

16

Pupillary responses can signal potentially serious problems

- 1. The consensual light reflex occurs because:
 - a. The optic tract carries pupillary fibers from both eyes.
 - b. The tectotegmental tract carries pupillary fibers from both eyes.
 - c. The optic nerve carries pupillary fibers from both eyes.
 - d. Both A and B

2. The parasympathetic pupillary fibers are physically closely associated with which cranial nerve?

- a. CN II b. CN III
- c. CN IV
- d. CN V
- d. CN V
- 3. Which eyelid muscle(s) innervation closely follows the sympathetic pupillary pathway?
 - a. Levator
 - b. Orbicularis oculi c. Mueller
 - d. Both A and C
 - u. Dulli A ali
- 4. What makes light-near dissociation possible?
 - a. The pretectal nucleusb. The afferent pupillary near response
 - pathway's bypassing of the pretectal nucleus c. The dorsal midbrain
 - d. Higher cortical centers in the striate
- cortex
 5. In what pathologic situation will the near
- response be abnormal with a normal pupillary light reflex? a. Tertiary syphilis
 - b. Hornor's syprillis
 - b. Horner's syndrome
 - c. There are no situations where this would apply.
 - d. Pupil-sparing CN III palsy

6. When does a fixed pupil indicate an afferent pupillary defect?

- a. Always
- b. Never
- c. If the other eye dilates when the light is shown into the fixed pupil
- d. If the other eye constricts when the light is shown into the fixed pupil
- 7. Physiologic anisocoria: a. Shows 0.4 mm to 1.0 mm difference
 - between pupil sizes b. Shows 20% difference between pupil sizes
 - c. Affects 0.4% of the population
 - d. None of the above

Efferent parasympathetic pupillary defects will cause an abnormally _____ pupil, and anisocoria will be greater in the

- a. Miotic, dark
- b. Dilated, dark
- c. Miotic, light
- d. Dilated, light

Efferent sympathetic pupillary defects will cause an abnormally _____ pupil, and anisocoria will be greater in the

- a. Miotic, dark b. Dilated, dark
- c. Miotic, light
- d. Dilated, light
- 10. In a complete pupil-involving CN III palsy, the pupil will appear:
 - a. Mid-dilated sluggish b. Miotic and minimally reactive
 - c. Miotic and sluggish
 - d. Dilated and minimally reactive
- 11. In pupil-involving CN III palsies, the unaffected eye's consensual response will be normal because:

- a. The CN III palsy affects the efferent, not afferent pathway.
- b. It compensates for the lack of pupillary reactivity in the affected eye.
- c. The fibers controlling the consensual pupillary response are deeper in the cranial nerve.
- d. The palsy is probably compressive rather than ischemic.

12. Emergent imaging is recommended in: a. All CN III palsies

- b. Partial CN III palsies
- c. Pupil-involving CN III palsies
- d. Pupil-sparing CN III palsies in patients with vasculopathic risk factors
- 13. In pupil-sparing CN III palsies, imaging

should be ordered:

- b. If there is no improvement within 3 months
- c. If the pupil does not become involved
- d. If there is no improvement within 6 months

14. Adie's tonic pupil typically exhibits: a. Abnormal miosis

- b. A sluggish near response
- c. A brisk light response
- d. Normal accommodative function

15. All of the following are true regarding a confirmatory test for Adie's pupil with diluted pilocarpine except:

- a. A positive test will exhibit pupillary constriction in the affected eve(s).
- b. A positive test leads to constriction in the affected eye due to prolonged
- denervation hypersensitivity. c. A positive test will exhibit no pupillary
- constriction in the unaffected eye. d. A positive test will cause the affected
- pupil to dilate.

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16. Which of the following is false in regard to Horner's syndrome?

a. The classic clinical triad is ipsilateral ptosis, miosis and facial anhydrosis.

- b. Anhydrosis will only occur if the postganglionic neuron is affected.
- c. The affected pupil retains normal light and near responses.
- d. The affected pupil will exhibit a dilation lag in the dark due to passive iris sphincter release.
- 17. What topical ophthalmic test is used to differentiate a first- from second-order neuron lesion in Horner's syndrome? a. Cocaine
 - b. Apraclonidine
 - c. Hydroxyamphetamine
 - d. No topical ophthalmic drop is available to differentiate

18. A positive apraclonidine test would show:

- a. Reversal of anisocoria
- b. Constriction of the Horner's affected pupil
- c. Dilation of the unaffected pupil
- d. Constriction of the unaffected pupil

19. An Argyll Robertson pupil typically exhibits all of the following except:

- a. Light-near dissociation
- b. Miosis
- c. Irregular shape
- d. Sluggish near response
- 20. If a patient exhibits anisocoria that is greater in the light, and the larger pupil shows a poor light response, what would be an appropriate test to administer? a. Cocaine

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- b. Apraclonidine
- c. Pilocarpine

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by Sara L. Weidmayer, OD, FAAO, and Alec D. Bower, DO COPE Course ID: 43725-NO

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