Case NiClqyQerUIUpVHTGO88 — Questions

Case Details

Demographics 8-year-old Asian female; student

Chief complaint double vision

History of present illness

Secondary complaints/symptoms none

Patient ocular history 1st eye exam

Family ocular history mother: "lazy eye" and has worn glasses since age 5, maternal grandmother: glaucoma

Patient medical history allergies; normal birth history and developmental milestones

Medications taken by patient Claritin®

Patient allergy history grass and pollen, NKDA

Family medical history father: cardiovascular disease, type II diabetes

Review of systems

Mental status

Clinical findings

Uncorrected visual acuity

Pupils: PERRL, negative APD **EOMs:** full, no restrictions OU

Cover test: distance: 6 esophoria, near: 8 esophoria **Confrontation fields:** full to finger counting OD, OS

Oculomotor system
Subjective refraction
Accommodative system

Vergence system Sensory system

DEM test (percentile rank): horizontal: 50%, vertical: 50%, ratio: 50%, errors: 99%

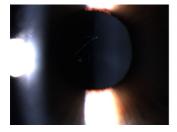
Slit lamp

IOPs: OD: 16 mmHg, OS: 16 mmHg @ 4:10 pm by iCare tonometer

Fundus OD Fundus OS

- · Character/signs/symptoms: horizontal diplopia at both distance and near
- Location: OU
- · Severity: moderate
- · Nature of onset: gradual
- Duration: 6 months
- Frequency: intermittent
- Exacerbations/remissions: worse at the end of the day or when tired; better if she rests her eyes
- Relationship to activity or function: mostly notices when watching television and viewing the board in class, or reading for prolonged periods of time
- Accompanying signs/symptoms: headaches and eyestrain at the end of the day; is easily distracted when doing schoolwork
- Constitutional/general health: denies
- Ear/nose/throat: denies
- Cardiovascular: denies
- · Pulmonary: denies
- Dermatological: denies
- Gastrointestinal: denies
- Genitourinary: denies
- Musculoskeletal: denies
- Neuropsychiatric: denies
- Endocrine: denies
- · Hematologic: denies
- Immunologic: denies
- · Orientation: oriented to time, place, and person
- Mood: appropriate
- Affect: appropriate
- OD: VA distance: 20/20
- OS: VA distance: 20/20
- · Pursuits: normal
- Saccades: normal
- Fixations: normal

- OD: plano DS; VA distance: 20/20, VA near: 20/20 @ 40 cm
- OS: plano DS; VA distance: 20/20, VA near: 20/20 @ 40 cm
- Amplitudes: OD: 14 D, OS: 14 D, OU: 13 D
- Facility (+/- 2.00): OD: 11 cycles/minute, OS: 12 cycles/minute, OU: 3 cycles/minute (difficulty clearing minus-powered lenses)
- NRA/PRA: +2.75 / -1.00
- Monocular estimation method (MEM): OD: +1.00, OS: +1.25
- NPC: 2 cm
- Vergences: NFV @ distance: x / 6 / 2, NFV @ near: x / 12 / 6, PFV @ distance: x / 20 / 15, PFV @ near: 18 / 32 / 24
- Facility: 8 base-out/8 base-in: 2 cycles/minute (difficulty fusing base-in prism)
- Worth 4 dot: far: no suppression, near: no suppression
- Stereopsis: far: 120", near: 80'
- lids/lashes/adnexa: unremarkable OD, OS
- conjunctiva: normal OD, OS
- cornea: clear OD, OS
- anterior chamber: deep and quiet OD, OS
- iris: see image 1 OD, normal OS
- lens: clear OD, OSvitreous: clear OD, OS
- C/D: 0.35 H/0.30 V
- · macula: normal
- · posterior pole: normal
- periphery: unremarkable
- C/D: see image 1 OD, normal OS
- · macula: normal
- posterior pole: normal
- · periphery: unremarkable



Question 1/5

Based on the patient's chief concern and examination findings, what is the MOST likely cause of her symptoms?

- A) Accommodative infacility
- B) Convergence excess
- C) Basic exophoria
- D) Accommodative insufficiency
- E) Basic esophoria
- F) Divergence insufficiency

Question 2 / 5

What type of AC/A ratio is expected for this patient?

- A) High AC/A ratio
- B) Average AC/A ratio
- C) The AC/A ratio is not relevant to this case
- D) Low AC/A ratio

Question 3 / 5

Which 3 of the following tests directly examine the accommodative system? (Select 3)

- A) Positive fusional vergence ranges
- B) Stereopsis
- C) Monocular amplitudes
- D) Monocular facility testing with +/- 2.00 D lenses
- E) Monocular estimation method
- F) Second-degree fusion

Question 4 / 5

Which of the following represents an example of shallow suppression of the right eye while performing the red lens test (red lens over the right eye)?

- A) The patient reports seeing two lights, one red and one white, with the white light being to the left of the red light
- B) The patient reports seeing one white light in moderate illumination and one white light in dim illumination
- C) The patient reports seeing one red light in moderate illumination and one pinkish light in dim illumination
- D) The patient reports seeing two lights, one red and one white, with the white light being to the right of the red light
- E) The patient reports seeing one red light in moderate illumination and one red light in dim illumination
- F) The patient reports seeing one pinkish light in moderate illumination and one pinkish light in dim illumination
- G) The patient reports seeing one white light in moderate illumination and one pinkish light in dim illumination

Question 5 / 5

Which of the following represents the MOST likely cause of the patient's right eye anterior segment findings?

- A) Posterior polymorphous dystrophy
- B) Epicapsular stars
- C) Persistent pupillary membrane
- D) Mittendorf dot
- E) Lattice dystrophy