



Bronchodilator Therapy

Questions

- 1) What is the primary mechanism of action of beta-2 adrenergic agonists as bronchodilators?
 - A. Inhibition of acetylcholine release
 - B. Stimulation of beta-1 receptors
 - C. Relaxation of bronchial smooth muscles
 - D. Antagonism of histamine receptors

- 2) Which of the following is a short-acting bronchodilator commonly used for quick relief of bronchoconstriction?
 - A. Formoterol
 - B. Salmeterol
 - C. Albuterol
 - D. Ipratropium

- 3) Anticholinergic bronchodilators primarily act by:
 - A. Inhibiting leukotriene synthesis
 - B. Blocking beta receptors
 - C. Inhibiting acetylcholine receptors
 - D. Stabilizing mast cells

- 4) What is the purpose of combination therapy involving both beta-agonists and anticholinergics in the treatment of respiratory conditions?
 - A. Potentiate side effects
 - B. Reduce bronchodilator efficacy
 - C. Provide additive bronchodilation
 - D. Increase the risk of tolerance development

5) A patient is complaining of blurring of vision after using an inhaler, which inhaler medications can cause that

- A. Short acting beta agonist
- B. long acting beta agonist
- C. Anticholinergics
- D. Steroids

6) Which of the following is a common side effect associated with beta-agonist bronchodilators?

- A. Dry mouth
- B. Bradycardia
- C. Hypertension
- D. Tachycardia

7) What is the primary therapeutic goal of using bronchodilators in the treatment of chronic obstructive pulmonary disease (COPD)?

- A. Decreasing airway inflammation
- B. Improving oxygenation
- C. Preventing bronchoconstriction
- D. Reducing mucus production

8) Which class of bronchodilators is often recommended for nocturnal symptoms and prolonged duration of action?

- A. Short-acting beta-agonists
- B. Long-acting beta-agonists
- C. Short-acting anticholinergics
- D. Long-acting anticholinergics

9) What is the recommended technique for administering inhaled bronchodilators to ensure optimal therapeutic effects?

- A. Inhale rapidly and deeply
- B. Exhale completely before inhalation
- C. Hold breath for 5 seconds after inhalation
- D. Exhale forcefully during inhalation

10) In the context of bronchodilator therapy, what is rebound bronchoconstriction, and how can it be minimized?

- A. Sudden onset of bronchodilation
- B. Exaggerated bronchoconstriction after medication wears off
- C. Allergic reaction to bronchodilators
- D. Development of tolerance to bronchodilators