



## ASCLS Continuing Education

### Clinical Lab Investigations: Case Studies for the Lab Professional Case set #23 – Immunology

#### Final Quiz

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Select the single best answer for each of the following multiple-choice questions and record on the answer sheet.

1. The major symptom in eosinophilic esophagitis (EoE) is:
  - a. Pruritus.
  - b. Dysmetria.
  - c. Dysphagia.
  - d. Angioedema.
2. Choose the combination of cytokines that are responsible for differentiation of B cells leading to the production of IgE in a Th2 reaction.
  - a. IL-5 and IL-9.
  - b. IL-4 and IL-13.
  - c. IL-12 and IL-18.
  - d. Interferon gamma and IL-18.
3. Which of the following laboratory tests can be used to help confirm the diagnosis of EoE?
  - a. ANA testing.
  - b. Western blot.
  - c. Fluorescent polarized immunoassay.
  - d. Allergen specific microarray testing.
4. One of the roles of eotaxin-1 (CCL11) is to:
  - a. Attract neutrophils.
  - b. Attract eosinophils.
  - c. Degranulate basophils.
  - d. Decrease the immune response.
5. Which population is EoE most often found in?
  - a. White male adults.
  - b. White male children.
  - c. Children of any ethnicity.
  - d. White females of any age.
6. Because of the similarity in symptoms, EoE must be distinguished from which of the following disease states?
  - a. GERD
  - b. Gastric ulcers
  - c. Acute cholecystitis
  - d. Pelvic Inflammatory Disease (PID)

7. What causes “crepe-paper” mucosa of the esophagus?
  - a. Acid secretions.
  - b. Chronic inflammation.
  - c. Loss of mucosal elasticity.
  - d. The presence of the endoscope.
  
8. When comparing dietary treatments for EoE, which of the following statements is TRUE?
  - a. The elemental diet is infrequently used due to poor patient compliance.
  - b. All three diets require the patient to consume an amino acid based, liquid diet.
  - c. The directed elimination diet relies on endoscopic procedures for food selection.
  - d. The empiric elimination diet relies on skin-prick allergy testing for food selection.
  
9. If EoE is an allergic response, why are PPIs used to treat it?
  - a. PPIs are commonly used to treat allergies.
  - b. PPIs enhance the use of corticosteroids in EoE.
  - c. Increasing acid secretions help to destroy the food allergens.
  - d. Decreasing acid secretions can help alleviate inflammation in the esophagus.
  
10. What purpose would performing a total IgE test serve in the diagnosis of a patient with EoE?
  - a. The results could be used to monitor treatment.
  - b. An increased result would confirm the diagnosis of EoE.
  - c. The results would confirm or rule out increased IgE production.
  - d. The results would determine the specific allergen causing the symptoms.

Record all answers on the answer sheet. (1) Complete the form below. (2) record your answers. (3) Detach and **mail** your answer sheet with check or money order (**\$15 for ASCLS members, \$25 for non-members**) to:

American Society for Clinical Laboratory Science  
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Fax: 571-354-7570

**ASCLS Continuing Education Answer Sheet**  
**Clinical Lab Investigations: Case set #23 – Immunology**  
carries **1.0 hours** of continuing education. This form must be received by  
**March 31, 2019** to receive credit



Multiple Choice Questions

Circle the single best answer for each question

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

Use this section to evaluate the above titled session. Circle the number (**1-low, 5-high**) to indicate your ratings of this program, objectives, and speaker; use one response per line. Please complete this form to fulfill the session requirements.

To what extent:

**Did the author(s) present a knowledgeable, organized, and concise case study?**

1       2       3       4       5

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**Rate your overall satisfaction with the content of this case study.**

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