



Review Article

Standardized Patient Simulation for More Effective Undergraduate Nursing Education: A Systematic Review and Meta-Analysis

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KEYWORDS

simulation training;
standardized patient;
students, nursing;
self-efficacy;
problem solving

Abstract This systematic review and meta-analysis was designed to investigate the effects of standardized patient simulation on undergraduate nursing students following PRISMA guidelines. We searched seven databases; three reviewers independently performed study selection and data extraction and employed the risk for bias assessment for nonrandomized studies (ROBINS) tool to evaluate the quality of evidence. To estimate effect size, a meta-analysis of the studies was performed using STATA 16.0. We identified 1,276 related published studies; 68 met our inclusion criteria, 14 of which were eligible for final analysis. Our findings indicate that standardized patient simulation can effectively improve undergraduate nursing students' communication skills, communication self-efficacy, self-efficacy, learning self-efficacy, problem-solving ability, and learning satisfaction; no evidence of publication bias was detected. Further studies are required to define detailed and standardized guidelines for supplementary research designs for experimental studies and effective methods of utilizing standardized patients. Expanding the application of evidence-based standardized patient simulation can improve reproduced clinical experiences and overcome limitations in clinical training for undergraduate nursing students.

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The health care environment is changing rapidly, and medical technology is developing continuously. Thus, nurses must have high-level problem-solving and commu-

nication skills to care for patients with complex health problems (Fogg, Kubin, Wilson, & Trinko, 2020). However, observation-based training in clinical settings has become limited due to time constraints, patient privacy protection and infection control issues, and increasing

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**Joyce J. Fitzpatrick, PhD, MBA, RN,
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Caring for the Vulnerable Mary de Chesnay, Barbara A. Anderson, 2025-10-10 Lead

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Annual Review of Nursing Research, Volume 39, 2021-01-07. Annual Review of Nursing Research has provided nearly four decades of knowledge, insight, and research on topics critical to nurses everywhere. Its purpose is to critically examine the full gamut of literature on key topics in nursing practice, including nursing theory, care delivery, nursing education, and the professional aspects of nursing. This landmark annual review brings together internationally recognized experts in the fields of nursing and delivers the highest standards of content and authoritative reviews of research for students, researchers, and clinicians. In today's climate, healthcare simulation is more important than ever. Creating consistent, leveled experiences through high-quality simulation allows students and practitioners the opportunity to learn in a safe and immersive environment. This 39th volume of Annual Review of Nursing Research addresses the current state of healthcare simulation in both academic and professional settings. Articles are written by noted experts in the field and discuss extended reality, new technologies, briefing, outcome evaluation, and professional development. Key Topics Discusses simulation use in undergraduate and graduate education. Features a new debriefing tool on interprofessional simulation. Addresses current considerations for effective operations in simulation. Highlights the use of virtual and augmented realities as well as 3D printing.

The Sage Handbook of Nursing Education, Carol Hall, Mary Gobbi, Kathryn Parker (Whitcomb), Patricia Yoder-Wise, 2024-05-01. In the past several years, a revival of research devoted to nursing education has emerged. This emergence has changed the way many educators engage in their practice of working with learners, and learners have come

to expect that they will have a rich learning experience designed to develop new or enhance prior knowledge skills and attitudes The SAGE Handbook of Nursing Education provides a detailed map of the current discipline with a carefully selected team of international contributors offering the latest thinking about education in nursing across key areas This handbook will be a key resource for academic educators as well as graduate and postgraduate learners Curriculum Development and Evaluation in Nursing Education Sarah B. Keating, Stephanie S. DeBoor, 2017-12-02 This is a detailed yet practical guide to planning developing and evaluating nursing curricula and educational programs It provides a comprehensive and critical perspective on the totality of variables impacting curricular decisions This book provides readers with a comprehensive overview of curriculum development redesign and evaluation processes 92 4 Stars Doody's Book Reviews Reorganized and updated to deliver practical guidelines for evidence based curricular change and development the fourth edition of this classic text highlights current research in nursing education as a springboard for graduate students and faculty in their quest for research projects theses dissertations and scholarly activities It also focuses on the specific sciences of nursing education and program evaluation as they pertain to nursing educators New chapters address the role of faculty regarding curriculum development and approval processes in changing educational environments course development strategies for applying learning theories educational taxonomies and team building needs assessment and the frame factors model ADN and BSN and pathways to higher degrees and planning for doctoral education The fourth edition continues to provide the detailed knowledge and practical applications necessary for new and experienced faculty to participate in essential components of the academic role instruction curriculum and evaluation At its core the text discusses the importance of needs assessment and evidence as a basis for revising or developing new programs and highlights requisite resources and political support With a focus on interdisciplinary collaboration the book addresses the growth of simulation how to help new faculty transition into the academic role and use of curriculum in both practice and academic settings Additionally the book describes the history and evolution of current nursing curricula and presents the theories concepts and tools necessary for curriculum development Chapters include objectives discussion points learning activities references and a glossary New to the Fourth Edition Reorganized and updated to reflect recent evidence based curricular changes and developments Highlights current research New chapter Implementation of Curriculum Course Development Strategies for the Application of Learning Theories Educational Taxonomies and Instruction Team Building New chapter on Planning for Undergraduate Programs New content on Needs Assessment and the Frame Factors Model New content on Planning for Doctoral Education in Nursing New content on curriculum evaluation financial support budget management and use of evidence Key Features Supports new faculty as they transition to academe Addresses the need for preparing more faculty educators as defined by IOM report the ACA and the Consensus Model Describes the scope of academic curriculum models at every practice and academic level Threads the concept of interdisciplinary collaboration in education throughout Serves as a CNE Certification

Review **Research into Nurse Education** Bryn D. Davis, 2025-09-17 Originally published in 1983 this book provides a revealing and comprehensive perspective on nurse education in the 20th Century The opening chapters look at the students themselves the sort of people who come into nursing and it examines why the drop out rate is high and how reality differs from expectations The following section examines teaching on the wards and the final part is concerned with the education and support of those involved in nurse teaching It includes a discussion of the nature of teaching and of ways of studying the teaching process as well as analysis of developments in the provision of library and information services to nurse educators nurse administrators and clinical nursing staff *Burns and Grove's The Practice of Nursing Research - E-Book* Jennifer R. Gray, Susan K. Grove, 2020-07-21 Winner of the 1st place American Journal of Nursing Book of the Year award in nursing research evidence based practice for 2021 Selected for Doody's Core Titles 2024 with Essential Purchase designation in Research Burns coverage of the research process application for evidence based health care how to analyze data determine outcomes and disseminate research and how to propose and seek funding for research Strong emphasis on evidence based practice addresses this key graduate level QSEN competency and reinforces how to generate research evidence and appraise and synthesize existing research for application to clinical practice Rich examples from nursing literature bring research principles to life Emphasis on the most currently used research methodologies focuses on the methods used in both quantitative research and qualitative research as well as outcomes research and mixed methods research Coverage of digital data collection examines the use of online research tools Quick reference summaries include a table of research methods inside the front cover and a list of types of research syntheses with definitions inside the back cover Helpful user resources are included with each new text purchase on the companion Evolve website and feature 400 interactive review questions along with a library of 10 full text research articles *Building and Sustaining a Hospital-Based Nursing Research Program* Nancy Albert, Nancy M. Albert, 2015-11-13 The first resource to present the nuts and bolts of creating a successful nursing research program This text provides a roadmap to develop and nurture a nursing research program in complex hospital environments Written by experienced clinical researchers who have successfully implemented these techniques in the Cleveland Clinic the handbook shows nurses how to build and sustain a research program a fundamental requirement to transform patient care and administrative practices and obtain and sustain American Nurses Credentialing Center Magnet program recognition The book demonstrates step by step how leaders and staff can integrate nursing research into the workflow of complex health care environments It provides a framework for developing horizontal and vertical structures that promote the creation of new knowledge and for enhancing the scientific foundation of nursing evidence With a focus on practical applications the book addresses the structures systems processes and resources required for creating and maintaining a research program along with methods for its evaluation The handbook describes foundational principles that apply to hospitals of all sizes including ambulatory centers and hospitals without extensive resources and provides concrete

guidance in adapting structures and processes to fit the needs of hospitals with varied nursing staff size and program goals Replete with a wealth of ideas and strategies it provides detailed templates that will assist novice and more experienced researchers guidelines for committees to support nursing research within a hospital and discusses the who what why of systems that enhance workflow Chapters offer experiential stories written by nurses who describe the real world experiences of implementing clinical research in their practice Tables and figures further illuminate information Key Features Written by experienced researchers who have implemented the techniques used in this book Provides a framework adaptable for use with hospitals of all sizes Includes guidelines for committees councils to support nursing research within the organization Discusses processes and systems that enhance collaboration and workflow Offers stories from the field by nurses about lessons learned from their research experiences Review of Research in Nursing Education William L. Holzemer,1983

Encyclopedia of Nursing Education Mary Jane Smith,Roger D. Carpenter,Joyce J. Fitzpatrick,2015-02-20 Print CourseSmart **Introduction to Nursing Research: Incorporating Evidence-Based Practice** Carol Boswell,Sharon Cannon,2022-03-29 Introduction to Nursing Research Incorporating Evidence Based Practice Sixth Edition provides a solid foundation for teaching and learning the basics of evidence based practice Giving students the tools they need to become effective practitioners this text is a comprehensive guide for integrating evidence based practice and research into the day to day work of nursing Mastery of research will allow students training to be nurses to provide quality patient care and improve healthcare outcomes overall As in previous editions the authors take a thoughtful and practical approach by combining research quality improvement and evidence based practice The Sixth Edition focuses on the connection between research and evidence based practice as a foundation for safe and effective health care Demonstrating research establishes a foundation that will lead students to evidence based practice Includes coverage of Inter professional education IPE and team research featuring activity and research examples Discusses COVID 19 in the context of conducting research during a pandemic The impact of predatory journal publishing in literature reviews Explores the most current research tools and methods for EBP Discusses the IOM s Future of Nursing report and the ACA recommendations as they relate to nursing and healthcare Covers cultural diversity and the global aspects of nursing research Nursing Research Research Theory 2023 450 pages

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