

Understanding Research Articles/ Cleveland Clinic WOC Nursing Education

Name of student: Oluremi Fawole_____

Points criteria:

Criteria	Under performance <3 points per criteria	Basic 3 - 3.9 points per criteria	Proficient 4.0 - 4.4 points per criteria	Distinguished 4.5 - 5 points per criteria
Required content objectives	Content objectives are missing or sparsely covered.	Content objectives are not consistently addressed. Demonstrates minimal understanding of content.	Content objectives consistently addressed. Demonstrates understanding of content.	Content objectives consistently addressed. Demonstrates mastery of content.
Academic writing standards	Writing lacks scholarly tone & focus. Sparse content. Multiple grammatical, spelling, & factual errors. Reliance on bullet points rather than effective writing in speaker notes. 4 or more direct quotes per project.	Writing is unclear and/or disorganized. Inconsistent scholarly tone. Inadequate depth of content. Grammatical and spelling errors. No more than 3 direct quote of less than 40 words per project.	Writing demonstrates general exploration of content. Responses are clearly written using scholarly tone. Few grammatical and/or spelling errors. No more than 2 direct quote of less than 40 words per project.	Writing demonstrates comprehensive exploration of content. Responses are clearly written using scholarly tone. Rare grammatical and/or spelling errors. No more than 1 direct quote of less than 40 words per project.
APA formatting	References and citations have multiple errors or are missing.	References and citations have errors.	References and citations have few errors.	References and citations have rare errors.

Carefully review the above rubric and the directions for each of the following pages. Select from **one** of the two articles provided in the course discussions area. Based on the type of research selected, respond to the questions on the following pages.

References: See the course syllabus for specific requirements on references for all assignments.

Understanding Research Articles/ Cleveland Clinic WOC Nursing Education

Part A: Select just one (not both) of the articles from the week two DQ assignment thread. Determine whether the article is qualitative or quantitative research, then, using an academic voice & APA formatted citations/references, **formulate a 150-300 word response to each of the following sections and enter your responses into the textboxes below.**

1. Using APA format, enter the reference for the article you reviewed. Explain the rationale for selecting this research article and how it relates to your own practice.

Dai, T., Lv, L., Liu, X., Chen, J., Ye, Y., & Xu, L. (2020). Nasal pressure injuries due to nasal continuous positive airway treatment in newborns: A prospective observational study. *Journal of Wound, Ostomy, and Continence Nursing*, 47(1), 26-31.

I chose a quantitative research because it allows me to observe directly the of the medical equipment on the neonates used as the subjects of the experiments, the varying conditions and situations of the subjects are also factored into the interpretation of the results, this research method in my opinion gives a strong support and backbone to evidence-based nursing as the results of this kind of research will be applicable to real life patients who might be falling in these categories of the subjects researched in the project. In support of my opinion, Verhoef and Casebeer (1997) stated that “Quantitative research is well suited to establishing cause-and-effect relationships” also quantitative research is applicable to a large population stating that it “generates factual, reliable outcome data that are usually generalizable to some larger populations.”

Verhoef, M.J., Casebeer, A. L., (1997). Broadening horizons: Integrating quantitative and qualitative research. *Canadian Journal of Infectious Diseases*. 8(2), 65-66.

<https://www.ncbi.nlm.nih.gov/pmc/articles/PMC3327344/>

2. Describe how you determined whether the selected research article is qualitative or quantitative.

The research I chose specifically measured a real time “cause-and-effect relationships” (Verhoef & Casebeer, 1997) of the use of Nasal Continuous Positive Airways Pressure treatment in Newborns, the research involved measurable and observable changes in the nasal skin of the newborns, no opinions and no biased input of the individuals factored into the results. Varying situations of the subjects like the gestational age

Understanding Research Articles/ Cleveland Clinic WOC Nursing Education

at birth also gave a result that would be useful for an evidence-based practice. From the research, it is established that the older the newborn at birth, the more mature the skin and the more intact the skin is during the use of the NCPAP. Based on these facts and findings, the selected research is quantitative in nature.

Dai, T., Lv, L., Liu, X., Chen, J., Ye, Y., & Xu, L. (2020). Nasal pressure injuries due to nasal continuous positive airway treatment in newborns:

A prospective observational study. *Journal of Wound, Ostomy, and Continence Nursing*, 47(1), 26-31.

Verhoef, M.J., Casebeer, A. L., (1997). Broadening horizons: Integrating quantitative and qualitative research. *Canadian Journal of Infectious*

Diseases. 8(2), 65-66.

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Understanding Research Articles/ Cleveland Clinic WOC Nursing Education

Part B: Based on the selected research, formulate a response to each of the following 8 questions associated with the selected research type (qualitative or quantitative). Enter your thoughtful responses to the textboxes below. Each response should be 150 - 300 words and cited using APA style from your reference list.

1. Why is IRB/informed consent an important part of research? Determine if Institutional Review Board (IRB) approval/informed consent obtained. If the research was done outside of the United States, the review body may go under a different name.

Humans have freedom of choice and the right to their personal information, who they share it with and what they use their personal information for. It is general knowledge that invading other peoples' privacy is frowned at even by the law of the land. An informed consent is an important part of research because not having such consent would mean an invasion of the individuals subject's privacy. This is punishable by law.

The equivalent body of IRB for this research is the Ethics Committee of the First Affiliated Hospital of Xiamen University. Furthermore "Each patient's parents or legal guardians provided consent for study participation" (Dai et al., 2020)

Dai, T., Lv, L., Liu, X., Chen, J., Ye, Y., & Xu, L. (2020). Nasal pressure injuries due to nasal continuous positive airway treatment in newborns: A prospective observational study. *Journal of Wound, Ostomy, and Continence Nursing*, 47(1), 26-31.

2. Describe (based on selected research type)
 - a. **Qualitative article:** the purpose statement - or -
 - b. **Quantitative article:** the problem and purpose of the research

According to Dai et al., (2020), this research is looking into the problems of nasal injuries due to the use of Nasal Continuous Positive Airway Pressure Treatment in Newborns and the purpose of the study was to calculate the incidence, severity, and risk factors of nasal pressure injuries due to NCPAP treatment in newborns.

Dai, T., Lv, L., Liu, X., Chen, J., Ye, Y., & Xu, L. (2020). Nasal pressure injuries due to nasal continuous positive airway treatment in newborns:

Understanding Research Articles/ Cleveland Clinic WOC Nursing Education

A prospective observational study. *Journal of Wound, Ostomy, and Continence Nursing*, 47(1), 26-31.

3. Describe (based on selected research type)
 - a. **Qualitative article:** research design - or -
 - b. **Quantitative article:** the research questions
 - c.

The research is a “prospective observational study” Questions and information gathered during the experiment were nursing skin assessments along with relevant and applicable clinical data like the sex, birth weight, gestation, hospital stay days, and NCPAP treatment duration. (Dai et al., 2020)

According to Simkus (2023), a prospective observational study is a type of research where researchers select a group of subjects, collect data on the subjects’ response or reaction to certain preset conditions or interventions, the outcomes of these interventions are then tracked by the researchers.

Simkus (2023) further stated that these preset conditions or interventions cannot be controlled experimentally.

Dai, T., Lv, L., Liu, X., Chen, J., Ye, Y., & Xu, L. (2020). Nasal pressure injuries due to nasal continuous positive airway treatment in newborns: A prospective observational study. *Journal of Wound, Ostomy, and Continence Nursing*, 47(1), 26-31.

Simkus, J. (July 31, 2023) *Prospective Cohort Study Design: Definitions and examples*

<https://www.simplypsychology.org/prospective-study.html>

Understanding Research Articles/ Cleveland Clinic WOC Nursing Education

4. Explain in your own words a summary of the literature review used in the selected article.

The literature review is analytical in nature. It recorded and measured the real time effect of interventions, comparing the outcomes and results with variations in the conditions of the subjects. Data and statistical analysis were extensively used in the literature review. This is a tool that is extensively used in prospective observational studies.

5. Identify (based on selected research type)
 - a. **Qualitative:** the data collection method(s) - or -
 - b. **Quantitative:** the study design, including sample, setting, & data collection methods.

The study design is a prospective observational study, the subjects are newborns admitted between March 2017 and February 2018 to the neonatal intensive care unit of the First Affiliated Hospital of Xiamen University, Xiamen, China.

The method: All newborn noses were examined during NCPAP application. These data were collected twice a week by research nurses. Every NCPAP-related nasal pressure injury including occurrence date, injury severity, outcomes, and pressure injuries were classified using the National Pressure Ulcer Advisory Panel/European Pressure Ulcer Advisory Panel pressure injury classification system.

Dai, T., Lv, L., Liu, X., Chen, J., Ye, Y., & Xu, L. (2020). Nasal pressure injuries due to nasal continuous positive airway treatment in newborns: A prospective observational study. *Journal of Wound, Ostomy, and Continence Nursing*, 47(1), 26-31.

Understanding Research Articles/ Cleveland Clinic WOC Nursing Education

6. Analyze (based on selected research type)
 - a. **Qualitative:** the results of the research study - **or** -
 - b. **Quantitative:** the data collection tool used; is the tool validated?

As established by the authors Dai et al., (2020), this is a prospective observational study, data collection is an important tool employed in this research, this enables the tracking and comparison of changes in the subjects. The data can also be processed using standardized statistical analysis. "Study procedures were reviewed and approved by the Ethics Committee of the Affiliated Xiamen University." (Dai et al.,2020)

7. Summarize (based on selected research type)
 - a. **Qualitative:** conclusions and implications for further research - **or** -
 - b. **Quantitative:** study results, including strengths & limitations.

According to Dai et al., (2020), out of the 900 newborns admitted to the NICU,429 patients were treated with NCPAP. 149 patients developed nasal pressure injuries. The frequency and severity of nasal pressure injuries differ based on gestational age and birthweights. The likelihood of developing a nasal pressure injury was significantly higher in neonates with a gestational age less than 32 weeks.

The strength and positive outcome of this study shows that the findings are helping to guide in the prevention and treatment of device-related pressure injuries in newborns.

The limitation of the was the setting which according to the research article was a single NICU setting that consistently used a type of NCPAP prongs and masks, this, limits the applications to other NICU populations using different kinds of breathing devices.

Dai, T., Lv, L., Liu, X., Chen, J., Ye, Y., & Xu, L. (2020). Nasal pressure injuries due to nasal continuous positive airway treatment in newborns:

Understanding Research Articles/ Cleveland Clinic WOC Nursing Education

A prospective observational study. *Journal of Wound, Ostomy, and Continence Nursing*, 47(1), 26-31.

8. Discuss why is this research important to the body of WOC nursing knowledge.

Evidence-based practices are known to improve patient care, safety and positive outcomes for the patients and the nurses. This research helps us to characterize, consider and use factors like gestational age at birth, the weight of the newborn in delivering care. This goes on to say that many factors could play into disease manifestations, and it is helpful to be aware of this fact. It makes a lot of difference in nursing practice when evidence-based approach to care is employed.

For WOC nursing, our patients cut across different age groups and demographics, such research helps create the awareness we need in factoring differences in our patients into the care we give. The knowledge of the patient's nutritional status, pre-existing conditions and gender are some of these variations that can help facilitate quality wound care for our patients.

9. Use APA format to list your references for this assignment:

References

Dai, T., Lv, L., Liu, X., Chen, J., Ye, Y., & Xu, L. (2020). Nasal pressure injuries due to nasal continuous positive airway treatment in newborns: A prospective observational study. *Journal of Wound, Ostomy, and Continence Nursing*, 47(1), 26-31.

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