

Neurodegenerative Diseases

Lippincott Pharmacology

Question 1

Modest improvement in the memory of patients with Alzheimer disease may occur with drugs that increase transmission at which receptor?

- A. Adrenergic
- B. Cholinergic
- C. Dopaminergic
- D. Serotonergic

Correct answer = B

Question 2

A 70-year-old woman with moderate to severe dementia related to Alzheimer disease has been treated with an acetylcholinesterase inhibitor for 6 months at maximum dosing with minimal effect. Which medication is a glutamate receptor antagonist that could provide added benefit for management of her moderate to severe symptoms of Alzheimer disease?

- A. Rivastigmine
- B. Pramipexole
- C. Memantine
- D. Galantamine

Correct answer = C

Question 3

Which medication would benefit a 55-year-old woman recently diagnosed with amyotrophic lateral sclerosis (ALS)?

- A. Cladribine
- B. Galantamine
- C. Riluzole
- D. Prednisone

Correct answer = C



Question 4

A 48-year-old woman with relapsing multiple sclerosis has had intolerable adverse reactions to interferon beta (depression) and dimethyl fumarate (angioedema) and now requires an alternative treatment option. Which medication is most appropriate for this patient?

- A. Edaravone
- B. Monomethyl fumarate
- C. Teriflunomide
- D. Galantamine

Correct answer = C

Question 5

Which agent may cause tremors as an adverse effect and should be used with caution in patients with Parkinson disease, even though it is also indicated for the treatment of dementia associated with Parkinson disease?

- A. Benztropine
- B. Rotigotine
- C. Rivastigmine
- D. Trihexyphenidyl

Correct answer = C

Question 6

A 45-year-old woman presents to the emergency room with debilitating gait dysfunction, numbness across the lower extremities, urinary incontinence, and fatigue. Her past medical history is otherwise negative and she does not take any medications. Imaging and laboratory tests confirm a diagnosis of multiple sclerosis. Which agent could be used to manage this acute exacerbation of multiple sclerosis for the patient?

- A. Siponimod
- B. Methylprednisolone
- C. Cladribine
- D. Ofatumumab

Correct answer = B



Question 7

A 75-year-old man presents to his neurologist for the management of newly diagnosed mild dementia of the Alzheimer type. The physician would like to prescribe an acetylcholinesterase inhibitor. Which agent would be the best option to initiate for treatment?

- A. Glatiramer
- B. Memantine
- C. Galantamine
- D. Selegiline

Correct answer = C

Question 8

A 39-year-old man presents to his neurologist for the management of multiple sclerosis. He has a history of JC virus-induced progressive multifocal leukoencephalopathy (PML) from the use of alemtuzumab and now requires an alternative treatment with no increased risk for the development of PML. Which agent has the lowest risk for PML and would be an effective treatment option for MS?

- A. Fingolimod
- B. Ocrelizumab
- C. Natalizumab
- D. Interferon beta-1a

Correct answer = D

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