

Leukotriene Antagonists: Asthma

I. Drugs

- A. Zileuton > 5-lipoxygenase inhibitor
- B. Montelukast > Leukotriene receptor antagonist
- C. Zafirlukast > Leukotriene receptor antagonist

II. Adverse Effects:

- A. Not a rescue medication
- B. Elevated liver enzymes

IgE Monoclonal Antibodies - Asthma

I. Drugs

- A. Omalizumab > Asthma

II. Activity: Binds IgE

III. Adverse Effects

- A. Allergic Reactions
- B. Arthralgias
- C. Infections
- D. Malignancy

Cromolyn

I. Drugs

- A. Cromolyn > Asthma

II. Activity: Stabilizes mast cells, decreases histamine & leukotriene release

III. Adverse Effects:

- A. Not a rescue medication

Phosphodiesterase 4 Inhibitors

I. Drugs

- A. Roflumilast > COPD

II. Activity: Inhibits PDE-4, promotes anti-inflammatory cytokines

III. Adverse Effects:

- A. Not a rescue drug
- B. Frequent administration

First Generation Antihistamines

I. Drugs

- A. Brompheniramine
- B. Chlorpheniramine
- C. Clemastine
- D. Cyproheptadine > Anorgasmia in SSRIs & Appetite Stimulation
- E. Diphenhydramine

F. Dimenhydrinate

G. Doxylamine > N/V in pregnancy

H. Hydroxyzine > Anxiety, Pruritus

I. Meclizine > Vertigo

J. Olopatadine > Allergic Conjunctivitis

K. Promethazine > Nausea

II. Activity: Blocks histamine receptors

III. Adverse Effects:

- A. Drowsiness
- B. Dry Mouth
- C. Brompheniramine & Chlorpheniramine: Serotonin syndrome with MAOi
- D. Promethazine: Tissue necrosis with subcutaneous or extravasated IV administration

Second Generation Antihistamines

I. Drugs

- A. Cetirizine > Allergies
- B. Desloratadine > Allergies
- C. Fexofenadine > Allergies
- D. Levocetirizine > Allergies
- E. Loratadine > Allergies

II. Activity: Blocks histamine receptors

III. Adverse Effects:

- A. Dry mouth/eyes

Non-Opioid Cough Treatment

I. Drugs

- A. Dextromethorphan > Central cough suppressant
- B. Guaifenesin > Expectorant
- C. Benzonatate > Anesthetizes stretch receptors in respiratory tract.

II. Adverse Effects

- A. Dextromethorphan
 - 1. Robo Tripping
 - 2. Dysphoria
- B. Benzonatate
 - 1. Dizziness
 - 2. Mouth numbness