Eye Ward

TAIMOOR ASGHAR

Credits for helping to solve Stations:

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Table of Contents

Pupillary Reflex:	1
Visual Acuity	2
Visual field	2
Extraocular muscle Movements:	3
Hirschberg test	3
Regurgitation test	3
Medicines:	
Eye ward Charts	9
Eye OSPE Stations	19
Ptosis (Ward)	68
Cataract	68

Pupillary Reflex:

- i) Light reflex
 - ⇒ Use torch to adjust light on pupil, laterally to medial.
- ii) Relative afferent pupillary defect:
 - ⇒ Direct light beam on one eye than other eye
 - ⇒ It use to check pupillary constriction
- iii) Accommodation reflex.

Visual Acuity

Instructions for test:

- ⇒ No glasses

Test:

1. Snellen's chart test:

- i) Ask the patient to read every word on Snellen's chart
- ii) If the patient is unable to see the top letter, he is asked to count the fingers if he can count the finger than the visual acuity= 1/60

2. Pinhole test:

In order to find out, if there is refractive error or some other problem.

3. Counting fingers:

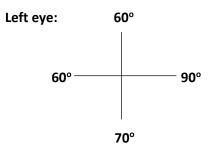
- i) If he can count the finger at 50cm than the visual acuity = counting fingers at 50cm
- ii) If he cannot count the fingers, examiners should move his fingers close to the face if her appreciate the movements than the visual acuity = hand movements

4. Light perception:

- i) In the dark room, he is asked to say when the light is on the or when it is off, if he tells correctly, visual acuity = perception of light **(PL)**
- ii) If he tells the correct direction of light where the light coming from then the visual acuity = perception of light (PL) and projection of light is Good.
- iii) If he fails to see the light then he is blind, visual acuity = no perception of light (PL)

Visual field

Normal field of vision:



Visual field tests:

Instructions for test:

- ⇒ Each eye test separately
- ⇒ Ask the patient to fix his eye on examiners nose
- ⇒ One Eye close of patient and opposite eye closed of doctor.

1. Confrontation test:

i) Move fingers from 4 quadrant and then ask patient to tell when he is able to watch

2. Cross test:

i) Move fingers from 4 quadrant diagonally

Extraocular muscle Movements:

- 1. Binocular
 - i) H-test:
 - i. **Dextroversion** is movement of both eyes to the right
 - ii. **Dextroversion elevation** is movement of both eyes to the right upward
 - iii. **Dextroversion depression** is movement of both eyes to the right downward
 - iv. **Levoversion** is movement of both eyes to the left
 - v. **Levoversion elevation** is movement of both eyes to the left upward
 - vi. **Levoversion depression** is movement of both eyes to the left downward
 - ii) Convergence
 - iii) Divergence
 - iv) Different color pen test
- 2. Uniocular
 - i) Plus test:
 - **⇒** Instructions for test:
 - No glasses
 - ♥ Each eye test separately
 - ♥ Focus eye on the finger
 - i. Elevation
 - ii. Depression
 - iii. Abduction finger move outward
 - iv. Adduction finger move inward

Hirschberg test

This test is used for the squint, this test is used for type, degree and angle.

Point the light on the eye at bridge of nose, than see exotropia, Esotropia, Hypertropia and Hypotropia

- ⇒ **Exotropia** → pupil move laterally
- ⇒ **Esotropia** → pupil move medially
- ⇒ **Hypertropia** → pupil move upward
- ⇒ **Hypotropia** → pupil move downward

Types:

- i) Latent squint (Cover and uncover test)
- ii) Manifest squint (Hirschberg test)

Regurgitation test

- i) Look upward
- ii) Use Little finger to press, if liquid come out than the regurgitation test is positive

Medicines:

1.



Ocumox

Moxifloxacin uses to treat bacterial conjunctivitis (pink eye)

Adverse Effects:

- ♥ Dry eyes
- ♥ Watery eyes
- ♥ Eye pain
- ♥ Blurred vision
- ♥ Mild itching
- ♥ Redness

2.



Blephamide:

Uses:

- ♥ Treat bacterial infections
- ♥ Treat swelling in the eye

Adverse effects:

- ♥ Eye irritation
- ♦ Allergic reactions
- ♥ Increased intra-ocular pressure
- **♥** Cataracts
- ♥ Delayed wound healing
- ♥ Dilated pupils
- ♥ Farsightedness
- ♥ Drooping eyelids



Eyemox-D

Uses:

♥ Bacterial infectious treatment

Adverse effects:

- ♥ Pain
- ♥ Dryness
- ♥ Redness
- ♥ Itchiness

Duration:

♦ Once a day for 5 to 21 days

4.



Nebra

Uses:

Bacterial eye infections treatment

Adverse effects:

- ♥ Stinging
- ♥ Irritation
- ♥ Itching
- ♥ Tearing
- ♥ Redness
- ♥ Discomfort

Duration:

\$\\$\\$ 30 minutes to few hours



OLOPAT-DS

Uses:

- ♥ Itching
- ♥ Watering
- ♥ Redness

Adverse effects:

- ♥ Headache
- ♥ Blurred vision
- ♥ Eye burning
- ♥ Stinging
- ♥ Redness
- ♥ Dryness of eye

6.



Rocip

Uses:

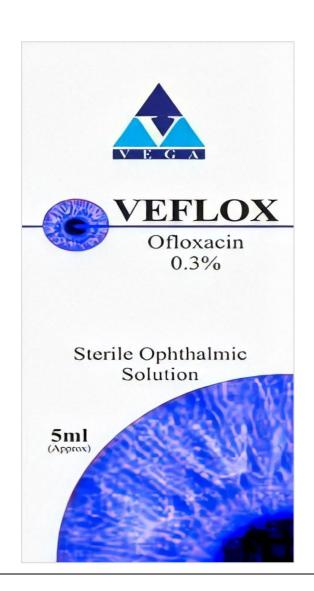
- Bacterial eye infections
- ♥ Conjunctivitis

Adverse effects:

- ♥ Eye burning
- ♥ Itching
- ♥ Tearing
- ♥ Redness
- ♥ Discomfort
- ♥ Eyelid crusting
- ♥ Foreign body sensation

Duration:

♦ 30 minutes to 4 hours



Veflox

Uses:

- ♥ Bacterial eye infections
- ♥ Conjunctivitis (pink eye)
- Ulcers of the cornea

Adverse effects:

- ♥ Stinging
- ♥ Itching
- ♥ Tearing
- ♥ Redness
- **♥** Discomfort
- ♥ Dizziness
- ♥ Eye pain
- ♥ Facial swelling
- Sensitivity to light

Duration:

♦ 30 minutes to 6 hours

8.



Opta Atropine

Uses:

- ⇒ It is used to widen the pupil before an eye surgery.
- ⇒ It is used to treat eye swelling.
- ⇒ It is used to treat lazy eye (amblyopia).

Adverse effects:

- ♥ Flushing.
- ♥ Restlessness.
- ♥ Feeling irritable.
- ♥ Dry mouth.
- ♥ Dry skin
- ♦ Change in eyesight
- ♦ eye pain



Mydriacyl

Duration:

⇒ 12-20 minutes

Use:

- ⇒ Mydiratic cycloplegic

Adverse effects:

- ⇒ Photophobia
- ⇒ Eye stinging
- □ Dry mouth
- ⇒ Temporary blurred vision

10.



Alcaine

Duration:

⇒ 15 minutes → short acting

Use:

Adverse effects:

- ⇒ Hypertension
- ⇒ Seizures
- ⇒ Allergic reactions
- ⇒ Cardiac arrhythmias

Half-life:

⇒ 1-2 minutes

11.



Cyclopen

Duration:

⇒ 2-12 Hours

Use:

- ⇒ Mydriatic
- ⇒ Anticholinergic
- ⇒ Antimuscranic
- ⇒ Swelled eye examination
- ⇒ Amblyopia examination

Adverse effects:

- ⇒ Blurred vision
- ⇒ Eye pain
- ⇒ Dry mouth
- ⇒ Photophobia
- ⇒ Decrease lacrimation

12.



Ethifrin

Use:

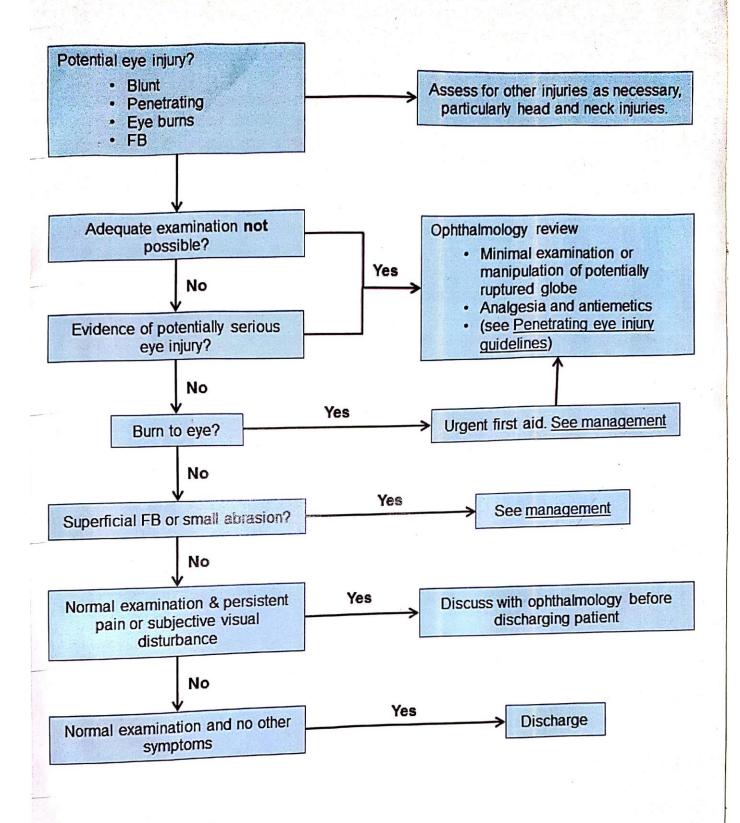
- ⇒ Hypotension

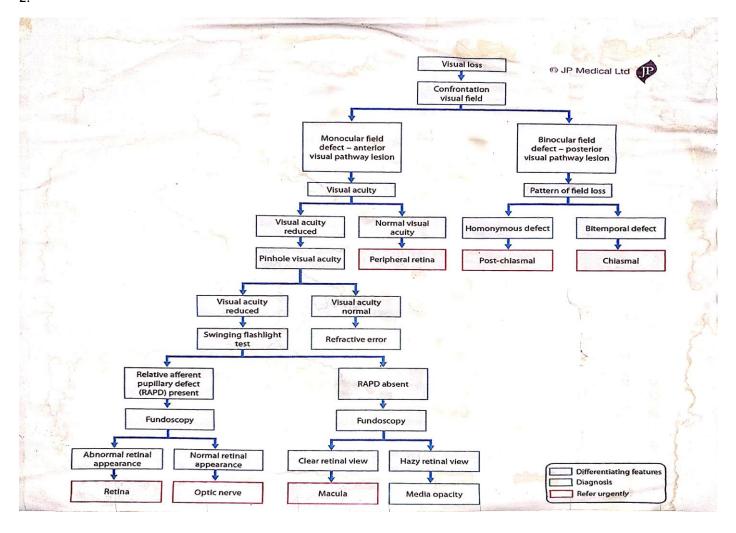
Adverse effects:

- ⇒ Bradycardia
- ⇒ Vomiting
- ⇒ Severe hypertension

Contraindications:

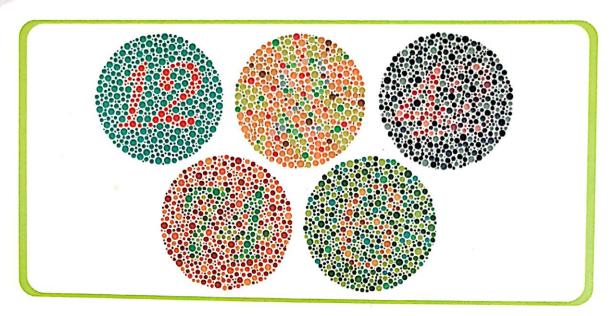
- ⇒ Angina
- ⇒ Hyperthyroidism
- ⇒ Hypertension
- \Rightarrow Myocardial infraction





Color Vision Test

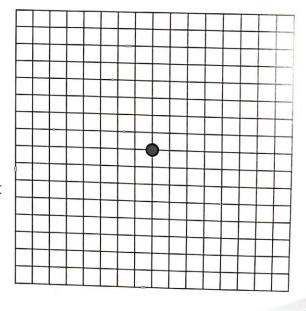




The Amsler Grid

A Self Test for Macular Degeneration

- Hold the grid on a comfortable reading distance (12-15 inches) from your eyes.
 Make sure you are in good light.
 If you have reading glasses wear them.
- 2. Cover one eye.
- 3. Look directly at the dot in the center.
- Note whether all lines of the grid are straight or if any areas are black distorted or blurred.
- 5. Repeat the exercise with the other eye.
- If any area of the grid looks wavy, blurred or dark, contact your Ophthalmologist immediately, for further testing.



N. V. CHART



No. 18

زندگی تب' بہتر'' ہوتی ہے جب آپ خوش ہوتے ہیں کیکن زندگی تب' بہترین' ہوتی ہے جب آپ کی وجہ سے کوئی دوسراخوش ہوتا ہے۔

No. 14 کسی کاعیب تلاش کرنے والے کی مثال اُس مکھی کی جیسی ہے جو ساراخوب سُورت جسم چھوڑ کرصر ف زخم پر ہی بیٹھتی ہے۔

> **No. 12** بڑاانسان و ہے جس کی مخفل میس کوئی خود کو چھوٹانہ سمجھے۔

No. 10 ځک ایک ایسی بیماری ہے جوانسان کاسکون ختر کردیتی ہے۔

No. 8 یاد دکھیے ابیماریوں کے بلاج کے لیے ڈاکٹر ماہب ی بہتر دوا کاانتخاب کر میکنے ہیں بڑو دیے کئی دواہر گزاشعمال وکرس

> No. 6 مبارک ہو ۔ یہ طربۂ ھاکر آپ نے پیچاہت کر دیا ہے کہ آپ کی نظر ضا کے نشل سے بہت اوجی ہے۔

No.18 3mm Ema wea mea wae

No. 14 меэ шэм ешэ эмш эшэ шме

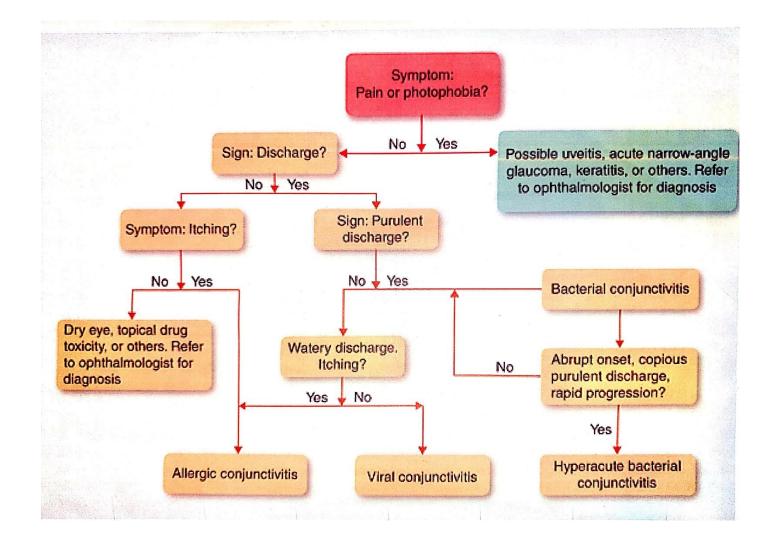
No. 12 Ешээмш меэ шэм эшэ шме

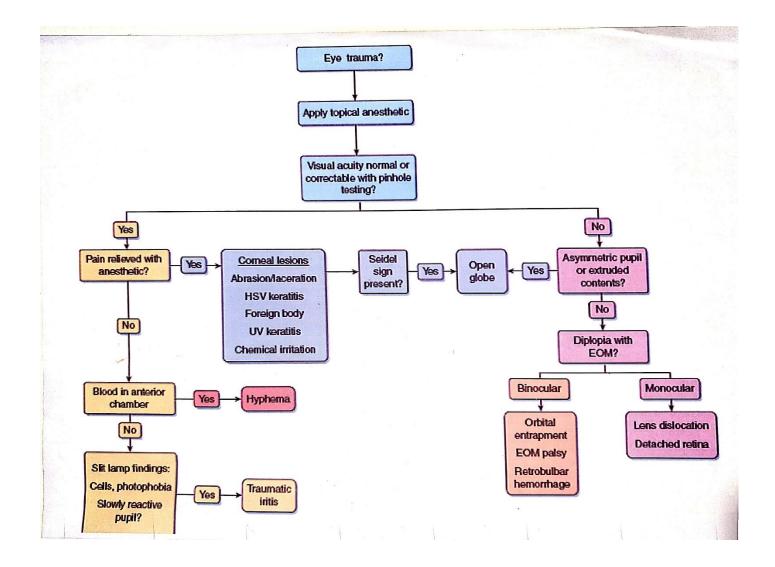
> No. 10 Ewa amu mea wana ewa

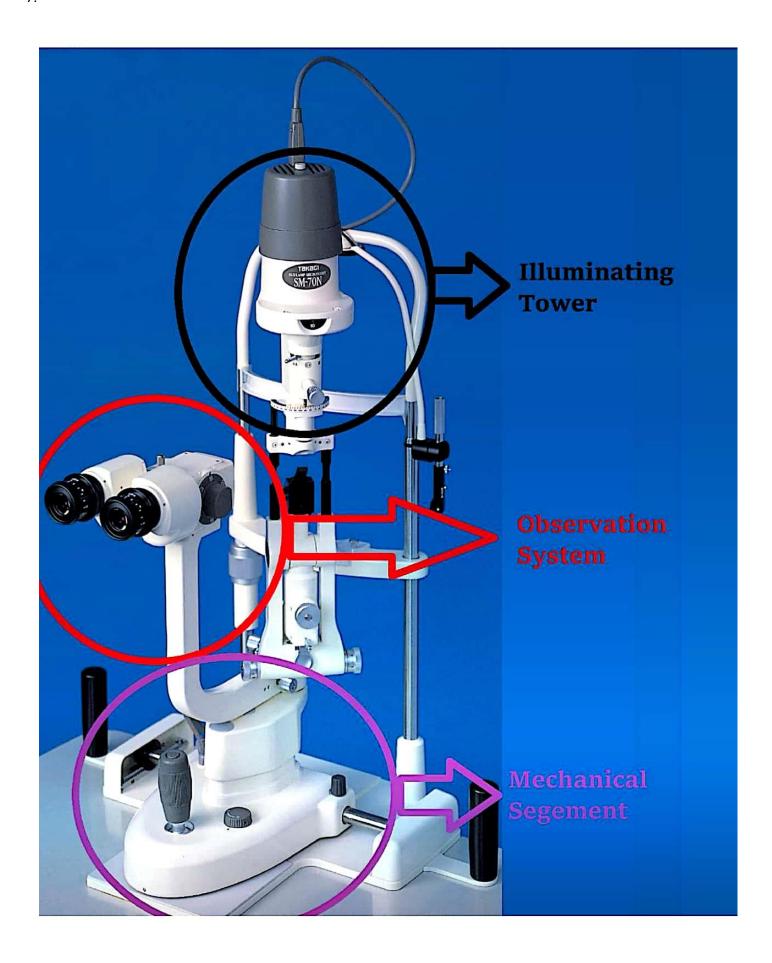
No.8

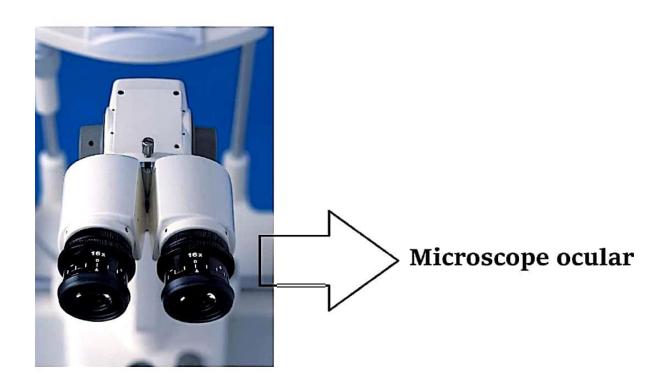
Wo.8

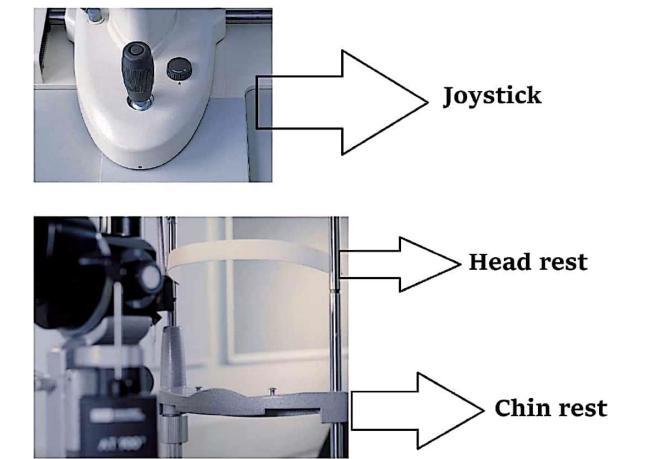
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Knob to adjust light intensity

Magnification Knob

Eye OSPE Stations

Station # 1

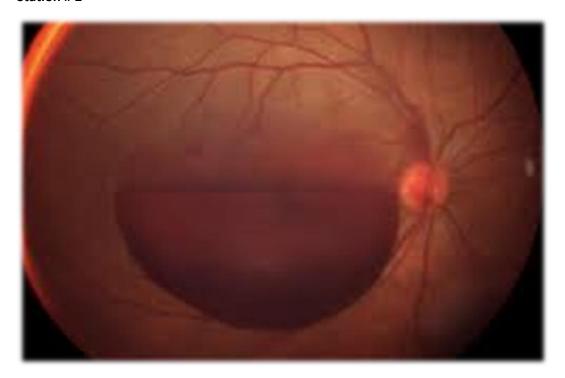


This young boy presented in eye OPD with upper lid swelling well away from lid margin.

- 1. What is your diagnosis?
 - Clazion
- 2. What other treatment options are available apart from surgical option?
 - Conservative:
 - ♥ Compression
 - ♥ Topical antibiotics
 - ♥ Topical anti inflammatory
 - Medical:
 - ♥ Corticosteroid injection
 - ⇔ Systemic antibiotics
- 3. What type of incision would you prefer and why?

 Vertical incision because of glands and vertical incision heals quickly

Station # 2



A 60 year old man presented in the eye OPD with sudden loss of vision with above fundus picture

1. What is your diagnosis?

Preretinal or subhyloid hemmorage

2. What is the pathogenesis of this condition?

Pathogenesis: This occur b/w retina and vitreous. The blood remains fluid red in colour and moves with gravity forming boat shaped figure in macular area due to peculiar ring shaped attachment of vitreous around macula

3. Name the commonest systemic diseases responsible for this condition?

- Malignant HT
- ₩ D.M
- Sickle cell anemia
- Purpura

4. How will you manage this patient?

Investigation

B-scan ultrasonography

Treatment

- ♥ Bed rest with elevation of head
- Photocoagulation
- ♥ Vitrectomy



This young girl presented in eye OPD with drooping of her left upper eyelid.

1. What is your diagnosis?

Ptosis

- 2. How will you classify this disease?
 - - ♥ Simple
 - ♥ Complicated
 - ⇒ Acquired
- ♥ Neurogenic
- ♥ Myogenic
- ♥ mechanical
- 3. Enumerate different measurements required to evaluate the disease?

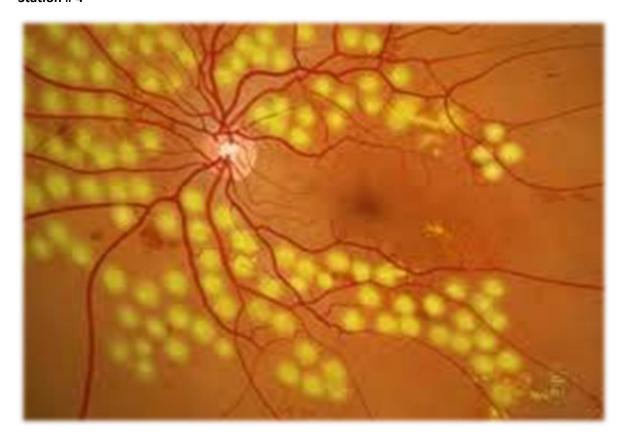
Mild: 2mm

Moderate: 3mm

Severe: 4mm or more

- 4. Name different surgical options to treat this condition.
 - ⇒ Resection of levator muscle

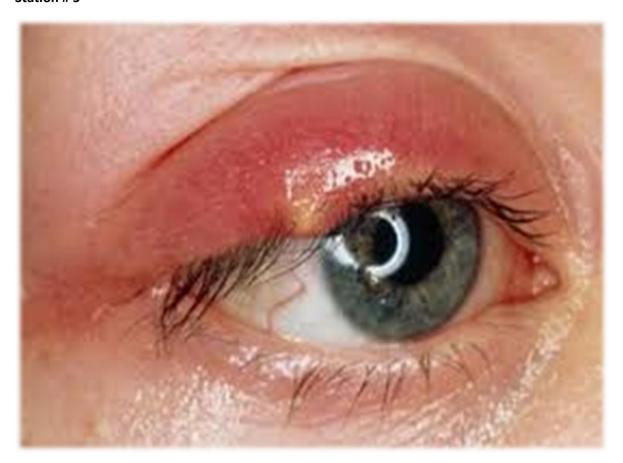
 - ⇒ Frontalis suspension



This 55 years old female known diabetic for last 15 years was treated for his retinal problem.

- 1. What is this treatment known as?
 - Proliferative diabetic retinopathy
- 2. Name the retinal condition that led to this treatment?
 - **Diabetes Mellitus**
- 3. What other treatment modalities are available for this retinal disorder?
 - PRP (pan-retinal photocoagulation)
 - ♦ Anti- VEGF agents
 - ♥ Steroids
 - ♥ Vitrectomy with photocoagulation
- 4. What is pathogenesis of this condition?
 - Microangiopathy affecting capillaries (damage to endothelial cells and basement membrane thick-end)
 - Microvascular occlusion with microaneurysm
 - Extensive closure lead to ischemia of retina
 - Causing retinal hypoxia

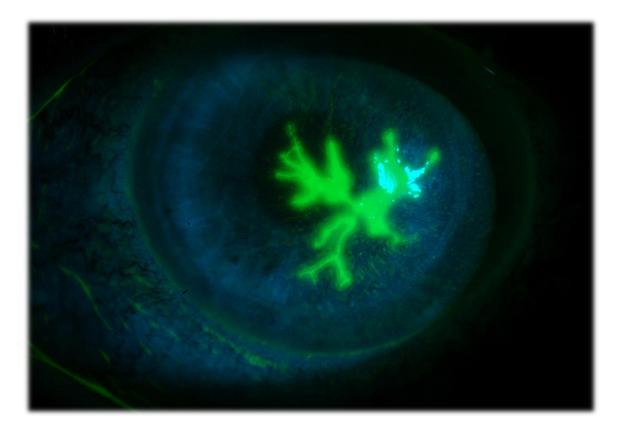
Station #5



This patient has painful swelling over lid margin for last 2 days.

- **1. What is your diagnosis?** Stye
- 2. How will you define this condition?

 Infection of the gland in the eyelid that causes the red bump also called hordeolum
- **3. Name the causative organism** Staphylococcus aureus
- 4. How will you manage this patient?
 - ♥ Hot compresses
 - ♦ Antibiotics: doxycycline



A 45 years old male presented in the OPD with a lesion on his right cornea. Flouresein staining is +ve

1. What is this typical lesion known as? Acute epithelial keratitis

2. What is your diagnosis?

Dendritic ulcer

3. Name risk factors responsible for reactivation of the disease.

Herpes Simplex virus 1, Herpes Simplex virus 2

4. How will you manage this patient?

Antiviral dugs

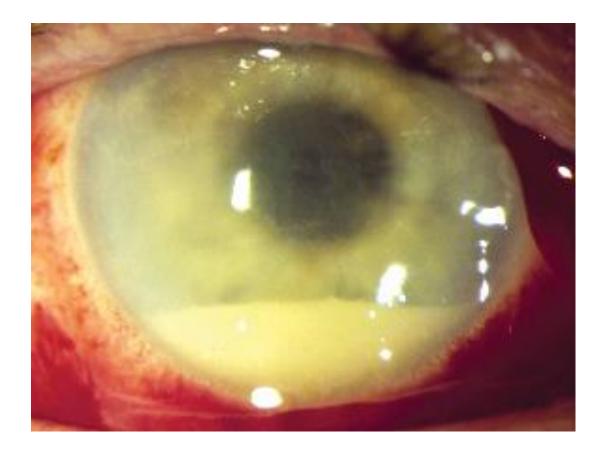
- ♦ Acycloguasine
- ♦ Acyclovir
- ♥ Topical antibiotic
- ♥ Cycloplegics

Station #7



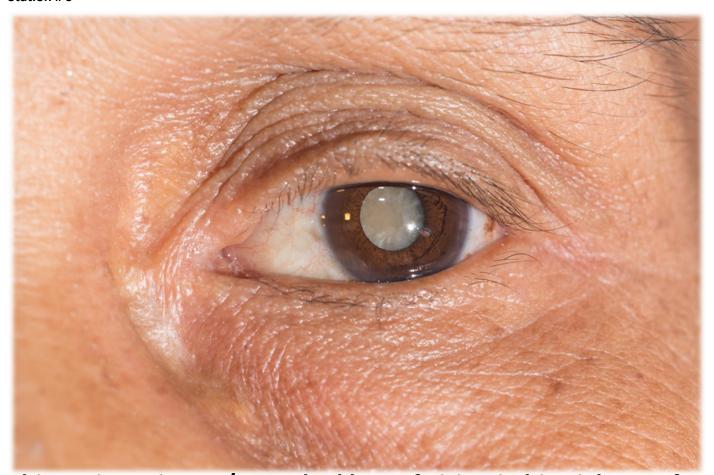
This patient has H/O trauma to cornea of his left eye

- **1. What is your diagnosis?** Corneal ulcer
- 2. What is the name of stain used for corneal staining? Fluorescence stain
- 3. How will you manage this case?



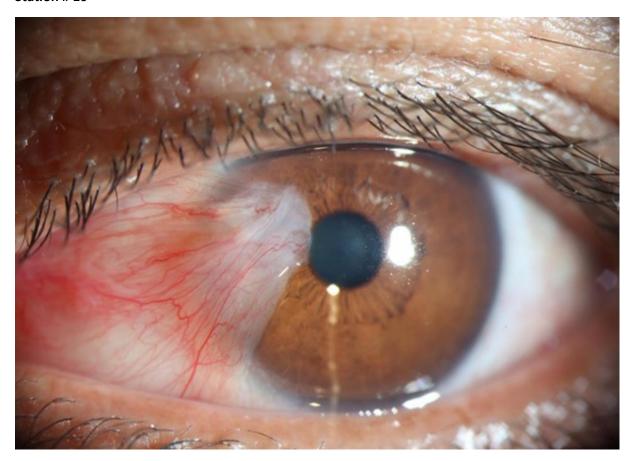
The patient had his cataract surgery done 3 days back came to Eye Emergency with severe pain & loss of vision in the operated eye.

- 1. What more signs will you look for in this patient?
- 2. What is your diagnosis?
- 3. Name 2 microorganisms responsible for the disease
- 4. How will you manage this patient?



This patient gives H/O gradual loss of vision in his Right eye for last 1 year

- 1. What is your diagnosis?
 Cataract
- 2. How will you evaluate this patient for surgery?
- 3. What surgical options are available for this particular patient?
- 4. Enumerate per operative complications that can occur during eye surgery of this patient.



This picture shows soft tissue growth encroaching upon the cornea of a patient for last 2 years.

- **1. What is your diagnosis?** Pterygium
- 2. What is pathogenesis of this condition?
- 3. What complication can occur if it remains untreated?
- 4. Give treatment options available for this patient?



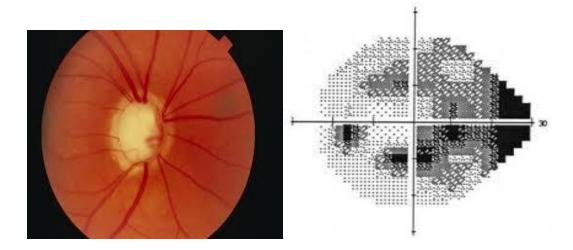
This is picture of a 12 years girl with C/O high grade fever, pain & swollen lids of her Left Eye. She gives H/O severe sinusitis a week ago.

- **1. What is your diagnosis?** Orbital cellulitis
- 2. Name the most common causative organisms
- 3. What is pathogenesis of this disease?
- 4. What are complications of the disease?



This child presented in the eye OPD with C/O deviation of her eyes since birth.

- **1. What is your diagnosis?** Squint
- 2. How do you classify this disease?
- 3. What is pathogenesis of this disease?
- 4. How will you manage this patient?



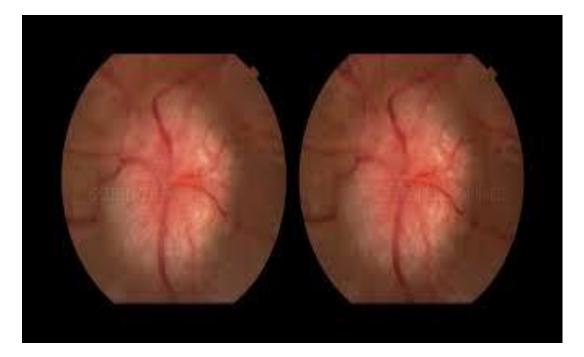
A patient's eye with typical disc changes & visual field defect

- **1. What is your diagnosis?** Glaucoma/cupping
- 2. What other important signs will you look for in this patient?
- 3. What is pathogenesis of this disease?
- 4. How will you manage this patient?



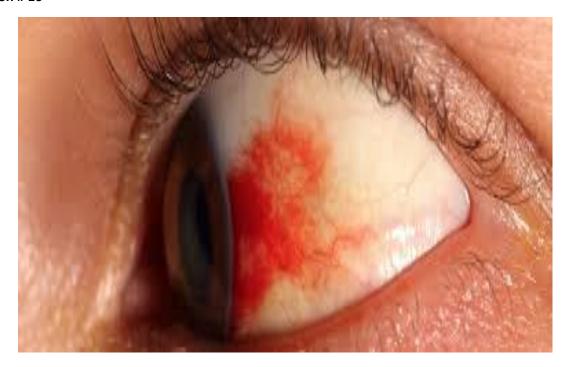
This old man presented in eye OPD with complaints of frequent watering from his eyes?

- **1. What is your diagnosis?** Ectropion/ Senile
- 2. What is the underlying pathophysiology?
- 3. Name any two surgical options you would use?



A patient presented in emergency with headache, nausea, vomiting and blurring of vision and above fundus picture.

- **1. What is your diagnosis?** Papillary edema
- 2. What is the differential diagnosis?
- 3. What is its immediate treatment?



A Lady presented with this condition of eye, she has history of severe cough and constipation for the last one week

- **1. What is your diagnosis?**Sub-conjuctival hemmorhage
- 2. What other conditions can cause this?
- 3. What is the treatment of this condition?



A patient has been advised cataract surgery with Intra Ocular Lens Implant (IOL)

- 1. What are various types of IOL available?
- 2. What are the different parts of IOL?
- 3. Which is the best site to place the IOL?



A mother brought her child with leucocoria (white opacity) in Right eye

- 1. What is the differential diagnosis of leucocoria?
- 2. What is the most common malignancy affecting children before the age of three years?
- 3. How will you manage this patient?

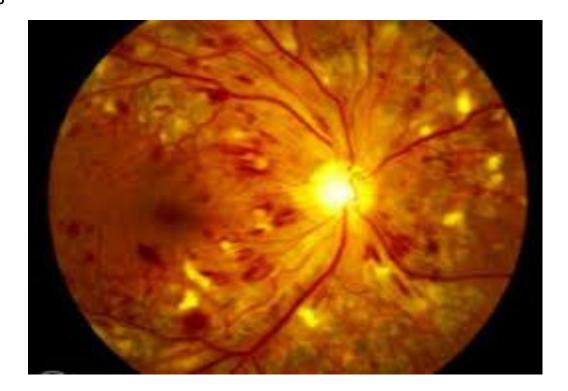
Station # 19



A mother brought child of 4 years of age with drooping of Right eyelid

- 1. What is the typical sign visible in the picture above?

 Marcus gunn jaw winking test
- 2. How do you classify this disease?
- 3. What are the surgical options available for treatment of this disease?



A 60 years old lady presented in the eye OPD with sudden painless loss of vision of his eye

- **1. What is your diagnosis?**Tomato splash appearance
- 2. What is the most common factors/ systemic diseases responsible for this condition?
- 3. Name two important complications of the disease.
- 4. How will you manage this patient?

Station # 21:



- 2. What is Clinical Features?
- 3. What is treatment?

Answers:

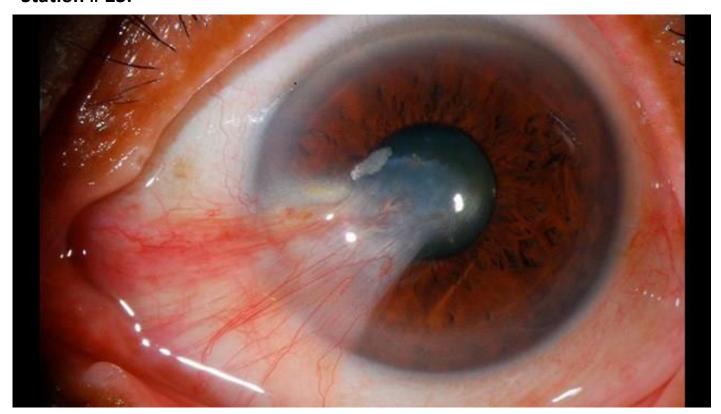
- 1. Buphthalmos
- 2.
- Raised intraocular pressure
- Seniarge corneal diameter
- Sonioscopic findings
- ⋄ Fundoscopy shows optic disc changes
- 3.
- ♥ Goniotomy
- ♥ Trabeculectomy

Station # 22:



- 1. What is your diagnosis?
- 2. Enumerate treatment options
- 3. What type of incision is given and why?

Station # 23:



- 1. What is your diagnosis?
- 2. What is pathogenesis of the disease?
- 3. How will you treat this patient?

Station # 24:



A 60 years old women C/O sudden loss of vision of her eye with this fundus picture. She is known diabetic & hypertensive for last 20 years

- 1. What is your diagnosis
- 2. What are two most common systemic diseases associated with this condition?
- 3. How will you manage this?

Answers:

- 1. Vitrous hemorrhage
- 2.
- **♥** Diabetes
- **♥** Hypertension
- 3.
- **⇔** Bed rest
- **♦** Antivegf
- **⇔** Elevation of head
- **♥ Vitrectomy**

Station # 25:

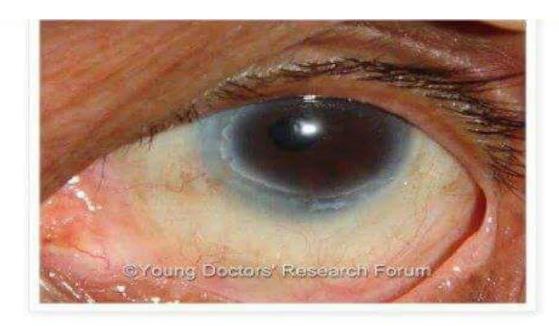
Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



Questions:

- Q.1. What is being shown in this condition?
- Q.2. What is the diagnosis?
- Q.3. How it can be treated?
- **1.** Munson's sign indication of the lower lid by the cornea when the patient lower the eye
- 2. Keratoconus
- **3.** Corneal transplant

Station # 26:



A 60 year old man comes to the Eye OPD with chief complaints of redness, irritation, watering, photophobia and gradual reduction of vision since 3 months

1. What is the diagnosis?

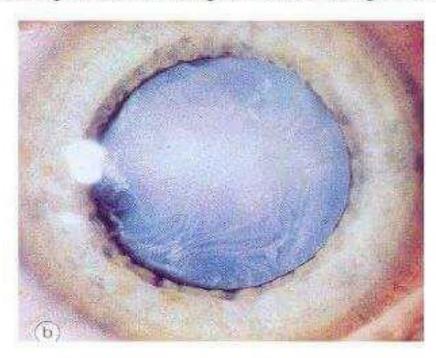
Anterior Uveitis

2. What is the treatment?

- Mydriatic and Cycloplegics
 e.g Atropine eye drops
- Topical steroids
- Antibiotics
- Cytotoxic drugs for steroid resistant cases

Station # 27:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



Questions:

Q.1.	What is the diagnosis?	(2)
Q.2.	What is the status of the pupil?	(1)
Q.3.	What is the treatment of choice?	(2)
		03-3

- 1. Hyper mature cataract
- 2. Pupil is dilated round and regular.
- 3. Cataract surgery with phakoemulsication.

Station # 28:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



Questions:

Q.1.	What is likely diagnosis?	(2)
2000	이탈살이 많은 사람들은 하는 이 전에게 집에서 가장하지 않는 사람들이 살을 보고 있다. 그를 하는 그를 하는 것이 없는 것이 없는 것이다.	2000

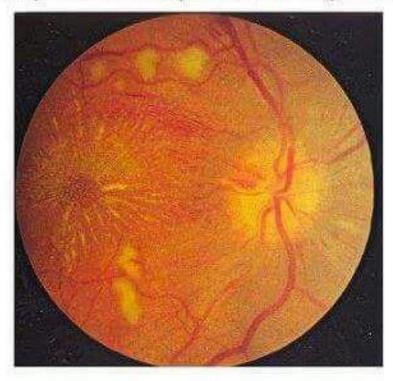
Q.2. If tip of nose is involved, which part of eye is affected? (2)

Q.3. What is local treatment? (1)

- 1. Herpes Zoster Ophthalmicus
- 2. Cornea
- 3. Antibiotic, Steriod, Antiviral Creams.

Station # 29:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



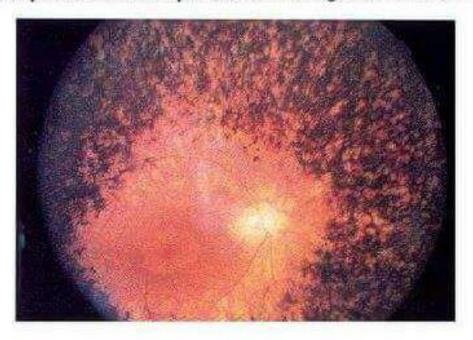
Questions:

- Q.1. Which systemic disease can cause this fundus picture? (2)
- Q.2. Give three findings in this photograph? (2)
- Q.3. Can this condition be reversed with the treatment of the disease? (1

- 1. Hypertension
- 2. Cotton wool spots, macular star, hemorrhages
- 3. .yes.

Station # 30:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



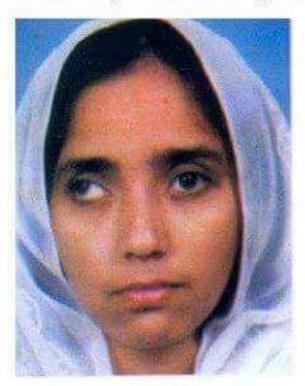
Questions:

Q.1.	What are the three findings in this photograph?	(3)
Q.2.	What is the likely diagnosis of this condition?	(1)
Q.3.	What is the visual prognosis of this condition?	(1)

- 1. Bone spicule pigmentary changes, arterior attenuation, blurring of the dis
- 2. Retinitis pigmentosa
- 3. Bad.

Station # 31:

Observe the photographs given below and answer the questions. And the answer the sheet provided and put the sheet in drop box before moving to the next station.



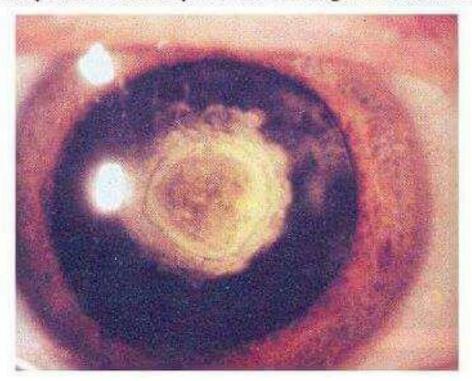
Questions:

Q.1.	What is clinical diagnosis in this picture?	(1)
Q.2.	Mention the three tests to evaluate this condition?	(3)
Q.3.	What is the treatment of your choice?	(1)

- 1. Right exotropia
- 2. Cover test, ocular motility, fundoscopy etc.
- 3. Squint surgery

Station # 32:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



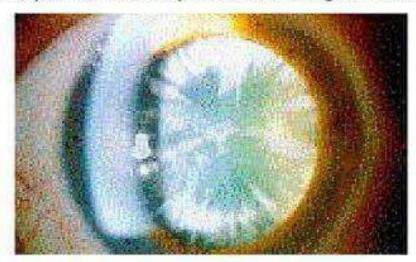
Questions:

- Q.1. Name two instruments used to diagnose this posterior sub capsular cataract
- Q.2. Give two causes of complicated (secondary) cataract?
- Q.3. Which pupillary light reflex anticipate good vision?

- Slitlamp biomicroscope, distant direct ophthalmoscope.
- 2. Chronic anterior uveitis, trauma, retinal dystrophy
- 3. Brisk pupillary light reflex

Station # 33:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



Questions:

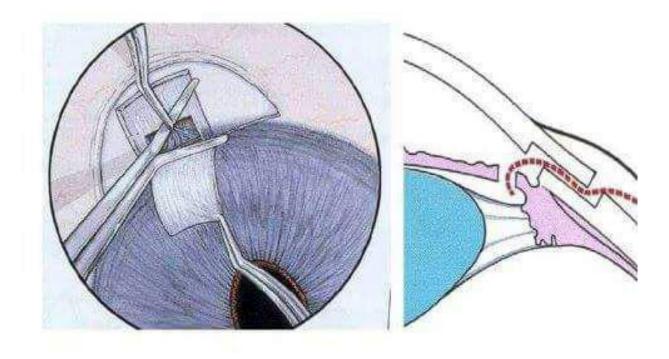
Q.1. Enlist two procedures for this cortical cataract?
--

- Q.2. Give two other morphological types of cataract? (2)
- Q.3. Give two late post operative complications of cataract surgery? (1)

- 1. ECCE + IOL, Phaco + IOL
- Posterior sub-capsular, nuclear sclerosis.
- 3. PCO, Retinal detachment, glaucoma

Station # 34:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



Questions:

Q.1.	What is the name of this anti-glaucoma surgery?	(1
Q.2.	What is the principal of this surgery?	(2
Q.3.	If IOP is not adequately controlled which two drugs can be added?	(2

- 1. Trabeculectomy
- 2. Drainage from posterior chamber through artificial passage to sub conjuctiva
- 3. Carbonic anhydrase inhibitors, beta blockers, prostaglandin analogues etc.

Station # 35:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



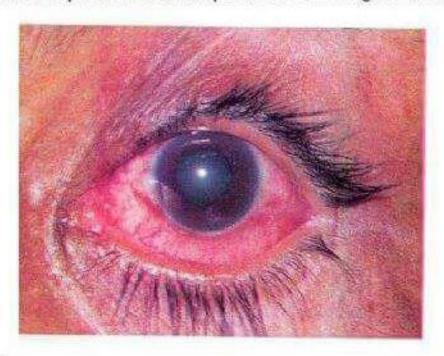
Questions:

Q.1.	Write three signs are visible in this photograph?	(
Q.2.	What is the diagnosis?	(
O.3.	Enlist two investigations?	(

- 1. Fulness of orbital tissue, , Protuion of the eye and lid retraction and edema
- 2. Thyroid Eye Disease
- Thyroid status and CT-Scan and MRI.

Station # 36:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



Questions:

- Q.1 Write two observations /signs?
- Q.2 Which is the likely diagnosis?
- Q.3 Give two other causes of red eye? (2)

(2)

(1)

Key of Questions

1.

- a. Pupildiallated
- b. Circum cilliary congestion.
- 2. Acute congestive glaucoma

3.

- a. Uveitis
- b. Keratitis
- c. Conjunctivitis

Station # 37:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



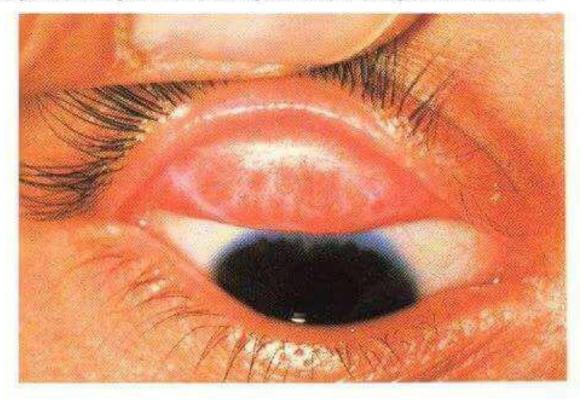
Questions:

Q.1.	What is the apparent difference in the two eyes?	(
Q.2.	Which instrument is used to measure the difference?	(
Q.3.	Give two immerging diagnostic investigations?	(

- 1. Protusion of the right eye.
- 2. Exophthalmometer
- 3. Ultra-sound, CT-Scan, MRI.

Station #38:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



Questions:

- Q.1. The fibrosing sub-conjunctival white line and herbarts pits are diagnostic of:
- Q.2. What is the treatment of this condition in active phase?
- Q.3. What other complications can occur in upper lid margin?

- 1. Chronic trachoma
- 2. Azithromycin, doxicyclin
- 3. Entropion / trichiasis.

Station #39:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



Questions:

Q.1.	What is the likely diagnosis in the left eye?	(
Q.2.	Two significant features seen in this photograph?	(
Q.3.	What is the surgical treatment of the choice?	(

- 1. Primary congenital glaucoma (Buphthalmos)
- 2. Increased corneal diameter, blue sclera
- 3. Goniotomy / Trabeculecutemy

Station # 40:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



Questions:

Q.1.	What is the manifest ocular posture of eye?	(2)
Q.2.	Which nerve is involved?	(1)
Q.3.	Mention two options of treatment?	(2)

- 1. Right eye convergent squint
- 2. CN-VI (abducent)
- 3. Botulinium toxin injection, surgery

Station # 41:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



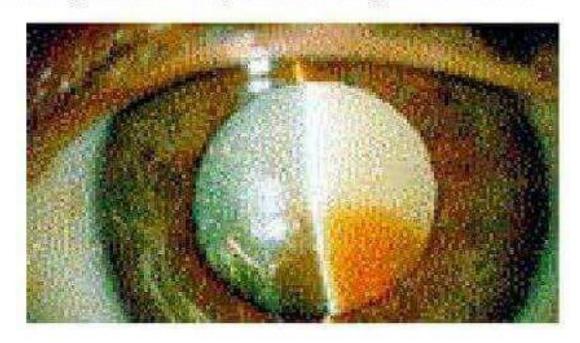
Questions:

- Q.1. Write three signs you have notice of this condition? (
- Q.2. What is the likely diagnosis?
- Q.3. Give two surgical procedures to correct it?

- 1. Stained corneal ulcer, circum ciliary congestion, hypopyon.
- 2. Hypopyon corneal ulcer
- 3. Conjunctival flap, tarsorrphy, keratoplasty

Station # 42:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



Questions:

Q.1.	Mention two signs observed in this photograph?	(2
72	Name and summathamimatic days is used to dilute one aunit?	61

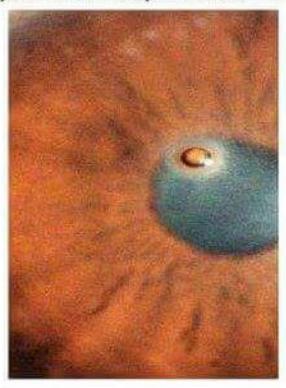
Q.2. Name one sympathomimetic drug is used to dilate one pupil?

Q.3 What are the two types of hyper mature cataract?

- 1. Dilated pupil, white lens with brown nucleus dipping down
- 2. Phenyl epinephrine
- 3. Morgagnion, sclerosing

Station # 43:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



Q.1.	What is the diagnosis?	(2
Q.2.	How you get rid of it?	(2
Q.3.	What you will prescribe after the procedure?	(1

- 1. Corneal Foreign Body
- 2. Removal with needle under local anesthesia and under magnification
- 3. Antibiotics eye drops

Station # 44:



- 1.What is the main positive finding in the picture?
 - -Proptosis.
 - Enumerate the main investigations that will help you reach a diagnosis.

A)Radiological investigations:

- -X-rays.
- -CT-scan.
- -MRI.
- -Ultrasonography.

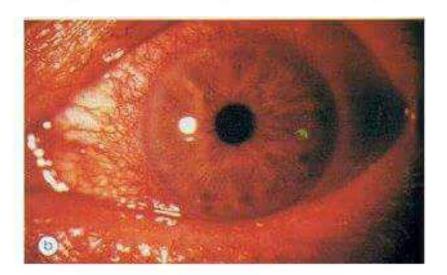
_

B) lab investigations:

—Routine tests: CBP, TLC, DLC, ESR, Urine examination.

Station # 45:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



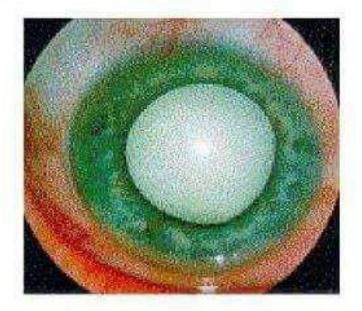
Questions:

Q.1.	What is the likely diagnosis?	(2)
Q.2.	Give two signs suggestive of diagnosis?	(2)
Q.3.	What is the treatment of the choice?	(1)

- 1. Acute anterior uveitis
- 2. Circumciliary congestion, smaller pupil
- 3. Steroid

Station # 46:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



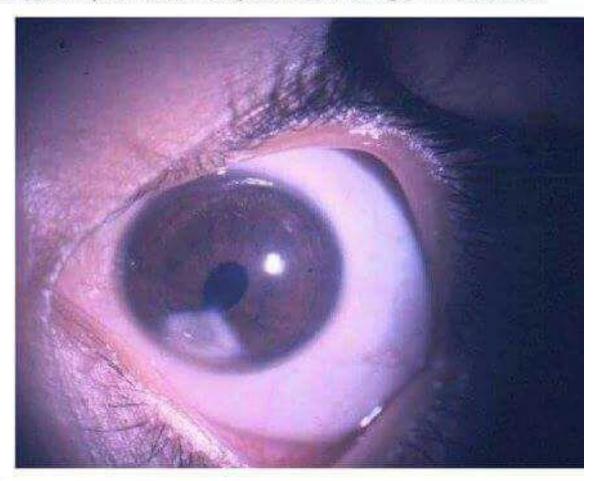
Questions:

Q.1.	What is the diagnosis?	(2
Q.2.	What is the treatment of your choice?	(1
Q.3.	If pupil is not reacting to light in this case. What visual outcome is anticip	ate

- 1. Mature-cataract
- 2. Phakoemulsification with intra ocular lens implantation
- Not good.

Station # 47:

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



Questions:

Q.1.	Give two finding in this photograph?	(
Q.2.	Which is the likely cause?	(
Q.3.	What will happen in this lesion?	(

- 1. Peripheral corneal opacity, pulled eccentric pupil.
- 2. Trauma, perforated corneal ulcer.
- 3. lision will be reduce

Station # 48:



divergent squint

Right sided

Exotropia

- What is your diagnosis?
- What is its pathogenesis?
- How you will treat this condition?

Station # 49:



Ptosis (Ward)

- □ Introduction
- ⇒ Bilateral examination of eyes
- □ Operation history
- ⇒ Scar mark
- \Rightarrow Investigations:
 - ♥ Heirschberg test
 - ♥ Palpaber fissure height

 - ♥ Fatigability
 - ♥ Bells phenomena
 - ♥ Cogan twitch sign
 - ♥ Marcus gunn jaw wink test

Cataract

- ⇒ Vision test with pinhole
- ⇒ Vision test without pinhole
- □ Opthalmoscope
- ⇒ Slit lamp
- ⇒ Finger test



Eyelid lifter



Castroveijo needle holder



Punctum dilator



Plain forcep



Entropiom clamp



Lacrimal probe



Chalazion clamp







- 10

5. Suture Tying Forceps

The forceps has very fine plain tips.



operations. Uses: To hold the suture during suturing for cataract, glaucoma, repair of corneal and/or scleral tears and keratoplasty

6. Arruga's Intracapsular (Capsule Holding) Forceps



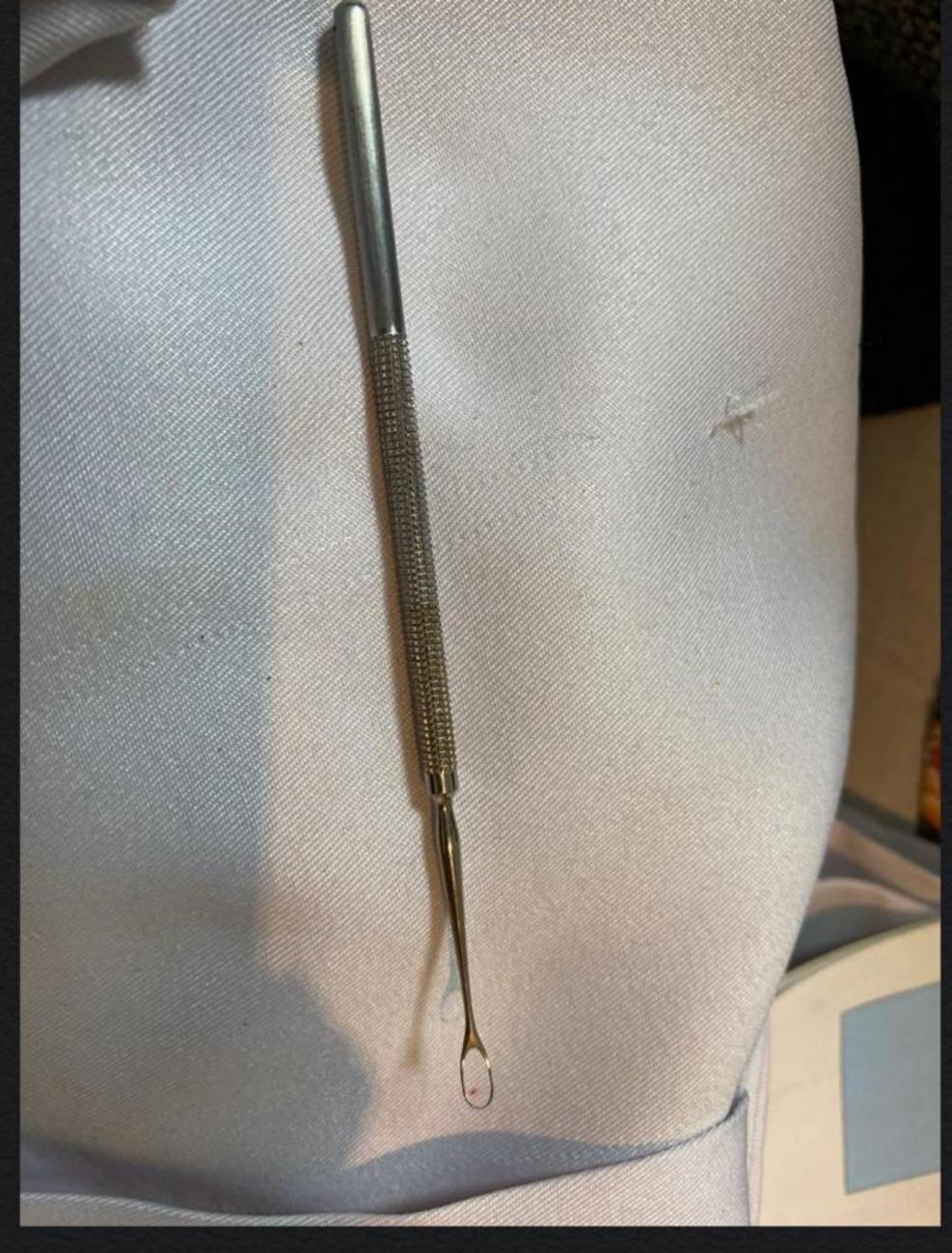


Suture tying forcep





Kelman mcpherson forcep



Wire vectis



Castroveijo caliper



Foreign body spud



Hook and retractor



Chalazion scoop



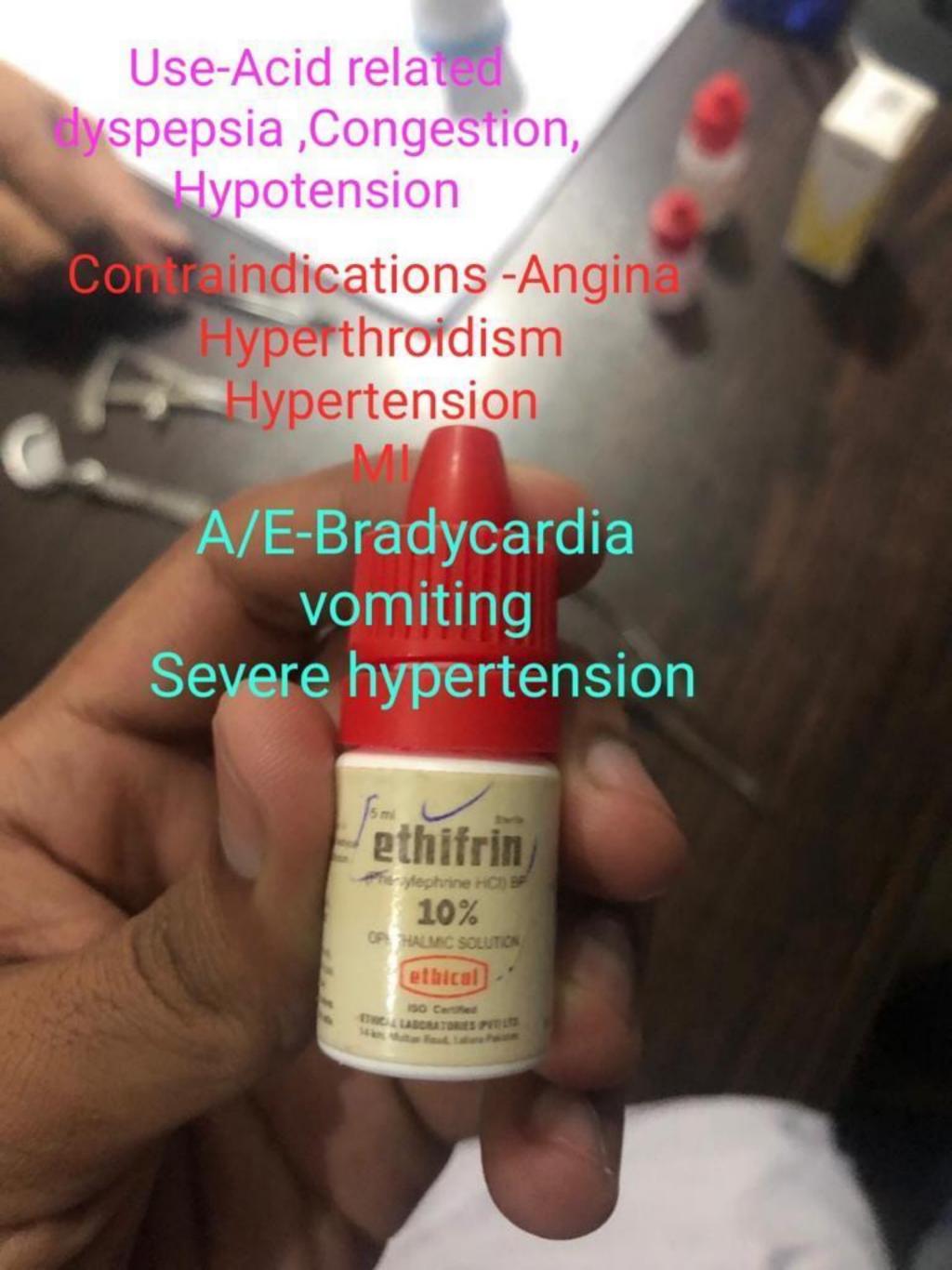
Two way irrigation and aspiration cannula

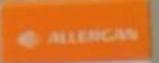


Uses-Bacterial infection-As in conjunctivits

A/E-temporarily burning. Eye di scomfort, itching, redness, tearing, eyelid crusting, foreign body sensation

Duration-30 mints to 4 hours





Blephamide

uses-treat
Bacterial eye inf
ections and to
treat swelling in
the eye.

A/Eeye irritation, allergic reaction

s, increased (IOP) ,cataracts, delayed wound healing, dilated pupils, farsightedness, drooping eyelid, and St 9

A/Eeye burning,

stinging,

irritation,

itching,

tearing,

redness,

discomfort

bacterial eye in fections
treatment

Nebra (Tobramycin)

EYE DROPS

Duration-30 mints to few hours

STERILE OPHTHALMIC SOLUTION

Marchechard by:
REMINISTRAN PHARMACEUTICAL INCUSTRASS (PVT) LTD.
18 Km Multan Road, Labora Parallan



mild itching, redness

Use-Analgesic Local Anesthetic

A/E-Hypertension
Seizures
Allergic reactions
Cardic arrythmias
Half life-1-2 mints

Duration-15 mints -Short acting

ALCAINE®

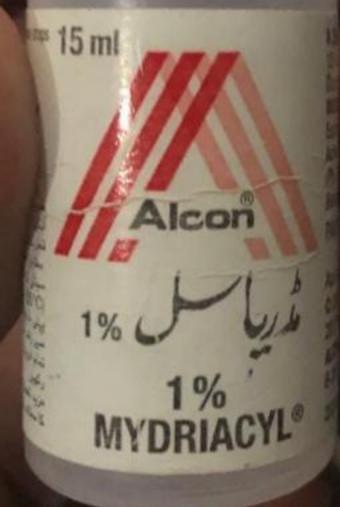
(Proparacaine Hydrochloride 0.5%)
STERILE OPHTHALMIC
SOLUTION

15 ml

Alcon

a Novartis company

Use-Pupil dilation Mydriatic cycloplegic A/E-Photophobia ye stinging Dry mouth temporary Blurred vison Duration-12-20 mints 15 ml





uses- Treat
bacterial
infections of
the eye, including
conjunctivitis
(pink eye) and
ulcers of the
cornea.

St 2

A/E- stinging burning discomfort, itching, redness, dryness, tearing, sensitivity to light, pinkeye (conjunctivitis), facial swelling, eye pain, and infrequently, dizziness or nausea.



ssor of

ademics at

rious ev

Uses- treat itching, burning, redness, watering, and other eye

OloPAT

olopatadine



A/E-Headache, blurred vision, burning/ stinging/ redness/ dryness of the eye, eyelid swelling, or a feeling as Uses-Bacterial infections treatment

A/E-pain dryness redness itchiness

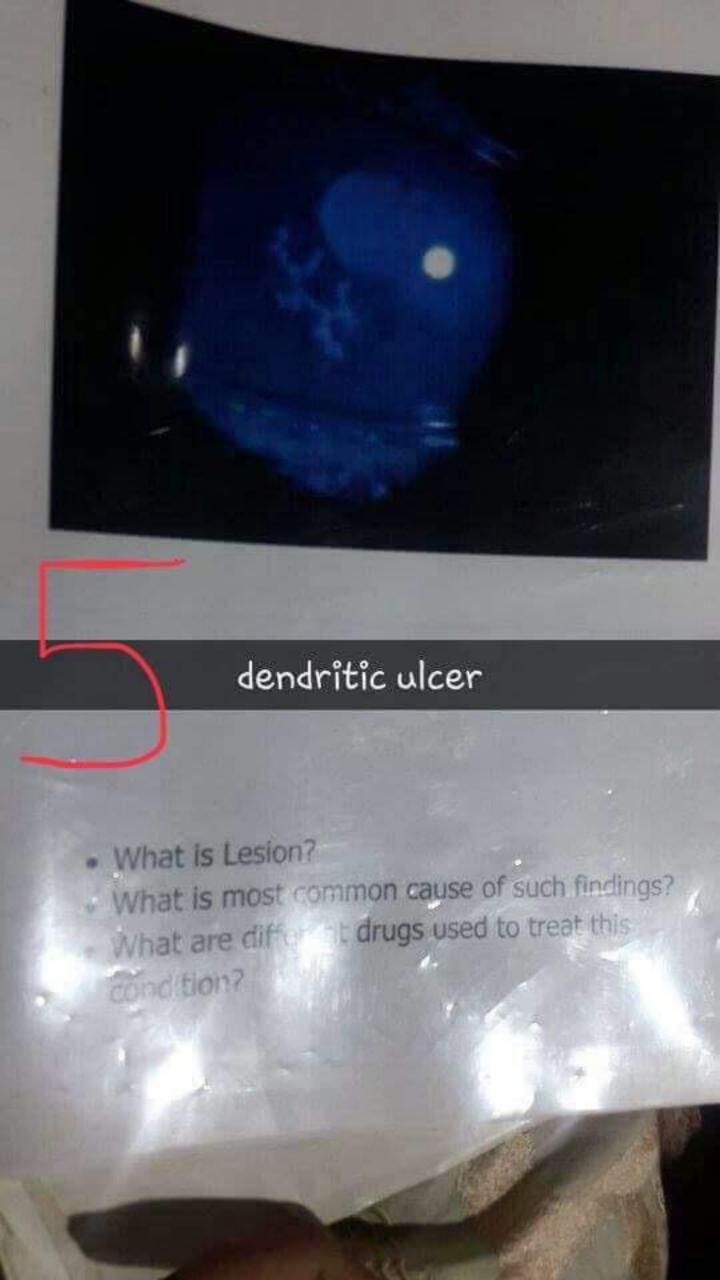


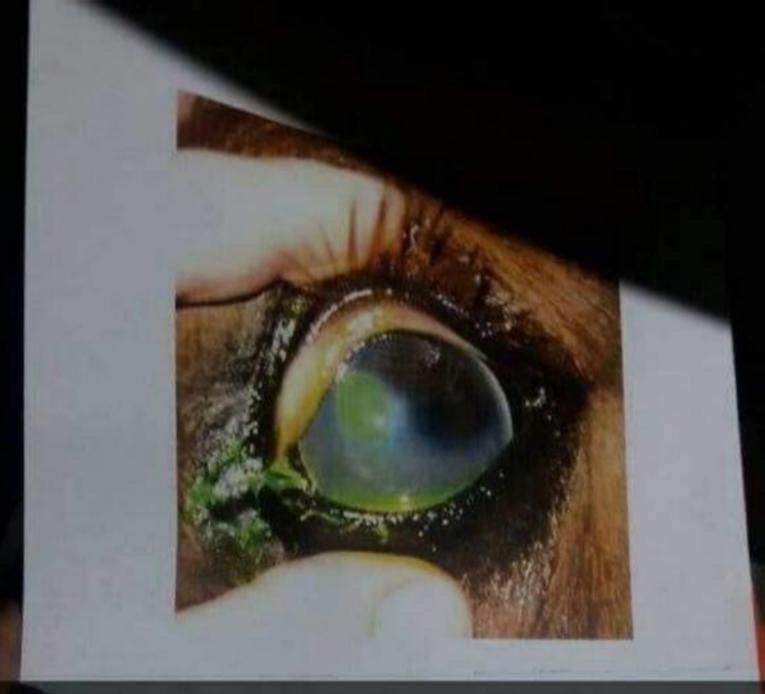
Duration-once a dayical for 5 to 21 days almology

sook

St 4

on covers the entire curriculum of iduate medical students. In this new chapters have been added





staining of crneal ulcer with flourescine stain

- What is Lesion? Enumerate treatment options.
- What are three basic aims to treat it?

Viral corneal ulcer Antivirals... Acyclovir Debridement, interferon monotherapy, atropine, keratoplasty Aims... To prevent chronic epi. Ulcer, corneal opacity, hypopyon

null





lote: Use right (>) and left (<) arrow keys to navigate through th

OSPE in Ophthalmology MBBS Third Professional Examination

Area : Retina , Optic Nerve

Topic : Hypertensive retino pathy

Types of Station: Static

Observe the photographs given below and answer the questions. And the answer sheet provided and put the sheet in drop box before moving to the next station.



Questions:

- Q.1. Which systemic disease can cause this fundus picture? (2)
 Q.2. Give three findings in this photograph? (2)
- Q.3. Can this condition be reversed with the treatment of the disease? (1)

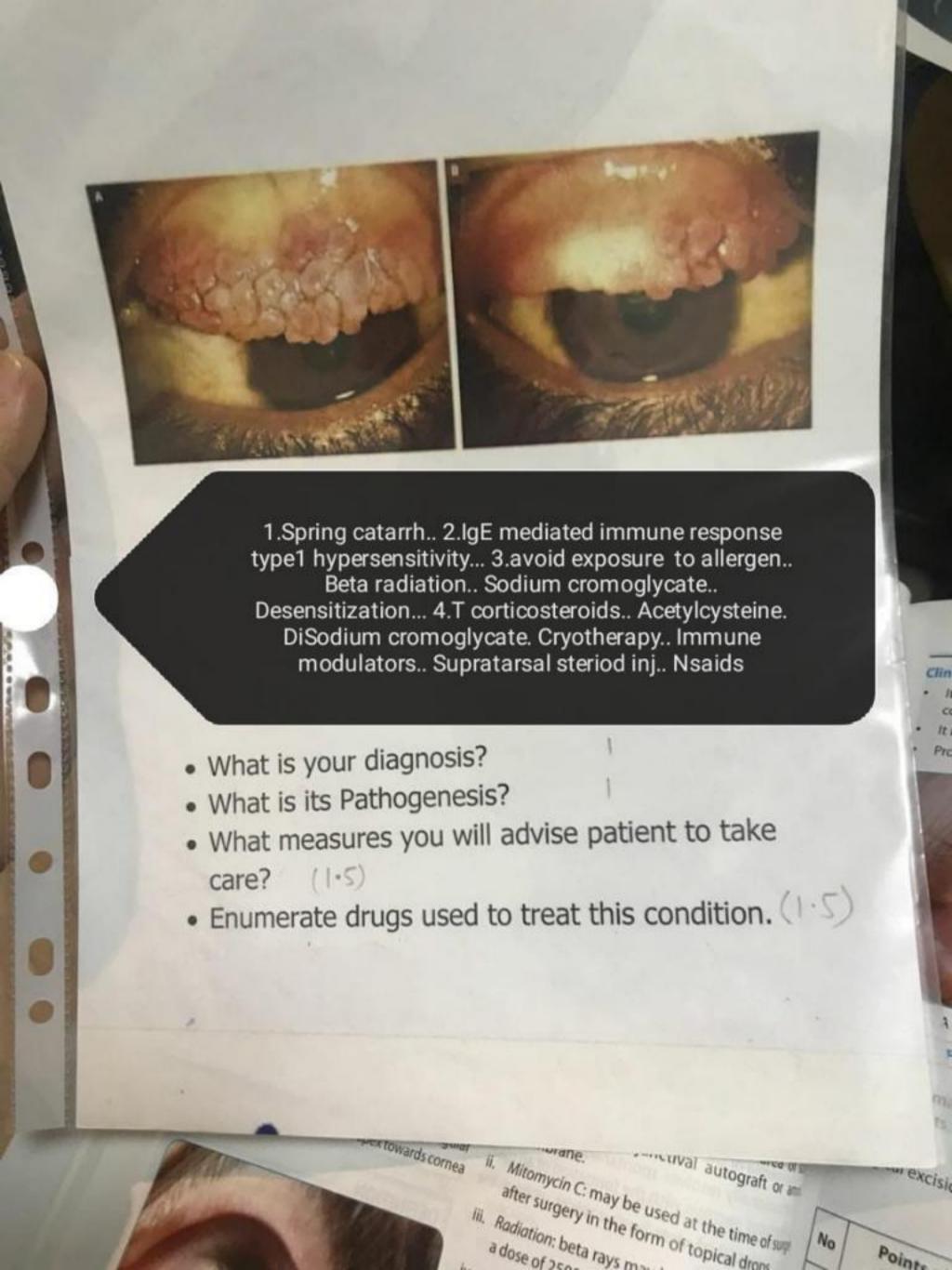
Key of Questions:

- 1. Hypertension
- 2. Cotton wool spots, macular star, hemorrhages
- 3. .yes.



lote: Use right (>) and left (<) arrow keys to navigate through th

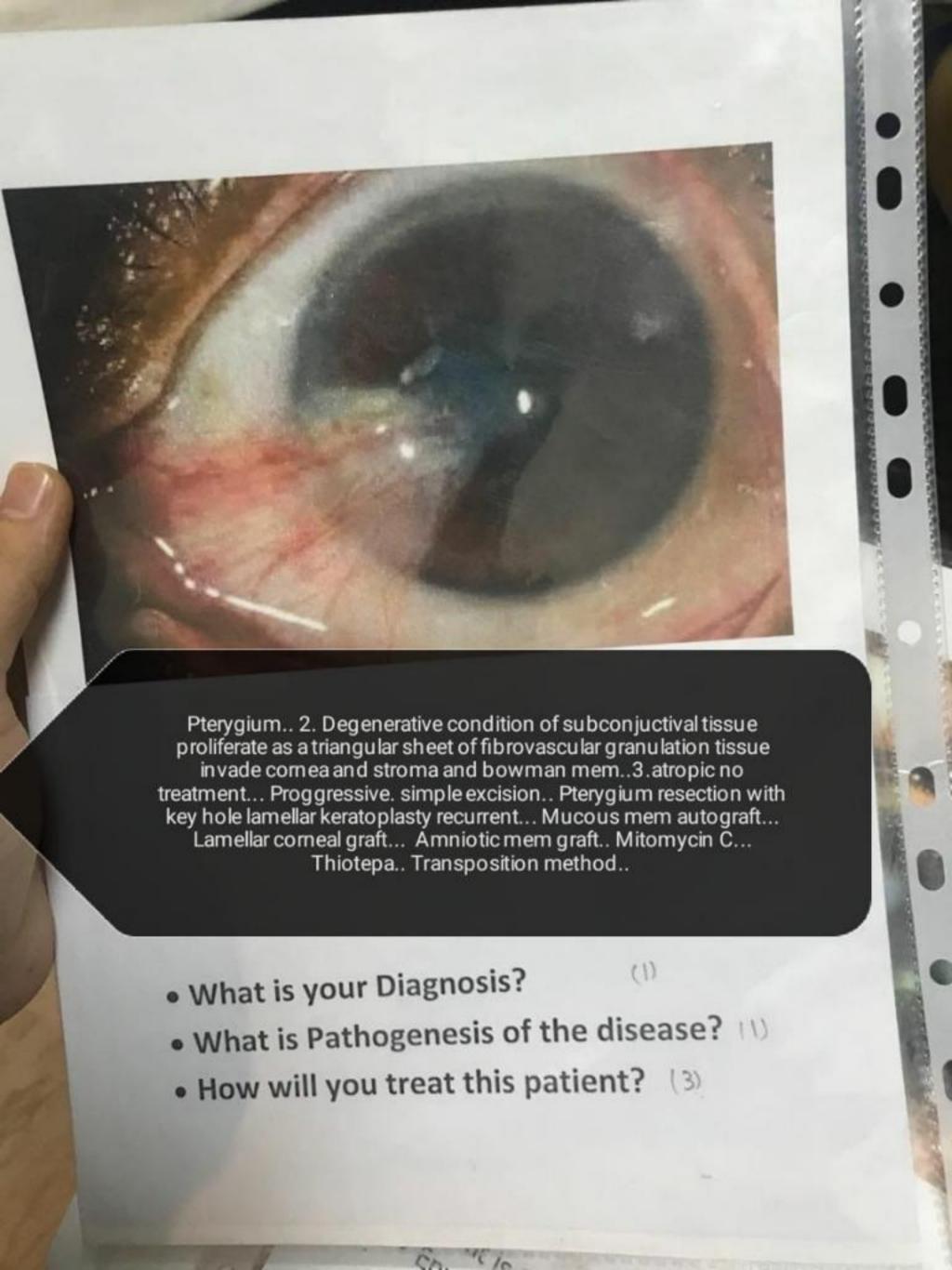
OSPE in Ophthalmology MBBS Third Professional Examination

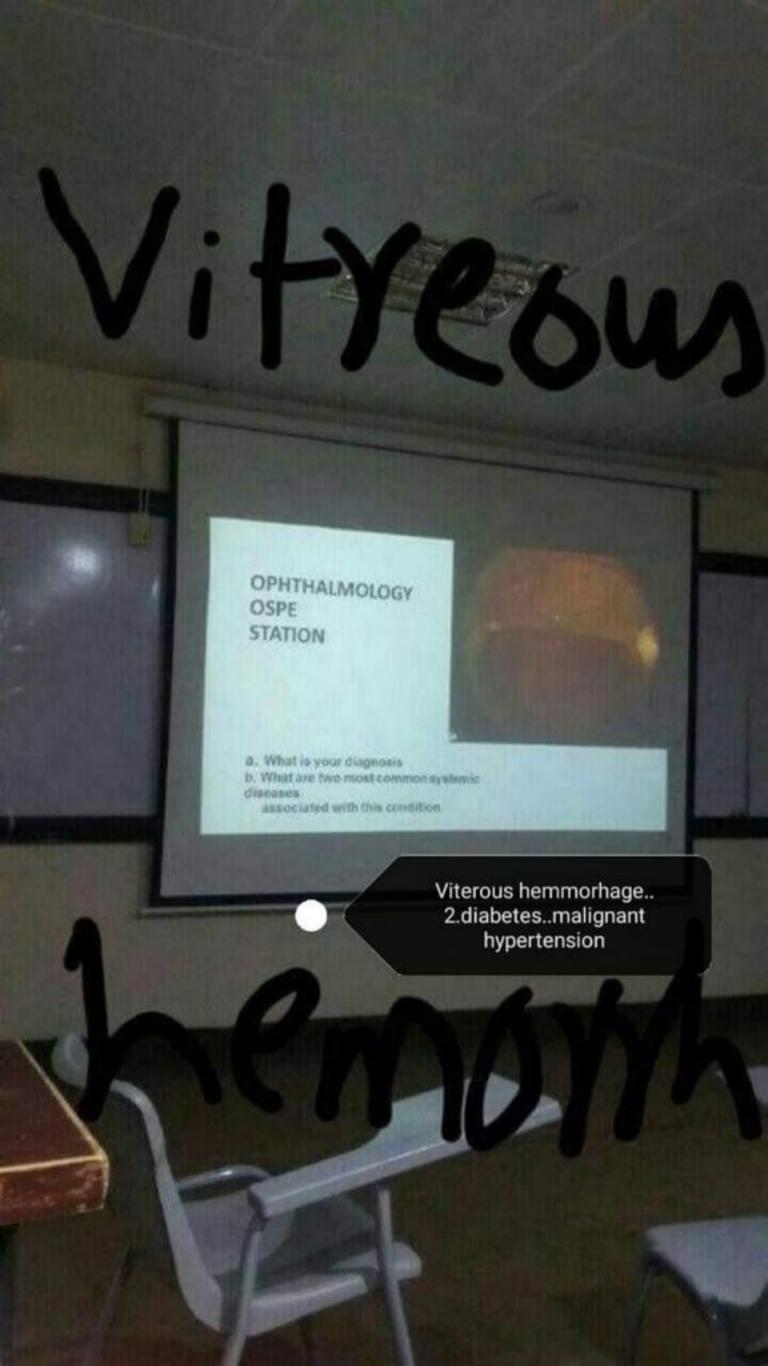


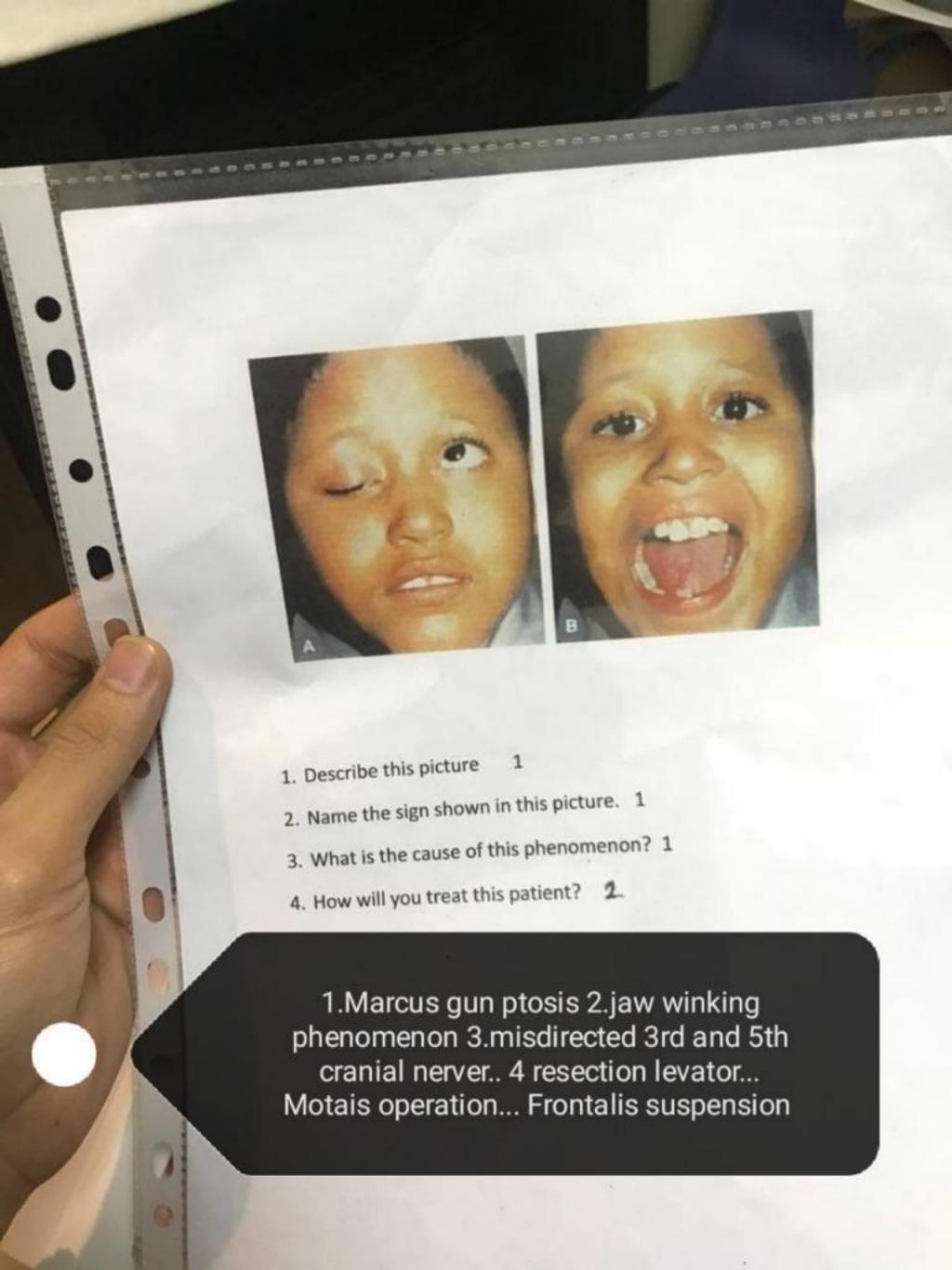


what is your diagnosis what is its prophylactic treatment

Ophthalmia neonatorum.. 2.aseptic delivery..
Proper antenatal care treat vaginal inf.. If
mother suspected to have gonococcal or
clamydial inf.. Than 1% tetracycline ointments
into eye









• What is your diagnosis?

 What are different surgical techniques used to treat?

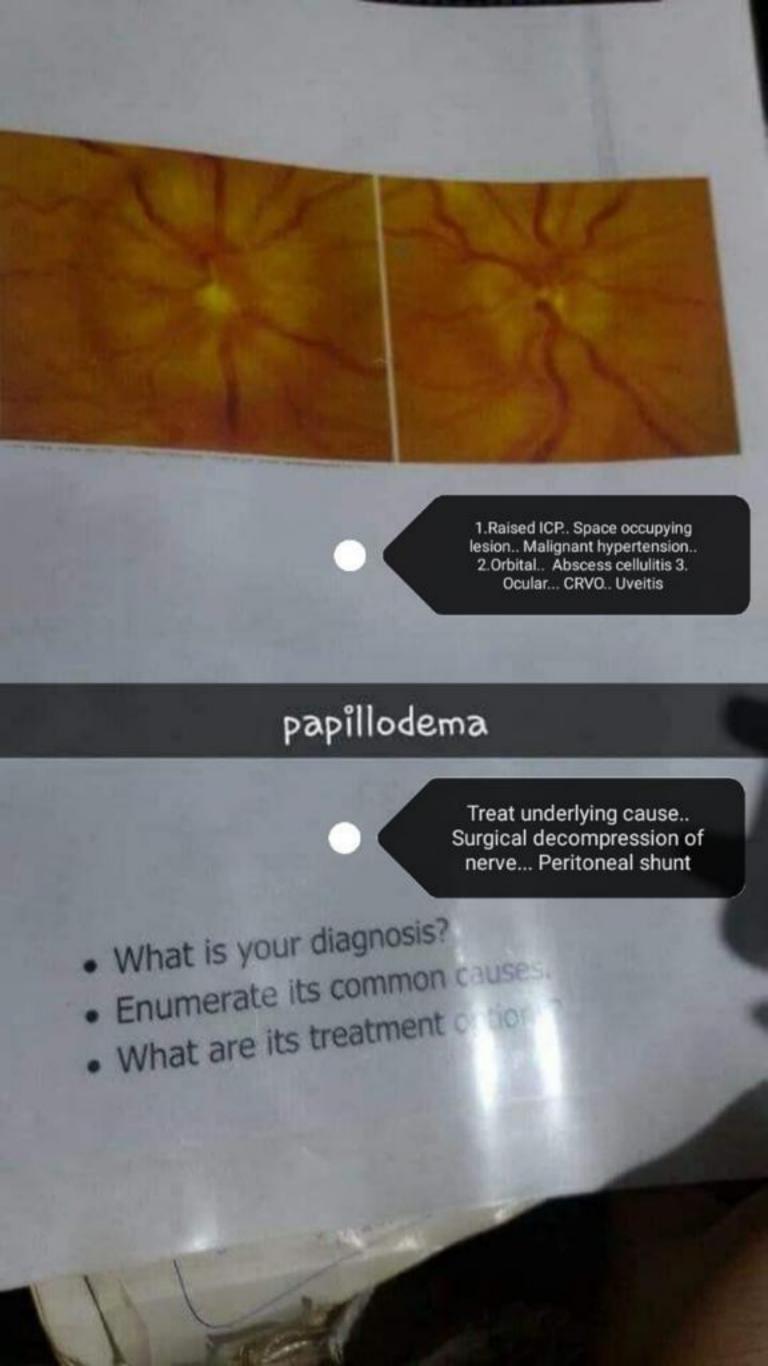
Retninal vascular spasm

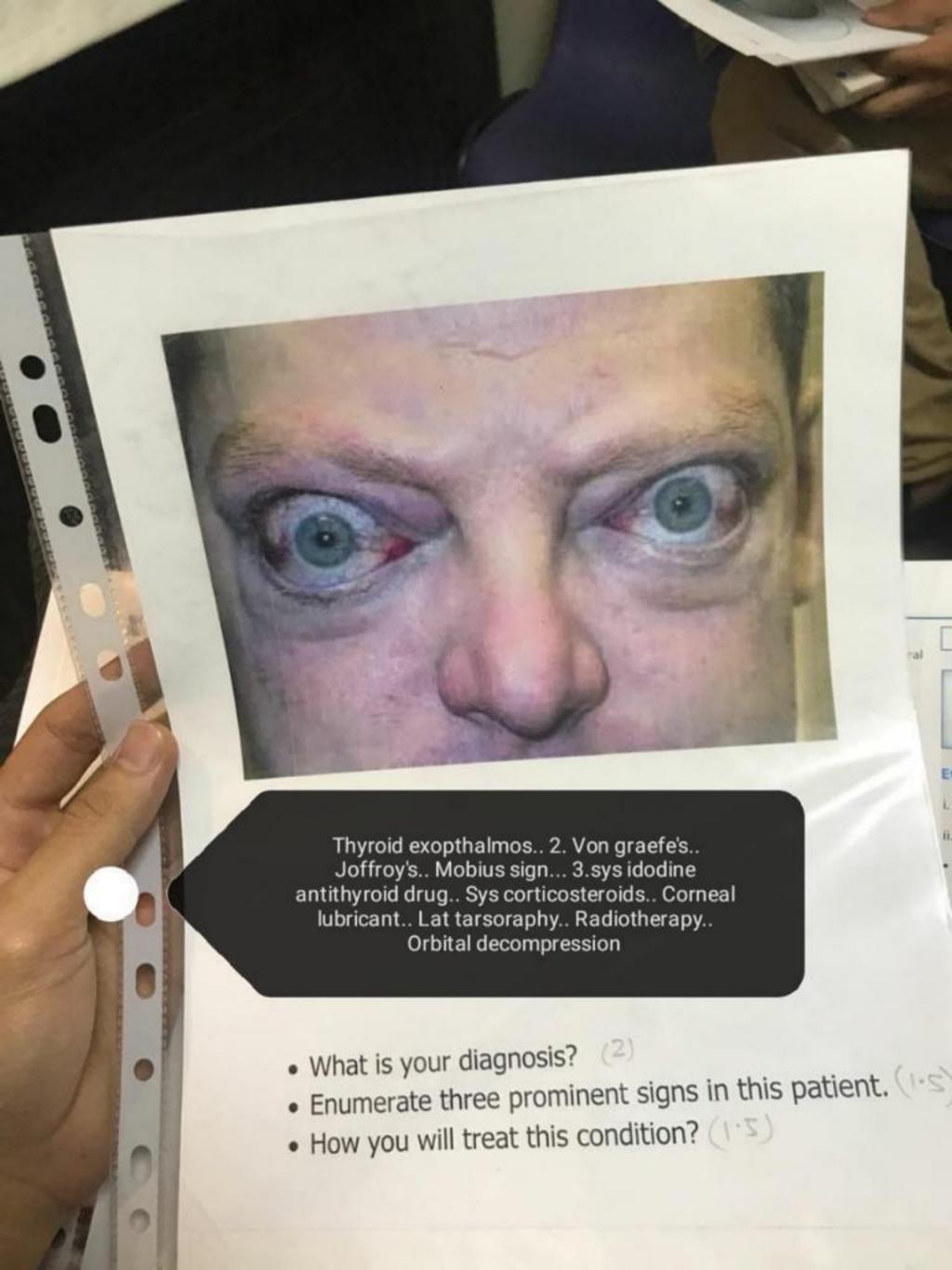
capsular opacification

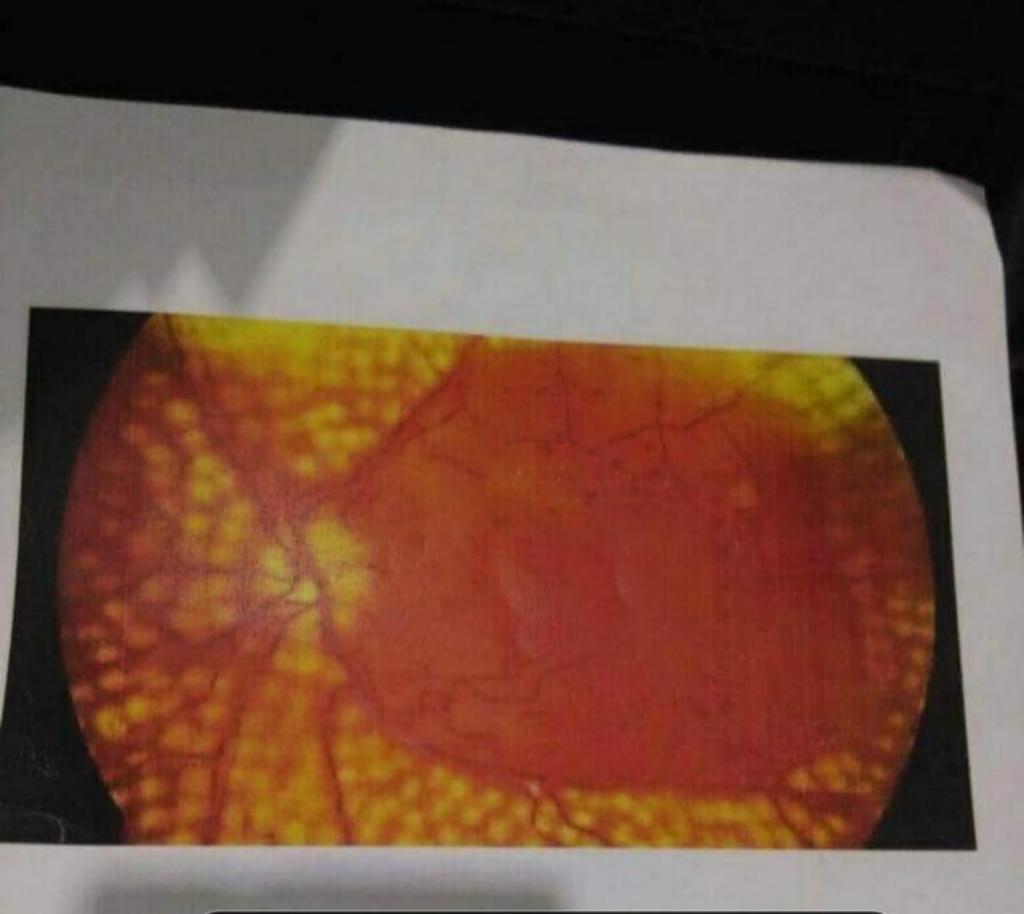
ptic nerve injurry.. 4.post

 Enumerate complications of local anesthesia in this case.

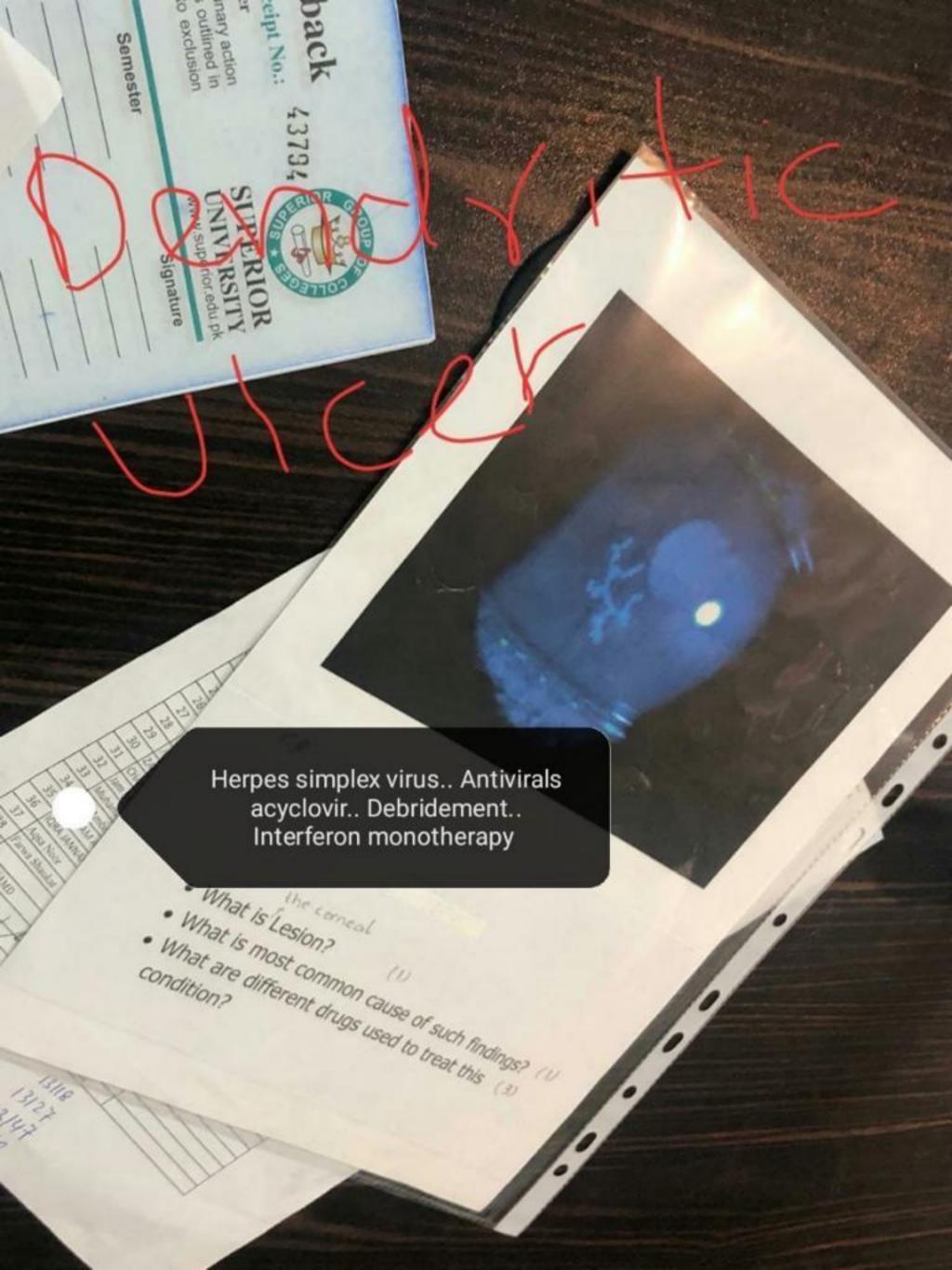
 What is most common Late Post-operative complication after surgery?





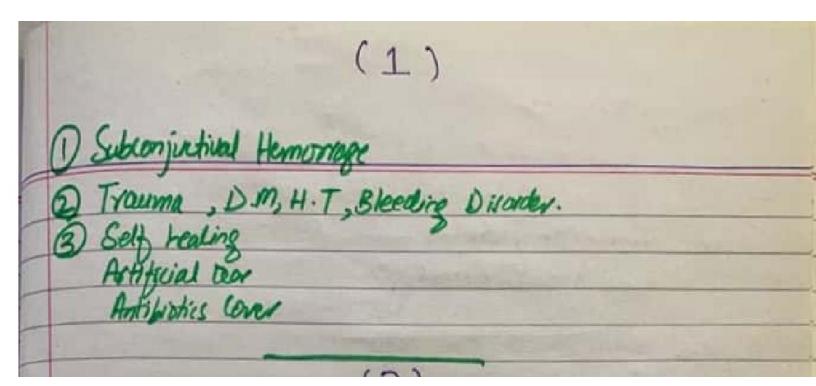


Panphotocoagula tion



subconjuctival hemorrhage

- · What is this?
- What are its causes?
- What are its treatment options?

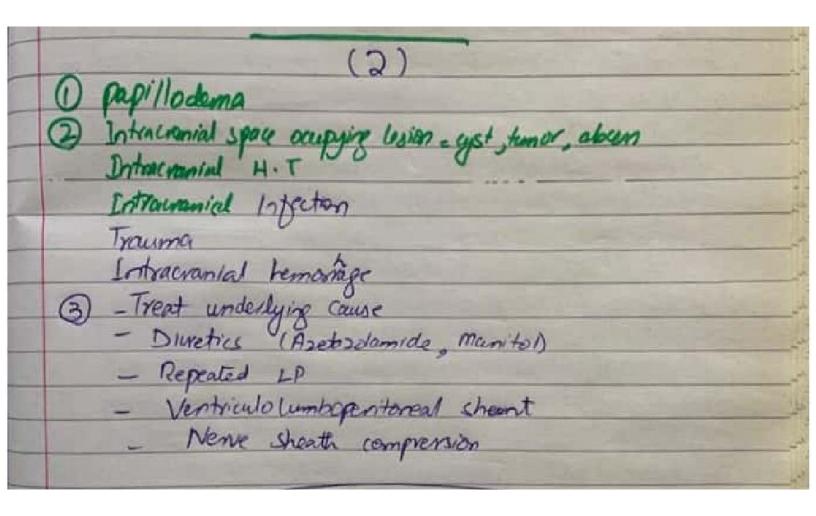




papilloedema

- What is your diagnosis?
- Enumerate its common causes.
- What are its treatment options?

(2)





chalazion

What is your diagnosis?

- (1)
- Enumerate treatment options.
- (2)
- What type of incision is given and why? (2)

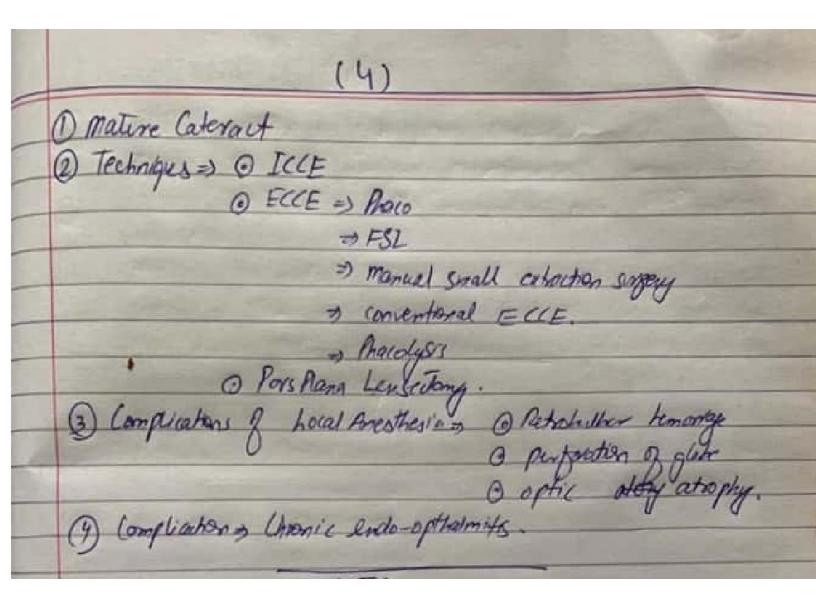
- (22
(3)
O Chalozion
2) Conscivative => Expression - Compression
worm compress
=> Topical steroid - Arthbotic drops.
Medical => Subregischval conficestroid
a) Antibiotics
Surgery => Incision and curretize
3) Vertical incison is given due to.
o prevents incision of mechanism gland operents incition of vessels

Scanned with CamScanner



Mature cataract

- · What is your diagnosis?
- What are different surgical techniques used to treat? (2)
- Enumerate complications of local anesthesia in this case.
- What is most common Late Post-operative complication after surgery?

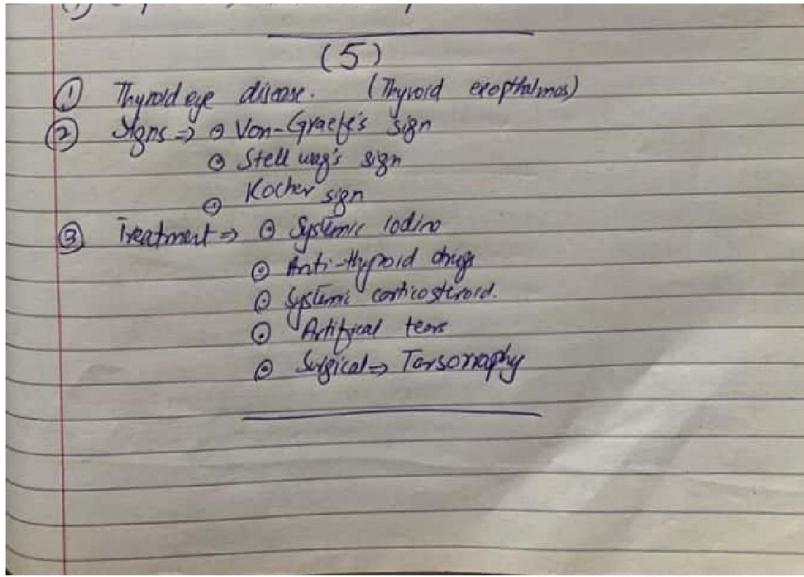




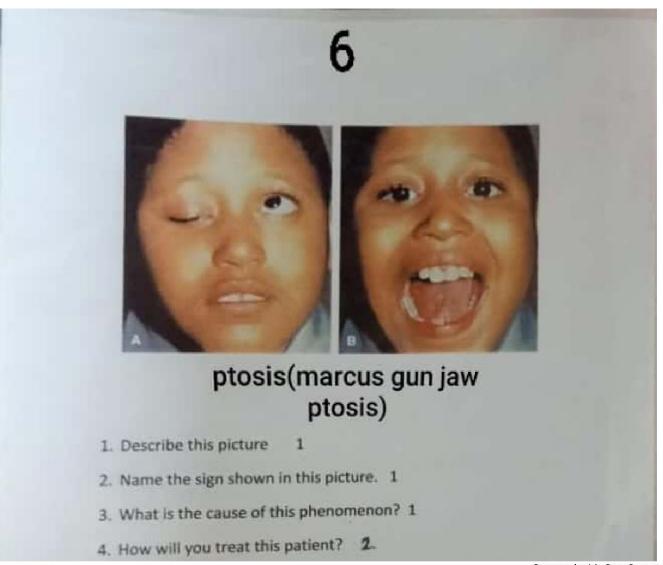
Thyriod eye diseas

OB

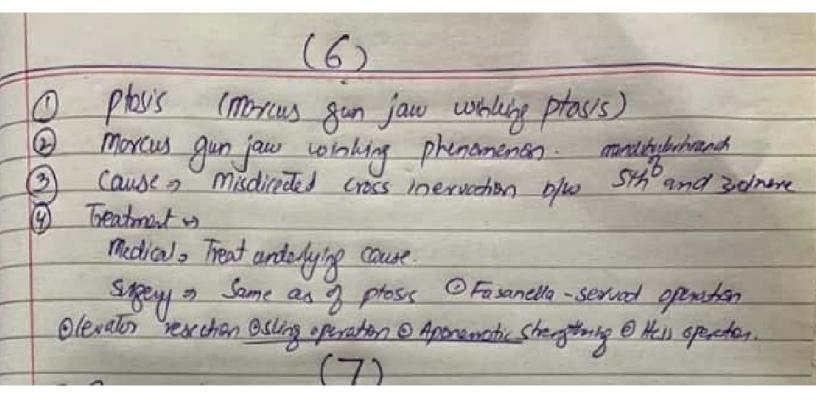
- What is your diagnosis? (2)
- Enumerate three prominent signs in this patier
- How you will treat this condition?

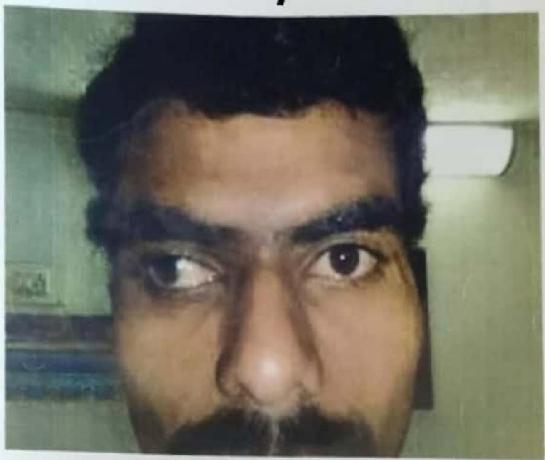


Scanned with CamScanner



Scanned with CamScanner





right exotropia

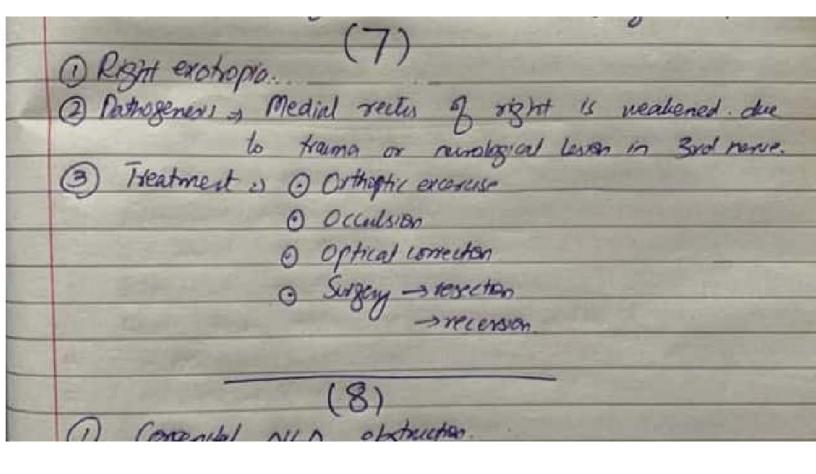
What is your diagnosis?

Dev

- · What is its pathogenesis?
- How you will treat this condition?





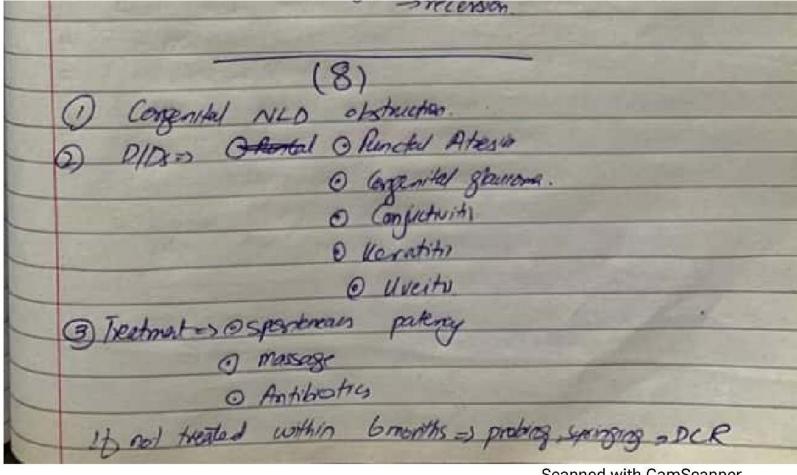




nasolacrimal duct obstruction

A mother brought her 3 month baby with complaints of watering from his right eye since birth. There is no history of any birth trauma:

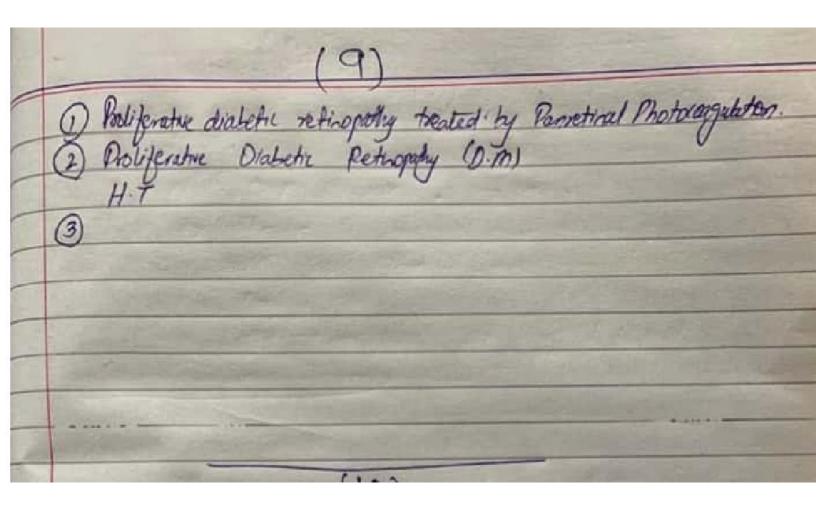
a.	What is most likely diagnosis?	1.4
b.	What is differential diagnosis of epiphora at this age?	
c.	What treatment will you advise for this patient?	
	remaind for this patient?	17



Scanned with CamScanner

panretinal photocoagulation

- What is your Diagnosis?
- Name two Most Common causes of this disorder.
- How will you manage this Patient?



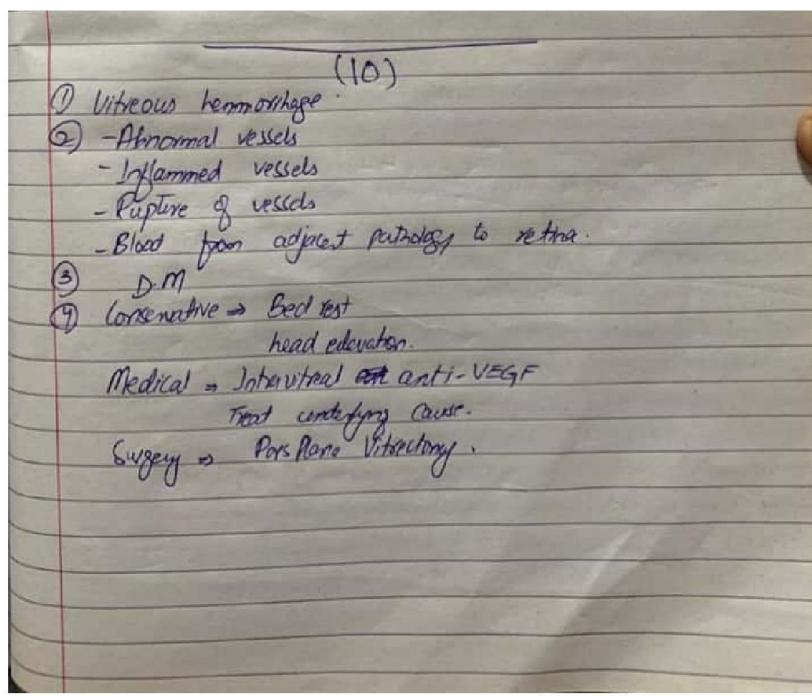




vitrous hemorrhage

A 60 year old man presented in the eye OPD with sudden loss of vision with above fundus picture

	Is your diagnosis?	1
a.	What is your diagnosis?	1
b.	What is the pathogenesis of this condition? Name the commonest systemic diseases responsible for this	
		1
	condition?	7
d.	How will you manage this patient?	



Scanned with CamScanner

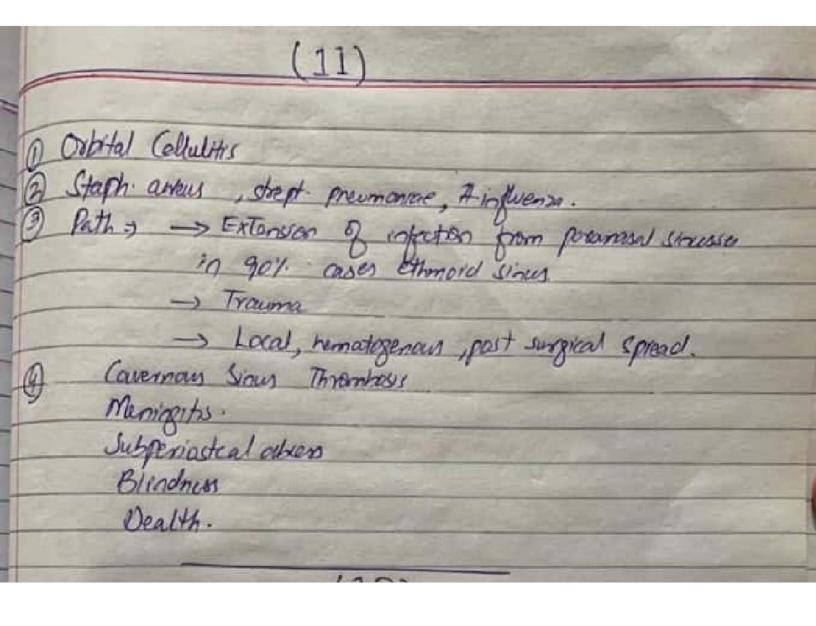


01

orbital cellulitis

This is picture of a 12 years girl with C/O high grade fever, pain & swollen lids of her Left Eye. She gives H/O severe sinusitis a week ago.

a.	What is your diagnosis?	1
b.	Name the most common causative organisms	1
c.	What is pathogenesis of this disease?	2
d.	What are complications of the disease?	1

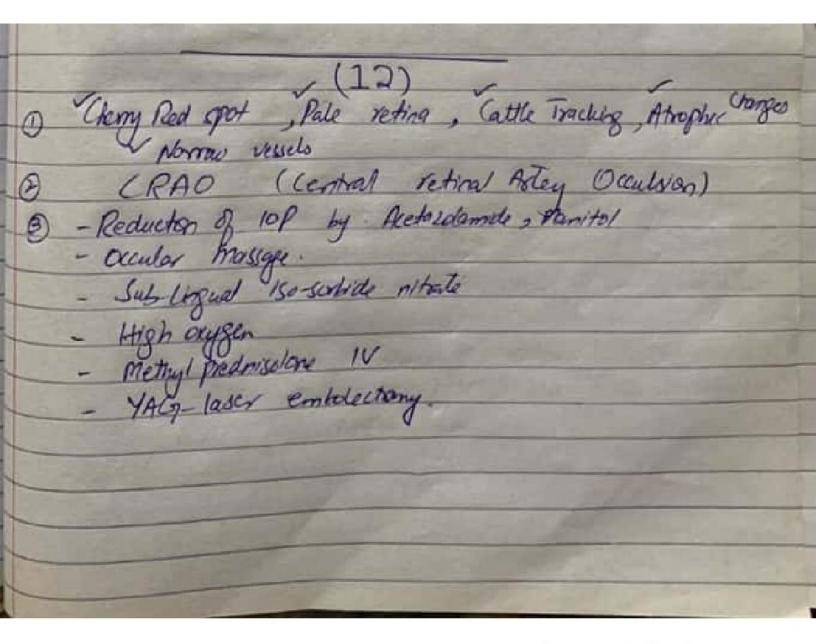




central retinal artery occulution

A 60 years old male had sudden painless loss of vision in his right eye. There is H/O diabetes, hypertension and hyperlipidemia for 20 years. His fundus picture is shown above

- a. What are important findings in this fundus photograph?b. What is most probable diagnosis?
- c. Enumerate important steps in the emergency management of this condition



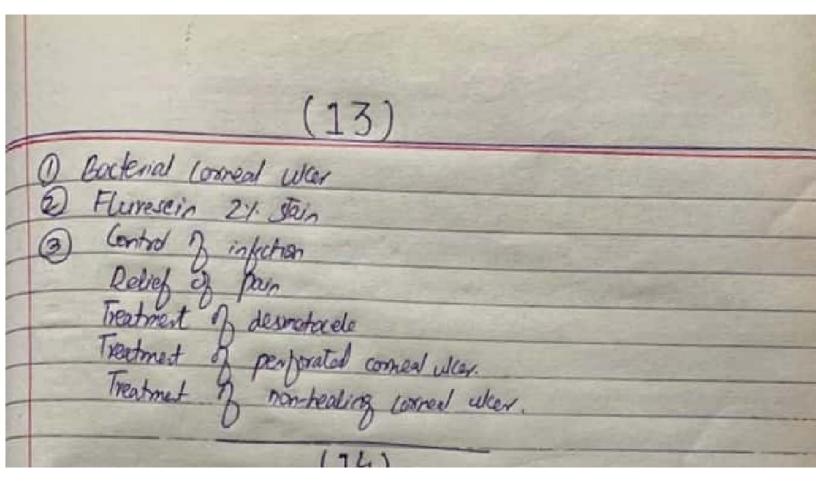
Scanned with CamScanner

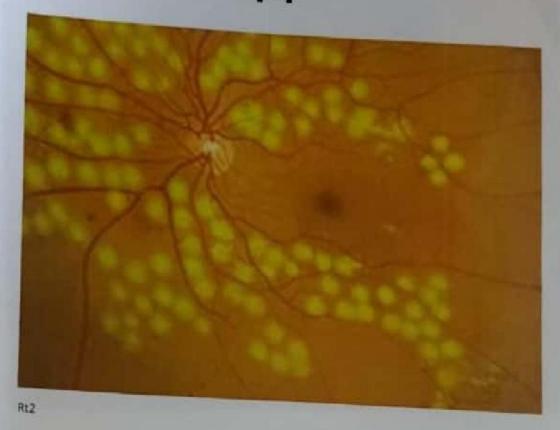


bacterial corneal ulcer

This patient has H/O trauma to cornea of his left eye

-	What is your diagnosis?	1
а.	What is your diagnosis.	
h	What is the name of stain used for corneal staining?	
		1
C.	How will you manage this case?	

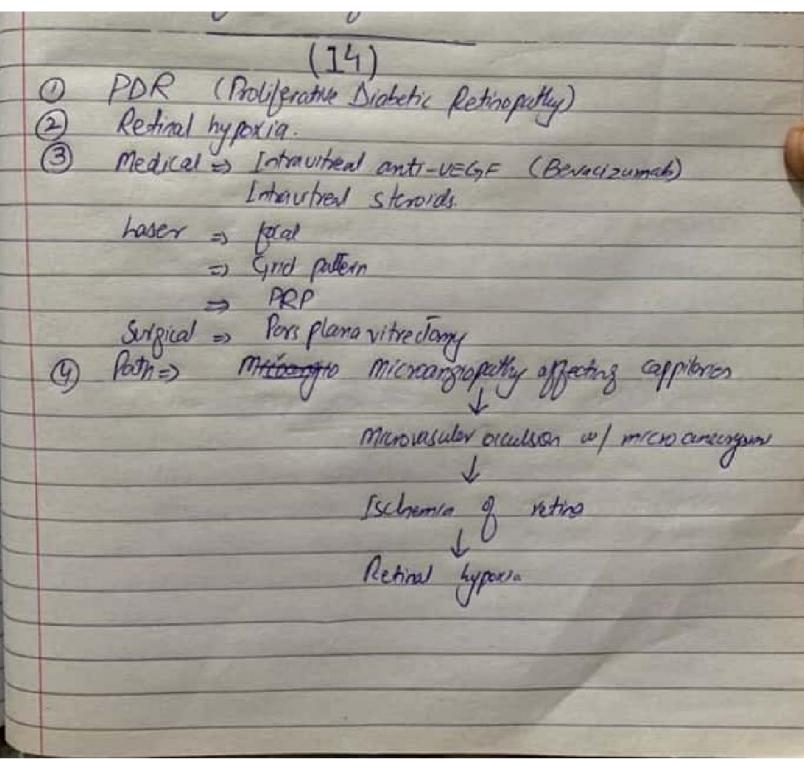


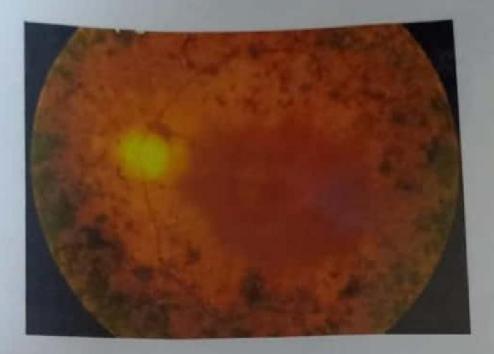


panretinal photocoagulation

This 55 years old female known diabetic for last 15 years was treated for his retinal problem.

a.	What is this treatment known as?	
b.	Name the retinal condition that led to this treatment?	1
c.	What other treatment modalities are available for this retinal disorder?	1
d.	What is pathogenesis of this condition?	1
		-

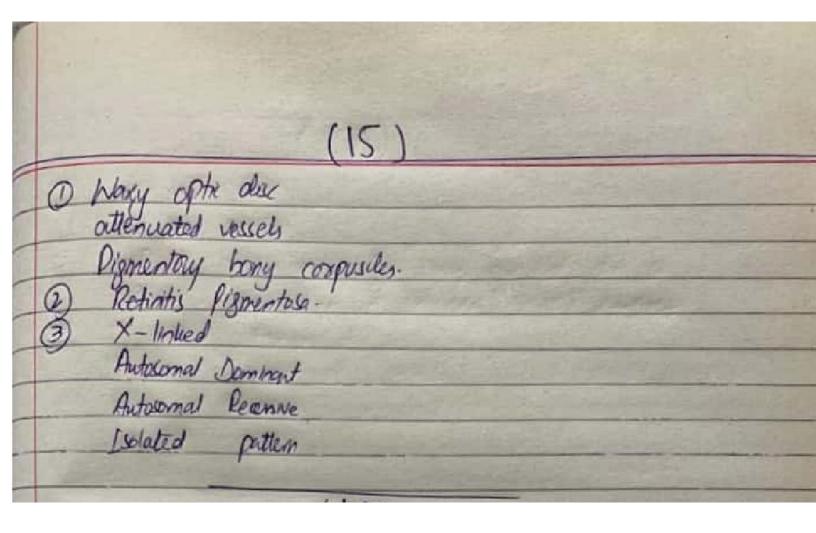




retinitis pigmentosa

A twenty year old boy presents with history of night blindness since early childhood. His fundus picture is shown above:

a.	What are three classical findings in this photograph?	2
b.	What is probable diagnosis?	1
c.	What is inheritance pattern of this disease?	2



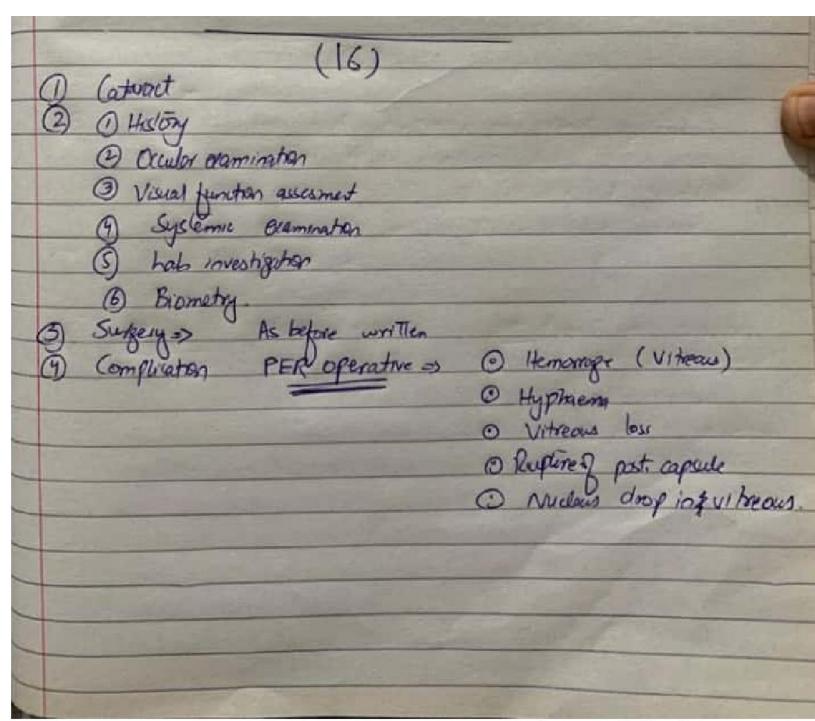


Ct2

cataract

This patient gives H/O gradual loss of vision in his Right eye for last 1 year

a	What is your diagnosis?	1
	How will you evaluate this patient for surgery?	2
c.	What surgical options are available for this particular	
	patient?	1
d.	Enumerate per operative complications that can occur	
	during eye surgery of this patient.	1



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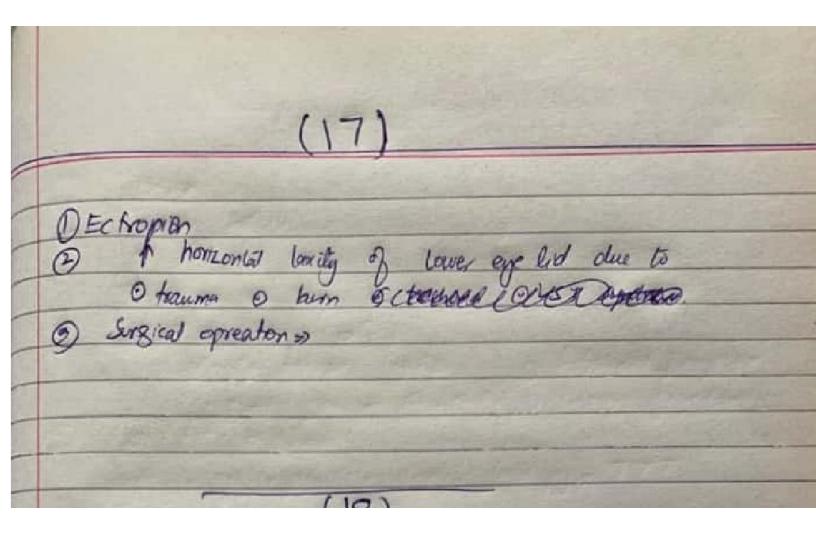


Ld4

ectropion

This old man presented in eye OPD with complaints of frequent watering from his eyes?

a. What is your diagnosis?	1
b. What is the underlying pathophysiology?	2
. Name any two surgical options you would use?	2





Conj1

ptrygium

This picture shows soft tissue growth encroaching upon the cornea of a patient for last 2 years.

a.	What is your diagnosis?	1
	What is pathogenesis of this condition?	1
	What complication can occur if it remains untreated?	1
	Give treatment options available for this patient?	2

(18)

Description

Sub-conjuctival hisuse undergo elastic degeneration

O Robitetative Proliferate as vasualonzed granulation

hisuse under epithelium which encroaches comes.

Deteogration of vision.

Deteogration of vision.

Singled of Simple existing

Topical should

Sunglasses

Ghomotic membros

Paff.



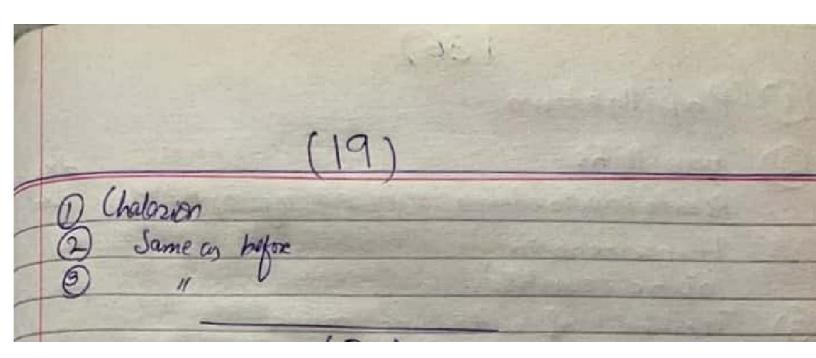


Ld 1

chalazion

This young boy presented in eye OPD with upper lid swelling well away from lid margin.

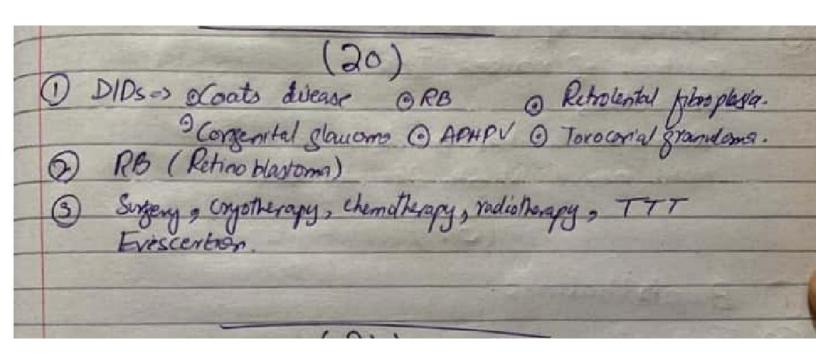
a.	What is your diagnosis?	1
b.	What other treatment options are available apart from s	urgica
	option?	2
C.	What type of incision would you prefer and why?	2





A mother brought her child with leucocoria (white opacity) in Right eye

a.	What is the differential diagnosis of leucocoria?	2
b.	What is the most common malignancy affecting	children
	before the age of three years?	1
c.	How will you manage this patient?	2





right esoptropia

- What are your findings?
- What is its pathogenesis?
- How you will treat this case

O Right exotropia.

(21)

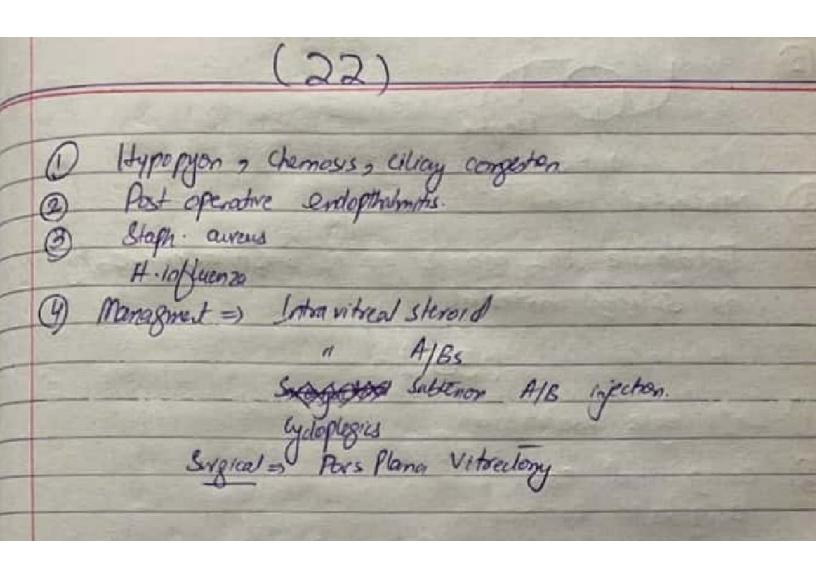


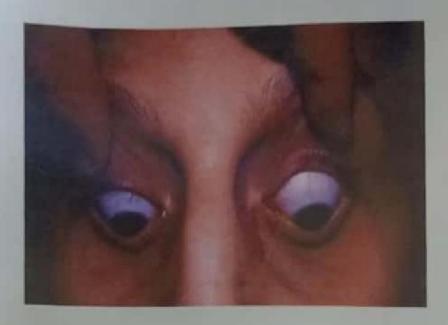
CT1

endophathalmitis

The patient had his cataract surgery done 3 days back came to Eye Emergency with severe pain & loss of vision in the operated eye.

a.	What more signs will you look for in this patient?	1
	What is your diagnosis?	
c.	Name 2 microorganisms responsible for the disease	-
d.	How will you manage this patient?	2

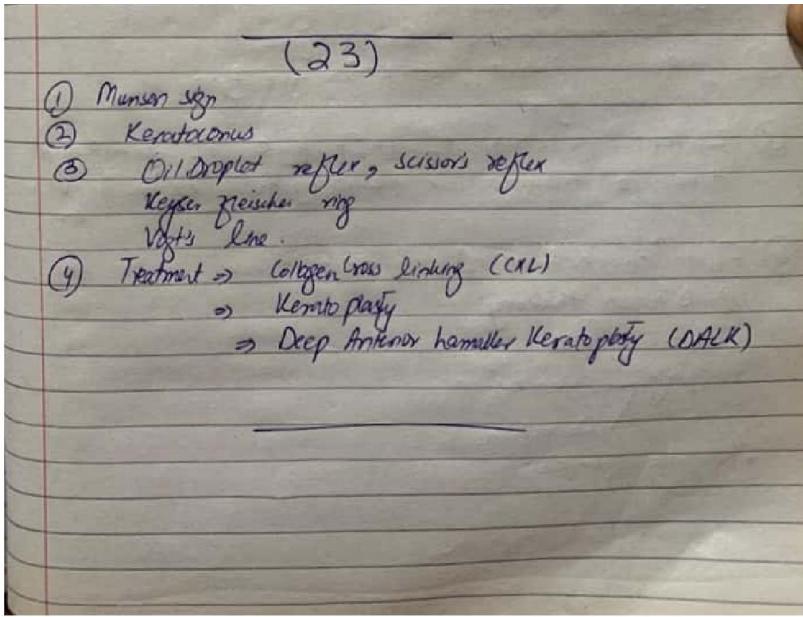




keratoconus(munson sign)

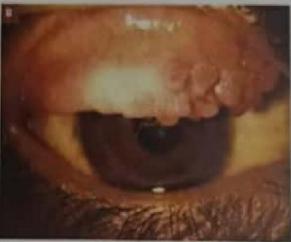
A 26 year old boy presents with decreased vision and frequent change of spectacles. On ophthalmic examination he has got irregular astigmatism:

a.	What sign is being shown in this picture?	1
b.	What is most likely diagnosis?	1
c.	What are other important signs of this disease?	
	What is the treatment of late stage of this disease?	-



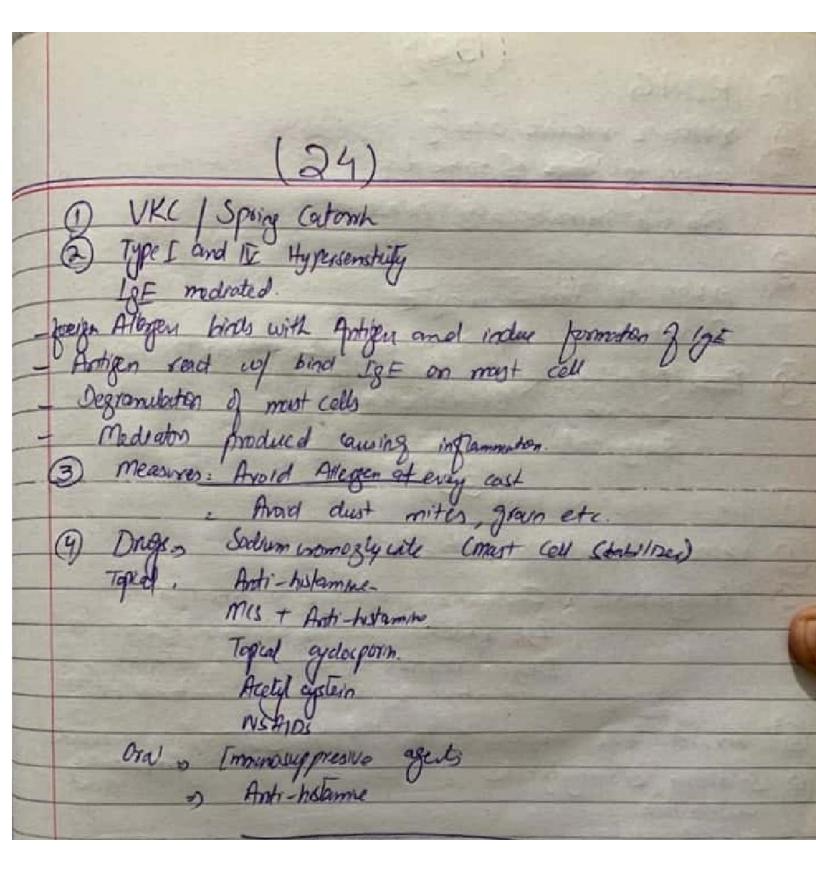
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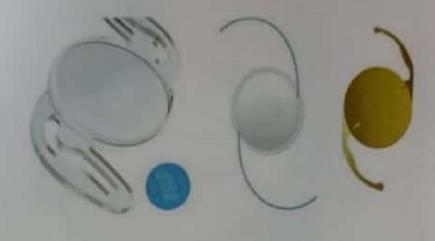




vernal keratoconjuctivitis

- · What is your diagnosis?
- What is its Pathogenesis?
- What measures you will advise patient to take care? (1.5)
- Enumerate drugs used to treat this condition.



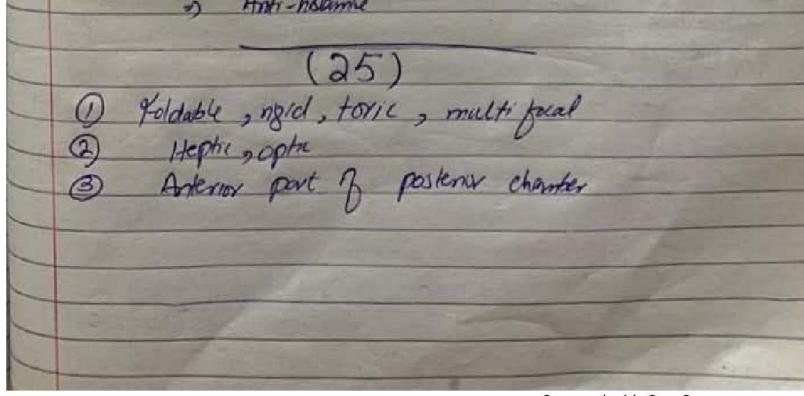


Ct3

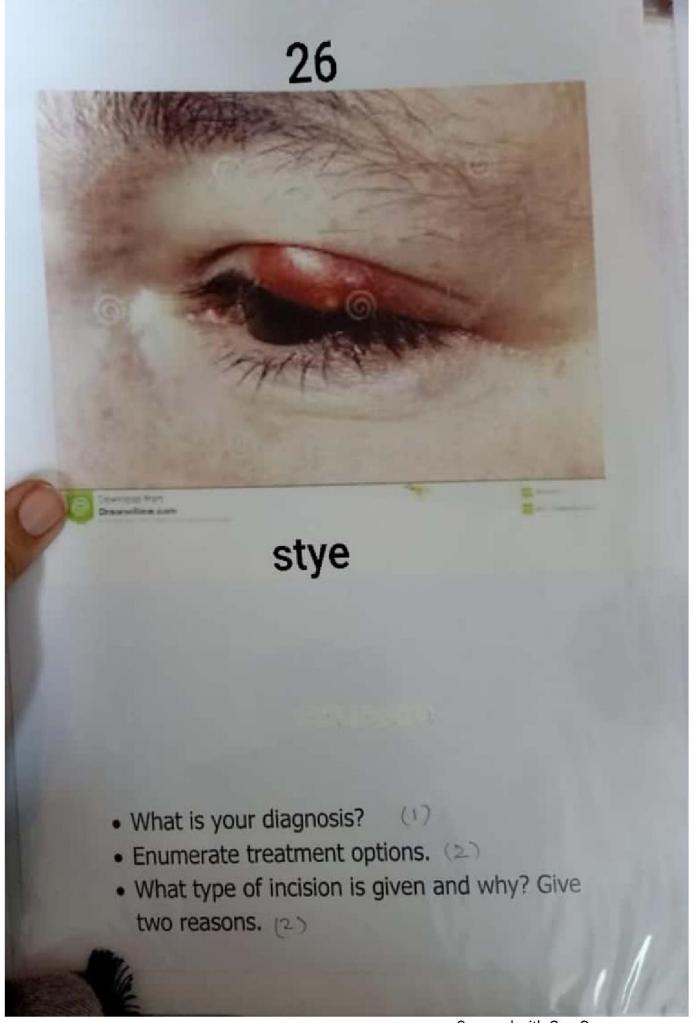
IOL

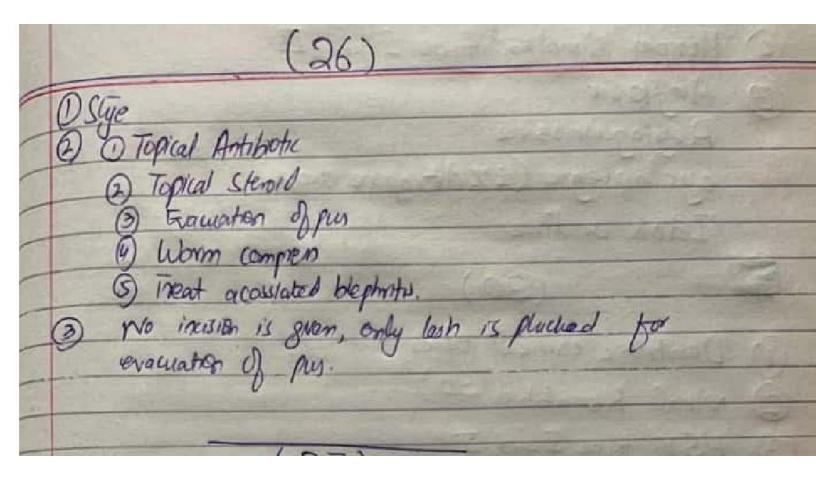
A patient has been advised cataract surgery with Intra Ocular Lens Implant (IOL)

a.	What are various types of IOL available?	2
b.	What are the different parts of IOL?	2
C.	Which is the best site to place the IOL?	1



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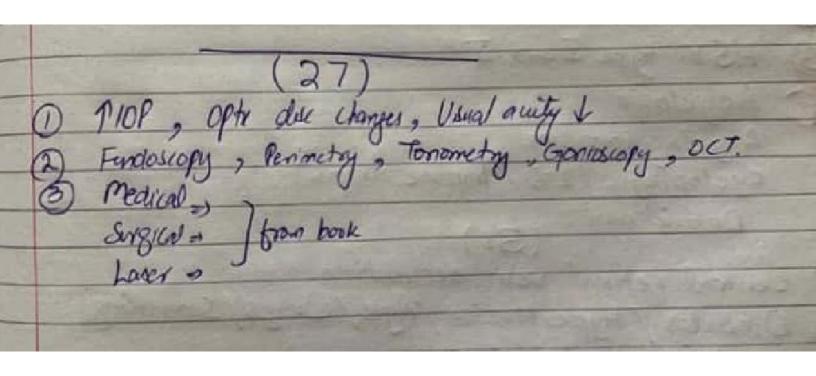






cupping of optic disc raised intraoccular pressure visual acuty dec

- What are your findings?
- What other investigations you will advise for diagnosis?
- What are medical options to treat this condition?



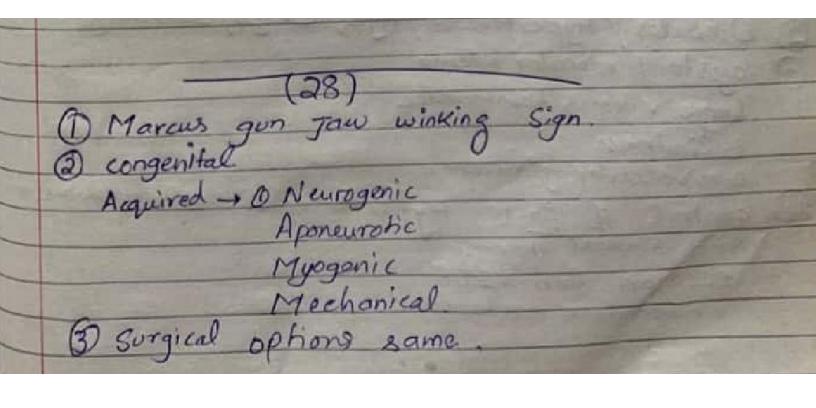


Ld5

marcus gun jaw winking ptosis

A mother brought child of 4 years of age with drooping of Right eyelid

- a. What is the typical sign visible in the picture above? 2
- b. How do you classify this disease?
- c. What are the surgical options available for treatment of this disease?

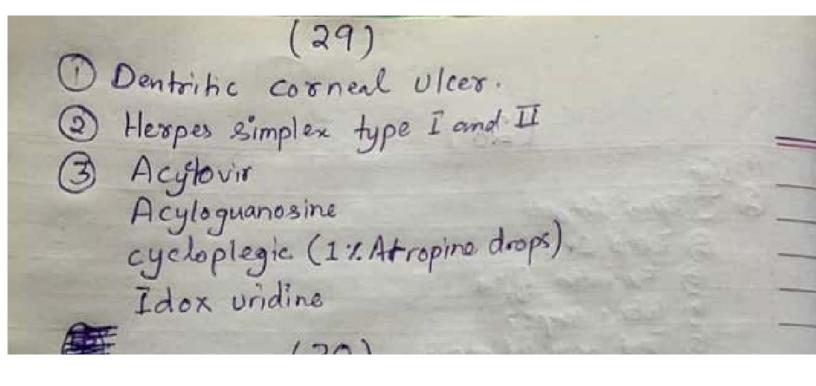




dendritic corneal ulcer

the corneal

- What is Lesion?
- What is most common cause of such findings?
- What are different drugs used to treat this condition?

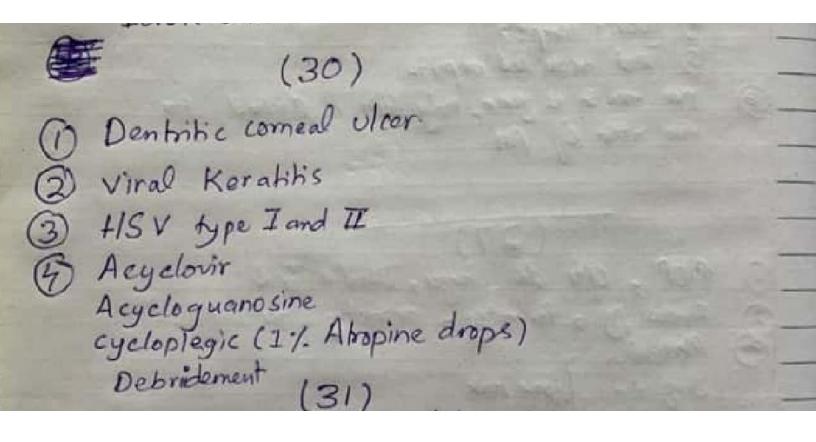


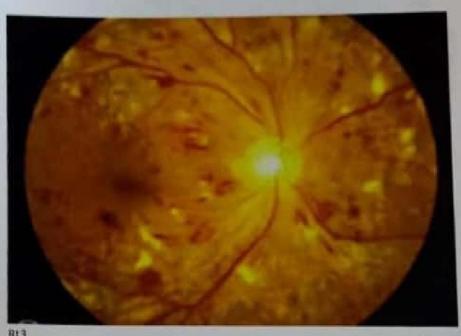


dendritic cornal ulcer

A 45 years old male presented in the OPD with a lesion on his right cornea. Flouresein staining is +ve

a.	What is this typical lesion known as?	1
b.	What is your diagnosis?	1
C.	Name risk factors responsible for reactivation of the disease.	1
d.	How will you manage this patient?	2





central retinal vein occulution

A 60 years old lady presented in the eye OPD with sudden painless loss of vision of his eye

a.	What is your diagnosis?	4
	What is the most common factors/ systemic disease	5
	responsible for this condition?	4
C.	Name two important complications of the disease.	Ì
d.	How will you manage this patient?	1

Debridement (31)

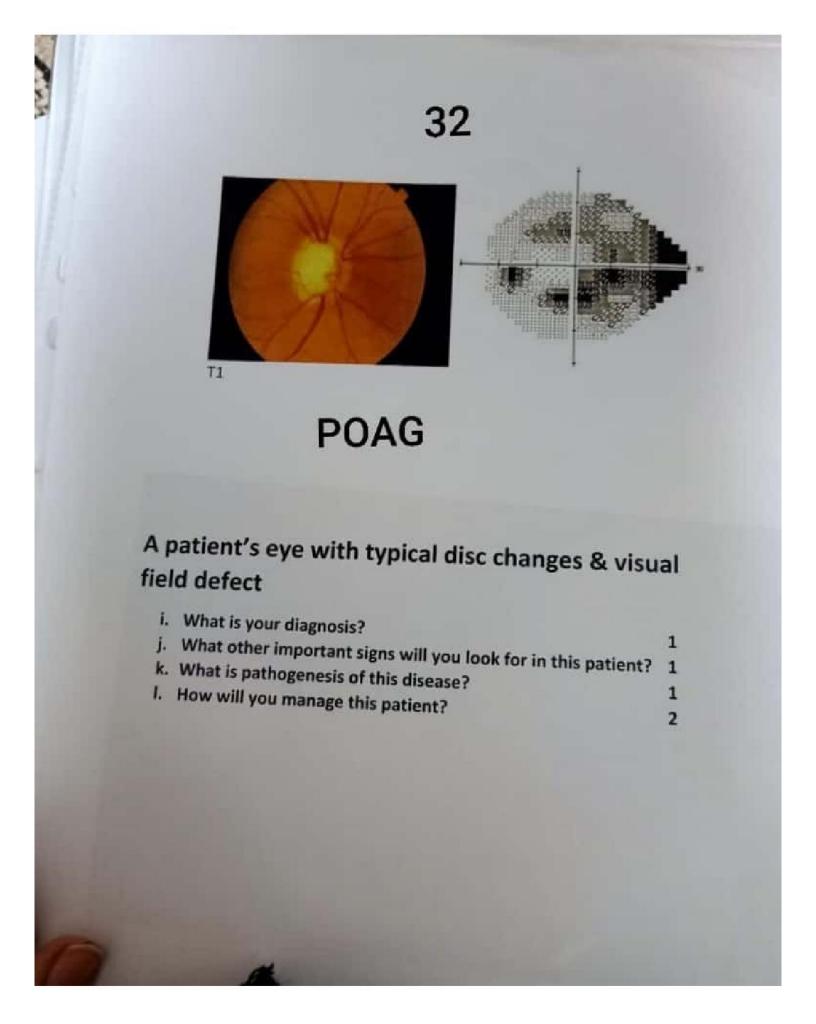
(Central retinal vein occulution.

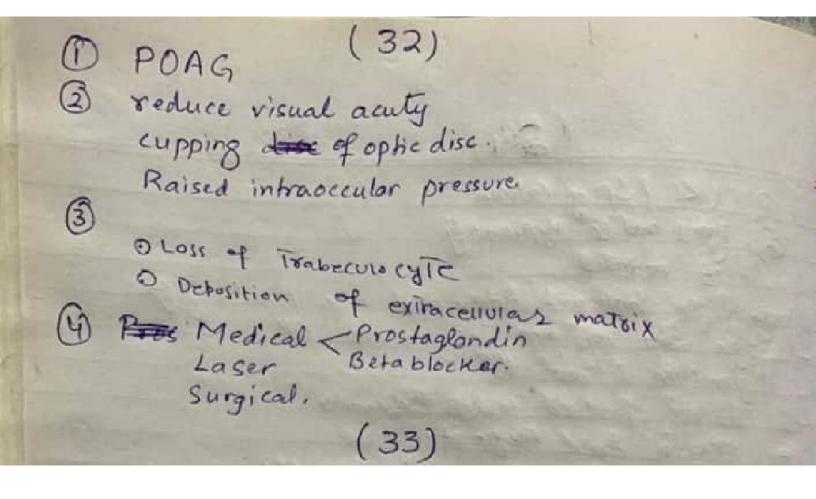
(Diebeles / Hypertension / Age / Orugs / Smooking.

(Constrol mocular odema

Large vitrous hammorhage

(Control of factor Hypertension, Diebeles medlitus, smoothing - Diebeles medlitus, smoothing







vernal keratoconjuctivitis

- What is your diagnosis?
- What is its pathogenesis?
- What measures you will advise patient to take care?
- Enumerate drugs used to treat this condition.

surgical.

(33)

1) Vernal Keratoconjuctivitis.

2) Pathogenesis: - Formation of IgE antibodies

IgE reaction on the Surface of most cell

Degranulation of most cell releasing

mediators eg Historning, Serotonin etc.

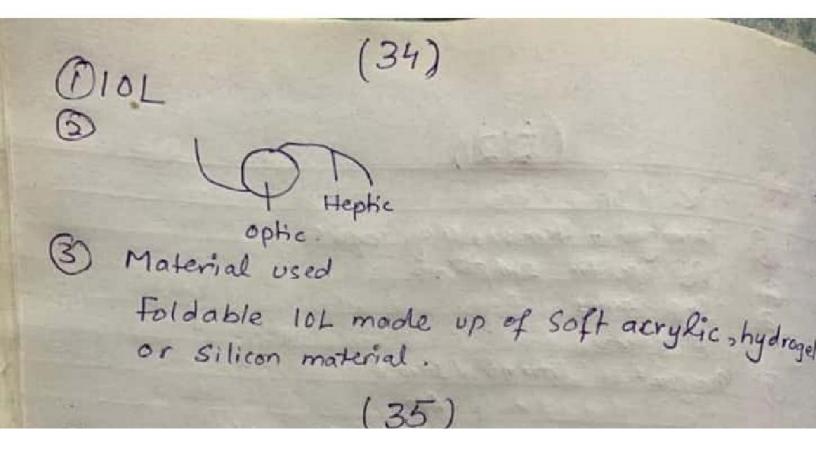
3) Avoid the emposure to allergen/hygiene/wash hards epinashine

Acetylcysteine Topical cyclospoin



IOL

- What is your diagnosis?
- Enumerate its parts.
- Enumerate different types of material used for such type of thing.





De1

left eye esotropia

This child presented in the eye OPD with C/O deviation of her eyes since birth.

e.	What is your diagnosis?	1
f.	How do you classify this disease?	1
g.	What is pathogenesis of this disease?	1
h.	How will you manage this patient?	2

(35)

1 Left eye esotropia

3 congental estropia Acquired esomopia

- Accommodative refractive type - Accommodative non-refractive type

- Mixed type.

3 Lateral rectus of Left eye is weakened due to traumo or neurological lession in Vinene 6th.

4) Full correction of refractive error Amblyopia therapy Bifocal glass Surgery Reccession
Resection

orthopic exercise



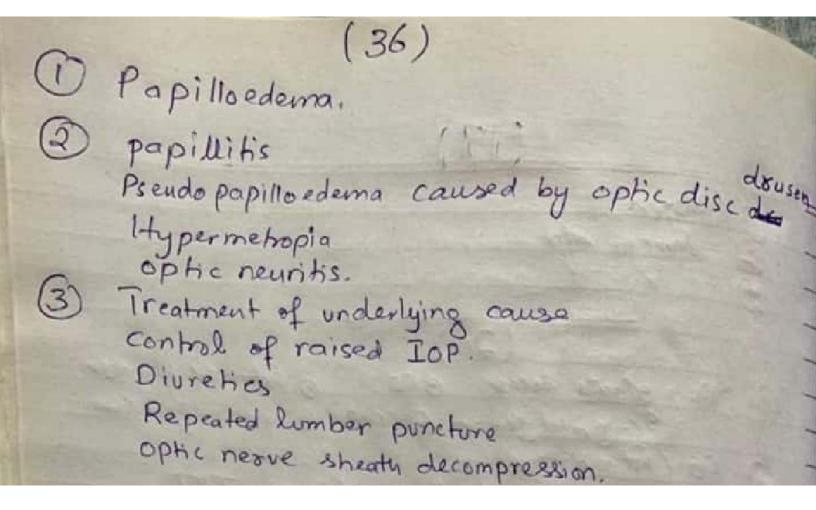


Op1

papilloedema

A patient presented in emergency with headache, nausea, vomiting and blurring of vision and above fundus picture.

a.	What is your diagnosis?	1
b.	What is the differential diagnosis?	2
c.	What is its immediate treatment?	2





buphathalmos

• What is your diagnosis? (1)

9

- How will you further investigate this condition? (2)
- What are surgical options to treat this condition?

(37)Buphthalmos 2) Tonometry Gonioscopy Fundo scopy Perimetry Imaging technique OCT altrasound biomicroscopy. 3 Ganistony Trabe culotomy Trabeculectomy Artificial Drainage short. Laser - Dioda laser cycloblation.