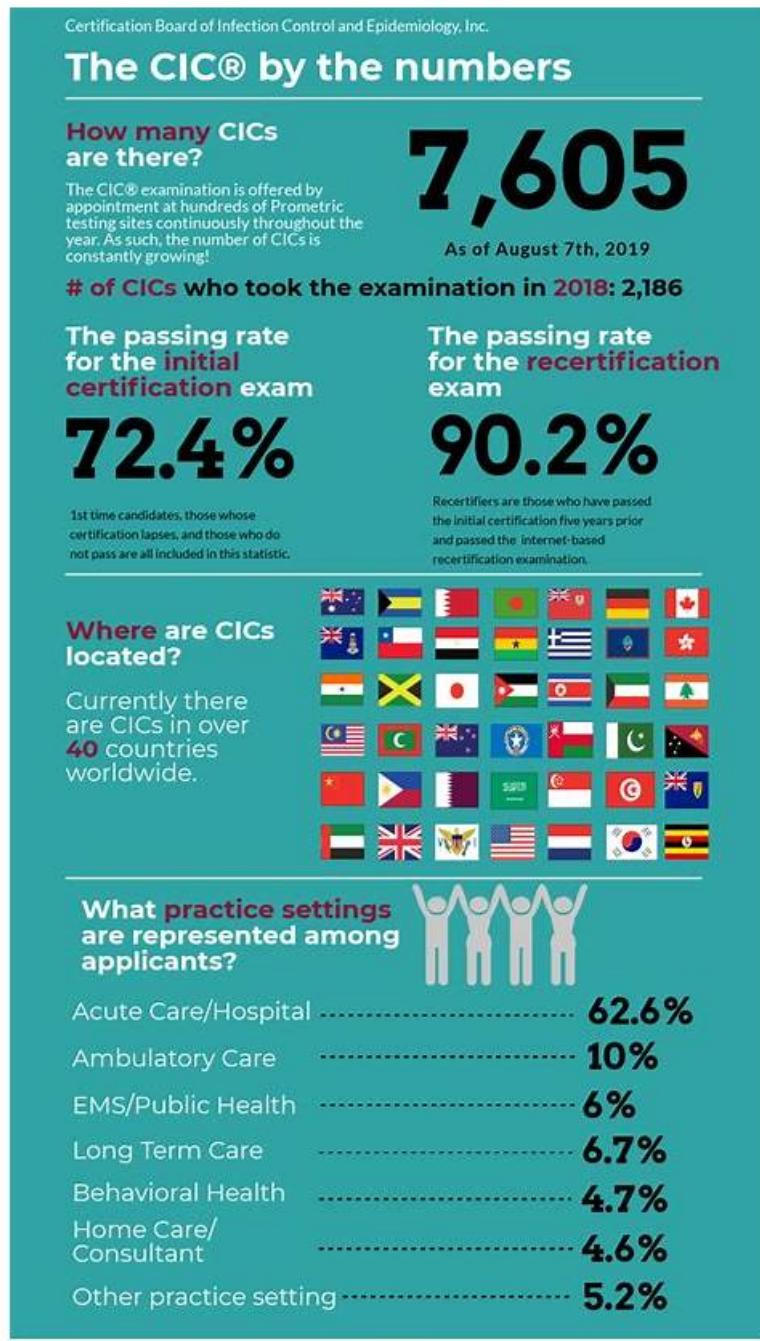


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## CBIC Certified Infection Control Exam Sample Questions (Q201-Q206):

### NEW QUESTION # 201

Assume the mean age of onset for patients with tuberculosis (TB) is 62 years, with one standard deviation of 5 years, and the age of onset follows a normal distribution. What is the percentage of patients expected to have the age of onset ranging from 57 to 67 years?

- A. 95%
- B. 68%
- C. 99%
- D. 34%

### Answer: B

Explanation:

To determine the percentage of patients with an age of onset ranging from 57 to 67 years, we need to apply the properties of a normal distribution. In a normal distribution, the mean represents the central point, and the standard deviation defines the spread of the data. Here, the mean age of onset is 62 years, and the standard deviation is 5 years. The range of 57 to 67 years corresponds to one standard deviation below the mean ( $62 - 5 = 57$ ) to one standard deviation above the mean ( $62 + 5 = 67$ ).

In a normal distribution, approximately 68% of the data falls within one standard deviation of the mean (i.e., between  $\# - \#$  and  $\# + \#$ , where  $\#$  is the mean and  $\#$  is the standard deviation). This is a well-established statistical principle, often referred to as the 68-95-99.7 rule (or empirical rule) in statistics. Specifically, 34% of the data lies between the mean and one standard deviation above the mean, and another 34% lies between the mean and one standard deviation below the mean, totaling 68% for the range spanning one standard deviation on both sides of the mean.

Let's verify this:

- \* The lower bound (57 years) is exactly one standard deviation below the mean ( $62 - 5 = 57$ ).
- \* The upper bound (67 years) is exactly one standard deviation above the mean ( $62 + 5 = 67$ ).
- \* Thus, the range from 57 to 67 years encompasses the middle 68% of the distribution.

Option A (34%) represents the percentage of patients within one standard deviation on only one side of the mean (e.g., 62 to 67 or 57 to 62), not the full range. Option C (95%) corresponds to approximately two standard deviations from the mean ( $62 \pm 10$  years, or 52 to 72 years), which is wider than the given range.

Option D (99%) aligns with approximately three standard deviations (62 ± 15 years, or 47 to 77 years), which is even broader. Since the question specifies a range of one standard deviation on either side of the mean, the correct answer is 68%, corresponding to Option B.

In infection control, understanding the distribution of disease onset ages can help infection preventionists identify at-risk populations and allocate resources effectively, aligning with the CBIC's focus on surveillance and data analysis (CBIC Practice Analysis, 2022). While the CBIC does not directly address statistical calculations in its core documents, the application of normal distribution principles is a standard epidemiological tool endorsed in public health guidelines, which inform CBIC practices.

References:

CBIC Practice Analysis, 2022.

Public Health Epidemiology Guidelines, Normal Distribution and Empirical Rule (commonly accepted statistical standards).

### NEW QUESTION # 202

Which humoral antibody indicates previous infection and assists in protecting tissue?

- A. IgG
- B. IgA
- C. IgM
- D. IgD

**Answer: A**

**Explanation:**

Humoral antibodies, or immunoglobulins, play distinct roles in the immune system, and their presence or levels can provide insights into infection history and ongoing immune protection. The Certification Board of Infection Control and Epidemiology (CBIC) recognizes the importance of understanding immunological responses in the "Identification of Infectious Disease Processes" domain, which is critical for infection preventionists to interpret diagnostic data and guide patient care. The question focuses on identifying the antibody that indicates a previous infection and assists in protecting tissue, requiring an evaluation of the functions and kinetics of the five major immunoglobulin classes (IgA, IgD, IgG, IgM, IgE).

Option C, IgG, is the correct answer. IgG is the most abundant antibody in serum, accounting for approximately 75-80% of total immunoglobulins, and is the primary antibody involved in long-term immunity. It appears in significant levels after an initial infection, typically rising during the convalescent phase (weeks to months after exposure) and persisting for years, serving as a marker of previous infection.

IgG provides protection by neutralizing pathogens, opsonizing them for phagocytosis, and activating the complement system, which helps protect tissues from further damage. The Centers for Disease Control and Prevention (CDC) and clinical immunology references, such as the "Manual of Clinical Microbiology" (ASM Press), note that IgG seroconversion or elevated IgG titers are commonly used to diagnose past infections (e.g., measles, hepatitis) and indicate lasting immunity. Its ability to cross the placenta also aids in protecting fetal tissues, reinforcing its protective role.

Option A, IgA, is primarily found in mucosal secretions (e.g., saliva, tears, breast milk) and plays a key role in mucosal immunity, preventing pathogen adhesion to epithelial surfaces. While IgA can indicate previous mucosal infections and offers localized tissue protection, it is not the primary systemic marker of past infection or long-term tissue protection, making it less fitting. Option B, IgD, is present in low concentrations and is mainly involved in B-cell activation and maturation, with no significant role in indicating previous infection or protecting tissues. Option D, IgM, is the first antibody produced during an acute infection, appearing early in the immune response (within days) and indicating current or recent infection. However, its levels decline rapidly, and it does not persist to mark previous infection or provide long-term tissue protection, unlike IgG.

The CBIC Practice Analysis (2022) and CDC guidelines on serological testing emphasize IgG's role in assessing past immunity, supported by immunological literature (e.g., Janeway's Immunobiology, 9th Edition). Thus, IgG is the humoral antibody that best indicates previous infection and assists in protecting tissue, making Option C the correct choice.

**References:**

- \* CBIC Practice Analysis, 2022.
- \* Manual of Clinical Microbiology, ASM Press, 2019.
- \* Janeway's Immunobiology, 9th Edition, 2016.
- \* CDC Serologic Testing Guidelines, 2014.

**NEW QUESTION # 203**

An infection preventionist is observing the cleaning and disinfection process of semi-critical devices. To ensure these items have been reprocessed meeting the minimum requirements, which of the following is required?

- A. Initial cleaning must begin 24 hours after use
- B. Use of detergents with pH lower than 7
- C. Initial cleaning must begin as soon as possible after use
- D. Soaking in a solution of liquid chemical sterilant between 3 and 12 hours

**Answer: C**

**Explanation:**

The Certification Study Guide (6th edition) emphasizes that thorough cleaning is the most critical step in the reprocessing of all reusable medical devices, including semi-critical devices (those that contact mucous membranes or nonintact skin). A foundational requirement is that initial cleaning begins as soon as possible after use. Prompt cleaning prevents organic material such as blood, secretions, and tissue from drying on device surfaces and within lumens, which can shield microorganisms and significantly reduce the effectiveness of subsequent disinfection.

The study guide explains that delayed cleaning increases the risk of biofilm formation and makes removal of soil more difficult, potentially compromising patient safety. For this reason, point-of-use pre-cleaning and rapid transport to reprocessing are considered minimum expectations. Cleaning must occur before any high-level disinfection or sterilization; without effective cleaning,

even correctly selected disinfectants may fail.

The other options are incorrect or misleading. There is no universal requirement for detergents with pH lower than 7; detergent selection should follow manufacturer instructions. Waiting 24 hours before cleaning is contrary to best practice and increases risk. Soaking devices in liquid chemical sterilants for extended periods does not address the prerequisite of cleaning and may not be appropriate for semi-critical devices unless specified by the manufacturer.

This question reflects a key CIC exam principle: timely cleaning is non-negotiable and is the cornerstone of safe device reprocessing. Reference: Certification Study Guide (CBIC/CIC Exam Study Guide), 6th edition, Chapter 10: Cleaning, Sterilization, Disinfection, and Asepsis.

#### NEW QUESTION # 204

At a facility with 10,000 employees. 5,000 are at risk for bloodborne pathogen exposure. Over the past five years, 100 of the 250 needlestick injuries involved exposure to bloodborne pathogens, and 2% of exposed employees seroconverted. How many employees became infected?

- A. 0
- B. 1
- C. 2
- D. 3

**Answer: A**

Explanation:

To determine the number of employees who seroconverted (became infected) after a needlestick exposure, we use the given data:

- \* Total Needlestick Injuries: 250
- \* Needlestick Injuries Involving Bloodborne Pathogens: 100
- \* Seroconversion Rate: 2%

Calculation:

Why Other Options Are Incorrect:

- \* A. 1: Incorrect calculation; 2% of 100 is 2, not 1.
- \* C. 5: Overestimates the actual number of infections.
- \* D. 10: Exceeds the calculated value based on given data.

CBIC Infection Control References:

- \* APIC Text, "Occupational Exposure and Seroconversion Risks".
- \* APIC Text, "Bloodborne Pathogens and Needlestick Injury Prevention"

#### NEW QUESTION # 205

An infection preventionist wishes to compare central line infection rates with those of a national database.

What consideration is of prime importance in making this comparison?

- A. Comparable skin preparation prior to insertion
- B. Similar sizes of facilities in the database
- C. Use of identical types of central lines
- D. **Same definition of central line infection**

**Answer: D**

Explanation:

The Certification Study Guide (6th edition) stresses that valid comparison of infection rates requires consistent surveillance definitions and methodologies. When comparing a facility's central line-associated bloodstream infection (CLABSI) rates to those reported in a national database, the single most important consideration is the use of the same case definition for central line infection. Without standardized definitions, rate comparisons are unreliable and may lead to incorrect conclusions about performance.

National databases rely on precise, standardized criteria for what constitutes a CLABSI, including timing, clinical signs, laboratory confirmation, and attribution to a central line. If a facility applies different criteria- such as alternative timing windows, inclusion/exclusion rules, or diagnostic thresholds-the resulting rates may be artificially higher or lower than benchmark data. The study guide emphasizes that comparability hinges on alignment of numerators (cases) and denominators (central line days) using identical definitions.

The other options, while relevant to prevention practices or contextual understanding, are not primary requirements for valid comparison. Skin preparation methods and types of lines influence risk but do not ensure comparability of reported rates. Facility size can affect risk profiles, but standardized definitions allow for risk adjustment within databases.

This question reflects a core CIC exam principle: benchmarking is meaningful only when surveillance definitions are consistent. Ensuring alignment with national definitions is foundational to accurate performance evaluation and quality improvement. Reference: Certification Study Guide (CBIC/CIC Exam Study Guide), 6th edition, Chapter 4: Surveillance and Epidemiologic Investigation.

## NEW QUESTION # 206

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