Test yourself about leukotrienes and leukotriene modifiers

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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- A cute severe asthma exacerbation.
   c- A lone 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)