

1. A patient presents with a persistent nonproductive cough associated with a respiratory infection. The patient reports trying over the counter cough medicines without relief. Which med acts within the central nervous system and can be considered an alternative for cough suppression in this patient?
 - a. **Dextromethorphan**
 - b. Diphenhydramine
 - c. Benzonatate
 - d. Guaifenesin
2. What is an approved use of topical tretinoin other than acne treatment?
 - a. **WRINKLES**
 - b. Treatment of hypertension
 - c. Prevention of bacterial infections
 - d. Relief of pain
3. Which medication should be reserved for patients who do not respond to or cannot tolerate intranasal glucocorticoids or antihistamines due to its limited beneficial effects and potential serious neuropsychiatric adverse effects?
 - a. **Montelukast**
 - b. benzonatate
 - c. Ipratropium bromide
 - d. Omalizumab
4. A 35-year-old patient presented to the ED with symptoms of acute allergic rhinitis, including sneezing, rhinorrhea, and itching of the eyes, nose, and throat. Which class of medication would be the most appropriate for providing symptomatic relief?
 - a. **H1 antagonists**
 - b. NSAIDS
 - c. Oral corticosteroids
 - d. H2 antagonists
5. A patient presents with severe nasal congestion associated with allergic rhinitis. The patient reports using an over-the-counter topical sympathomimetic spray for the past 7 days without relief. What is the patient most likely experiencing after using the topical sympathomimetic spray for 7 days?
 - a. Abuse potential
 - b. **Rebound congestion**
 - c. Central nervous system stimulation
 - d. Cardiovascular effects
6. An elderly patient with glaucoma presents with orthostatic hypotension. Which class of glaucoma medications is most likely responsible for the hypotension in this patient?
 - a. **Alpha 2 agonist**
 - b. Carbonic anhydrase inhibitors
 - c. Prostaglandin analogs
 - d. Rho kinase inhibitor
7. A patient returns to the clinic with persistent symptoms of intense pruritic and erythema in the external auditory canal despite initial treatment with 2% acetic acid solution. Which topical medication should be prescribed next for suspected **fungal** otitis externa according to the course book.
 - a. Hydrocortisone/neomycin/polymyxin b
 - b. Alcohol plus acetic solution
 - c. Amoxicillin
 - d. **1% clotrimazole solution**
8. A patient with severe nodulocystic acne vulgaris has been taking isotretinoin for three months. They report experiencing severe headache, vision changes, and vomiting. What action should the provider take?
 - a. **Discontinue isotretinoin and refer to a neurologist**
 - b. Increase the isotretinoin dose
 - c. Prescribe a stronger analgesic for headache relief
 - d. Reduce the frequency of isotretinoin administration
9. A patient with psoriasis seeks treatment. Which keratolytic agent would be most appropriate for promoting shedding of the stratum corneum?
 - a. **Salicylic acid**
 - b. Benzoyl peroxide
 - c. Sulfur
 - d. Tretinoin
10. A patient presents with symptoms of allergic rhinitis, including nasal congestion and itching. The patient has a history of hypertension and is currently taking antihypertensive medications. Which sympathomimetic medication listed would pose the highest risk to this patient due to its potential adverse effects on systemic blood vessels?
 - a. **Pseudoephedrine**
 - b. Phenylephrine