

Case PkPWNTFFPyYprsu10754 — Questions

Case Details

Demographics 34-year-old Asian female; housekeeper

Chief complaint eye pain

History of present illness

Secondary complaints/symptoms none

Patient ocular history last eye exam 5 years ago; unremarkable

Family ocular history unremarkable

Patient medical history history of gastrointestinal bleeding

Medications taken by patient Maalox®, multivitamins

Patient allergy history penicillin

Family medical history father: cardiovascular disease

Review of systems

Mental status

Clinical findings

Uncorrected visual acuity

Slit lamp

IOPs: OD:13 mmHg, OS: 12 mmHg @ 3:35 pm by iCare tonometer

Fundus OD

Fundus OS

- Character/signs/symptoms: eye is painful, watery, and sensitive to light
- Location: OD
- Severity: severe
- Nature of onset: acute
- Duration: 5 minutes (patient ran over from a house down the street)
- Frequency: constant
- Exacerbations/remissions: better if she keeps her eyes closed, worse with blinking
- Relationship to activity or function: a bottle of vinegar dropped and the contents splashed into her eye
- Accompanying signs/symptoms: blurred vision
- 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: 20/30
- OS: VA distance: 20/20
- lids/lashes/adnexa: unremarkable OD, OS
- conjunctiva: see image 1 OD, normal OS
- cornea: see image 1 OD, clear OS
- anterior chamber: deep and quiet OD, OS
- iris: normal OD, OS
- lens: clear OD, OS
- vitreous: clear OD, OS
- C/D: 0.25 H/ 0.25 V
- macula: normal
- posterior pole: normal
- periphery: unremarkable
- C/D: 0.25 H/ 0.25 V
- macula: normal
- posterior pole: normal
- periphery: unremarkable



Question 1 / 5

Which of the following BEST describes the solution that caused the corneal chemical burn in this patient?

- A) Acidic solution with a pH > 10
- B) Irritant with a neutral pH
- C) Alkaline solution with a pH < 4
- D) Alkaline solution with a pH > 10
- E) Acidic solution with a pH < 4

Question 2 / 5

Which of the following is TRUE regarding the pathophysiology of ocular chemical burns?

- A) Alkaline burns are typically confined to superficial tissues
- B) Acidic burns occur more frequently than alkali burns
- C) Acids tend to bind with tissue proteins and coagulate the surface epithelium
- D) Acidic burns may continue to penetrate the cornea long after the initial trauma

Question 3 / 5

Which of the following best describes the FIRST action that should be taken when a patient with an ocular chemical burn presents to your office?

- A) Copious irrigation with saline solution
- B) Copious irrigation with a weak basic solution to neutralize the acidic chemical
- C) Copious irrigation with a weak acidic solution to neutralize the alkaline chemical
- D) Detailed case history
- E) Careful examination of the corneas with slit-lamp biomicroscope

Question 4 / 5

Which of the following topical medications is NOT indicated in the treatment of patients suffering from a corneal chemical burn?

- A) Scopolamine
- B) Pilocarpine
- C) Prednisolone acetate
- D) Ketorolac
- E) Moxifloxacin

Question 5 / 5

Which of the following oral pain management medications should be used with caution in this patient?

- A) Advil®
- B) Aleve®
- C) Tylenol®
- D) Aspirin®
- E) Motrin®