# Syllabus NRS-445-O503-20240408

Nursing Research and Evidence based Practice (Grand Canyon University)

# **Nursing Research and Evidence Based Practice**

NRS-445 3 Credits Apr 8 - May 12

## **Course Description**

This writing-intensive course promotes the use of research findings as a basis for improving clinical practice. Quantitative and qualitative research methodologies are analyzed with an emphasis on the critical review of research studies and their application to clinical practice. Students develop evidence-based practice recommendations from the critical analysis of available literature guided by a PICOT question. Prerequisite: HLT-362V.

## **Instructor Contact Information**

#### **Linda Cook**

Linda.Cook@my.gcu.edu

#### Class Resources

## **Nursing Research: Understanding Methods for Best Practice**

Grand Canyon University (Ed.). (2022). Nursing research: Understanding methods for best practice (2nd ed.).

## **GCU Library Citing Sources in APA Research Guide**

Refer to the "Citing Sources in APA" Research Guide, located on the GCU Library website, for assistance with citing and referencing sources using APA formatting.

https://libguides.gcu.edu/APA

# **GCU Library Evaluating Sources Research Guide**

Review the "Evaluating Sources" Research Guide, located on the GCU Library website, for information on defining and evaluating scholarly sources, academic journal quality, reading a scientific article, and other aspects of evaluating sources.

https://libguides.gcu.edu/EvaluatingSources

## **GCU Library Nursing and Health Sciences Research Guide**

Refer to the "Nursing and Health Sciences" Research Guide, located on the GCU Library website, for library resources and information pertaining to nursing and health sciences.

https://libguides.gcu.edu/Nursing

## **How to Cite Properly**

Read "How to Cite Properly," located on the Student Success Center. This resource provides information on avoiding plagiarism through the use of appropriate citations.

https://www.gcumedia.com/lms-resources/student-success-center/v3.1/#/media-element/academic-integrity/how-to-cite-properly/73/269/1273

# **Introduction to the GCU Library Research Guide**

Refer to the "Introduction to the GCU Library" Research Guide, located on the GCU Library website, to become familiar with the services and resources provided by the GCU Library.

https://libguides.gcu.edu/LibraryTour

# **RN-BSN DQ Rubric**

Refer to the "RN-BSN DQ Rubric," to understand the expectations for initial discussion question posts.

## **RN-BSN Participation Rubric**

Refer to the "RN-BSN Participation Rubric," to understand the expectations for participation.

## **Searching Nursing Databases**

Read the strategies and tips located on the "Searching Nursing Databases" page of the "Nursing and Health Sciences Research Guide," located on the GCU Library website, to assist you in searching the main nursing and health sciences databases. View the associated tutorials as needed.

https://libguides.gcu.edu/Nursing/journals

# Webinars and Workshops: Webinar Calendar

Review the available days and times for the library presentation of the "APA 7" webinar, to sign up for a webinar with helpful information on using APA formatting, references, and in-text citations. This link provides

the calendar for live APA webinars. Other live webinars are also listed. This is a great resource to consider for students who prefer real-time, interactive session to support their learning.

https://libguides.gcu.edu/webinars

# **Optional - Applied Statistics for Health Care**

For additional information, the following is recommended:

Grand Canyon University. (Ed.). (2018). Applied statistics for health care.

This textbook is utilized in HLT-362V Applied Statistics for Health Care Professionals. It provides a helpful refresher for statistics concepts and their application to health care practice and research.

https://www.gcumedia.com/digital-resources/grand-canyon-university/2018/applied-statistics-for-health-care\_1e.php

# **Topic 1: Evidence-Based Practice and the History and Elements of Nursing Research**

#### Objectives:

- 1. Discuss the importance of nursing research in improving patient outcomes.
- 2. Define research terminology and components of research articles.
- 3. Identify critical elements of evidence-based practice.
- 4. Evaluate a nursing practice problem using the PICOT question.

Apr 8, 2024 - Apr 14, 2024 Max Points: 228

# Resources

# Focusing on the Fundamentals: A Simplistic Differentiation Between Qualitative and Quantitative Research

Read "Focusing on the Fundamentals: A Simplistic Differentiation Between Qualitative and Quantitative Research," by Rutberg and Bouikidis, from *Nephrology Nursing Journal* (2018). This article provides an overview of qualitative and quantitative research characteristics and designs and includes a discussion regarding mixed methods research.

https://lopes.idm.oclc.org/login?url=https://search.ebscohost.com/login.aspx?direct=true&db=cul&AN=129106232&site=ehost-live&scope=site&custid=s8333196&groupid=main&profile=ehost

#### **Qualitative vs. Quantitative Research Designs**

The attached "Qualitative vs. Quantitative Research Designs" resource provides a summary table outlining

elements of qualitative and quantitative research design.

# The Underappreciated and Misunderstood PICOT Question: A Critical Step in the EBP Process

Read "The Underappreciated and Misunderstood PICOT Question: A Critical Step in the EBP Process," by Gallagher Ford and Melnyk, from *Worldviews on Evidence-Based Nursing* (2019). This article delves further into the purpose of a PICOT question and provides examples of poorly and properly written versions of a PICOT question.

https://lopes.idm.oclc.org/login?url=https://search.ebscohost.com/login.aspx?direct=true&db=cul&AN=140231445&site=ehost-live&scope=site&custid=s8333196&groupid=main&profile=ehost

# **Key Components of a Research Paper**

Read "Key Components of a Research Paper," from the IES National Center for Education Evaluation and Regional Assistance website. This article provides a 1-page overview of the major sections of a research paper. This information will be helpful to review as students start to find and review research articles. This resource is also helpful for completing the quiz.

https://ies.ed.gov/ncee/edlabs/infographics/pdf/REL\_SE\_Key\_Components\_of\_a\_Research\_Paper.pdf

# Problem Identification: The First Step in Evidence-Based Practice

Read "Problem Identification: The First Step in Evidence-Based Practice," by Stannard, from *AORN Journal* (2021). This article defines evidence-based practice (EBP), the five steps of EBP, and how to get started by identifying an appropriate problem. This resource is helpful in approaching the selection of a nursing practice problem for this week's assignments and this course.

https://lopes.idm.oclc.org/login?url=http://ovidsp.ovid.com.lopes.idm.oclc.org/ovidweb.cgi? T=JS&CSC=Y&NEWS=N&PAGE=fulltext&AN=00000703-202104000-00008&LSLINK=80&D=ovft

## **Empirical/Research Articles**

Explore "Empirical/Research Articles," located within the Nursing and Health Sciences Research Guide from the GCU Library. This resource defines an empirical/research article, reviews the different sections of research articles, and provides a brief guide on how to read research articles. This resource is useful as students start to find and read research articles for their discussions and assignments in this topic.

https://libguides.gcu.edu/Nursing/research

## What Are Quantitative and Qualitative Research Methods? A Brief Introduction

Read "What Are Quantitative and Qualitative Research Methods? A Brief Introduction," by Chalmers and Cowdell, from *Dermatological Nursing* (2021). This article provides a brief overview of qualitative and

quantitative research designs and reviews the evidence pyramid. Students should use this reference to learn about the evidence pyramid and its importance to appraising nursing research. The evidence pyramid presented in this resource will be helpful in completing the guiz.

https://lopes.idm.oclc.org/login?url=https://search.ebscohost.com/login.aspx?direct=true&db=cul&AN=151243679&site=ehost-live&scope=site&custid=s8333196&groupid=main&profile=ehost

# **Template for Asking PICOT Questions**

Utilize the "Template for Asking PICOT Questions," by Fineout-Overholt (2006), available from the American Academy of Ambulatory Care Nursing, in this week's topic. This resource provides a summary of the PICOT question formats. Students will use the "intervention" PICOT question format for the purposes of this course.

https://www.aaacn.org/sites/default/files/documents/misc-docs/1e\_PICOT\_Questions\_template.pdf

## Start With a PICOT Question to Make Your Case

Read "Start With a PICOT Question to Make Your Case," by Echevarria and Walker, from *Nursing Critical Care* (2015). This article provides an overview of the PICOT question with various PICOT formats and examples, which is useful in developing your PICOT question in this topic. This resource is helpful in completing the quiz.

https://oce-ovid-com.lopes.idm.oclc.org/article/01244666-201505000-00004/PDF

#### **EBP: Evidence Based Practice**

Read "EBP: Evidence Based Practice," located in the Student Success Center. This interactive resource provides an overview of how research is used to promote evidence-based practice (EBP).

https://lc.gcumedia.com/hlt540/ebp/v2.1/#/

## **Nursing Research: Understanding Methods for Best Practice**

Read Chapter 1 in Nursing Research: Understanding Methods for Best Practice.

# **Research Terminology**

Explore the "Research Terminology" website from Ebling Library, UW - Madison. This resource provides basic research terminology with definitions. Students should familiarize themselves with these terms in order to start building the foundation for this course. This resource is also helpful for completing the quiz.

https://ebling.library.wisc.edu/materials/subject-guides/research-resources-for-nurses/nursing-research-research-terminology/

#### **Assessments**

# **Summary of Current Course Content Knowledge**

Start Date & Time Due Date & Time Points

Apr 8, 2024, 12:00 AM Apr 8, 2024, 11:59 PM 0

#### Assessment Description

Academic engagement through active participation in instructional activities related to the course objectives is paramount to your success in this course and future courses. Through interaction with your instructor and classmates, you will explore the course material and be provided with the best opportunity for objective and competency mastery. To begin this class, review the course objectives for each Topic, and then answer the following questions as this will help guide your instructor for course instruction.

- 1. Which weekly objectives do you have prior knowledge of and to what extent?
- 2. Which weekly objectives do you have no prior knowledge of?
- 3. What course-related topics would you like to discuss with your instructor and classmates? What questions or concerns do you have about this course?

#### **Class Introductions**

Start Date & Time Due Date & Time Points

Apr 8, 2024, 12:00 AM Apr 10, 2024, 11:59 PM 0

#### Assessment Description

Take a moment to explore your new classroom and introduce yourself to your fellow classmates. What are you excited about learning? What do you think will be most challenging?

#### Topic 1 DQ 1

Start Date & Time Due Date & Time Points

Apr 8, 2024, 12:00 AM Apr 10, 2024, 11:59 PM 8

## Assessment Description

After reviewing the course textbook, summarize the history of nursing research. Discuss the importance of nursing research as it relates to applying evidence in practice (evidence-based practice).

Initial discussion question posts should be a minimum of 200 words and include at least two references cited using APA format. Responses to peers or faculty should be 100-150 words and include one reference. Refer to "RN-BSN Discussion Question Rubric" and "RN-BSN Participation Rubric," located in Class Resources, to understand the expectations for initial discussion question posts and participation posts, respectively.

## Topic 1 DQ 2

Start Date & Time Due Date & Time Points

Apr 8, 2024, 12:00 AM Apr 12, 2024, 11:59 PM 8

#### Assessment Description

The first step of the evidence-based practice process is to evaluate a nursing practice environment to identify a nursing problem in the clinical area. When a nursing problem is discovered, the nurse researcher develops a clinical guiding question to address that nursing practice problem.

For this discussion question, you will create a clinical guiding question known as a PICOT question. The PICOT question must be relevant to a nursing practice problem (coordination of health care, assessment, education, patient support, trauma prevention, recovery, health screenings, etc.).

After reviewing the relevant topic materials:

- 1. Select a nursing practice problem of interest.
- 2. Develop a PICOT question using the template and example provided below.
- 3. Identify two articles, one qualitative and one quantitative, related to the problem of interest. Provide an APA-formatted reference for each article, and explain how each relates to your PICOT question. Be sure to identify which article is qualitative and which article is quantitative. These articles may be used in this week's assignment.

# PICOT question intervention format:

In	(Population), how does _	(Intervention) compared to	(Comparison) affect
	(Outcome) within	(Time, optional)?	

**Example:** In critically ill patients in an Intensive Care Unit (ICU) (P), how do daily 2% chlorhexidine cloth baths (I) compared to daily disposable non-antimicrobial cloth baths (C) affect the incidence of health care-associated infections (HAIs) (O)?

In responses to peers, provide feedback related to peers' PICOT questions and their associated articles.

Initial discussion question posts should be a minimum of 200 words and include at least two references cited using APA format. Responses to peers or faculty should be 100-150 words and include one reference. Refer to "RN-BSN Discussion Question Rubric" and "RN-BSN Participation Rubric," located in Class Resources, to understand the expectations for initial discussion question posts and participation posts, respectively.

#### **Literature Evaluation Table**

Start Date & Time Due Date & Time Points
Apr 8, 2024, 12:00 AM Apr 14, 2024, 11:59 PM 150

#### Assessment Description

The purpose of this assignment is to refine the PICOT question you developed in the discussion forum this week and begin evaluating literature that you will use in subsequent weeks to write your research paper.

Use the "Literature Evaluation Table" to complete this assignment. Prior to starting the "Literature Evaluation Table," complete the following:

- 1. Review the feedback you have received in the discussion forum related to your PICOT question so far. Make any necessary edits to your PICOT question.
- 2. Conduct a literature search to locate four research articles focused on your selected nursing practice problem of interest. Note: This literature search should include two quantitative and two qualitative, peer-reviewed, primary research articles to support your nursing practice problem. A mixed methods article can qualify towards meeting a qualitative or quantitative methodology. The two articles identified in Topic 1 DQ 2 can be used should you still find them relevant to your PICOT question.

Articles must be published within the past 5 years, appropriate for the assignment criteria, and relevant to nursing practice.

The PICOT question and four peer-reviewed research articles you chose will be utilized for subsequent assignments.

Note: For best search results, do not include the words qualitative and quantitative in your search terms. Do include words that narrow or broaden your main topic. For example: Search for diabetes and pediatric and dialysis. To determine what research design was used in the articles the search produced, review the abstract and the methods section of the article. The author will provide a description of data collection using qualitative or quantitative methods. Systematic reviews, literature reviews, and metanalysis articles are good resources and provide a strong level of evidence but are not considered primary research articles. Therefore, they should not be included in this assignment.

While APA style is not required for the body of this assignment, solid academic writing is expected, and documentation of sources should be presented using APA formatting guidelines, which can be found in the APA Style Guide, located in the Student Success Center.

This assignment uses a rubric. Please review the rubric prior to beginning the assignment to become familiar with the expectations for successful completion.

You are not required to submit this assignment to LopesWrite.

American Association of Colleges of Nursing Core Competencies for Professional Nursing Education

This assignment aligns to AACN Core Competency 1.2, 3.5, 4.1, 4.2

# Research Terminology and Evidence-Based Practice (EBP)

Start Date & Time Due Date & Time Points

Apr 8, 2024, 12:00 AM Apr 14, 2024, 11:59 PM 30

Assessment Traits



#### Assessment Description

Complete the "Research Terminology and Evidence-Based Practice (EBP)" quiz. You will have 60 minutes to complete the quiz. You will have one opportunity to attempt the quiz, and it cannot be reopened once started.

## **Week 1 Participation**

Start Date & Time Due Date & Time

e Date & Time Points

Apr 8, 2024, 12:00 AM Apr 14, 2024, 11:59 PM 32

# **Topic 2: Research Ethics and Evaluating Qualitative Research**

#### Objectives:

- 1. Compare different types of qualitative designs.
- Evaluate a qualitative research article.
- 3. Analyze the ethical considerations associated with conducting nursing research.

Apr 15, 2024 - Apr 21, 2024 Max Points: 188

#### Resources

# **Nursing Ethical Considerations**

Read "Nursing Ethical Considerations," by Haddad and Geiger, from *StatPearls* (2023). This article provides a summary of the American Nurses Association Code of Ethics and discusses implications for the nursing profession.

https://www.ncbi.nlm.nih.gov/books/NBK526054/

## **Belmont Report**

Read "The Belmont Report," by the National Commission for the Protection of Human Subjects of Biomedical and Behavioral Research, from the Department of Health, Education, and Welfare (1979). The Belmont Report outlines the basic ethical principles and guidelines for conduct of research with human subjects. This report is summarized in Chapter 1 of your textbook and can be reviewed in more detail here.

https://www.hhs.gov/ohrp/regulations-and-policy/belmont-report/index.html

# Optional - Should the Regulation of Research Misconduct Be Integrated With the Ethics Framework Promulgated in the Belmont Report?

For additional information, the following is recommended:

"Should the Regulation of Research Misconduct Be Integrated With the Ethics Framework Promulgated in the Belmont Report?" by Redman and Caplan, from *Ethics and Human Research* (2021). This article provides an interesting analysis related to the regulation of research misconduct and is a resource listed for further reading if desired.

https://lopes.idm.oclc.org/login?url=https://search.ebscohost.com/login.aspx?direct=true&db=a9h&AN=148185032&site=ehost-live&scope=site&custid=s8333196&groupid=main&profile=ehost

#### **CASP Qualitative Checklist**

Refer to "CASP Qualitative Checklist," from the Critical Appraisal Skills Programme, for help in completing the second discussion question in this topic. This resource is used to evaluate a qualitative research article.

https://casp-uk.net/images/checklist/documents/CASP-Qualitative-Studies-Checklist/CASP-Qualitative-Checklist-2018\_fillable\_form.pdf

# NRS-445 The Belmont Report Lecture

Review the following presentation to gain a better understanding of the Belmont Report and the role it plays in conducting research. This resource is useful in completing the assignment for this week.

https://www.loom.com/share/cdeff3163bda49519d415f14760975a1

# The Research Ethics Involving Vulnerable Groups

Read "The Research Ethics Involving Vulnerable Groups," by Gonzalez-Duarte et al., from *Revista de Investigacion Clinica* (2019). This article reviews possible issues when conducting research involving vulnerable populations and provides tools to overcome each identified problem.

https://clinicalandtranslationalinvestigation.com/frame\_esp.php?id=220

# **How to Appraise Qualitative Research**

Read "How to Appraise Qualitative Research," by Moorely and Cathala, from *Evidence-Based Nursing* (2019). This article provides a guide on how to critically appraise a qualitative research paper.

https://lopes.idm.oclc.org/login?url=http://ovidsp.ovid.com.lopes.idm.oclc.org/ovidweb.cgi?
T=JS&CSC=Y&NEWS=N&PAGE=fulltext&AN=00124408-201901000-00004&LSLINK=80&D=ovft

# **Legal and Ethical Issues in Research**

Read "Legal and Ethical Issues in Research," by Yip, Han, and Sng, from *Indian Journal of Anaesthesia* (2016). This article discusses possible legal and ethical issues in research and associated considerations.

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC5037952/

# Introduction to Qualitative Nursing Research: This Type of Research Can Reveal Important Information That Quantitative Research Can't

Read "Introduction to Qualitative Nursing Research: This Type of Research Can Reveal Important Information That Quantitative Research Can't," by Chicca, from *American Nurse Journal* (2020). This article introduces qualitative nursing research.

https://link.gale.com/apps/doc/A627597849/AONE?u=canyonuniv&sid=bookmark-AONE&xid=151d6fa3

# **Nursing Research: Understanding Methods for Best Practice**

Read Chapter 2 in Nursing Research: Understanding Methods for Best Practice.

## **Qualitative Methods in Health Care Research**

Read "Qualitative Methods in Health Care Research," by Renjith, Yesodharan, Noronha, Ladd, and George, from *International Journal of Preventive Medicine* (2021). This article discusses the differences between qualitative and quantitative research and provides a detailed review of qualitative methods and techniques. This resource can help students who are seeking additional information related to qualitative methods.

https://www-ncbi-nlm-nih-gov.lopes.idm.oclc.org/pmc/articles/PMC8106287/

## The Belmont Report: The Triple Crown of Research Ethics

Read "The Belmont Report: The Triple Crown of Research Ethics," by Miracle, from *Dimensions of Critical Care Nursing* (2016). This article provides an overview of the Belmont Report and gives examples of its application in practice and research.

https://journals.lww.com/dccnjournal/fulltext/2016/07000/the\_belmont\_report\_\_the\_triple\_crown\_of\_research.8.aspx

#### The ICN Code of Ethics for Nurses

Read "The ICN Code of Ethics for Nurses," by the International Council of Nurses (2021). This resource from the International Council of Nurses (ICN) outlines the elements of the nursing code of ethics for the nursing profession applicable to an array of nursing roles and settings.

https://www.icn.ch/sites/default/files/2023-04/ICN\_Code-of-Ethics\_EN\_Web\_0\_0.pdf

#### **Assessments**

## Topic 2 DQ 1

Start Date & Time Due Date & Time Points

Apr 15, 2024, 12:00 AM Apr 17, 2024, 11:59 PM 8

#### Assessment Description

The three types of qualitative research designs are phenomenological, grounded theory, and ethnographic research. Compare the differences and similarities between two of the three types of qualitative studies and give an example of each.

Initial discussion question posts should be a minimum of 200 words and include at least two references cited using APA format. Responses to peers or faculty should be 100-150 words and include one reference. Refer to "RN-BSN Discussion Question Rubric" and "RN-BSN Participation Rubric," located in Class Resources, to understand the expectations for initial discussion question posts and participation posts, respectively.

American Association of Colleges of Nursing Core Competencies for Professional Nursing Education

This assignment aligns to AACN Core Competency 4.1, 4.2

# Topic 2 DQ 2

Start Date & Time Due Date & Time Points

Apr 15, 2024, 12:00 AM Apr 19, 2024, 11:59 PM 8

#### Assessment Description

Select a qualitative research article, different than the one you used in Topic 1, focusing on a clinical nursing problem of your choice. Use this research article to address the following questions:

- 1. Provide an APA reference of the article including a GCU permalink or working link used to access the article.
- 2. Study design: How did you determine that the article is qualitative? What study methodology is used?
- 3. Using the "CASP Qualitative Checklist," found in topic Resources, evaluate the study. Based on your findings, summarize the critical appraisal of the selected research article.

Initial discussion question posts should be a minimum of 200 words and include at least two references cited using APA format. Responses to peers or faculty should be 100-150 words and include one reference. Refer to "RN-BSN Discussion Question Rubric" and "RN-BSN Participation Rubric," located in Class Resources, to understand the expectations for initial discussion question posts and participation posts, respectively.

# **Benchmark - Ethical Conduct of Scholarly Activities**

Start Date & Time Due Date & Time Points

Apr 15, 2024, 12:00 AM Apr 21, 2024, 11:59 PM 140

Assessment Traits

Requires LopesWrite

**♀** Benchmark

#### Assessment Description

The focus of this assignment is to apply the principles detailed in the Belmont Report to case studies involving human subjects in research or a quality improvement project.

Utilize the "Ethical Conduct of Scholarly Activities" document to complete this assignment.

While APA style is not required for the body of this assignment, solid academic writing is expected, and documentation of sources should be presented using APA formatting guidelines, which can be found in the APA Style Guide, located in the Student Success Center.

This assignment uses a rubric. Please review the rubric prior to beginning the assignment to become familiar with the expectations for successful completion.

You are required to submit this assignment to LopesWrite. A link to the LopesWrite technical support articles is located in Class Resources if you need assistance.

## Benchmark Information

This benchmark assignment assesses the following programmatic competencies and professional standards:

RN-BSN

4. 3: Promote the ethical conduct of scholarly activities [AACN ]

American Association of Colleges of Nursing Core Competencies for Professional Nursing Education

This assignment aligns to AACN Core Competency 1.2, 4.3, 9.1, 10.2

## **Week 2 Participation**

Start Date & Time Due Date & Time Points
Apr 15, 2024, 12:00 AM Apr 21, 2024, 11:59 PM 32

# **Topic S: Research Ethics and Evaluating Quantitative Research**

#### Objectives:

- 1. Compare different types of research variables.
- 2. Identify ethical considerations when using a quantitative research approach.
- 3. Evaluate a quantitative research study.
- 4. Synthesize a literature review based on an evaluation of nursing research articles.

Apr 22, 2024 - Apr 28, 2024 Max Points: 228

#### Resources

# **Sampling Design in Nursing Research**

Read "Sampling Design in Nursing Research," by Curtis and Keeler, from *American Journal of Nursing* (2021). This article focuses on sampling design in nursing research. It provides an overview of sampling methodology, generalizability, and selection bias. It provides a great introduction to this topic and is useful in evaluating

sampling strategies of studies students review. The discussion on generalizability will also be helpful in the subsequent topic's discussion forum.

https://lopes.idm.oclc.org/login?url=http://ovidsp.ovid.com.lopes.idm.oclc.org/ovidweb.cgi? T=JS&CSC=Y&NEWS=N&PAGE=fulltext&AN=00000446-202103000-00024&LSLINK=80&D=ovft

# Essential Versus Nonessential: The Ethics of Conducting Non-COVID Research in a Population of Persons Living With Serious Illness During the COVID-19 Pandemic

Read "Essential Versus Nonessential: The Ethics of Conducting Non-COVID Research in a Population of Persons Living With Serious Illness During the COVID-19 Pandemic," by Shive, Doorenbos, Schmiege, and Coats, from *Journal of Hospice and Palliative Nursing* (2022). This article provides a review of randomized controlled trials conducted in acute care hospital settings during the COVID-19 pandemic in order to discuss lessons learned and provide an ethical framework for conducting research involving vulnerable populations during a pandemic. It incorporates considerations related to the Code of Ethics for Nurses and the Belmont Report. This article is useful in the discussion for this week.

https://lopes.idm.oclc.org/login?url=http://ovidsp.ovid.com.lopes.idm.oclc.org/ovidweb.cgi? T=JS&CSC=Y&NEWS=N&PAGE=fulltext&AN=00129191-202202000-00009&LSLINK=80&D=ovft

# **Ensuring Data Fidelity in Quantitative Research**

Read "Ensuring Data Fidelity in Quantitative Research," by Siegmund and Siedlecki, from *Clinical Nurse Specialist* (2021). This resource provides an overview of data fidelity in quantitative research and discusses considerations in prevention and remedies of data fidelity issues.

https://lopes.idm.oclc.org/login?url=http://ovidsp.ovid.com.lopes.idm.oclc.org/ovidweb.cgi? T=JS&CSC=Y&NEWS=N&PAGE=fulltext&AN=00002800-202111000-00003&LSLINK=80&D=ovft

# **Nursing Research: Understanding Methods for Best Practice**

Read Chapter 3 in Nursing Research: Understanding Methods for Best Practice.

## **Optional - ThinkingStorm Online Tutoring**

For additional information, the following is recommended:

Access "ThinkingStorm Online Tutoring," located on the ThinkingStorm website. This resource provides information on the writing center resources at GCU. All learners also have access to 5 hours of support through ThinkingStorm, which can be used for support in proofreading your paper.

https://www.thinkingstorm.com/GCUinfo.aspx

#### **CASP Randomised Controlled Trial Standard Checklist**

Refer to the "CASP Randomised Controlled Trial Standard Checklist," from the Critical Appraisal Skills Programme, for help in completing the second discussion question in this topic. This resource is used to evaluate a quantitative research article.

https://casp-uk.net/images/checklist/documents/CASP-Randomised-Controlled-Trial-Checklist/CASP-RCT-Checklist-PDF-Fillable-Form.pdf

# **Experimental (Trial) Research**

Read "Experimental (Trial) Research," by Stoica, from *Salem Press Encyclopedia* (2021). This article presents information on experimental research and includes a discussion on independent, dependent, and extraneous variables, which is helpful for this week's discussion.

https://lopes.idm.oclc.org/login?url=https://search.ebscohost.com/login.aspx? direct=true&db=ers&AN=89164212&site=eds-live&scope=site&custid=s8333196&groupid=main&profile=eds1

# **Assessments**

## Topic S DQ 1

Start Date & Time Due Date & Time Points

Apr 22, 2024, 12:00 AM Apr 24, 2024, 11:59 PM 8

# Assessment Description

Compare independent variables, dependent variables, and extraneous variables. Describe two ways that researchers attempt to control extraneous variables. Provide an example of how this is applied using a peer-reviewed, primary research article.

Initial discussion question posts should be a minimum of 200 words and include at least two references cited using APA format. Responses to peers or faculty should be 100-150 words and include one reference. Refer to "RN-BSN Discussion Question Rubric" and "RN-BSN Participation Rubric," located in Class Resources, to understand the expectations for initial discussion question posts and participation posts, respectively.

## Topic S DQ 2

Start Date & Time Due Date & Time Points

Apr 22, 2024, 12:00 AM Apr 26, 2024, 11:59 PM 8

#### Assessment Description

Select a research article that uses a randomized controlled trial focusing on a clinical nursing problem of your choice. Use this research article to address the following questions:

- 1. Provide an APA reference of the article including a GCU permalink or working link used to access the article.
- 2. Using the "CASP Randomized Controlled Trial Checklist," found in topic Resources, evaluate the study. Based on your findings, summarize the critical appraisal of the selected research article.

Page 15 Prepared on: Apr 16, 2024, 10:49 PM

3. Do the benefits of the experimental intervention outweigh the harms and costs? Identify and discuss one other ethical consideration applicable to quantitative research studies such as this one.

Initial discussion question posts should be a minimum of 200 words and include at least two references cited using APA format. Responses to peers or faculty should be 100-150 words and include one reference. Refer to "RN-BSN Discussion Question Rubric" and "RN-BSN Participation Rubric," located in Class Resources, to understand the expectations for initial discussion question posts and participation posts, respectively.

## Rough Draft - Research Critiques and Evidence-Based Practice Proposal

Start Date & Time

Due Date & Time

Points

Apr 22, 2024, 12:00 AM Apr 28, 2024, 11:59 PM 180

**Assessment Traits** 

Requires LopesWrite

#### Assessment Description

The purpose of this assignment is to synthesize a literature review that will be used to draw conclusions in order to propose an evidence-based practice change to address your identified nurse practice problem.

Using the "Literature Evaluation Table" assignment in Topic 1, and accompanying faculty feedback, you will synthesize the information created for your PICOT question into a literature review and evidence-based proposal.

In a 1,500-1,750-word paper, provide an overview that illustrates the research related to your particular PICOT question.

Use the following components from the "Literature Evaluation Table" to complete the assignment:

- · Identified practice problem
- Two qualitative peer-reviewed research articles
- Two quantitative peer-reviewed research articles

Use the "Research Critiques and Evidence-Based Practice Proposal Guidelines" document to organize your paper.

You are required to cite a minimum of four peer-reviewed sources to complete this assignment. Sources must be published within the past 5 years, appropriate for the assignment criteria, and relevant to nursing practice.

Prepare this assignment according to the guidelines found in the APA Style Guide, located in the Student Success Center.

This assignment uses a rubric. Please review the rubric prior to beginning the assignment to become familiar with the expectations for successful completion.

You are required to submit this assignment to LopesWrite. A link to the LopesWrite technical support articles is located in Class Resources if you need assistance.

## **Week S Participation**

# **Topic 4: Statistics and Appraisal of Evidence**

#### Objectives:

- 1. Discuss the use of p-value in determining statistical significance in quantitative research.
- 2. Describe the influence "levels of evidence" have on practice changes.

Apr 29, 2024 - May 5, 2024 Max Points: 48

#### **Resources**

## **Measurement in Nursing Research**

Read "Measurement in Nursing Research," by Curtis and Keeler, from *American Journal of Nursing* (2021). This resource provides a summary of measurement in nursing research with a focus on defining variables, measurement tools, levels of measurement, measurement error, and validity and reliability.

https://lopes.idm.oclc.org/login?url=http://ovidsp.ovid.com.lopes.idm.oclc.org/ovidweb.cgi? T=JS&CSC=Y&NEWS=N&PAGE=fulltext&AN=00000446-202106000-00027&LSLINK=80&D=ovft

## Creating a Nursing Procedure: When Evidence-Based Practice Doesn't Fill in All the Blanks

Read "Creating a Nursing Procedure: When Evidence-Based Practice Doesn't Fill in All the Blanks," by Bartzak, from *MEDSURG Nursing* (2021). This article sheds light on the science of nursing, levels of evidence, and how to inform institutional policies based on nursing research. It is helpful with the discussion for this week.

https://lopes.idm.oclc.org/login?url=https://search.ebscohost.com/login.aspx?direct=true&db=cul&AN=148827590&site=ehost-live&scope=site&custid=s8333196&groupid=main&profile=ehost

# Statistics From Clinical Studies: Five Things to Know

Read "Statistics From Clinical Studies: Five Things to Know," by Gershman, from *Drug Topics* (2019). This article provides a summary of statistics concepts relevant to clinical studies.

https://search-ebscohost-com.lopes.idm.oclc.org/login.aspx?direct=true&db=bth&AN=136967437&site=ehost-live&scope=site&custid=s8333196&groupid=main&profile=ehost

# P-Value and Statistical Significance: What It Is and Why It Matters

Read "P-Value and Statistical Significance: What It Is and Why It Matters," by Mcleod, from the SimplyPsychology website (2023). This resource provides an overview of p-values and their relationship to statistical significance, which is helpful in this week's discussion.

https://www.simplypsychology.org/p-value.html

#### Translation in Research Practice: An Introduction

Read "Translation in Research Practice: An Introduction," by Titler, from *Online Journal of Issues in Nursing* (2018). This article introduces translation science, which is used to increase the uptake of evidence in practice. It provides definitions of key terms and relevant examples related to this topic, which is useful in understanding how nursing research impacts practice.

http://ojin.nursingworld.org/MainMenuCategories/ANAMarketplace/ANAPeriodicals/OJIN/TableofContents/Vol-23-2018/No2-May-2018/Translational-Research-in-Practice.html

## **How to Calculate P-Values**

Watch "How to Calculate P-Values," by StatQuest with Josh Starmer, located on the YouTube website (2020). This short video defines a p-value and provides an example of its application through the presentation of a hypothetical research study. Understanding p-values will be helpful in this week's discussion.

https://youtu.be/JQc3yx0-Q9E?si=477xhMLdvZYS54zN

# **Nursing Research: Understanding Methods for Best Practice**

Read Chapter 4 in Nursing Research: Understanding Methods for Best Practice.

# **Statistical Significance 101**

Read "Statistical Significance 101," from The Advisory Board Company (2018). This resource provides a 1-page summary of what statistical significance is, how it is determined, and how it is applied in evidence-based practice (EBP). This resource will be helpful in the discussion forum for this topic.

https://www.advisory.com/content/dam/advisory/en/public/shared/Daily-Briefing/2018/Cheat-Sheet EBP StatSignif updated.pdf

#### A Nurses' Guide to the Hierarchy of Research Designs and Evidence

Read "A Nurses' Guide to the Hierarchy of Research Designs and Evidence," by Ingham-Broomfield, from *Australian Journal of Advanced Nursing* (2016). This article provides a detailed explanation of the hierarchy of research including the levels of evidence, which is useful in this week's discussion.

https://lopes.idm.oclc.org/login?url=https://search.ebscohost.com/login.aspx?direct=true&db=cul&AN=114833287&site=ehost-live&scope=site&custid=s8333196&groupid=main&profile=ehost

# Chapter 18: Using Research Evidence-Based Nursing Practice

View the PowerPoint slideshow, "Chapter 18: Using Research in Evidence-Based Nursing Practice."

# **Evidence-Based Practice (EBP)**

Read "Evidence-Based Practice (EBP)," located under the Doctor of Nursing Practice tab from the Research Guides at the GCU Library. This resource reviews the levels of evidence through the presentation of the Pyramid of Evidence, which is useful in completing the discussions this week.

https://libguides.gcu.edu/DNP/Evidence

#### **Assessments**

## Topic 4 DQ 1

Start Date & Time Due Date & Time Points

Apr 29, 2024, 12:00 AM May 1, 2024, 11:59 PM 8

## Assessment Description

Statistical significance refers to the likelihood that the results of a study are not due to chance, while clinical significance refers to the practical importance of the results in terms of their impact on patient care. In other words, statistical significance is a measure of the strength of the evidence, while clinical significance is a measure of the relevance of the evidence to real-world situations.

Using a quantitative research article from one of the previous topics, analyze the p-value. What is it? Is it statistically significant? If your p-value is not statistically significant, what is the clinical significance? Generalizability of research depends on a variety of factors. List three factors of generalizability, and discuss whether this research article is generalizable to the nursing problem you are researching.

Initial discussion question posts should be a minimum of 200 words and include at least two references cited using APA format. Responses to peers or faculty should be 100-150 words and include one reference. Refer to "RN-BSN Discussion Question Rubric" and "RN-BSN Participation Rubric," located in Class Resources, to understand the expectations for initial discussion question posts and participation posts, respectively.

## Topic 4 DQ 2

Start Date & Time Due Date & Time Points

Apr 29, 2024, 12:00 AM May 3, 2024, 11:59 PM 8

Describe the influence "levels of evidence" have on practice changes. Identify the most reliable level of evidence and provide an example of the type of practice change that could result from this level of evidence.

Initial discussion question posts should be a minimum of 200 words and include at least two references cited using APA format. Responses to peers or faculty should be 100-150 words and include one reference. Refer to "RN-BSN Discussion Question Rubric" and "RN-BSN Participation Rubric," located in Class Resources, to understand the expectations for initial discussion question posts and participation posts, respectively.

American Association of Colleges of Nursing Core Competencies for Professional Nursing Education

This assignment aligns to AACN Core Competency 4.1

## **Week 4 Participation**

Start Date & Time Due Date & Time Points
Apr 29, 2024, 12:00 AM May 5, 2024, 11:59 PM 32

# Topic 5: Characteristics of Nursing Research Utilization and Evidence-Based Practice

#### Objectives:

- 1. Propose an evidence-based practice change to improve outcomes of patient care for an identified setting.
- 2. Discuss how evidence from research is applied in nursing practice.
- 3. Explain the advantages and disadvantages of qualitative and quantitative studies when applied to nursing research.

May 6, 2024 - May 12, 2024 Max Points: 308

#### Resources

## The State of Mixed Methods Research in Nursing: A Focused Mapping Review and Synthesis

Read "The State of Mixed Methods Research in Nursing: A Focused Mapping Review and Synthesis," by Irvine et al., from *Journal of Advanced Nursing* (2020). This article reviews the use of mixed methods in nursing research.

https://lopes.idm.oclc.org/login?url=https://search.ebscohost.com/login.aspx?direct=true&db=edswss&AN=000566816600001&site=ehost-live&scope=site&custid=s8333196&groupid=main&profile=ehost

# How to Implement a Change in Practice

Read "How to Implement a Change in Practice," by Gesme and Wiseman, from Journal of Oncology Practice

(2010).

https://www.ncbi.nlm.nih.gov/pmc/articles/PMC2936472/

# Translational Research to Reduce Health Disparities and Promote Health Equity

Read "Translational Research to Reduce Health Disparities and Promote Health Equity," by Tucker, Kang, and Williams, from *Translational Issues in Psychological Science* (2019). This article defines translational research and discusses its application in reducing health disparities and promoting health equity.

https://lopes.idm.oclc.org/login?url=https://search.ebscohost.com/login.aspx?direct=true&db=pdh&AN=2019-77891-001&site=ehost-live&scope=site&custid=s8333196&groupid=main&profile=ehost

# **Nursing Research: Understanding Methods for Best Practice**

Read Chapter 5 in Nursing Research: Understanding Methods for Best Practice.

## **National Nursing Research Roundtable**

Explore "National Nursing Research Roundtable," located on the National Institute of Nursing Research website. The National Nursing Research Roundtable, part of the National Institute of Nursing Research, provides a forum for nurse clinicians, scientists, and scholars to share ideas and advance nursing research. This website provides summaries and other publications from past events.

https://www.ninr.nih.gov/newsandinformation/roundtable

# Implementation: The Linchpin of Evidence-Based Practice Changes

Read "Implementation: The Linchpin of Evidence-Based Practice Changes," by Tucker, from *American Nurse Today* (2019). This article reviews evidence-based implementation models, evidence-based practice (EBP) uptake strategies, and the overall implementation process with a case study example.

https://lopes.idm.oclc.org/login?url=https://search.ebscohost.com/login.aspx?direct=true&db=cul&AN=135476149&site=ehost-live&scope=site&custid=s8333196&groupid=main&profile=ehost

#### **Assessments**

#### Topic 5 DQ 1

Start Date & Time Due Date & Time Points
May 6, 2024, 12:00 AM May 8, 2024, 11:59 PM 8

#### Assessment Description

The theoretical foundations of qualitative and quantitative methods are very different, but many researchers believe both methods should be used in research studies to increase validity and reliability. What advantages or disadvantages do you see in using both types of methods in a nursing study? Provide an example of a nursing practice problem that could be studied using a mixed methods approach.

Initial discussion question posts should be a minimum of 200 words and include at least two references cited using APA format. Responses to peers or faculty should be 100-150 words and include one reference. Refer to "RN-BSN Discussion Question Rubric" and "RN-BSN Participation Rubric," located in Class Resources, to understand the expectations for initial discussion question posts and participation posts, respectively.

American Association of Colleges of Nursing Core Competencies for Professional Nursing Education

This assignment aligns to AACN Core Competency 4.1

# Topic 5 DQ 2

Start Date & Time Due Date & Time Points

May 6, 2024, 12:00 AM May 10, 2024, 11:59 PM 8

#### Assessment Description

According to the textbook, nurses in various settings are adopting a research-based (or evidence-based) practice that incorporates research findings into their decisions and interactions with patients. Analyze the role nurses play in improving health care quality and safety through the use of evidence-based practice (EBP). How do you see this role being applied in your workplace? What internal stakeholder perspectives would you need to consider, including stakeholder support, in order to successfully implement an EBP project in your workplace?

Initial discussion question posts should be a minimum of 200 words and include at least two references cited using APA format. Responses to peers or faculty should be 100-150 words and include one reference. Refer to "RN-BSN Discussion Question Rubric" and "RN-BSN Participation Rubric," located in Class Resources, to understand the expectations for initial discussion question posts and participation posts, respectively.

American Association of Colleges of Nursing Core Competencies for Professional Nursing Education

This assignment aligns to AACN Core Competency 1.1, 4.1, 5.1, 6.4, 10.3

## Final Draft - Research Critiques and Evidence-Based Practice Proposal

Start Date & Time Due Date & Time Points

May 6, 2024, 12:00 AM May 12, 2024, 11:59 PM 260

**Assessment Traits** 

Requires LopesWrite

Assessment Description

The purpose of this assignment is to incorporate the instructor-recommended revisions or changes from the Topic 3 "Rough Draft - Research Critiques and Evidence-Based Practice Proposal" to develop a 1,500-1,750-word final draft.

Use the "Research Critiques and Evidence-Based Practice Proposal Guidelines" document to organize your essay. Questions under each heading should be addressed in the structure of a formal paper.

You are required to cite a minimum of four peer-reviewed sources to complete this assignment. Sources must be published within the past 5 years, appropriate for the assignment criteria, and relevant to nursing practice.

Prepare this assignment according to the guidelines found in the APA Style Guide, located in the Student Success Center.

This assignment uses a rubric. Please review the rubric prior to beginning the assignment to become familiar with the expectations for successful completion.

You are required to submit this assignment to LopesWrite. A link to the LopesWrite technical support articles is located in Class Resources if you need assistance.

American Association of Colleges of Nursing Core Competencies for Professional Nursing Education

This assignment aligns to AACN Core Competency 4.1, 4.2, 5.1

# **Week 5 Participation**

Start Date & Time Due Date & Time Points

May 6, 2024, 12:00 AM May 12, 2024, 11:59 PM 32