

# SAS Clinical Trials Practice Exam (Sample)

## Study Guide



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## **Questions**

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- 1. Which CDISC filename contains key variable attributes and controlled terminology?**
  - A. DEFINE.XML**
  - B. ADAM.XML**
  - C. SASDATA.XML**
  - D. SDTM.PDF**
  
- 2. Which phase involves the introduction of a drug for the first time in human subjects?**
  - A. Phase 1 Trials**
  - B. Phase 2 Trials**
  - C. Phase 3 Trials**
  - D. Phase 4 Trials**
  
- 3. What does the CDER Common Data Standards Issues Document mainly provide guidance on?**
  - A. Drug approval processes**
  - B. Submission of CDISC formatted data to the FDA**
  - C. Ethical considerations in clinical trials**
  - D. Data analysis techniques**
  
- 4. What does a patient profile typically include?**
  - A. Only recent medications**
  - B. Demographics and medical history**
  - C. Laboratory data only**
  - D. General health complaints**
  
- 5. What aims does the International Conference on Harmonisation (ICH) address?**
  - A. Standardizing pricing strategies across the pharmaceutical industry**
  - B. Eliminating clinical trials entirely**
  - C. Achieving greater harmonisation in product registration guidelines**
  - D. Developing marketing strategies for pharmaceutical products**

**6. Which option in the PROC EXPORT procedure allows for the overwriting of an existing file?**

- A. APPEND**
- B. REPLACE**
- C. IGNORE**
- D. DELETE**

**7. What type of statistics does PROC UNIVARIATE provide based on moments?**

- A. Descriptive statistics including skewness and kurtosis**
- B. Inferential statistics for hypothesis testing**
- C. Multivariate statistics for several variables**
- D. Time series statistics for trend analysis**

**8. What characterizes a multi-center trial?**

- A. A trial with multiple protocols**
- B. A trial conducted at one site**
- C. A clinical trial with more than one investigator**
- D. A trial excluding statistical analysis**

**9. What is the purpose of the WHO Drug Dictionary?**

- A. To recommend treatments for diseases**
- B. To classify drug names into common preferred terms**
- C. To standardize clinical trial procedures**
- D. To approve new drug applications**

**10. How are patients classified in an intent-to-treat population?**

- A. Only those who completed the study**
- B. All patients randomized to a study therapy**
- C. Only those following the defined protocol**
- D. All patients who experienced any adverse effects**

## **Answers**

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

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## **Explanations**

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**1. Which CDISC filename contains key variable attributes and controlled terminology?**

- A. DEFINE.XML**
- B. ADAM.XML**
- C. SASDATA.XML**
- D. SDTM.PDF**

The correct choice, **DEFINE.XML**, is a key file in the Clinical Data Interchange Standards Consortium (CDISC) framework. This file is crucial because it provides essential information about the study's datasets, including variable attributes such as metadata, the meanings of variables, their content, and the associated controlled terminology. **DEFINE.XML** serves as a comprehensive guide that illustrates how variables should be interpreted and utilized within the context of clinical trials. It outlines the format of the datasets and offers clarity regarding the relationships between different data elements. By standardizing how these attributes are documented, **DEFINE.XML** improves data consistency and enhances communication between data users and analysts. Other options either serve different purposes or do not extend to include both variable attributes and controlled terminology comprehensively. For instance, **ADAM.XML** focuses specifically on the Analysis Data Model, providing specifics about analysis datasets rather than broader variable attributes. **SASDATA.XML** is not a standard CDISC file used widely in regulatory submissions, and **SDTM.PDF** is a document format that usually contains guidelines for the SDTM standard but does not function as a comprehensive file for key variable attributes and terminology as **DEFINE.XML** does.

**2. Which phase involves the introduction of a drug for the first time in human subjects?**

- A. Phase 1 Trials**
- B. Phase 2 Trials**
- C. Phase 3 Trials**
- D. Phase 4 Trials**

Phase 1 trials are specifically designed to assess the safety, tolerability, pharmacokinetics, and pharmacodynamics of a drug when introduced to human subjects for the first time. During this phase, a small group of healthy volunteers or patients is involved, which allows researchers to gather critical data on how the drug interacts with the human body without the confounding factors of prior exposure or long-term use. The primary goal is to determine the highest safe dose and to identify potential side effects. This early stage is crucial because it lays the groundwork for further testing in subsequent phases, where the drug's effectiveness is evaluated against different conditions and larger populations. In contrast, the subsequent phases (2 and 3) focus more on efficacy and side effects that may arise in a more diverse cohort, while phase 4 involves post-marketing surveillance to understand long-term effects after a drug is on the market. Thus, Phase 1 is distinct due to its pioneering nature in human trials.

### 3. What does the CDER Common Data Standards Issues Document mainly provide guidance on?

- A. Drug approval processes
- B. Submission of CDISC formatted data to the FDA**
- C. Ethical considerations in clinical trials
- D. Data analysis techniques

The CDER Common Data Standards Issues Document is primarily focused on the submission of CDISC (Clinical Data Interchange Standards Consortium) formatted data to the FDA. This document provides essential guidance to ensure that clinical trial data is presented in a consistent and standardized format, facilitating the review process by regulatory agencies. By using CDISC standards, drug sponsors can more effectively communicate their findings and ensure that the data aligns with regulatory expectations. This is crucial because standardized data formats help improve the efficiency and clarity of the submissions, thus enhancing the overall review process for drug approvals. The emphasis on CDISC formatting aligns with the FDA's commitment to streamline the submission and regulatory review process, allowing for better utilization of resources and more effective oversight. In contrast, aspects like drug approval processes, ethical considerations, and data analysis techniques, while important in the realm of clinical trials, do not directly pertain to the guidance provided by the CDER Common Data Standards Issues Document.

### 4. What does a patient profile typically include?

- A. Only recent medications
- B. Demographics and medical history**
- C. Laboratory data only
- D. General health complaints

A patient profile is a comprehensive representation of an individual's health information and background, providing essential context for medical decisions and care planning. It typically includes demographics such as age, gender, ethnicity, and socioeconomic factors, along with a detailed medical history that encompasses past illnesses, surgeries, allergies, and family medical history. This comprehensive information is crucial for healthcare providers to understand the patient's background and tailor treatments or interventions appropriately. Option B's inclusion of both demographics and medical history aligns with the standard components of a patient profile, making it the most accurate answer. A well-rounded patient profile enables more effective monitoring and management of the patient's health over time. While recent medications, laboratory data, and general health complaints may contribute to a patient profile, they do not encompass the full spectrum of essential information that demographics and medical history provide. Focusing solely on any one aspect—like recent medications or lab results—would yield an incomplete picture of the patient's overall health and context for care.

## 5. What aims does the International Conference on Harmonisation (ICH) address?

- A. Standardizing pricing strategies across the pharmaceutical industry
- B. Eliminating clinical trials entirely
- C. Achieving greater harmonisation in product registration guidelines**
- D. Developing marketing strategies for pharmaceutical products

The International Conference on Harmonisation (ICH) primarily aims to achieve greater harmonisation in product registration guidelines, which facilitates the efficient and effective development of pharmaceuticals across different countries. The ICH works to align the regulatory requirements among its member regions, including Europe, Japan, and the United States. This effort promotes a common understanding of good clinical practices, quality standards, and safety evaluations, thereby streamlining the approval process for new drugs and ensuring that medicines meet consistent and high-quality standards globally. This harmonisation ultimately benefits public health by making safe and effective drugs available to patients more rapidly. The other options do not align with the primary mission of the ICH. Standardizing pricing strategies or developing marketing strategies are not part of the ICH's goals and do not focus on regulatory standards. Eliminating clinical trials entirely contradicts the need for thorough evaluation of new products to ensure their safety and efficacy before they reach the market.

## 6. Which option in the PROC EXPORT procedure allows for the overwriting of an existing file?

- A. APPEND
- B. REPLACE**
- C. IGNORE
- D. DELETE

The PROC EXPORT procedure in SAS is used to export a data set to an external file. In this context, the REPLACE option is specifically designed to allow the export process to overwrite an existing file if that file already exists. When REPLACE is specified, SAS will automatically delete the existing file prior to writing the new file with the same name. This feature is particularly useful for scenarios where updated data needs to be exported without keeping prior versions of the file. Understanding the implications of using REPLACE is important for data management and ensuring that only the most current data is saved in the designated file location. The other options lack this specific functionality: APPEND adds new data to existing files without overwriting; IGNORE doesn't have a direct context in this scenario and is not a standard option for managing file exports; and DELETE does not relate to the process at all, as it is not an option used within PROC EXPORT.

**7. What type of statistics does PROC UNIVARIATE provide based on moments?**

- A. Descriptive statistics including skewness and kurtosis**
- B. Inferential statistics for hypothesis testing**
- C. Multivariate statistics for several variables**
- D. Time series statistics for trend analysis**

PROC UNIVARIATE is a procedure in SAS that focuses on univariate data analysis. It provides comprehensive descriptive statistics that summarize the distribution of a single variable. Among these statistics, it includes measurements based on moments, specifically skewness and kurtosis. Skewness quantifies the asymmetry of the probability distribution of a real-valued random variable, revealing whether the data is skewed to the left (negative skew) or the right (positive skew). Kurtosis, on the other hand, measures the "tailedness" of the distribution—whether the data has heavier or lighter tails compared to a normal distribution. These two metrics are crucial for understanding the shape and characteristics of the data distribution and are derived from the moments of the distribution. In contrast, other types of statistics listed, such as inferential statistics for hypothesis testing, multivariate statistics for analyzing multiple variables simultaneously, and time series statistics for analyzing trends over time, do not align with the specific functionality of PROC UNIVARIATE. This procedure is primarily designed for producing detailed descriptive statistics, which makes option A the correct choice.

**8. What characterizes a multi-center trial?**

- A. A trial with multiple protocols**
- B. A trial conducted at one site**
- C. A clinical trial with more than one investigator**
- D. A trial excluding statistical analysis**

A multi-center trial is characterized by the involvement of more than one investigator, which allows for a broader patient population and the potential for more diverse data collection. This approach helps to enhance the generalizability of the trial results, making them more applicable to a larger segment of the population. In multi-center trials, multiple locations may be chosen to conduct the study to ensure a sufficient sample size and to allow for variability in patient demographics, environments, and treatment responses. The involvement of different investigators also adds expertise and experience from various points, which can strengthen the integrity of the trial. Overall, the primary hallmark of a multi-center trial is this collaborative aspect among various facilities and investigators, aimed at improving the robustness of clinical research outcomes.

## 9. What is the purpose of the WHO Drug Dictionary?

- A. To recommend treatments for diseases
- B. To classify drug names into common preferred terms**
- C. To standardize clinical trial procedures
- D. To approve new drug applications

The purpose of the WHO Drug Dictionary is to classify drug names into common preferred terms. This classification serves to create a standardized vocabulary that can be consistently used across different clinical trial contexts and international borders. By providing a common reference point for drug names, the dictionary aids in the clear and unambiguous identification of medications, which is crucial for the integrity of clinical data and communication among researchers, healthcare providers, and regulatory authorities. Standardizing drug terminology helps in minimizing confusion that may arise from the use of different brand names or generic names for the same drug, which can vary by country or region. This consistency is vital in clinical trials, ensuring that data collected is comparable and manageable, ultimately facilitating the review process for drug safety and efficacy by regulatory bodies. The other options do not describe the primary function of the WHO Drug Dictionary. Although recommendations for treatments, standardization of clinical trial procedures, and the approval of new drug applications are critical components of drug development and clinical research, they fall outside the scope of what the WHO Drug Dictionary directly addresses.

## 10. How are patients classified in an intent-to-treat population?

- A. Only those who completed the study
- B. All patients randomized to a study therapy**
- C. Only those following the defined protocol
- D. All patients who experienced any adverse effects

In an intent-to-treat population, patients are classified based on the principle of preserving the random assignment throughout the study, regardless of whether they completed the study, adhered to the protocol, or experienced adverse effects. This means that all patients who were randomized to a study therapy are included in the analysis, maintaining the integrity of the randomization process and minimizing biases that may arise if only a subset of patients were analyzed. This approach helps to ensure that the findings of the study are as generalizable as possible and that they reflect the real-world effectiveness of the treatment, as it includes all participants, regardless of their compliance with the study protocol. By maintaining the random assignment, the results are less likely to be influenced by confounding factors.