

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

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Step By Step Guide To Critiquing Research Part 1 Quantitative Research

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Step By Step Guide To Critiquing Research Part 1 Quantitative Research:

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

Evidence-based Practice in Nursing Peter Ellis, 2019-03-30 Do your students feel unsure about what exactly constitutes evidence Would you like them to feel more confident in evaluating evidence and applying it to their practice Delivering safe high quality patient centred care is dependent upon nurses having a good understanding of evidence based practice and how to apply this successfully However for many students engaging with this side of practice is a challenge This book has been specifically designed to help guide students through the process of identifying evaluating and applying evidence in nursing practice Using a variety of learning features this text will help your students to see how the theory applies to their everyday practice and help them develop the skills they need to confidently use evidence in their clinical decision making

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

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

New Approaches to Local Climate Change Risk Analysis Åsa Gerger Swartling, Carlo Aall, Emmanuel M. N. A. N. Attah, 2023-12-12 The JPI Climate AXIS project Unpacking climate impact CHAINs A new generation of action and user oriented climate change risk assessments UNCHAIN is approaching its end date 31 12 2022 and the project is looking for an opportunity to collect its remaining scientific publications into a Research Topic The overall objective of UNCHAIN is to improve climate change risk assessment frameworks aimed at informed decision making and climate change adaptation action through six methodological innovations To also cover the possible need for long term and large scale efforts of societal transformation To refine a structured method of co production of knowledge and integrate this into impact modelling To develop and test an applicable framework for analyzing how societal change can affect local climate change vulnerabilities To develop and test a standardized analytical framework for addressing uncertainties involved in local decision making on climate change adaptation To integrate the trans national impacts of climate change and To link mitigation and adaptation in climate risk and vulnerability assessments

Basic Steps in Planning Nursing Research Marilynn 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

Evidence-Based Sexual and Reproductive Health Care

Theodora D Kwansa,Jill Stewart-Moore,2018-02-24 Evidence Based Sexual and Reproductive Health Care Policies Clinical Procedures and Related Research embraces the concept of a multi professional approach to clinical care excellence in sexual and reproductive health care A comprehensive resource it explores the complex nature of sexual health related issues contemporary management interventions and the underpinning theories and concepts With contributions from leading experts from around the globe the text features perspectives from a wide variety of fields such as education medicine nursing and the health professions User friendly and practical in approach it explores current and future developments ongoing research new treatment procedures and emerging technological advancements Important Notice The digital edition of this book is missing some of the images or content found in the physical edition

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

The Impact of Organizational Capital Investment on

Employee Innovation in the Manufacturing Industry Dr. Hyacinth Nwachukwu,2016-05-20 This study involved an exploration of the impact of organizational capital investment on employee innovation in the manufacturing industry The overarching question was Does organizational capital investment impact employee innovation in the manufacturing industry Organizations tend to place much emphasis on how skill drives innovation but not on how capital investment impact employee innovation The research was guided using a qualitative phenomenological case study design to probe the impact of capital investment on employee innovation Participants were selected through a convenience and purposive sampling method using the researchers personal professional network as well as the snowball method to seek participants from individuals referrals Data collection involved personal interviews audio recording and note taking The assumption was that employee innovation is not an option but a necessity because organizations compete on global fronts for resources and market share Consequently capital investment in machinery and employee innovation becomes symbiotic in nature not mutually exclusive Results showed employee innovation can be impacted and enhanced through the acquisition and application of appropriate

technological capital investment The researcher recommends further research to ascertain whether the amount of organizational capital investment is proportional to the development of employee innovativeness *Global Perspectives on Quality Assurance and Accreditation in Higher Education Institutions* Magd, Hesham, Kunjumammed, 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

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

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employability a truly international range of case studies broadens their horizons and practitioner insights show them how skills are used in the real world

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

Nursing Evidence-Based Practice Skills Karen Holland, Colin Rees, 2010-04-22 Nursing students require a unique guide to research and evidence based practice EBP to help them succeed in both the classroom and the clinical area This book is a one stop shop of the theory and practice of EBP including practical tips for assignments and placements

LOGIC AND METHODS OF SOCIOLOGICAL RESEARCH Dr. Shipra Mathur, Vikram Singh Parihar , 2025-01-15

Research Methods for Nurses and Midwives Merryl Harvey, Lucy Land, 2016-11-03 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

Research Process and Methodological Procedures Dr. Lalith Kumar Dharavath, 2025-05-01

Clinical Research for the Doctor of Nursing Practice Allison J. Terry, 2014-08 Clinical Research for the Doctor of Nursing Practice Second Edition offers a streamlined approach to application based clinical research and the development of the capstone project The text

allows for a hands on approach through its inclusion of sample research studies that encourage analysis and an overall understanding of the nursing research process The Second Edition features new research studies as well as instruction on motivational interviewing conducting an organizational assessment as well as how to work with a committee to craft a research proposal This text is appropriate for any DNP course focused on research including the Capstone course New to the Second Edition How to critique a research article How to form the research committee How to use motivational interviewing as a data collection technique How to review a manuscript submitted for publication How to conduct an organizational assessment How to accurately evaluate research How to develop the project proposal *Nursing Research and Statistics* Suresh Sharma, 2010-09-17 Nursing Research and Statistics **Critical Thinking Skills for Healthcare** Stephanie Mckendry, 2025-12-02 The new edition of Critical Thinking Skills for Healthcare is the ideal text to foster this key attribute supporting students to critically evaluate information and evidence on their journey from healthcare student to healthcare practitioner Including worked examples throughout the book encourages readers to recognise that they already think critically in their everyday lives The next step is to integrate this quality into how they approach their studies from the resources they select to complete assignments to building a cohesive written argument In an age of social media misinformation and generative artificial intelligence GenAI the need to think critically is even more important in the healthcare professions In this context the book provides an invaluable guide to spotting the flaws in an argument or position as well as weighing up the strengths and weaknesses of different perspectives Concise and user friendly this is the perfect textbook for students across the healthcare disciplines including nursing midwifery and allied health as well as those returning to practice after a period away

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