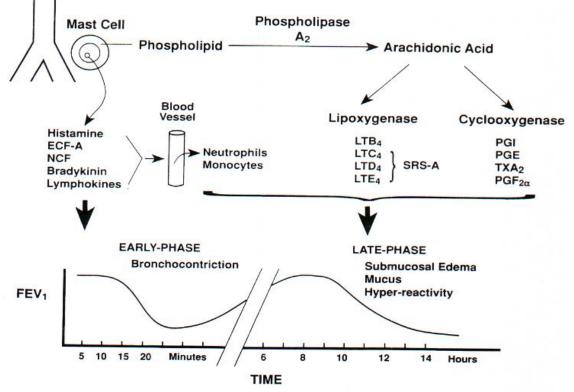
SELF ASSESSMENT RSPT 1200 – MODULE F: MEDIATOR ANTAGONISTS AND STEROIDS

- 1. What do the initials HPA stand for?
 - A. H HYPOTHALAMIC
 - B. P PITUITARY
 - C. A ADRENAL
- 2. Is HPA insufficiency a problem with aerosol or systemic administration of steroids?
 - A. Aerosol
 - B. Systemic
- 3. Where are glucocorticoids (steroids) produced? ADRENAL CORTEX
- 4. List two ways to prevent fungal infections after steroid aerosol administration
 - A. **RINSE MOUTH**
 - B. USE SPACER
- 5. Glucocorticoids are considered **FIRST LINE DRUGS** in the treatment of Asthma
 - A. <mark>True</mark>
 - B. False
- 6. Are Steroids considered controllers or relievers in the treatment of asthma?
 - A. Controllers INHALED
 - B. Relievers SYSTEMIC
- 7. What is the indication for administering steroids? **ANTI-INFLAMMATORY**
- 8. List three common side effects of steroids:
 - A. IMMUNOSUPPRESSION
 - B. INCREASED SUSCEPTIBILITY TO INFECTION
 - C. EDEMA
 - D. **HYPERTENSION**
 - E. EUPHORIA
 - F. INSOMNIA
 - G. THIN SKIN
 - H. IMPAIRED WOUND HEALING
 - I. BRUISING
 - J. ALTERED FAT DISTRIBUTION
 - K. **DIABETES**
 - L. CUSHINGOID STATE
 - M. ELECTROLYTE IMBALANCE
 - N. NEGATIVE NITROGEN BALANCE
 - O. MUSCLE WEAKNESS
 - P. OSTEOPOROSIS

- Q. **GROWTH SUPPRESSION**
- R. GLAUCOMA
- S. MOON FACE
- T. BUFFALO HUMP
- U. CENTRAL OBESITY
- 9. Which two steroids can be given by small volume nebulizer?
 - A. dexamethasone (DECADRON)
 - B. budesonide (PULMICORT) * I'M NOT SURE THIS IS AVAILABLE AS AN INHALANT SOLUTION IN US.
- 10. List the trade names of the following steroids
 - A. Beclomethasone **BECONASE AQ, QVAR 40**
 - B. Flunisolide AEROBID, AEROSPAN, NASAREL
 - C. Dexamethasone **DECADRON**
 - D. Fluticasone FLOVENT, FLONASE
 - E. Budesonide PULMICORT, RHINOCORT
- **11.** Anti-Leukotrienes (also referred to as Leukotriene inhibitors) are non-steroidal antiinflammatory drugs. Name the three Leukotriene inhibitors.
 - A. **zileuton ZYFLO**
 - B. zafirlukast ACCOLATE
 - C. montelukast SINGULAR
- 12. Which of the following should <u>**not**</u> be used to treat an acute asthmatic attack (more than one answer)
 - A. Solumedrol
 - B. Intal
 - C. Singular
 - D. Zyflo
- 13. How specifically does Cromolyn sodium prevent inflammation? PREVENT CA+2 INFLUX INTO THE CELL, THEREBY PREVENTING MEDIATOR RELEASE.
- 14. Name the chemical mediators that are released from mast cells & eosinophils during an antigen-antibody reaction.
 - A. **HISTAMINE**
 - B. PLATELET ACTIVATING FACTOR
 - C. EOSINOPHIL CHEMOTACTIC FACTOR OF ANAPHYLAXIS (ECF-A)
 - D. NEUTROPHIL CHEMOTACTIC FACTOR OF ANAPHYLAXIS (NCF-A)
 - E. LEUKOTRIENES
 - F. **PROSTAGLANDINS**

- 15. Explain how the body regulates the production and secretion of steroids.
 - A. LOW BLOOD LEVELS OF STEROIDS.
 - B. HYPOTHALAMUS IS STIMULATED.
 - C. SENDS IMPULSE TO ANTERIOR PITUITARY GLAND WHICH STIMULATES CORTICOTROPIN RELEASING FACTOR (CRF).
 - D. THIS STIMULATES THE FORMATION OF ADRENOCORTICOTROPIN HORMONE (ACTH).
 - E. ACTH IN BLOODSTREAM STIMULATES ADRENAL CORTEX TO PRODUCE AND RELEASE CORTICOSTEROIDS.
 - F. INCREASES BLOOD LEVELS OF CORTICOSTEROIDS.
- 16. Draw a picture and explain how Anti-Leukotrienes work to stop inflammation.



- 17. Which of the following anti-inflammatory drugs are used in the treatment of acute asthma?
 - A. Decongestants
 - B. Anti-histamines
 - C. Mast Cell Stabilizers
 - D. Leukotriene Antagonists
 - E. Steroids
- 18. Which of the anti-inflammatory drugs are used as prophylactics to prevent an asthma attack?

- A. Mast Cell Stabilizers
- B. Leukotriene Antagonists
- C. Steroids
- D. All the above
- 19. Name the two categories of adrenocorticosteroids.
 - A. GLUCOCORTICOIDS
 - B. MINERALOCORTICOIDS
- 20. Which of the adrenocorticosteroids is used to regulate electrolyte and H₂O balance in the body? **ALDOSTERONE**
- 21. Which of the adrenocorticosteroids regulates metabolism of carbohydrates, fats and protein? **CORTISOL**
- 22. How does phenylephrine work as a decongestant? α-ADRENERGIC AGENT THAT PROMOTES VASOCONSTRICTION