Start Date & Time

Apr 10, 2023, 12:00 AM

Due Date & Time

Apr 16, 2023, 11:59 PM

Status

**Active**

Rubric

[View Rubric](https://halo.gcu.edu/courses/HLT-362V-O502-20230410/rubrics/7c028cce-b98d-4686-b105-1b646a97c3ca)

Assessment Traits

Requires Lopeswrite

Assessment Description

Statistical application and the interpretation of data is important in health care. Review the statistical concepts covered in this topic. In a 750-1,000 word paper, discuss the significance of statistical application in health care. Include the following:

1. Describe the application of statistics in health care. Specifically discuss its significance to quality, safety, health promotion, and leadership.
2. Consider your organization or specialty area and how you utilize statistical knowledge. Discuss how you obtain statistical data, how statistical knowledge is used in day-to-day operations and how you apply it or use it in decision making.

Three peer-reviewed, scholarly or professional references are required.

Prepare this assignment according to the guidelines found in the APA Style Guide, located in the Student Success Center. An abstract is not required.

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.

SUBMIT ASSIGNMENT

**Topic 2 DQ 1**

Start Date & Time

Feb 20, 2023, 12:00 AM

Due Date & Time

Feb 22, 2023, 11:59 PM

Status

**Upcoming**

Assessment Description

Select a research article, other than the articles from your assignments, from the GCU library. Provide an overview of the study and describe the strategy that was used to select the sample from the population. Evaluate the effectiveness of the sampling method selected. Provide support for your answer. Include the article title and permalink in your post.

**Topic 2 DQ 2**

Start Date & Time

Feb 20, 2023, 12:00 AM

Due Date & Time

Feb 24, 2023, 11:59 PM

Status

**Upcoming**

Assessment Description

Using the research article selected for DQ 1, identify three key questions you will ask and answer when reading the research study and why these questions are important. When responding to peers, provide other questions and answers that could be considered in relation to the peers' studies.

**Article Analysis 1**

Start Date & Time

Feb 20, 2023, 12:00 AM

Due Date & Time

Feb 26, 2023, 11:59 PM

Status

**Upcoming**

Rubric

[View Rubric](https://halo.gcu.edu/courses/HLT-362V-O501-20230213/rubrics/bab794a7-abf3-4404-9148-1c90bbb2dcba)

Assessment Traits

Requires Lopeswrite

Assessment Description

The interpretation of research in health care is essential to decision making. By understanding research, health care providers can identify risk factors, trends, outcomes for treatment, health care costs and best practices. To be effective in evaluating and interpreting research, the reader must first understand how to interpret the findings. You will practice article analysis in Topics 2, 3, and 5.

***For this assignment:***

Search the GCU Library and find three different health care articles that use quantitative research. Do not use articles that appear in the topic Resources or textbook. Complete an article analysis for each using the "Article Analysis 1" template.

Refer to the "Patient Preference and Satisfaction in Hospital-at-Home and Usual Hospital Care for COPD Exacerbations: Results of a Randomised Controlled Trial," in conjunction with the "Article Analysis Example 1," for an example of an article analysis.

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.

**Topic 3 DQ 1**

Start Date & Time

Feb 27, 2023, 12:00 AM

Due Date & Time

Mar 1, 2023, 11:59 PM

Status

**Upcoming**

Assessment Description

Provide two different examples of how research uses hypothesis testing, and describe the criteria for rejecting the null hypothesis. Discuss why this is important in your practice and with patient interactions.

**Topic 3 DQ 2**

Start Date & Time

Feb 27, 2023, 12:00 AM

Due Date & Time

Mar 3, 2023, 11:59 PM

Status

**Upcoming**

Assessment Description

Evaluate and provide examples of how hypothesis testing and confidence intervals are used together in health care research. Provide a workplace example that illustrates your ideas.

**Article Analysis 2**

Start Date & Time

Feb 27, 2023, 12:00 AM

Due Date & Time

Mar 5, 2023, 11:59 PM

Status

**Upcoming**

Rubric

[View Rubric](https://halo.gcu.edu/courses/HLT-362V-O501-20230213/rubrics/07a763dc-0c17-40ce-85ed-931d43aaf62f)

Assessment Traits

Requires Lopeswrite

Assessment Description

Search the GCU Library and find two new health care articles that use quantitative research. Do not use articles from a previous assignment, or articles that appear in the topic Resources or textbook.

Complete an article analysis for each using the "Article Analysis: Part 2" template.

Refer to the "Patient Preference and Satisfaction in Hospital-at-Home and Usual Hospital Care for COPD Exacerbations: Results of a Randomised Controlled Trial," in conjunction with the "Article Analysis Example 2," for an example of an article analysis.

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.

**Topic 4 DQ 1**

Start Date & Time

Mar 6, 2023, 12:00 AM

Due Date & Time

Mar 8, 2023, 11:59 PM

Status

**Upcoming**

Assessment Description

Provide an example of experimental, quasi-experimental, and nonexperimental research from the GCU Library and explain how each research type differs from the others. When replying to peers, evaluate the effectiveness of the research design of the study for two of the examples provided.

**Topic 4 DQ 2**

Start Date & Time

Mar 6, 2023, 12:00 AM

Due Date & Time

Mar 10, 2023, 11:59 PM

Status

**Upcoming**

Assessment Description

Describe the difference between research and quality improvement. Provide a workplace example where qualitative and quantitative research is applied and how it was used within your organization. When replying to peers, discuss how these research findings might be incorporated into another health care setting.

**Quality Improvement Proposal**

Start Date & Time

Mar 6, 2023, 12:00 AM

Due Date & Time

Mar 12, 2023, 11:59 PM

Status

**Upcoming**

Rubric

[View Rubric](https://halo.gcu.edu/courses/HLT-362V-O501-20230213/rubrics/f8b5a82d-de13-47b2-9956-6c1e65474469)

Assessment Traits

Requires Lopeswrite

Assessment Description

Identify a quality improvement opportunity in your organization or practice. In a 1,250-1,500 word paper, describe the problem or issue and propose a quality improvement initiative based on evidence-based practice. Apply "The Road to Evidence-Based Practice" process, illustrated in Chapter 4 of your textbook, to create your proposal.

Include the following:

1. Provide an overview of the problem and the setting in which the problem or issue occurs.
2. Explain why a quality improvement initiative is needed in this area and the expected outcome.
3. Discuss how the results of previous research demonstrate support for the quality improvement initiative and its projected outcomes. Include a minimum of three peer-reviewed sources published within the last 5 years, not included in the Class Resources or textbook, that establish evidence in support of the quality improvement proposed.
4. Discuss steps necessary to implement the quality improvement initiative. Provide evidence and rationale to support your answer.
5. Explain how the quality improvement initiative will be evaluated to determine whether there was improvement.
6. Support your explanation by identifying the variables, hypothesis test, and statistical test that you would need to prove that the quality improvement initiative succeeded.

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.

**Topic 5 DQ 1**

Start Date & Time

Mar 13, 2023, 12:00 AM

Due Date & Time

Mar 15, 2023, 11:59 PM

Status

**Upcoming**

Assessment Description

Describe how epidemiological data influences changes in health practices. Provide an example and explain what data would be necessary to make a change in practice.

**Topic 5 DQ 2**

Start Date & Time

Mar 13, 2023, 12:00 AM

Due Date & Time

Mar 17, 2023, 11:59 PM

Status

**Upcoming**

Assessment Description

Discuss ways your organization uses technology to gather patient and health care information, and how this information and data are used to direct patient care and outcomes.

**Article Analysis and Evaluation of Research Ethics**

Start Date & Time

Mar 13, 2023, 12:00 AM

Due Date & Time

Mar 19, 2023, 11:59 PM

Status

**Upcoming**

Rubric

[View Rubric](https://halo.gcu.edu/courses/HLT-362V-O501-20230213/rubrics/9548af99-7ee3-4297-a973-d10871fae95a)

Assessment Traits

Requires Lopeswrite

Assessment Description

Search the GCU Library and find one new health care article that uses quantitative research. Do not use an article from a previous assignment, or that appears in the topic Resources or textbook.

Complete an article analysis and ethics evaluation of the research using the "Article Analysis and Evaluation of Research Ethics" template. See Chapter 5 of your textbook as needed, for assistance.

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.

**Summary and Descriptive Statistics**

Start Date & Time

Mar 13, 2023, 12:00 AM

Due Date & Time

Mar 19, 2023, 11:59 PM

Status

**Upcoming**

Rubric

[View Rubric](https://halo.gcu.edu/courses/HLT-362V-O501-20230213/rubrics/3245a77c-3908-406e-89d6-c0fdb600bf7e)

Assessment Description

There is often the requirement to evaluate descriptive statistics for data within the organization or for health care information. Every year the National Cancer Institute collects and publishes data based on patient demographics. Understanding differences between the groups based upon the collected data often informs health care professionals towards research, treatment options, or patient education.

Using the data on the "National Cancer Institute Data" Excel spreadsheet, calculate the descriptive statistics indicated below for each of the Race/Ethnicity groups. Refer to your textbook and the topic Resources, as needed, for assistance in with creating Excel formulas.

Provide the following descriptive statistics:

1. Measures of Central Tendency: Mean, Median, and Mode
2. Measures of Variation: Variance, Standard Deviation, and Range (a formula is not needed for Range).
3. Once the data is calculated, provide a 150-250 word analysis of the descriptive statistics on the spreadsheet. This should include differences and health outcomes between groups.

APA style is not required, but solid academic writing is expected.

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