ASCP-MLT Q&As

MEDICAL LABORATORY TECHNICIAN - MLT(ASCP)

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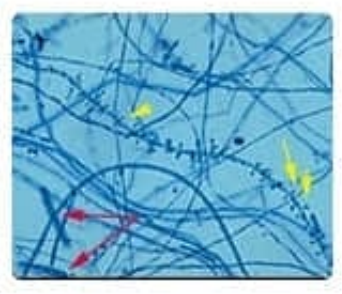
QUESTION 1

The correct answer is Trichophyton rubrum. The tiny microconidia are lined up in a "birds on the fence" arrangement along the hyphal strand transversing the field of view (yellow arrows). Two pencil-shaped, smooth walled macroconidia are

also seen in the lower left field of view (red arrows).

Trichophyton verrucosum may produce microconidia in small quantities. However, they are irregularly arranged with little tendency to line up along the hyphae. Antler hyphae and string bean macroconidia are characteristic of this species.

One of the key characteristics in the identification of Epidermophyton floccosum is the inability of this dermatophyte to produce microconidia. Two to four-celled, club-shaped macroconidia are produced, usually in clusters of two or three.



The profusion of tiny microconidia lining up along the hyphae in this photomicrograph is characteristic of which of the following organisms?

A. Epidermophyton floccosum

B. Trichophyton verrucosum

C. Trichophyton rubrum

Correct Answer: C

QUESTION 2

Skeletal deformations result from the increased erythropoiesis that occurs in beta thalassemia major. Children with beta thalassemia intermedia may demonstrate some facial bone deformity, however this is not common. Beta thalassemia minor rarely causes any physical signs or symptoms and beta thalassemia minima is completely asymptomatic.

Skeletal deformations are most commonly present in which of the following beta thalassemias?

A. Beta thalassemia minor

B. Beta thalassemia intermedia

C. Beta thalassemia major

D. None of the beta thalassemias

E. All of the beta thalassemias equally

Correct Answer: C

QUESTION 3

The hepatitis B vaccine is a series of immunizations consisting of three injections of the hepatitis B antigen. The antigen causes the recipient of the injection to make antibodies against the antigen, hence why this is an example of active

immunity.

Immunology

The hepatitis B virus vaccine was administered to MLS students during Orientation. Which type of immunity is expected to develop and provide long-term protection?

A. active

B. passive

C. adoptive

D. innate

E. inactive

Correct Answer: A

QUESTION 4

G6PD deficiency causes an increased suseptibility to the oxidation of hemoglobin, which in turn, causes the precipitation of hemoglobin inside of the red blood cell. Which one of the following conditions is associated with glucose-6-phosphate dehydrogenase (G6PD) deficiency?

A. Microcytic red cells

B. Precipitation of hemoglobin

C. Faulty heme synthesis

D. Hemoglobins with low oxygen affinities

Correct Answer: B

QUESTION 5

This is the lens power of the scanning objective lens.

A. 4X

B. 40X

C. 10X

D. 100X

Correct Answer: A