# CLINICAL RESEARCH

FOR THE DOCTOR OF NURSING PRACTICE

THIRD EDITION

### Allison J. Terry, PhD, MSN, RN

Assistant Dean of Clinical Practice Associate Professor of Nursing Auburn University at Montgomery Montgomery, Alabama





World Headquarters Jones & Bartlett Learning 5 Wall Street Burlington, MA 01803 978-443-5000 info@jblearning.com www.jblearning.com

Jones & Bartlett Learning books and products are available through most bookstores and online booksellers. To contact Jones & Bartlett Learning directly, call 800-832-0034, fax 978-443-8000, or visit our website, www.jblearning.com.

Substantial discounts on bulk quantities of Jones & Bartlett Learning publications are available to corporations, professional associations, and other qualified organizations. For details and specific discount information, contact the special sales department at Jones & Bartlett Learning via the above contact information or send an email to specialsales@iblearning.com.

Copyright © 2018 by Jones & Bartlett Learning, LLC, an Ascend Learning Company

All rights reserved. No part of the material protected by this copyright may be reproduced or utilized in any form, electronic or mechanical, including photocopying, recording, or by any information storage and retrieval system, without written permission from the copyright owner.

The content, statements, views, and opinions herein are the sole expression of the respective authors and not that of Jones & Bartlett Learning, LLC. Reference herein to any specific commercial product, process, or service by trade name, trademark, manufacturer, or otherwise does not constitute or imply its endorsement or recommendation by Jones & Bartlett Learning, LLC and such reference shall not be used for advertising or product endorsement purposes. All trademarks displayed are the trademarks of the parties noted herein. Clinical Research for the Doctor of Nursing Practice, Third Edition is an independent publication and has not been authorized, sponsored, or otherwise approved by the owners of the trademarks or service marks referenced in this product.

There may be images in this book that feature models; these models do not necessarily endorse, represent, or participate in the activities represented in the images. Any screenshots in this product are for educational and instructive purposes only. Any individuals and scenarios featured in the case studies throughout this product may be real or fictitious, but are used for instructional purposes only.

The authors, editor, and publisher have made every effort to provide accurate information. However, they are not responsible for errors, omissions, or for any outcomes related to the use of the contents of this book and take no responsibility for the use of the products and procedures described. Treatments and side effects described in this book may not be applicable to all people; likewise, some people may require a dose or experience a side effect that is not described herein. Drugs and medical devices are discussed that may have limited availability controlled by the Food and Drug Administration (FDA) for use only in a research study or clinical trial. Research, clinical practice, and government regulations often change the accepted standard in this field. When consideration is being given to use of any drug in the clinical setting, the health care provider or reader is responsible for determining FDA status of the drug, reading the package insert, and reviewing prescribing information for the most up-to-date recommendations on dose, precautions, and contraindications, and determining the appropriate usage for the product. This is especially important in the case of drugs that are new or seldom used.

Cover Design: Kristin E. Parker

Rights & Media Specialist: Wes DeShano

Media Development Editor: Troy Liston

Cover Printing: Edwards Brothers Malloy

Chapter Opener): © Sunny/DigitalVision/Getty.

Printing and Binding: Edwards Brothers Malloy

Cover Image (Title Page, Part Opener,

#### **Production Credits**

VP, Executive Publisher: David D. Cella Executive Editor: Amanda Martin Associate Acquisitions Editor: Rebecca Stephenson Editorial Assistant: Christina Freitas Senior Vendor Manager: Sara Kelly

Senior Marketing Manager: Jennifer Scherzay Product Fulfillment Manager: Wendy Kilborn Composition and Project Management: S4Carlisle Publishing Services

#### Library of Congress Cataloging-in-Publication Data

Names: Terry, Allison J., author.

Title: Clinical research for the doctor of nursing practice / Allison J.

Description: Edition 3. | Burlington, MA: Jones & Bartlett Learning, [2018] | Includes bibliographical references and index.

Identifiers: LCCN 2017016099 | ISBN 9781284117585

Subjects: | MESH: Education, Nursing, Graduate--methods | Nursing Research--methods | Nurse Clinicians--education | Research Design

Classification: LCC RT75 | NLM WY 18.5 | DDC 610.73071/1--dc23 LC record available at https://lccn.loc.gov/2017016099

6048

## **Contents**

Preface	Chapter 2 Developing the Researchable
UNIT I Preparing for Your Capstone Project 1	Problem
Chapter 1 The Importance of Research in the Doctor of Nursing Practice Degree	Appropriate Use of a Research Question
Introduction to the Doctor of Nursing Practice Degree	Use of a Theoretical or Conceptual Framework
Information Systems and Technology	Steps to Include in the Critique of a Research Article
The DNP Graduate's Participation in Evidence-Based Decision Making 16  The Process of Translating Evidence into Clinical Practice	Ethical Principles

Health Insurance Portability and Accountability Act Compliance	Qualitative Research Designs
UNIT II Choosing a Design for Your Capstone Project 59	Chapter 8 Designing a Clinically Based Mixed Method Capstone Research Project101
Chapter 5 Selecting a	Introduction to Mixed Method Research
Capstone Research Project	Project 115
Basic Types of Quantitative Research72 Advantages and Limitations of Quantitative Research	Chapter 9 Sampling
Experimental Research Designs	of Sampling
Chapter 7 Designing a Clinically Based Qualitative Capstone Research Project	Qualitative Sampling Designs
Basic Types of Qualitative Research87 Advantages and Limitations of Qualitative Research89	Introduction to the Process of Data Collection

Types of Data Collection Methods 131  Data Collection in Mixed Method  Research	Model for the Enhancement of Job Satisfaction of LPNs in Rural Alabama Counties	
Learning Enhancement Tools		
Chapter 11 Issues Related to Survey Data Collection 143	UNIT IV Examples of Studies and Projects 179	
Introduction to Survey Data Collection	Chapter 14 Reducing 30-Day Hospital Readmission of the Patient With Heart Failure: An Evidence-Based Quality Improvement Project	
Chapter 12 Data Analysis 155	Needs Assessment	
Introduction to the Process of Data Analysis	Quality Improvement185Evidence-Based Model186Review of the Evidence186Phases of the Project187Plan for Evaluation188	
Chapter 13 Writing the Research Report for Potential Publication165	Identification of Performance Measures	
Initiating the Writing Process	Plan       196         Do.       197         Study.       197	
Choosing a Journal for Manuscript Submission168	Act	
Guide to Reviewing a Manuscript for Potential Publication	Grades of Recommendations	
Methodology	Section Four: Your Medication	
Implications         .175           Conclusion         .176	Section Seven: Questions for My Healthcare Provider215	

vi	Conte	nts

Catalyst......246

Chapter 15 A Community-	Assessing247
Academic Collaboratio	<b>n</b> Asking247
to Have an Impact	Acquiring247
on Childhood	Appraising248
Obesity 22	Applying252
•	Needs Assessment252
Introduction	Implementation
Background22	Analyzing258
Project Overview22	Adopting and Advancing
Method22	Discussion
Data Collection	Findings
Data Analysis	Conclusion200
Results23	
Value Propositions	anapita ii ina anapanana
Limitations	of Chronic Pain in
Conclusion and Implications23	Nurse Educators 287
Chapter 16 The Impact of	Introduction287
Evidence-Based	Review of the Literature298
Design24	Research Design and Methodology310
	Research Findings
Introduction24	3 Discussion, Limitations, and
The Impact of Evidence-Based  Design24	Recommendations337
Background and Significance	5
A Proposed Project24	Glossary 359
Theoretical Framework 24	.6 Index

## **Preface**

oday's modern society is changing so rapidly that in many ways it seems to be more virtual than reality, thanks in part to ever-expanding technology that allows us to make the community grow from our backyard into the neighboring country. When these aspects are combined with a patient's ever-changing healthcare need, the result can be bewildering for nurses trying to prepare themselves as leaders in the healthcare arena. That preparation can come from a combination of evidence-based practice and the education preparation found in the doctor of nursing practice (DNP) degree. The DNP-prepared nurse is proving to be valuable in a variety of settings, and in reflection of that, the third edition of the text includes a discussion of the role of the DNP-educated nurse in academia.

For the nurse who has been dedicated to a bedside practice and now is conscientious enough to seek the additional validation derived from the DNP degree, the capstone project can be a source of anxiety. It is the hope that this text will serve as a guidebook for the nurse who is navigating through that process as well as a compass that will assist in avoiding obstacles, developing realistic timelines, and setting achievable goals.

The third edition of the book continues the focus on the capstone project. To expedite the process of developing the project, new information is included describing the selection of a theoretical framework. To expedite the implementation of the project, information is provided on recent updates to the Health Insurance Portability and Accountability Act (HIPAA).

It is the hope of the author that this text will assist the DNP student who is intending to serve as a catalyst for change in the healthcare community. May it serve as a compass for the nurse who is uncertain as to which fork in the road to the capstone project will be most helpful.

