

HLS-Biochemistry

Archive

Lecture 5

Porphyrias

Medical card

Name _____

Date of b _____

Gender _____

Address _____

Date of call _____

HLS-Biochemistry

Lecture 5

1. Which statement is FALSE about porphyria cutanea tarda (PCT)?

- a. Caused by deficiency of the last cytosolic enzyme (uroporphyrinogen decarboxylase)
- b. Iron intake precipitates the disease
- c. Estrogen precipitates the disease
- d. Erythrocytic isocoporphyrin characterizes the disease
- e. Motor neuropathy and photocutaneous sensitivity

ANSWER: E

2. Porphyria related to erythropoietic?

- a. Acute intermittent porphyria and Porphyria cutanea tarda
- b. Variegate porphyria and Hereditary coproporphyria
- c. Congenital erythropoietic porphyria and Erythropoietic coproporphyria
- d. ALA dehydratase deficiency porphyria and Hepatoerythropoietic porphyria

ANSWER: C

3. Porphyria cutanea tarda (PCT) is characterized by all of the following EXCEPT?

- a. Overdoses of iron are among the risk factors.
- b. It is due to the deficiency of a cytosolic enzyme.
- c. An inhibitor of an enzyme can be given to relieve its symptoms and signs.
- d. Besides variegate porphyria, both are having neurocutaneous manifestations.
- e. Can be diagnosed by investigating the presence of a modified intermediate in the stool.

ANSWER: D

4. An 8-year-old girl with abdominal pain and motor neuropathy was diagnosed with congenital erythropoietic porphyria (CEP). Which catabolite can be detected in her urine?

- a. ALA (Aminolevulinic acid).
- b. Uroporphyrinogen I.
- c. PEG .
- d. Protoporphyrin.
- e. Coproporphyrin I

ANSWER: B

HLS-Biochemistry **Lecture 5**

5. A 4-year-old boy came to the hospital suffering from a burning sensation in the exposed areas of the skin to sunlight. His blood analysis reveals the presence of porphyrin in the erythrocytes. Which one of the following genes is suspected to have a mutation responsible for this disease?

- a. Coproporphyrinogen oxidase.
- b. Uroporphyrinogen decarboxylase.
- c. Ferrochelatase.
- d. ALA synthase.
- e. Uroporphyrinogen synthase III.

ANSWER: C

