



Case presentation

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.An 85-year-old man is being evaluated for gait difficulties. On examination it is found that joint proprioception is absent in his toes. People with impaired position sense will usually fall if they stand with their feet together and do which of the following?

- a. Flex the neck**
- b. Extend their arms in front of them**
- c. Flex the knees**
- d. Turn the head**
- e. Close their eyes**



.In the person with Parkinson's disease, the tremor that is evident when a limb is at rest changes in what way when the patient falls asleep?

- a. It becomes more rapid**
- b. Its amplitude increases**
- c. It generalizes to limbs that were uninvolved when the patient was awake**
- d. It disappears**
- e. It transforms into choreiform movements**



.A 42-year-old woman is being evaluated for gait difficulties. On examination, it is found that her ability to walk along a straight line touching the heel of one foot to the toe of the other is impaired. This finding is most common with which of the following?

- a. Cerebellar dysfunction**
- b. Parietal lobe damage**
- c. Temporal lobe damage**
- d. Ocular motor disturbances**
- e. Dysesthesias in the feet**



A 55-year-old woman is being examined. The clinician notices the presence of fine twitching movements beneath the surface of the tongue and wasting of one side of the tongue. This finding suggests damage to which of the following cranial nerves?

- **a. trigeminal**
- **b. facial**
- **c. glossopharyngeal**
- **d. vagus**
- **e. hypoglossal**



A 15-year-old boy developed a left Bell's palsy over the course of 1 week. He was treated with acyclovir and prednisone. Over the next 3 months he seemed to recover almost fully. However, he has noticed involuntary twitching at the left corner of the mouth each time he tries to blink the left eye. This is most likely caused by which of the following?

- **a. A habit spasm**
- **b. Cerebellar damage producing impaired coordination**
- **c. Aberrant regeneration of the facial nerve**
- **d. Trigeminal neuralgia**
- **e. Focal seizures**



A 56-year-old right-handed woman presents to the emergency room with a sudden-onset, severe, left-sided headache. The pain began when she stood up from her couch while watching TV . A head CT is normal. Which of the following is the most appropriate next step in management of this patient?

- a. Begin intravenous heparin**
- b. Perform a lumbar puncture**
- c. Obtain a brain MRI**
- d. Obtain a cerebral angiogram**
- e. Give the patient a prescription for zolmitriptan and send her home**



Occlusion of which of the following arteries typically produces Wallenberg (lateral medullary) syndrome?

- **a. Basilar artery**
- **b. Vertebral artery**
- **c. Superior cerebellar artery**
- **d. Anterior inferior cerebellar artery (AICA)**
- **e. Anterior spinal artery**



A 72-year-old woman has the abrupt onset of right face and hand weakness, disturbed speech production, and a right homonymous hemianopsia. This is most likely attributable to occlusion of which of the following arteries?

- **a. Left middle cerebral artery**
- **b. Left anterior cerebral artery**
- **c. Left vertebrobasilar artery**
- **d. Right anterior choroidal artery**
- **e. Left posterior inferior cerebellar artery (PICA)**



A 23-year-old woman has had 1 week of worsening facial pain. She describes it as an intense shooting pain that comes and goes. It is present only on her right face. Which of the following is most likely to be this patient's underlying problem?

- **a. Multiple sclerosis**
- **b. Tolosa-Hunt syndrome**
- **c. Migraine**
- **d. Anterior communicating artery aneurysm**
- **e. Falx meningioma**



A appropriate long-term management of a patient with 14 migraine headaches per month might include a prescription for daily use of which of the following medications?

- **a. Metoclopramide hydrochloride**
- **b. Sumatriptan**
- **c. Oral contraceptives**
- **d. Amitriptyline hydrochloride**
- **e. Ergotamine tartrate**