

Ophthalmic Medications 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

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- 1. Fluorometholone 0.1% is used for ocular surface inflammation/dry eye; what is a potential adverse effect?**
 - A. Reduced IOP**
 - B. Can cause elevated intraocular pressure**
 - C. Systemic hypotension**
 - D. Conjunctival hyperemia only**

- 2. What is the cap color for Brinzolamide 1% (Azopt)?**
 - A. White**
 - B. Yellow**
 - C. Purple**
 - D. Orange**

- 3. Which pupil-dilation drug is no longer manufactured?**
 - A. Homatropine 2%**
 - B. Atropine 1%**
 - C. Tropicamide 1%**
 - D. Cyclopentolate 1%**

- 4. Caution for Acetazolamide indicates avoidance in which patients?**
 - A. Sick cell patients**
 - B. History of kidney stones**
 - C. Taking diuretics**
 - D. All of the above**

- 5. Dorzolamide is a carbonic anhydrase inhibitor; which statement is true?**
 - A. It is a carbonic anhydrase inhibitor**
 - B. It is a beta blocker**
 - C. It is an antibiotic**
 - D. It is a prostaglandin analog**

- 6. Which eye drop has a red cap and lasts about 4-6 hours?**
- A. Tropicamide**
 - B. Phenylephrine**
 - C. Cyclopentolate**
 - D. Homatropine**
- 7. Which carbonic anhydrase inhibitor has cautions similar to acetazolamide but less severe?**
- A. Acetazolamide**
 - B. Methazolamide**
 - C. Dorzolamide**
 - D. Latanoprost**
- 8. What cap colors do Steroid drops have?**
- A. Pink or Pink/white**
 - B. Red caps**
 - C. Blue caps**
 - D. Green caps**
- 9. Which prostaglandin analog is used to increase aqueous outflow in glaucoma management?**
- A. Bimatoprost 0.01%, 0.03%**
 - B. Latanoprost 0.005%**
 - C. Travoprost 0.004%**
 - D. Unoprostone 0.15%**
- 10. Which drop is used with tropicamide for adult dilation?**
- A. Phenylephrine 2.5% or Neo-Synephrine**
 - B. Tropicamide**
 - C. Cyclopentolate**
 - D. Atropine**

Answers

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

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Explanations

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1. Fluorometholone 0.1% is used for ocular surface inflammation/dry eye; what is a potential adverse effect?

- A. Reduced IOP
- B. Can cause elevated intraocular pressure**
- C. Systemic hypotension
- D. Conjunctival hyperemia only

When a topical ocular corticosteroid like fluorometholone is used, a key safety concern is the risk of raising the eye's intraocular pressure in people who are sensitive to steroids. This occurs because steroids can affect the outflow pathways of the aqueous humor, leading to a buildup of pressure inside the eye. Even though fluorometholone is considered relatively milder, IOP elevation can still happen, especially with longer use, so monitoring the pressure is important to prevent steroid-induced glaucoma. Other options don't fit as well because reduced intraocular pressure isn't a known adverse effect of topical steroids, and systemic hypotension isn't expected with eye drops since systemic absorption is minimal. Conjunctival hyperemia can occur with some eye drops, but it's not the primary or defining risk with fluorometholone; the more clinically significant concern is the potential for elevated IOP.

2. What is the cap color for Brinzolamide 1% (Azopt)?

- A. White
- B. Yellow
- C. Purple
- D. Orange**

Cap color serves as a quick visual cue to identify an ophthalmic solution at a glance. Brinzolamide 1% (Azopt) uses an orange cap, which helps distinguish it from other glaucoma eye drops and from different formulations stored together. This color coding reduces the chance of selecting the wrong medication in a busy clinic or at home, especially when bottles look similar. Always read the label for the exact drug and concentration, but the orange cap is the identifying feature for this product. Other colors correspond to different drugs or brands, so they wouldn't match Brinzolamide 1%.

3. Which pupil-dilation drug is no longer manufactured?

- A. Homatropine 2%**
- B. Atropine 1%
- C. Tropicamide 1%
- D. Cyclopentolate 1%

Homatropine 2% is largely a historical mydriatic with a longer and less predictable duration and more variable anticholinergic effects. Because of these drawbacks, many manufacturers have stopped producing it, and it has been phased out in favor of newer agents. The drugs that are still routinely manufactured and used for dilation—tropicamide, cyclopentolate, and atropine—offer shorter, more predictable durations (tropicamide) or are chosen for longer-acting needs (atropine) with clearer dosing and safety profiles. That combination of being withdrawn from production in many markets and being less favorable in practice is why homatropine 2% is the one no longer manufactured.

4. Caution for Acetazolamide indicates avoidance in which patients?

- A. Sickle cell patients**
- B. History of kidney stones**
- C. Taking diuretics**
- D. All of the above**

Acetazolamide inhibits carbonic anhydrase in the proximal tubule, so more bicarbonate, sodium, and water are lost in the urine. This creates an alkaline urine and a mild metabolic acidosis. That combination raises specific risks: in people with a history of kidney stones, the alkaline urine can promote certain stone forms; in those with sickle cell disease, the acidosis and potential dehydration can worsen sickling episodes; and in patients already taking diuretics, the added diuretic effect plus electrolyte shifts (like potassium loss) can lead to dehydration and electrolyte disturbances. Because of these potential problems, caution or avoidance is advised in all these groups, making “all of the above” the best choice.

5. Dorzolamide is a carbonic anhydrase inhibitor; which statement is true?

- A. It is a carbonic anhydrase inhibitor**
- B. It is a beta blocker**
- C. It is an antibiotic**
- D. It is a prostaglandin analog**

The main concept is that dorzolamide lowers intraocular pressure by inhibiting carbonic anhydrase in the ciliary body, which reduces bicarbonate formation and, consequently, aqueous humor production. That mechanism makes the statement true: it is a carbonic anhydrase inhibitor. This class acts by cutting the fluid production in the eye, helping to lower pressure in glaucoma or ocular hypertension. It's not a beta blocker, antibiotic, or prostaglandin analog, because those classes influence eye pressure or treat infections in different ways. Dorzolamide is used as a topical ophthalmic agent, sometimes in fixed combinations (for example with timolol) to enhance pressure lowering. Common side effects include stinging on instillation and a bitter taste, with rare sulfa allergies being relevant to its class.

6. Which eye drop has a red cap and lasts about 4-6 hours?

- A. Tropicamide**
- B. Phenylephrine**
- C. Cyclopentolate**
- D. Homatropine**

Short-acting pupil dilation is often linked to a red-cap label. Tropicamide is a fast-acting, short-duration dilating drop that typically lasts about 4-6 hours. It works quickly to widen the pupil but wears off within a few hours, which fits the clue given by the red cap and the 4-6 hour duration. In contrast, cyclopentolate and homatropine produce much longer-lasting dilation (often many hours to days), and phenylephrine is a different type of dilator with a distinct duration profile. So tropicamide best matches both the cap color cue and the 4-6 hour duration.

7. Which carbonic anhydrase inhibitor has cautions similar to acetazolamide but less severe?

- A. Acetazolamide
- B. Methazolamide**
- C. Dorzolamide
- D. Latanoprost

Carbonic anhydrase inhibitors lower intraocular pressure by reducing bicarbonate formation in the ciliary processes, which decreases aqueous humor production. Because they act systemically on the kidney as well, these drugs share similar cautions such as metabolic acidosis, electrolyte disturbances (like hypokalemia), risk of kidney stones, and considerations for sulfa allergies. Methazolamide is another systemic carbonic anhydrase inhibitor, so it carries the same types of cautions as acetazolamide. However, its adverse effects are generally milder, making it a option when acetazolamide's tolerability is an issue. Dorzolamide is a topical CAI and mainly causes local ocular side effects with less systemic impact, so its cautions aren't as similar or as severe as those of acetazolamide. Latanoprost is not a carbonic anhydrase inhibitor at all; it's a prostaglandin analog with a different side effect profile. So, the drug with cautions similar to acetazolamide but less severe is methazolamide.

8. What cap colors do Steroid drops have?

- A. Pink or Pink/white**
- B. Red caps
- C. Blue caps
- D. Green caps

Cap color coding helps you identify the drug class at a glance. Steroid eye drops are typically packaged with pink or pink/white caps, a convention used to distinguish them from other types of drops. This quick cue can be helpful in busy clinics or at home when multiple bottles are in use, though the exact color can vary by brand and country. Remember to always check the label for the active ingredient, since steroids require careful use and monitoring.

9. Which prostaglandin analog is used to increase aqueous outflow in glaucoma management?

- A. Bimatoprost 0.01%, 0.03%**
- B. Latanoprost 0.005%
- C. Travoprost 0.004%
- D. Unoprostone 0.15%

Prostaglandin analogs lower intraocular pressure by increasing aqueous humor outflow, mainly through the uveoscleral pathway. Among these options, bimatoprost is particularly effective and is commonly formulated at 0.01% and 0.03%, producing strong outflow enhancement and greater IOP reduction. It can influence both uveoscleral and, to some extent, trabecular outflow, which helps explain its potency. Latanoprost and travoprost also increase outflow but are considered somewhat less potent in practice, while unoprostone has a different activity profile and is used less commonly today. Therefore, the best choice for increasing aqueous outflow is bimatoprost.

10. Which drop is used with tropicamide for adult dilation?

A. Phenylephrine 2.5% or Neo-Synephrine

B. Tropicamide

C. Cyclopentolate

D. Atropine

Adult dilation often uses a combination approach: tropicamide opens the pupil quickly by blocking the muscarinic receptors, but adding phenylephrine, an alpha-1 agonist, produces a stronger and more reliable dilation by stimulating the iris dilator muscle. Phenylephrine 2.5% (Neo-Synephrine) is the standard companion drop with tropicamide to achieve adequate mydriasis for the exam. Cyclopentolate or atropine can dilate as well, but they're not the usual partners with tropicamide for routine adult dilation.

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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://ophthalmicmeds.examzify.com>

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

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