Eicosanoids / Questions and case reports

Questions

1. **What is the difference in the effect of aspirin and non-steroidal anti-inflammatory drugs such as indomethacin on cyclooxygenase activity?**
2. **Some asthmatics exacerbate symptoms when using nonsteroidal anti-inflammatory drugs. How can this be explained from a biochemical point of view?**
3. **Which of the pairs has the opposite effect?**
   - A – Cholic and lithocholic acid
   - B – 5-HPETE and leukotriene D4
   - C – Laktosylceramide and galactocerebroside
   - D – Thromboxane A2 and prostacyklin (PGI2)
   - E – Acetone and 3-hydroxybutyrate

Answers

Case reports

Asthma patient

A 46-year-old woman was treated on an outpatient basis for astmoid bronchitis by inhaling triamcinolone acetonide. Prior to admission to the hospital, she had an upper respiratory tract infection and her breathing difficulties worsened significantly until she turned into an acute asthma attack with marked bronchospasm. Glukcocorticoids were used i.v.

Questions:

1. **What is the mechanism of glucocorticoids in the treatment of asthma?**

Answers

Patients with cardiovascular disease

Man with coronary heart disease is taking small doses of aspirin as s precaution.

Questions:

1. **What is the pathobiochemical mechanism of the beneficial effect of aspirin on the incidence of acute myocardial infarction?**
2. **What adverse effects may acetylsalicylic acid have on some patients?**

Answers

Links

Related articles

- Prostaglandin E1

Other chapters from the book MASOPUST, J., PRŮŠA, R .: Pathobiochemistry of metabolic pathways

Source

- MASOPUST, Jaroslav and Richard PRŮŠA. *Pathobiochemistry of metabolic pathways.* 1st edition. Prague: Charles University, 1999. 182 pp. 98-99. ISBN 80-238-4589-6 .