University of Massachusetts Lowell The text is cutting edge It leads the way with its focus on team dynamics The authors succeed in making the book relevant and practical They also articulate a number of key insights in the area of mixed methods that rarely get addressed such as teams and conflict Great read with a lot of good practical information for mixed methods researchers at all levels The practical approach of this text makes it an innovative and valuable resource John G Schumacher University of Maryland

Advancing Methodologies of Conducting Literature Review in Management Domain Sudhir Rana,2023-11-24 Covering planning and setting the objectivity of review papers search processes data selection and screening review types and designs and evaluation criteria validity and reliability in the field of management literature

Qualitative Methods Dr. Salma Seth,Dr. N.K. Chadha,Dr. Harpreet Bhatia,2022-05-16 This book aims to provide researchers who are new or relatively new to qualitative research with the methodological tools and conceptual maps they need to navigate their way through the process It describes the uncertainties surrounding qualitative research and the many dilemmas faced by researchers It illustrates these by drawing on the experiences of researchers with varying degrees of expertise in qualitative research It also provides readers with the necessary background knowledge and raises their awareness of the questions they will need to address to help them make informed decisions about how to deal with these uncertainties and dilemmas The contents of the book are organized in a way that reflects the three main objectives that the authors had in mind The first objective was to provide readers with the necessary background knowledge and an awareness of the questions they will need to address in order to make informed decisions about whether to conduct qualitative research and if they decide to follow a qualitative path which particular qualitative approaches would be suited to their research goals The second objective was to equip readers with the basic

tools to carry out their analysis by providing detailed contextualized coverage of the practicalities of the qualitative methods approaches In addition the book includes accounts of an actual analysis of a specific data set in a step by step manner using the approaches The third objective was to provide the reader with guidance as to how to write up qualitative research in general and the ethical considerations of qualitative inquiry in the concluding chapter *Doing a Literature Review in Nursing, Health and Social Care* Michael Coughlan, Patricia Cronin, Frances Ryan, 2013-03-25 How do I start my literature review What sources can I go to for information How do I analyse the work of others This clear practical book guides readers undertaking their own literature review through the process giving them the skills and knowledge they need for success The chapters address Different types of literature reviews Critically analysing material Presenting the final piece of work Best practice in referencing and plagiarism Systematic approaches to literature reviews A wide range of examples from books journals and other sources are included to demonstrate the process in action Each chapter also includes activities and checklists to help readers develop their own work It will be an essential guide for all nursing and all allied healthcare students as well as professionals working in practice

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