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QUESTION 1

A 5-month-old male is brought to the physician by his parents due to twitching of his facial muscles. Review of his medical records reveals that he has previously been treated for several episodes of Candida infections. Physical examination reveals low set ears, hypertelorism and a shortened philtrum. The most likely additional finding in this patient is

- A. absence of type IV hypersensitivity
- B. decreased alpha fetoprotein
- C. elevated IgE levels
- D. elevated IgM levels
- E. prominent telangiectasias around the eyes

Correct Answer: A

Explanation:

This patient most likely has thymic aplasia which is also known as DiGeorge syndrome. It is caused by a 22q11 deletion and failure of the 3rd and 4th pharyngeal pouches to develop which leads to the absence of the thymus and parathyroid glands. Patients may present with tetany, usually seen in the facial muscles, due to hypocalcemia secondary to hypoparathyroidism. Recurrent infections due to defective cellular immunity and abnormal facies are due to decreased levels of T cells since patients without a thymus are unable to complete normal T-lymphocyte development. Type IV hypersensitivity which is totally dependent on T lymphocytes is absent in these patients. Other findings include tetralogy of Fallot and truncus arteriosus.

QUESTION 2

Which of the following is not a DNA virus?

- A. Adenovirus
- B. Calicivirus
- C. Papovirus
- D. Poxvirus

Correct Answer: B

QUESTION 3

Which of the following syndromes corresponds to: right sided valvular disease and diarrhea?

- A. Job's syndrome



- B. Wiskott-Aldrich syndrome
- C. Carcinoid syndrome
- D. Mallory-Weiss syndrome

Correct Answer: C

QUESTION 4

Which of the following is another name for blackheads associated with acme?

- A. Pustules
- B. Sebaceous
- C. Eccrine
- D. Comedones

Correct Answer: D

QUESTION 5

Which of the following is caused by a Vitamin D deficiency?

- A. Edema
- B. Anemia
- C. Lupus
- D. Rickets

Correct Answer: D

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