

Allergic Rhinitis, Asthma and COPD Therapeutics Practice Test (Sample)

Study Guide



Everything you need from our exam experts!

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Introduction

Preparing for a certification exam can feel overwhelming, but with the right tools, it becomes an opportunity to build confidence, sharpen your skills, and move one step closer to your goals. At Examzify, we believe that effective exam preparation isn't just about memorization, it's about understanding the material, identifying knowledge gaps, and building the test-taking strategies that lead to success.

This guide was designed to help you do exactly that.

Whether you're preparing for a licensing exam, professional certification, or entry-level qualification, this book offers structured practice to reinforce key concepts. You'll find a wide range of multiple-choice questions, each followed by clear explanations to help you understand not just the right answer, but why it's correct.

The content in this guide is based on real-world exam objectives and aligned with the types of questions and topics commonly found on official tests. It's ideal for learners who want to:

- Practice answering questions under realistic conditions,
- Improve accuracy and speed,
- Review explanations to strengthen weak areas, and
- Approach the exam with greater confidence.

We recommend using this book not as a stand-alone study tool, but alongside other resources like flashcards, textbooks, or hands-on training. For best results, we recommend working through each question, reflecting on the explanation provided, and revisiting the topics that challenge you most.

Remember: successful test preparation isn't about getting every question right the first time, it's about learning from your mistakes and improving over time. Stay focused, trust the process, and know that every page you turn brings you closer to success.

Let's begin.

How to Use This Guide

This guide is designed to help you study more effectively and approach your exam with confidence. Whether you're reviewing for the first time or doing a final refresh, here's how to get the most out of your Examzify study guide:

1. Start with a Diagnostic Review

Skim through the questions to get a sense of what you know and what you need to focus on. Your goal is to identify knowledge gaps early.

2. Study in Short, Focused Sessions

Break your study time into manageable blocks (e.g. 30 - 45 minutes). Review a handful of questions, reflect on the explanations.

3. Learn from the Explanations

After answering a question, always read the explanation, even if you got it right. It reinforces key points, corrects misunderstandings, and teaches subtle distinctions between similar answers.

4. Track Your Progress

Use bookmarks or notes (if reading digitally) to mark difficult questions. Revisit these regularly and track improvements over time.

5. Simulate the Real Exam

Once you're comfortable, try taking a full set of questions without pausing. Set a timer and simulate test-day conditions to build confidence and time management skills.

6. Repeat and Review

Don't just study once, repetition builds retention. Re-attempt questions after a few days and revisit explanations to reinforce learning. Pair this guide with other Examzify tools like flashcards, and digital practice tests to strengthen your preparation across formats.

There's no single right way to study, but consistent, thoughtful effort always wins. Use this guide flexibly, adapt the tips above to fit your pace and learning style. You've got this!

Questions

- 1. What significant warning is associated with montelukast?**
 - A. Respiratory infections**
 - B. Serious neuropsychiatric events**
 - C. Cardiovascular disease**
 - D. Increased liver enzymes**
- 2. What is the correct way to use a metered dose inhaler for someone with coordination difficulties?**
 - A. Use with a spacer for better delivery.**
 - B. Shake the inhaler vigorously before use.**
 - C. Inhale quickly without holding the breath.**
 - D. Do not use it if unable to coordinate movements.**
- 3. What should be the patient's condition for stepping down therapy?**
 - A. Stable symptoms with increasing use of SABA**
 - B. Well controlled for at least 3 months**
 - C. Frequent exacerbations**
 - D. Low adherence to medication**
- 4. How does FEV1 influence the treatment of COPD patients?**
 - A. It is a primary determinant in treatment**
 - B. It does not influence treatment**
 - C. It is irrelevant in later stages**
 - D. It is used for diagnosis only**
- 5. Which of the following is an example of an oral decongestant?**
 - A. Oxymetazoline (Afrin)**
 - B. Pseudoephedrine (Sudafed, Nexafed)**
 - C. Montelukast**
 - D. Cromolyn**

- 6. What happens to the FEV1/FVC ratio after bronchodilator treatment in asthma?**
- A. The ratio decreases**
 - B. The ratio improves**
 - C. The ratio remains the same**
 - D. It can fluctuate unpredictably**
- 7. What is the standard approach for patients with moderate-severe allergic rhinitis symptoms?**
- A. Use only antihistamines**
 - B. Start with nasal irrigation**
 - C. Initiate intranasal steroids**
 - D. Delay treatment until symptoms worsen**
- 8. Which of the following should be monitored for long-term management of asthma?**
- A. Daily exercise routines**
 - B. Adherence and inhaler technique**
 - C. Dietary habits and nutrition**
 - D. Current medications for unrelated conditions**
- 9. Which LABA can be combined with Budesonide in asthma therapy?**
- A. Fluticasone**
 - B. Formoterol**
 - C. Salmeterol**
 - D. Montelukast**
- 10. What contraindication is associated with expectorants?**
- A. Patients with asthma**
 - B. Patients with phenylketonuria**
 - C. Patients with COPD**
 - D. Patients with severe headaches**

Answers

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1. B
2. A
3. B
4. B
5. B
6. B
7. C
8. B
9. B
10. B

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Explanations

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1. What significant warning is associated with montelukast?

- A. Respiratory infections**
- B. Serious neuropsychiatric events**
- C. Cardiovascular disease**
- D. Increased liver enzymes**

Montelukast, a leukotriene receptor antagonist often prescribed for managing asthma and allergic rhinitis, carries a significant warning for serious neuropsychiatric events. This includes issues such as depression, anxiety, mood changes, and suicidal thoughts or actions. These concerns emerged following reports and studies that linked montelukast use to various neuropsychiatric side effects, prompting the urging of healthcare providers to closely monitor patients for these symptoms, especially in those with a history of mental health conditions. Understanding the importance of this warning is crucial because it highlights the need for clinicians to balance the efficacy of montelukast in controlling asthma symptoms against the potential risks of serious mental health side effects. Regular follow-up and patient education regarding any emerging psychological symptoms are vital to ensure patient safety while using this medication.

2. What is the correct way to use a metered dose inhaler for someone with coordination difficulties?

- A. Use with a spacer for better delivery.**
- B. Shake the inhaler vigorously before use.**
- C. Inhale quickly without holding the breath.**
- D. Do not use it if unable to coordinate movements.**

Using a metered dose inhaler with a spacer is the appropriate technique for individuals with coordination difficulties because it enhances the effectiveness of the medication delivery to the lungs. The spacer allows the patient to inhale the medication more effectively by providing a chamber that holds the aerosolized medication, giving them additional time to coordinate their inhalation. This method reduces the need to time the actuation of the inhaler with the breathing in, which can be challenging for those with coordination issues. Moreover, the use of a spacer can help minimize the oropharyngeal deposition of medication, leading to better lung delivery and reducing side effects. Therefore, for those who may struggle with handling the inhaler due to physical delays or coordination problems, a spacer can significantly improve therapeutic outcomes by allowing more efficient inhalation and better control over the medication received.

3. What should be the patient's condition for stepping down therapy?

- A. Stable symptoms with increasing use of SABA
- B. Well controlled for at least 3 months**
- C. Frequent exacerbations
- D. Low adherence to medication

The patient's condition for stepping down therapy in the management of asthma should be characterized by being well controlled for at least three months. This criterion indicates that the patient has achieved stability in their symptoms, with no recent exacerbations, and is able to maintain normal activities and sleep without interference from asthma symptoms. The well-controlled state reflects effective management of the condition, suggesting that there may be an opportunity to reduce medication without risking a deterioration in control. Stepping down therapy can help minimize the potential side effects of long-term medication use, such as corticosteroids, while still maintaining adequate control of the disease. It is important to ensure that the patient has demonstrated consistent control and is not experiencing frequent symptoms or exacerbations, which would warrant maintaining or even increasing therapy for better management.

4. How does FEV1 influence the treatment of COPD patients?

- A. It is a primary determinant in treatment
- B. It does not influence treatment**
- C. It is irrelevant in later stages
- D. It is used for diagnosis only

FEV1, or forced expiratory volume in one second, is a critical measure in assessing lung function in patients with Chronic Obstructive Pulmonary Disease (COPD). Its primary relevance lies in diagnosing and staging the disease, but it also plays a role in guiding treatment decisions. In the management of COPD, FEV1 is utilized as a key parameter to categorize the severity of airflow limitation. While it informs the classification of the disease and helps healthcare providers understand the overall health of the patient's lungs, the direct influence of FEV1 on treatment strategies can be limited. Treatment decisions may incorporate additional factors such as the frequency of exacerbations, symptoms, comorbidities, and patient preference, rather than relying solely on FEV1 values. Therefore, while FEV1 is significant in understanding the disease's progression and making initial treatment plans, it should not be seen as the singular determinant in managing treatment throughout the course of the disease. This approach reflects a broader understanding of patient management that takes into account the individualized nature of COPD. Hence, the influence of FEV1 is nuanced and contextual, emphasizing the importance of a holistic view in treatment strategies for COPD patients.

5. Which of the following is an example of an oral decongestant?

- A. Oxymetazoline (Afrin)
- B. Pseudoephedrine (Sudafed, Nexafed)**
- C. Montelukast
- D. Cromolyn

Pseudoephedrine, commonly known by brand names such as Sudafed and Nexafed, is classified as an oral decongestant. Its mechanism of action involves stimulating adrenergic receptors, leading to vasoconstriction in nasal blood vessels, which reduces nasal congestion. This makes pseudoephedrine effective for alleviating symptoms associated with conditions like allergic rhinitis and sinusitis. In contrast, oxymetazoline (Afrin) is a topical decongestant, typically delivered via a nasal spray, which, while effective for short-term relief of nasal congestion, does not fall under the oral category. Montelukast is a leukotriene receptor antagonist primarily used to manage asthma and allergic rhinitis but does not possess decongestant properties. Cromolyn is a mast cell stabilizer used in nasal sprays for allergic rhinitis but, like montelukast, is not classified as a decongestant. Thus, pseudoephedrine stands out as the correct example of an oral decongestant among the options provided.

6. What happens to the FEV1/FVC ratio after bronchodilator treatment in asthma?

- A. The ratio decreases
- B. The ratio improves**
- C. The ratio remains the same
- D. It can fluctuate unpredictably

Following bronchodilator treatment in asthma, the FEV1/FVC (Forced Expiratory Volume in one second to Forced Vital Capacity) ratio typically improves. This improvement is primarily due to bronchodilation, which helps to open up narrowed airways, allowing for better airflow during forced expiration. In patients with asthma, the airflow limitation is often reversible, meaning that after the administration of a bronchodilator, practitioners usually observe an increase in FEV1 (the volume of air that can be forcibly exhaled in the first second) more significantly than any changes in FVC (the total volume of air that can be forcibly exhaled). As a result, the numerator of the ratio (FEV1) increases, leading to a comparatively higher FEV1/FVC ratio, which reflects an improvement in airway function. In summary, bronchodilator treatment alleviates the bronchoconstriction associated with asthma, thereby enhancing airflow, which positively affects the FEV1/FVC ratio.

7. What is the standard approach for patients with moderate-severe allergic rhinitis symptoms?

- A. Use only antihistamines**
- B. Start with nasal irrigation**
- C. Initiate intranasal steroids**
- D. Delay treatment until symptoms worsen**

The standard approach for managing moderate to severe allergic rhinitis symptoms includes initiating intranasal steroids. This treatment is recognized as the most effective first-line therapy for controlling the inflammation associated with allergic rhinitis. Intranasal steroids work by reducing nasal inflammation, thereby alleviating symptoms such as congestion, sneezing, and runny nose more effectively than other medications. Starting intranasal steroid therapy early helps in controlling symptoms and can improve the quality of life for affected individuals. In many cases, patients may experience significant relief within a few days of initiating treatment. For those with persistent symptoms, intranasal steroids can be utilized safely for extended periods, reinforcing their status as a critical component of therapy for more severe cases. While antihistamines can help relieve itching and sneezing, they may not adequately address nasal congestion, which is a significant component of moderate to severe allergic rhinitis. Nasal irrigation can provide symptomatic relief and help clear allergens, but it is not a standalone treatment for more severe symptoms. Finally, delaying treatment until symptoms worsen is not advisable, as early intervention is crucial in managing allergic rhinitis effectively and preventing further complications or exacerbations of symptoms.

8. Which of the following should be monitored for long-term management of asthma?

- A. Daily exercise routines**
- B. Adherence and inhaler technique**
- C. Dietary habits and nutrition**
- D. Current medications for unrelated conditions**

Monitoring adherence and inhaler technique is vital for the long-term management of asthma. Adherence refers to the patient's ability to follow prescribed medication regimens, which is crucial for maintaining asthma control and preventing exacerbations. Inhaler technique is equally important, as improper use of inhalers can lead to inadequate medication delivery to the airways, resulting in suboptimal asthma control. Regularly assessing these factors helps healthcare providers identify any issues that could compromise the patient's treatment plan. For instance, if a patient is not adhering to their medication or is using their inhaler incorrectly, they may experience worsening symptoms or attacks, which could be preventable with proper education and support. Other aspects such as daily exercise routines, dietary habits, and medications for unrelated conditions may be relevant to overall health management, but they do not have the direct impact on asthma management that adherence and inhaler technique do. Therefore, focusing on B is essential for effective asthma management and improving patient outcomes.

9. Which LABA can be combined with Budesonide in asthma therapy?

- A. Fluticasone
- B. Formoterol**
- C. Salmeterol
- D. Montelukast

Formoterol is the correct choice for combination with Budesonide in asthma therapy because it is a long-acting beta-agonist (LABA) that has been specifically approved for use in conjunction with inhaled corticosteroids like Budesonide. This combination is effective in managing asthma by providing both anti-inflammatory effects from the corticosteroid and bronchodilation from the LABA, leading to improved symptom control and reduced exacerbation frequency. Inhaled corticosteroids are essential in controlling underlying airway inflammation in asthma, while LABAs offer prolonged bronchodilation. Formoterol's quick onset of action also allows for effective relief of acute bronchospasm, making it a suitable option for patients requiring both immediate and preventative therapy. Other options, while important in the context of asthma management, do not represent the correct combination with Budesonide for this specific question. Fluticasone is another inhaled corticosteroid and should not be combined with Budesonide. Salmeterol is another LABA, but it is typically used in combination with other corticosteroids rather than Budesonide. Montelukast, on the other hand, is a leukotriene receptor antagonist and serves a different therapeutic role not involving direct combination with inhaled corticosteroids in a

10. What contraindication is associated with expectorants?

- A. Patients with asthma
- B. Patients with phenylketonuria**
- C. Patients with COPD
- D. Patients with severe headaches

The association of contraindication with expectorants in patients with phenylketonuria is due to the presence of artificial sweeteners, particularly aspartame, which is often found in liquid formulations of expectorants. Aspartame is a source of phenylalanine, an amino acid that individuals with phenylketonuria cannot metabolize effectively. This can lead to elevated levels of phenylalanine in the blood, potentially causing serious neurological issues. In contrast, while expectorants can be used with caution in patients with asthma, COPD, or severe headaches, the specific concern for phenylketonuria is significant due to the metabolic limitations that these patients face. Therefore, the contraindication linked to expectorants primarily applies to this condition.

Next Steps

Congratulations on reaching the final section of this guide. You've taken a meaningful step toward passing your certification exam and advancing your career.

As you continue preparing, remember that consistent practice, review, and self-reflection are key to success. Make time to revisit difficult topics, simulate exam conditions, and track your progress along the way.

If you need help, have suggestions, or want to share feedback, we'd love to hear from you. Reach out to our team at hello@examzify.com.

Or visit your dedicated course page for more study tools and resources:

<https://rhinitisasthmacopdtherapeutics.examzify.com>

We wish you the very best on your exam journey. You've got this!