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***Clinical Immunology & Serology: A Laboratory Perspective [Latest 2025 / 2026 Test Bank & Study Guide] | Key Concepts, Exam Prep Questions with Answers, Detailed Rationales, and Laboratory Case Studies for Nursing, Medical, and Healthcare Students***

**QUESTION 1**

A patient presents with symptoms of a respiratory infection. A serological test reveals elevated levels of IgM antibodies against the influenza virus. What does this indicate?

- A) Recent infection with influenza virus. **CORRECT ANSWER:**
- B) Previous exposure to influenza virus
- C) Immunity due to vaccination
- D) Chronic infection

**RATIONALE:**

Elevated IgM levels indicate a recent infection, as IgM is the first antibody produced in response to an infection. In contrast, IgG would indicate a past infection or immunity.

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**QUESTION 2**

A 30-year-old woman undergoes serological testing for autoimmune diseases. The results show positive antinuclear antibodies (ANA). Which condition is most commonly associated with this finding?

- A) Rheumatoid arthritis
- B) Systemic lupus erythematosus (SLE)
- C) **Systemic lupus erythematosus (SLE). CORRECT ANSWER:**
- D) Multiple sclerosis

**RATIONALE:**

ANA is commonly associated with SLE, as it is a hallmark marker for this autoimmune disease. While other conditions may also show positive ANA, SLE is the most prevalent association.

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**QUESTION 3**

A lab technician performs an enzyme-linked immunosorbent assay (ELISA) to detect HIV antibodies in a patient's serum. What is the significance of a positive result?

- A) **Indicates HIV infection and the need for further testing. CORRECT ANSWER:**
- B) Confirms the patient is in the acute phase of HIV

# Immunology Case Studies With Answers

**JG Myers**



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