

Evidence-Based Practice (EBP) Practice Test (Sample)

Study Guide



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SAMPLE

Questions

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- 1. Which factor pertains to a theoretical framework in research?**
 - A. Statistical analysis method**
 - B. Proposed relationships between variables**
 - C. Nature of the research questions**
 - D. Type of data collected**
- 2. What would Julie identify as the research purpose statement while reading a research article on ED use?**
 - A. To review current literature**
 - B. To explore patient experiences in the ED**
 - C. To uncover the reasons for ED visits for non-urgent problems**
 - D. To evaluate the cost-effectiveness of ED treatment**
- 3. Which research hypothesis denotes no expected effect or relationship between variables?**
 - A. Directional hypothesis**
 - B. Simple hypothesis**
 - C. Null hypothesis**
 - D. Alternative hypothesis**
- 4. True or False: The last major transgression of ethical principles in research occurred in the experiments conducted by the Nazis.**
 - A. True**
 - B. False**
 - C. Controversial**
 - D. Misinterpreted historical events**
- 5. What ethical principle requires that vulnerable populations receive special consideration in research?**
 - A. Justice**
 - B. Autonomy**
 - C. Beneficence**
 - D. Nonmaleficence**

- 6. Which of the following is an ethical principle for protecting human research subjects?**
- A. Autonomy**
 - B. Beneficence**
 - C. Justice**
 - D. Confidentiality**
- 7. Is Maslow's hierarchy of needs considered a middle-range nursing theory developed by a nurse?**
- A. True**
 - B. False**
 - C. Dependent on context**
 - D. Only in certain adaptations**
- 8. In evidence hierarchies for clinical decision making, which of the following provides the strongest level of evidence?**
- A. Expert opinions**
 - B. Case studies**
 - C. Systematic review**
 - D. Randomized controlled trials**
- 9. What is the correct rank order of evidence types based on the Hierarchy of Evidence?**
- A. 1) Single descriptive studies, 2) Expert opinion, 3) Controlled trials, 4) RCTs, 5) Systematic review of RCTs**
 - B. 1) Systematic review of all relevant RCTs, 2) Well-designed RCTs, 3) Controlled trials without randomization, 4) Single descriptive studies, 5) Expert opinion**
 - C. 1) Evidence from qualitative studies, 2) RCTs, 3) Systematic reviews, 4) Expert opinion, 5) Observational studies**
 - D. 1) Well-designed RCTs, 2) Expert opinion, 3) Observational studies, 4) Single case studies, 5) Systematic reviews**
- 10. In which phase of research is the study's objectives defined and hypotheses formulated?**
- A. Data collection**
 - B. Research design**
 - C. Literature review**
 - D. Data analysis**

Answers

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- 1. B**
- 2. C**
- 3. C**
- 4. B**
- 5. A**
- 6. B**
- 7. B**
- 8. C**
- 9. B**
- 10. B**

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Explanations

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1. Which factor pertains to a theoretical framework in research?

- A. Statistical analysis method**
- B. Proposed relationships between variables**
- C. Nature of the research questions**
- D. Type of data collected**

The proposed relationships between variables is a fundamental aspect of a theoretical framework in research. A theoretical framework serves as a blueprint, guiding the study by articulating how various concepts or variables are interconnected based on existing theories or empirical evidence. It helps researchers formulate hypotheses and determine which variables to examine, thereby providing a foundation for interpreting the results. Having a clearly defined theoretical framework allows researchers to frame their inquiries within a broader context, articulating why certain variables may influence one another and predicting outcomes based on those relationships. This structure is essential in producing rigorous, reliable research that can contribute to the body of knowledge in a field. The other options relate to different components of the research process: statistical analysis methods pertain to how data will be analyzed, the nature of research questions focuses on the specific inquiries being investigated, and the type of data collected refers to the format or sources of information being gathered. While these elements are all crucial to conducting effective research, they do not specifically define the theoretical framework as the proposed relationships between variables do.

2. What would Julie identify as the research purpose statement while reading a research article on ED use?

- A. To review current literature**
- B. To explore patient experiences in the ED**
- C. To uncover the reasons for ED visits for non-urgent problems**
- D. To evaluate the cost-effectiveness of ED treatment**

The research purpose statement is a clear and focused articulation of what the study aims to achieve. In this context, it indicates that the study is specifically designed to uncover the reasons for emergency department visits for non-urgent problems. This focus helps to guide the research design, methodology, and analysis. Understanding the motivations behind non-urgent ED visits is crucial for addressing issues such as healthcare resource allocation and improving patient care. By identifying the reasons that lead patients to use the ED for issues that may not require urgent attention, the study can inform strategies to redirect patients to appropriate care settings, ultimately enhancing healthcare efficiency and patient outcomes. In contrast, reviewing current literature serves more as a background or context for the study rather than an explicit research purpose. Exploring patient experiences could be part of the research but is broader and doesn't specifically target non-urgent cases. Evaluating the cost-effectiveness of ED treatment focuses on financial aspects, which, while important, does not directly address the core aim of uncovering reasons behind non-urgent visits.

3. Which research hypothesis denotes no expected effect or relationship between variables?

- A. Directional hypothesis**
- B. Simple hypothesis**
- C. Null hypothesis**
- D. Alternative hypothesis**

The null hypothesis serves as a foundational concept in statistical testing and research design. It represents a statement of no effect or no relationship between variables, suggesting that any observed differences are due to random chance rather than a true effect. In hypothesis testing, the null hypothesis is typically denoted by H_0 , and researchers seek to either reject or fail to reject this hypothesis based on empirical data. Understanding the null hypothesis is critical in evidence-based practice because it establishes a baseline against which other hypotheses can be tested. When researchers formulate their questions or design experiments, they often propose an alternative hypothesis, which posits that there is a significant effect or relationship. The null hypothesis provides a clear framework for testing these claims, using statistical methods to determine whether there's sufficient evidence to reject H_0 in favor of the alternative hypothesis. In contrast, a directional hypothesis proposes a specific direction of the expected relationship or effect, while a simple hypothesis states the relationship between two variables without indicating whether it's positive or negative. Both differ fundamentally from the null hypothesis in that they indicate an expected relationship or effect rather than denying its existence.

4. True or False: The last major transgression of ethical principles in research occurred in the experiments conducted by the Nazis.

- A. True**
- B. False**
- C. Controversial**
- D. Misinterpreted historical events**

The statement that the last major transgression of ethical principles in research occurred in the experiments conducted by the Nazis is false. While the Nazi experiments during World War II represent one of the most egregious violations of ethical research standards, they are not the most recent instance of unethical research practices. Ethical breaches in research continue to occur in various contexts, and there have been numerous cases of unethical practices in different studies since then, affecting various populations, including vulnerable groups. Furthermore, the field of research ethics has evolved considerably since the Nazi experiments, with the establishment of guidelines and regulations, such as the Declaration of Helsinki, to ensure the protection of human subjects in research. This ongoing development in ethical oversight underscores that unethical practices in research are not confined to historical events like those conducted by the Nazis but continue to be relevant in contemporary discussions surrounding evidence-based practice and research ethics.

5. What ethical principle requires that vulnerable populations receive special consideration in research?

A. Justice

B. Autonomy

C. Beneficence

D. Nonmaleficence

The ethical principle that requires special consideration for vulnerable populations in research is justice. This principle emphasizes fairness and equity in the distribution of research benefits and burdens. Vulnerable populations, such as children, the elderly, or individuals with cognitive impairments, may face obstacles that limit their ability to participate in research or protect their rights. Therefore, justice mandates that researchers ensure these groups have appropriate safeguards in place and that they do not bear disproportionate risks while still benefiting from research outcomes. In the context of justice, researchers are called upon to promote equitable access to research opportunities and ensure that those who may be less able to give informed consent are adequately protected. This principle places importance on the idea that everyone deserves fair treatment and that specific attention must be given to those who are at greater risk of exploitation or harm within the research process.

6. Which of the following is an ethical principle for protecting human research subjects?

A. Autonomy

B. Beneficence

C. Justice

D. Confidentiality

Beneficence is an ethical principle that emphasizes the obligation to maximize benefits and minimize harm to research subjects. It is grounded in the idea that researchers must act in the best interest of participants, ensuring that any potential risks are outweighed by the anticipated benefits of the research. This principle requires researchers to carefully consider the potential impact of their studies on participants and to implement appropriate measures to safeguard their well-being. In the context of human subjects research, beneficence is fundamental as it guides researchers in making ethical decisions about study design, including how to protect participants from physical, psychological, and emotional harm while also promoting their welfare. Autonomy, justice, and confidentiality are important ethical considerations as well, but they serve different roles in the context of research ethics. Autonomy focuses on the right of individuals to make informed decisions about their participation, justice addresses fairness in the distribution of research benefits and burdens, and confidentiality pertains to the protection of participants' private information. Each of these principles is vital to ethical research conduct, but beneficence specifically relates to the responsibility researchers have to ensure the safety and well-being of their participants.

7. Is Maslow's hierarchy of needs considered a middle-range nursing theory developed by a nurse?

A. True

B. False

C. Dependent on context

D. Only in certain adaptations

Maslow's hierarchy of needs is not considered a middle-range nursing theory developed by a nurse. Instead, it is a psychological theory created by Abraham Maslow in the 1940s. The hierarchy outlines a model of human motivation organized in a five-tier pyramid structure, ranging from basic physiological needs to self-actualization. While nurses may use Maslow's theory to understand patient needs and prioritize care, the theory itself originates from psychology rather than nursing. Middle-range nursing theories are typically developed by nurses and specifically address nursing practice, with a focus on a specific aspect of patient care. Since Maslow's model is broader and not exclusive to nursing, it does not fit the criteria for a middle-range nursing theory. It can influence nursing practice and is often adapted to fit nursing needs, but this adaptation does not change its origin or classification as a psychological rather than nursing specific theory.

8. In evidence hierarchies for clinical decision making, which of the following provides the strongest level of evidence?

A. Expert opinions

B. Case studies

C. Systematic review

D. Randomized controlled trials

The strongest level of evidence in clinical decision-making is represented by systematic reviews. A systematic review comprehensively gathers and synthesizes all available research on a specific clinical question or topic. It involves a rigorous methodology to search for studies, assess their quality, and compile the outcomes, providing a thorough overview of the existing evidence. This level of evidence is valuable because it minimizes bias and enhances reliability by consolidating findings from multiple studies, which may include randomized controlled trials, cohort studies, and other forms of research. By summarizing a broad range of data, systematic reviews help practitioners make informed decisions based on the best available evidence. In contrast, expert opinions and case studies represent lower levels of evidence. Expert opinions are subjective and may not be based on systematic research, while case studies focus on individual cases without generalizability. Randomized controlled trials (RCTs) are considered strong evidence due to their structured design and ability to minimize confounding variables. However, systematic reviews that include RCTs—along with other studies—provide a more comprehensive picture, elevating their status in the evidence hierarchy.

9. What is the correct rank order of evidence types based on the Hierarchy of Evidence?

- A. 1) Single descriptive studies, 2) Expert opinion, 3) Controlled trials, 4) RCTs, 5) Systematic review of RCTs
- B. 1) Systematic review of all relevant RCTs, 2) Well-designed RCTs, 3) Controlled trials without randomization, 4) Single descriptive studies, 5) Expert opinion**
- C. 1) Evidence from qualitative studies, 2) RCTs, 3) Systematic reviews, 4) Expert opinion, 5) Observational studies
- D. 1) Well-designed RCTs, 2) Expert opinion, 3) Observational studies, 4) Single case studies, 5) Systematic reviews

The hierarchy of evidence is a framework used to rank the strength of research evidence according to its methodological quality. The correct answer is based on this hierarchy, which emphasizes the importance of review and rigorous study design. The first entry, "Systematic review of all relevant RCTs," is considered the highest level of evidence because it synthesizes findings from multiple random controlled trials, providing a comprehensive overview of the effectiveness of an intervention. This comparability and aggregation of data enhances the reliability and applicability of the findings. The second level, "Well-designed RCTs," represents studies where participants are randomly assigned to receive or not receive an intervention, eliminating many biases and establishing a causal relationship. These trials are deemed more robust than other study designs. The third, "Controlled trials without randomization," while not as strong as RCTs, allows for comparisons between intervention and control groups, providing valuable data even in the absence of random assignment. Next, "Single descriptive studies" offer insights into specific cases or observations but lack the comparative rigor and power of larger studies. Finally, "Expert opinion" ranks lowest in this hierarchy, as it is based on personal experiences or insights rather than data-driven evidence, making it the least reliable for informing practice. This structured order

10. In which phase of research is the study's objectives defined and hypotheses formulated?

- A. Data collection
- B. Research design**
- C. Literature review
- D. Data analysis

The phase of research where the study's objectives are defined and hypotheses are formulated is in the research design phase. This phase is crucial because it lays the foundation for the entire study. During research design, researchers clarify what they aim to investigate, establish the specific questions that guide the research, and articulate their hypotheses—those predictions about the expected outcomes based on theoretical frameworks or prior evidence. In contrast, data collection occurs after objectives and hypotheses have already been established, focusing instead on gathering information according to the research design. The literature review is primarily a phase for synthesizing existing research and identifying gaps in knowledge, rather than formulating new objectives. Data analysis comes even later in the research process, dealing with interpreting the data collected to draw conclusions and assess the validity of the hypotheses. Therefore, defining objectives and formulating hypotheses are integral to the research design phase.