

## Test yourself about leukotrienes and leukotriene modifiers

**Dalia El-Ghoneimy**

*Assistant Professor of Pediatrics, Ain Shams University*

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### **Choose only one answer:**

#### **1- All are true about Cysteinyl leukotrienes except:**

- a- They are pro-inflammatory lipid mediators.
- b- Cyclo-oxygenase enzyme initiates their production from arachidonic acid .
- c- They have common cysteine in their side chains.
- d- They have an essential role in allergic inflammation.

#### **2- All are true about leukotrienes receptors except:**

- a- They are G-protein coupled receptors.
- b- Cysteinyl- LT receptors are two types that have 38 % amino acids identity.
- c- LTB4 receptor type (BLT1) is a specific high affinity receptor to LTB4.
- d- Cysteinyl- LT receptors are expressed only on mast cells.

#### **3- In allergic airway disease, Cysteinyl LT mediates:**

- a- Chemotaxis of the eosinophils into the airways.
- b- Increased survival of the eosinophils in response to stimuli from mast cells and lymphocytes.
- c- Activation of eosinophils, mast cells, T-lymphocytes, monocytes and basophils.
- d- All of the above.

#### **4- Leukotriene modifiers can be used in:**

- a- Viral induced asthma-exacerbations in young children with intermittent asthma.
- b- Acute severe asthma exacerbation.
- c- Alone in moderate persistent asthma.

#### **5- Leukotriene modifiers were FDA approved to be used in:**

- a- Allergic rhinitis.
- b- Exercise induced asthma.
- c- a +b.
- d- Allergic conjunctivitis.

#### **6- Which of the leukotrienes modifiers can be used from the age of 2 years:**

- a- Zafirlukast.
- b- Montelukast.
- c- Zileuton.
- d- None of the above.

#### **7- Liver enzymes should be monitored during treatment with:**

- a- Montelukast.
- b- Zafirlukast.
- c- Zileuton.
- d- b +c.

(Answers on page 46)