

INTRODUCTION TO CLINICAL RESEARCH AND ETHICAL CONSIDERATIONS PRACTICE TEST (SAMPLE)

STUDY GUIDE



SAMPLE STUDY GUIDE WITH LIMITED QUESTIONS

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 – 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

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- 1. In Milgram's Obedience to Authority experiment, participants were told to do what?**
 - A. Deliver a series of verbal reprimands to a learner
 - B. Record observations about participants' mood
 - C. Assist the researcher in data collection
 - D. Administer increasingly painful electrical shocks to another person under the direction of an authority figure
- 2. Which term describes data that are collected for the study for the first time?**
 - A. Secondary
 - B. Primary
 - C. Tertiary
 - D. Quaternary
- 3. In PICOTS, what is the role of the comparator?**
 - A. The alternate or control condition, such as placebo
 - B. The outcomes
 - C. The setting
 - D. The population
- 4. Which best describes the recommended practices for handling data privacy and de-identification in research data?**
 - A. Remove direct identifiers, minimize re-identifiability, use data-use agreements, limit access, and store data securely with appropriate encryption.
 - B. Encrypt data but keep direct identifiers in a separate file for quick reference.
 - C. Share raw data with collaborators without agreements.
 - D. Use only de-identified data without any governance.
- 5. What is statistical power and what is a typical target level?**
 - A. The probability of detecting a true effect if one exists; commonly 80% or 90%.
 - B. The probability of a false positive (Type I error) being controlled at 20%.
 - C. The sample size required to complete the study.
 - D. The duration of the trial.

6. Which of the following is an example of an outcome in PICOTS?

- A. Morbidity
- B. Age
- C. Consent rate
- D. Funding amount

7. Phase I trials are intended to establish what?

- A. Efficacy assessment
- B. Tolerability and toxicity
- C. Long-term safety analysis
- D. Pediatric dosing studies

8. In the introduction, the descriptive section describes which of the following?

- A. Population characteristics (e.g. disease prevalence)
- B. Relationships between variables
- C. Practical study implications
- D. Experimental methodologies

9. The Office for Human Research Protections (OHRP) is within which federal department?

- A. Health and Human Services
- B. Education
- C. Defense
- D. Transportation

10. Which populations are commonly considered vulnerable in clinical research and require additional protections?

- A. Children, prisoners, pregnant women, cognitively impaired individuals, economically or socially disadvantaged persons; require additional safeguards and, where appropriate, assent/consent and independent oversight.
- B. Only adults aged 40-65 with no comorbidities require extra protection.
- C. Vulnerable populations have the same protections as any participant.
- D. Only prisoners are considered vulnerable.

Answers

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

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Explanations

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1. In Milgram's Obedience to Authority experiment, participants were told to do what?

- A. Deliver a series of verbal reprimands to a learner
- B. Record observations about participants' mood
- C. Assist the researcher in data collection
- D. Administer increasingly painful electrical shocks to another person under the direction of an authority figure**

The main idea being tested is obedience to authority and the willingness to follow orders even when they cause harm to another person. In Milgram's setup, participants were instructed by an authority figure to administer electric shocks of increasing intensity to a learner for every incorrect answer. The purpose was to see how far people would go in complying with an authoritative command, even at the cost of harming someone. The other options don't fit the scenario because the task was not about delivering verbal reprimands, recording mood, or assisting with data collection; it was specifically about administering shocks as directed.

2. Which term describes data that are collected for the study for the first time?

- A. Secondary
- B. Primary**
- C. Tertiary
- D. Quaternary

Data collected for the study for the first time are called primary data. This means the researchers generate or gather new information specifically to answer their current research question, using methods like surveys, experiments, interviews, or direct observations. Collecting data firsthand gives the investigators control over what is measured, how it is measured, and when it is measured, which helps ensure the data are directly relevant and of high quality for the study. In contrast, secondary data already exist from previous studies, reports, or records and were not collected with the current question in mind. Relying on these data can introduce limitations related to how they were collected, their age, or whether they fit the current definitions and units of analysis. Tertiary and quaternary are not standard terms for the data collected in a study; they typically refer to methods of sourcing or compiling information beyond the primary data, rather than data gathered anew.

3. In PICOTS, what is the role of the comparator?

- A. The alternate or control condition, such as placebo**
- B. The outcomes
- C. The setting
- D. The population

Within PICOTS, the comparator is the alternate or control condition used to provide a baseline for evaluating the intervention's effect. It acts as the counterfactual—the group or condition you compare the intervention against to determine whether observed outcomes are due to the intervention rather than other factors. This could be a placebo, a standard of care, or no treatment, depending on what makes sense for the question and ethical considerations. The comparator enables calculation of relative measures of effect, such as how much better or worse the intervention performs compared to the comparator. It is distinct from the population being studied, the intervention itself, the outcomes looked at, the timing, and the setting in which the study occurs. Without a meaningful comparator, it's hard to attribute differences in outcomes to the intervention rather than to random variation or external factors.

4. Which best describes the recommended practices for handling data privacy and de-identification in research data?

- A. Remove direct identifiers, minimize re-identifiability, use data-use agreements, limit access, and store data securely with appropriate encryption.
- B. Encrypt data but keep direct identifiers in a separate file for quick reference.
- C. Share raw data with collaborators without agreements.
- D. Use only de-identified data without any governance.

Strong data privacy in research hinges on a layered approach that reduces risk at several points. First, remove direct identifiers, so obvious personal details like names or exact IDs aren't attached to the data. Then, minimize re-identifiability by evaluating what indirect or quasi-identifiers could combine with other data to reidentify someone. Governance comes next: a data-use agreement lays out who can access the data, for what purposes, and how results can be shared. Limiting access means only authorized individuals can work with the data, supported by authentication, role-based controls, and audit logs. Finally, store and transmit the data securely with encryption so that even if data are intercepted or accessed without authorization, they remain unreadable. This combination reduces privacy risk, supports ethical research, and aligns with regulatory expectations. Shaping the practice this way is preferable because relying on encryption alone while keeping a direct-identifier file for quick reference still creates a vulnerable linkage map if the key or file is compromised. Sharing raw data without agreements bypasses essential governance and oversight. Relying on de-identified data without any governance ignores ongoing risk management and accountability, since de-identification can fail or be reverse-engineered and access controls are still needed to monitor and enforce permissible uses.

5. What is statistical power and what is a typical target level?

- A. The probability of detecting a true effect if one exists; commonly 80% or 90%.
- B. The probability of a false positive (Type I error) being controlled at 20%.
- C. The sample size required to complete the study.
- D. The duration of the trial.

Power is the probability that a study will detect a true effect if one exists. It reflects how likely the study is to uncover a real difference or association when there actually is one, and it equals 1 minus the probability of a Type II error (failing to detect an effect that is present). When planning a trial, researchers often target a power of 80% or 90%, meaning there's an 80% or 90% chance of finding a true effect of the specified size given the chosen significance level and sample size. Achieving higher power makes it less likely that a real effect will be missed, but it typically requires a larger sample size, lower variability, or a larger true effect. This concept is distinct from controlling false positives (the Type I error rate) and from the actual sample size or trial duration, which are related planning aspects but different quantities. In practice, you set the desired power (commonly 0.8 or 0.9) when calculating the required sample size to balance resources with the ability to detect meaningful effects.

6. Which of the following is an example of an outcome in PICOTS?

- A. Morbidity**
- B. Age
- C. Consent rate
- D. Funding amount

In PICOTS, the outcome is the health-related result you measure to see the effect of the intervention. Morbidity fits as an outcome because it reflects whether participants develop health problems, the severity of those problems, or events like complications, after exposure or treatment, and it can be quantified for comparison. Age is a demographic descriptor of the population used to describe who is in the study or to stratify groups, not something measured as a health result. Consent rate describes recruitment feasibility—how many people agreed to participate—not a health outcome. Funding amount is a resource variable about the study's budget, not a health-related result. So morbidity is the example that best represents an outcome in PICOTS.

7. Phase I trials are intended to establish what?

- A. Efficacy assessment
- B. Tolerability and toxicity**
- C. Long-term safety analysis
- D. Pediatric dosing studies

Phase I trials focus on safety: how well the drug is tolerated in humans and what toxic effects it may produce. These studies are typically small and use dose-escalation to find adverse events, establish the maximum tolerated dose, and determine a safe starting and recommended dose for later testing. They also explore pharmacokinetics and pharmacodynamics to understand how the drug behaves in the body. Efficacy isn't the primary goal in this phase, though early signs of activity might be noted. Long-term safety is evaluated in later phases or post-marketing, and pediatric dosing studies are conducted in separate, specialized trials rather than as the core aim of Phase I.

8. In the introduction, the descriptive section describes which of the following?

- A. Population characteristics (e.g. disease prevalence)**
- B. Relationships between variables
- C. Practical study implications
- D. Experimental methodologies

The main idea tested is what content belongs in the descriptive portion of the introduction. In this part, the focus is on describing the population being studied—who is affected and how common the condition is. That means reporting population characteristics such as disease prevalence, basic demographics, and other baseline features that set the stage for why the study is needed. This is why it's the best choice: detailing population characteristics and disease prevalence provides context and justification for the research question, showing the scope and burden of the issue in the studied group. It helps readers understand the relevance and potential impact of the study. Other options fit better in different sections: relationships between variables are typically addressed in results or analysis; practical study implications belong in the discussion; and experimental methodologies are described in the methods section, not the descriptive portion of the introduction.

9. The Office for Human Research Protections (OHRP) is within which federal department?

A. Health and Human Services

B. Education

C. Defense

D. Transportation

OHRP is the unit that oversees protections for people in federally funded or conducted human subjects research, and it resides within the Department of Health and Human Services. This placement aligns the agency's oversight with the department that funds and conducts much biological and health research through agencies like NIH and FDA, ensuring consistent application of protections such as the Common Rule across HHS-sponsored studies. The other departments—Education, Defense, and Transportation—do not house OHRP or oversee these human subjects protections for health research, so they are not the correct department.

10. Which populations are commonly considered vulnerable in clinical research and require additional protections?

A. Children, prisoners, pregnant women, cognitively impaired individuals, economically or socially disadvantaged persons; require additional safeguards and, where appropriate, assent/consent and independent oversight.

B. Only adults aged 40-65 with no comorbidities require extra protection.

C. Vulnerable populations have the same protections as any participant.

D. Only prisoners are considered vulnerable.

In clinical research, certain groups are recognized as vulnerable because they may have limited ability to protect their own interests or may be more susceptible to coercion or undue influence. These groups commonly include children, prisoners, pregnant women, individuals with cognitive impairments, and economically or socially disadvantaged people. Because of their vulnerabilities, extra protections are put in place: obtaining assent from children when appropriate and getting consent from parents or legally authorized representatives, ensuring independent oversight by ethics review boards, and conducting careful risk-benefit assessments to safeguard well-being. The idea is that protections differ from those for other participants to prevent exploitation and support voluntary, informed participation. Restricting extra protections to adults aged 40–65 with no comorbidities ignores the real-world ethical landscape, where many groups require tailored safeguards. Treating vulnerable populations as if they have the same protections as any participant undermines important safeguards, and limiting vulnerability to prisoners only omits other recognized groups that warrant additional protections.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://intro2clinresearchethicalcons.examzify.com>

We wish you the very best on your exam journey. You've got this!

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