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# Question 1

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**Question Type:** MultipleChoice

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The administration of dapsons gel for the topical treatment of acne vulgaris in patients with G6PD deficiency may produce which of these?

## Options:

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- A- Anaphylaxis
- B- Fungal infections
- C- Hemolysis
- D- Immunosuppression

Section: (none)

Explanation

## Answer:

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C

## Explanation:

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Dapsone treatment has produced dose-related hemolysis and hemolytic anemia. Individuals with glucose-6 phosphate dehydrogenase (G6PD) deficiency are more prone to hemolysis.

## Question 2

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**Question Type:** MultipleChoice

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A patient presents in the pharmacy in a delirious state with pinpoint pupils. Which of the following toxicity states does the patient most likely have?

### Options:

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A- Alcohol

B- Opioid

C- Benzodiazepine

D- Amphetamine

### Answer:

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B

**Explanation:**

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Signs of opioid overdose include pinpoint pupils, delirious state, nausea / vomiting, respiratory depression and sleepiness or loss of consciousness. Naloxone may be used to reverse the effects of opioid overdose.

**Question 3**

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**Question Type: MultipleChoice**

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Which H2-receptor blocker may cause gynecomastia in men due to its antiandrogenic effects?

**Options:**

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**A-** Ranitidine

**B-** Nizatidine

**C-** Cimetidine

**D-** Famotidine

**Answer:**

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C

**Explanation:**

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Cimetidine has multiple drug interactions due to its inhibitory effects on CYP1A2, 2C9, 2D6, and 3A4. Inhibition of these enzymes can cause an increase in the serum concentrations of drugs metabolized by these enzymes, leading to toxicity.

## Question 4

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**Question Type:** MultipleChoice

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Which of these medicines is well-known to cause a positive direct Coombs test?

**Options:**

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**A-** Methyldopa

**B-** Labetalol

**C-** Hydralazine

**D-** Nifedipine

Section: (none)

Explanation

**Answer:**

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A

**Explanation:**

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The direct Coombs test is used to test for autoimmune hemolytic anemia -- a condition in which the body attacks red blood cells, leading to anemia. Some drugs can cause a positive direct Coombs test -- methyldopa being one of the most well-known (via IgG-mediated type II hypersensitivity reaction). Other drugs that can cause this effect include quinidine (IgM-mediated activation) and penicillins (at very high doses).

## Question 5

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**Question Type:** MultipleChoice

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What is the mechanism of action of the active ingredient found in Zylflo?

### Options:

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- A- Ultra-long-acting beta-2 agonist
- B- 5-lipogenase inhibitor
- C- Leukotriene D4 inhibitor
- D- Long-acting anticholinergic

### Answer:

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B

### Explanation:

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Zileuton is the active ingredient found in the medicine Zylflo; a medicine that works as a 5-lipoxygenase inhibitor. As such, zileuton inhibits leukotrienes (LTB<sub>4</sub>, LTC<sub>4</sub>, LTD<sub>4</sub>, and LTE<sub>4</sub>) formation, and is used for the maintenance treatment of asthma in patients older than the age of 12. In 2 percent of patients, it raises liver enzymes. Sinusitis and nausea are the most common side effects.

## Question 6

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**Question Type:** MultipleChoice

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What is the standard oral weekly dose of alendronate given to treat osteoporosis?

**Options:**

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A- 10mg

B- 70mg

C- 140mg

D- 200mg

**Answer:**

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B

**Explanation:**

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The standard oral dose of alendronate in the treatment of osteoporosis is 70mg weekly -- or 10mg per day.

## Question 7

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**Question Type:** MultipleChoice

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A CD4 count of 180 cells per cubic meter may be evaluated as which of these?

**Options:**

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A- Very low

B- Low

C- High

D- Severely high

**Answer:**

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A

**Explanation:**

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A CD4 count of 180 cells per cubic meter is considered very low -- typically an indicator that the patient has an immunocompromised state, such as AIDS. CD4 counts are a measure of healthy T-cell levels. The lower the count, the more susceptible the patient is to opportunistic infections. A normal range is between 500 and 1,500 cells.

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