

## Question 1

1 / 1 pts

Adherence is improved when a drug can be given once daily. Which of the following oral cholinesterase inhibitors can be given once daily?



**Donepezil (Aricept).**



Pyridostigmine (Mestinon).



Tacrine (Cognex).



Rivastigmine (Exelon).

The dosing schedules of neostigmine and pyridostigmine are similar. Donepezil has a once-daily dosing regimen. Galantamine, rivastigmine, and memantine are all 2 times a day doses, but galantamine is available in extended-release capsules that are dosed once daily. Rivastigmine can also be dosed once daily in the transdermal patch form.

Tacrine requires four daily doses and is most effective on an empty stomach, which results in the doses being adjusted for meals. For patients who are older adults and who have a disease process that includes memory problems, or for patients whose caregivers are also older adults, this complex regimen may present adherence problems

## Question 2

1 / 1 pts

A 65-year-old male has been diagnosed with hypertension and benign prostatic hyperplasia (BPH). Doxazosin (Cardura) was prescribed to treat his hypertension and his BPH symptoms have improved. Why?



It increases urethral resistance.



**It relaxes smooth muscle in the bladder neck.**



It decreases detrusor muscle contractility.



It decreases blood flow to the prostate gland.

The alpha1 antagonists reversibly block the effects of catecholamines at the postsynaptic alpha1 receptors in vascular smooth muscle and in the smooth muscle of the bladder neck and prostate. These drugs are useful in lowering blood pressure as well as relieving outflow obstruction secondary to benign prostatic hypertrophy (BPH). The reduction in symptoms and improved urine flow rates in patients with BPH is related to relaxation of smooth muscle produced by the blockade of the alpha1 receptors, which are densely located in the bladder neck and prostate gland. Blockade of these receptors decreases urethral resistance and may relieve the obstruction and improve urine flow and BPH symptoms. Because there are few alpha1 receptors in the body of the bladder, these drugs are able to reduce bladder outflow obstruction without affecting bladder contractility.

### Question 3

1 / 1 pts

There is a narrow margin between first appearance of adverse reaction to AChE inhibitors and serious toxic effects. Which of the following adverse reactions require immediate action?



Dizziness and headache.



Decreased salivation.



**Fasciculations of voluntary muscles.**



Nausea.

The warning signs of overdose are very similar to common adverse reactions, and there is a narrow margin between the first appearance of adverse reactions and serious toxic effects. Adverse reactions such as excessive GI stimulation, excessive salivation,

miosis, and fasciculations of voluntary muscles should be reported to the health-care provider immediately, and the drug will be temporarily discontinued. Atropine 0.5 to 1 mg IV may be required