

Case qXCORFMouXfCEGjGjA98 — Questions

Case Details

Demographics 38-year-old Asian male; computer engineer

Chief complaint troubles with new glasses

History of present illness

Secondary complaints/symptoms none

Patient ocular history last eye exam 1 month ago; wears single vision distance glasses

Family ocular history mother: LASIK surgery

Patient medical history unremarkable

Medications taken by patient none

Patient allergy history NKDA

Family medical history mother: hypothyroidism

Review of systems

Mental status

Clinical findings

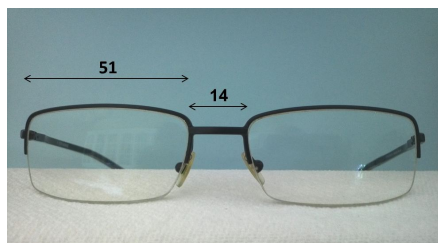
Habitual spectacle Rx material: crown glass; A measurement: 52 mm; DBL: 14 mm

New spectacle Rx material: polycarbonate; see image 1 (frame is noted to be properly aligned and adjusted)

Subjective refraction

Slit lamp

- Character/signs/symptoms: sees colored fringes around lights with new glasses
- Location: OD, OS
- Severity: moderate
- Nature of onset: noticed when he picked up his new glasses
- Duration: 2 weeks
- Frequency: constant
- Exacerbations/remissions: worse at night; symptoms are not apparent with his old glasses
- Relationship to activity or function: none
- Accompanying signs/symptoms: none
- 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: -4.75 DS; VA distance: 20/20
- OS: -4.75 -0.25 x 178; VA distance: 20/20
- OD: -5.00 DS; VA distance: 20/20
- OS: -5.00 -0.25 x 178; VA distance: 20/20
- OD: -5.00 DS; VA distance: 20/20
- OS: -5.00 -0.25 x 180; VA distance: 20/20
- lids/lashes/adnexa: unremarkable OD, OS
- conjunctiva: normal OD, OS
- cornea: clear OD, OS
- anterior chamber: deep and quiet OD, OS
- iris: normal OD, OS
- lens: clear OD, OS
- vitreous: clear OD, OS



Question 1 / 5

Which of the following is the MOST likely cause of the “colored fringes” reported by the patient?

- A) A change in the material used to make his new lenses
- B) The patient is not looking through the optical centers of the lenses
- C) The patient has not yet adapted to the new prescription
- D) The new glasses are causing unwanted prism due to misalignment

Question 2 / 5

The patient states that he requires high-impact safety glasses for work. According to the American National Standards Institute (ANSI), what is the minimum center thickness allowable for high-impact prescription safety lenses made from polycarbonate?

- A) 4.0 mm
- B) 1.0 mm
- C) 2.0 mm
- D) 3.0 mm
- E) There is no minimum thickness

Question 3 / 5

The patient brings in a frame and asks you if it may be used for his prescription safety glasses. According to the American National Standards Institute (ANSI), what marking must be placed on the frame in order to identify that it has met the high-velocity impact safety standards?

- A) Z87.1
- B) Z87-2
- C) Z87+
- D) Z87-2+
- E) Z87.1+
- F) Z87

Question 4 / 5

According to the Food and Drug Administration (FDA), all DRESS lenses must be able to pass the drop-ball test in order to evaluate impact resistance. What are the requirements of this test?

- A) A 1 inch steel ball weighing 1 oz dropped from a distance of 40 inches
- B) A 0.5 inch steel ball weighing 0.1 oz dropped from a distance of 15 inches
- C) A 5/8 inch steel ball weighing 0.56 oz dropped from a distance of 50 inches
- D) A 3/8 inch steel ball weighing 0.8 oz dropped from a distance of 60 inches

Question 5 / 5

The patient also states that he occasionally requires side shields for his glasses during performance of his work duties. Which of the following maintains compliance with ANSI?

- A) Attachment of high-velocity-compliant side shields to any basic frame
- B) The side shields are able to withstand an impact of 150 feet per second at three points
- C) The side shields of the safety frame must be permanent
- D) The side shields are to be made of metal to ensure durability
- E) The side shields are able to withstand a 3/8 inch steel ball weighing 0.8 oz dropped from a distance of 60 inches
- F) The side shields have a minimum thickness of 3.0 mm