OSPE BLOCK M2 '24

MUST MENTION STATION NO.

AT EACH STATION, EYE DEPT.

SERIOUSLY MINDS IT

(ALSO, THE CLERK WAS SAYING THAT SOMEONE WAS TAKING PICS DURING THE PREPROFF OSPE (held on 13 Nov 2024), SO WE WILL CHANGE THE STATIONS IN FINAL EXAM, THOUGH SOME STATIONS LIKE CATARCT ETC ARE ALWAYS REPEATED. SO JUST IN CASE, DON'T RELY SOLELY ON THIS OSPE)



- MECHANISM OF ACTION - Anti chalinergic - ADVERSE EFFECTS So mydriasis - USES

- USES

Uses of Cyclopentolate in Ophthalmology

Cyclopentolate is a topical anticholinergic (parasympatholytic) drug used for:

- 1. Cycloplegic Refraction Temporary paralysis of the ciliary muscle to determine refractive errors, especially in children.
- 2. Mydriasis (Pupil Dilation) Used for fundus examination and retinal evaluation.
- 3. Uveitis Treatment Helps prevent posterior synechiae formation and relieves ciliary spasm, reducing pain.

Adverse Effects of Cyclopentolate

Ocular Side Effects:

- . Transient Stinging & Irritation
- . Blurred Vision (due to cycloplegia)
- · Photophobia (due to prolonged mydriasis)
- Increased Intraocular Pressure (IOP) Can precipitate acute angle-closure glaucoma in susceptible individuals.

- HISTORY TAKING; RED EYE.

- CONFRONTATION TEST

STATION NO:	

1. Identify the lenses given

(1.5)

- 2. In which conditions are these lenses used? (1.5)
- 3. What are different methods of lenses identification? (3)





Ways to identify

- Feeling the lens (tactile identification)
- Looking for presence or absence of distortion
- · Looking for movement of image through lens
- Looking for image size through lens

Tactile identification

- Convex lens is thicker at center and thinner at periphery
- Concave lens is thin at center and thick at periphery
- This method might not work for lower power of lens

Looking for distortion

- Make a cross and identify lens based on movement of image of the cross
- Spherical lens cause no distortion of cross
- Astigmatic lens (cylindrical lens) cause distortion of cross unless their axes coincide with the cross lines

Looking for movement of image

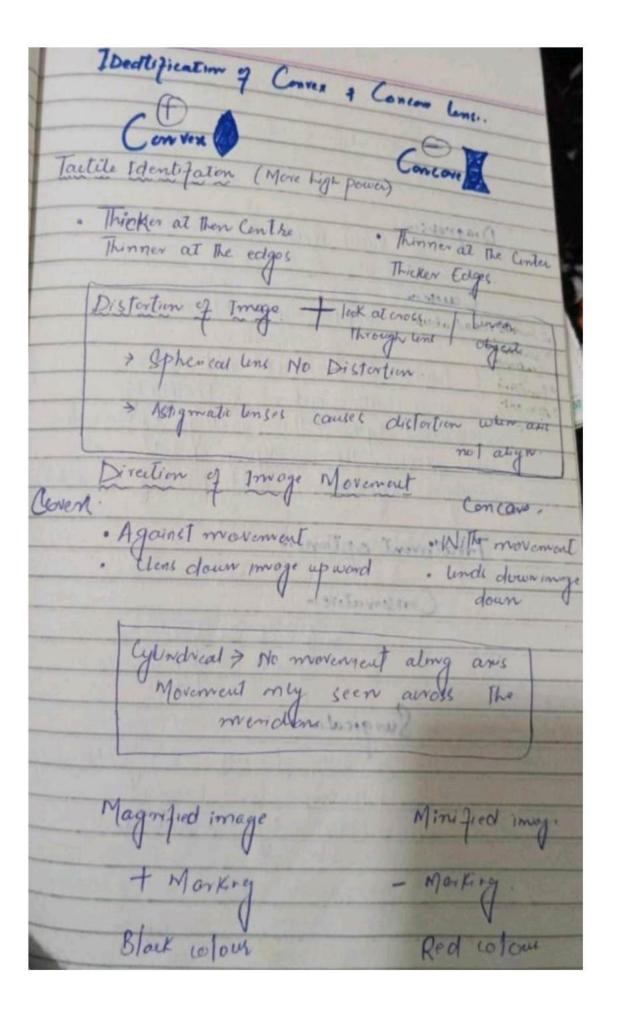
- when lens is moved from side to side and up and down along the arms of cross, the movement of cross is observed (seen in Spherical lens i.e. Convex and concave lens)
- Convex lens against movement
- · Concave lens with movement
- Cylindrical lens no movement along the axis of cylinder; movement is seen only across the meridian with power

Scissoring reflex - seen in cylindrical lens

Image size

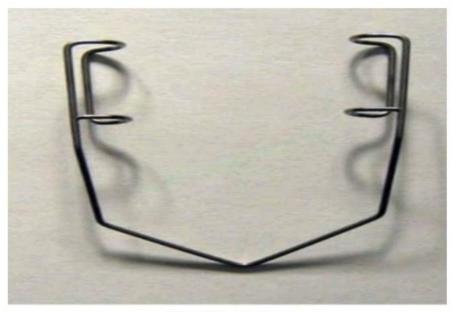
- Magnification convex lens
- Minification concave lens





<u>INSTRUMENTS</u>

(IDENTIFY AND MAIN USE)



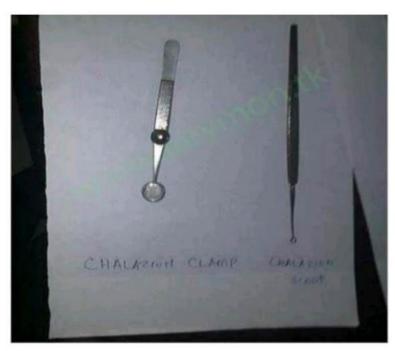
Wire Speculum Use: to keep lids apart



Squint hook
Use: to engage extra-ocular muscles during squint surgery and also



Chalazion Clamp Ise: Fix chalazion, achieve haemostasis during incision and drainage

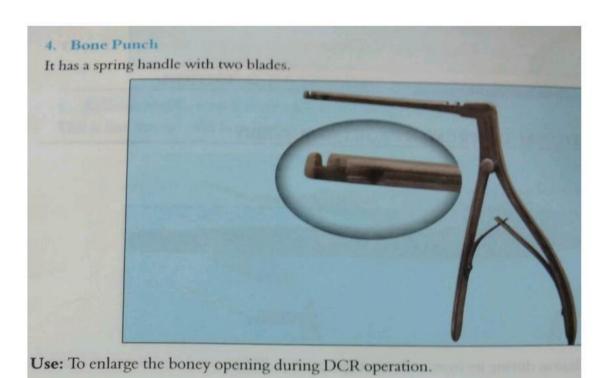


Chalazion Scoop (Right)
Use: Scoop out content of chalazion during surgery and curettage
Chalazion Clamp (Left)
Use: Fix chalazion, achieve haemostasis during incision and drainage



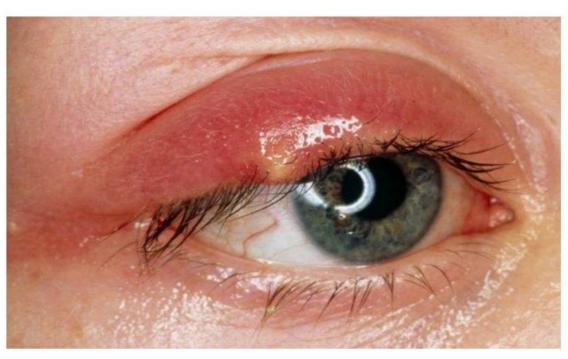


Irrigation and aspiration cannula (both above)
Use: Irrigation and suction of lens



STYE

PAINFUL SWELLING ON UPPER EYELID SINCE 3 DAYS



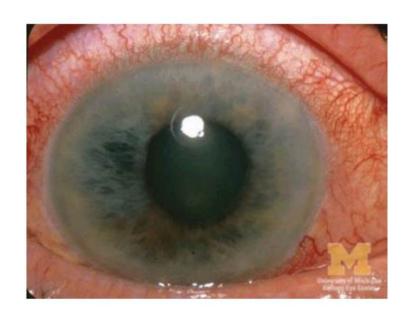
- DIAGNOSIS -> Hordoleum externum (stye)
- DIFFERENTIAL DIAGNOSIS Hordoleum
- TREATMENT

Secondary infected chalacion

Hordoleum Externum (Styc) /
Analgesics -> Relief of Pain
Systemic antibiotics
Topical antibiotics
Warm compresses
Evacuation of pus

ACUTE ANGLE CLOSURE GLAUCOMA

A 35 years old female presented with sudden, severe, painful loss of vision after watching TV in the dark.



- FINDINGS IN THE PIC
 - DIAGNOSIS
- IMPORTANT INVESTIGATIONS

Gonioscopy
Fundoscopy
Perimetry

<u>BLEPHARITIS</u>

Ulcerative Blepharitis



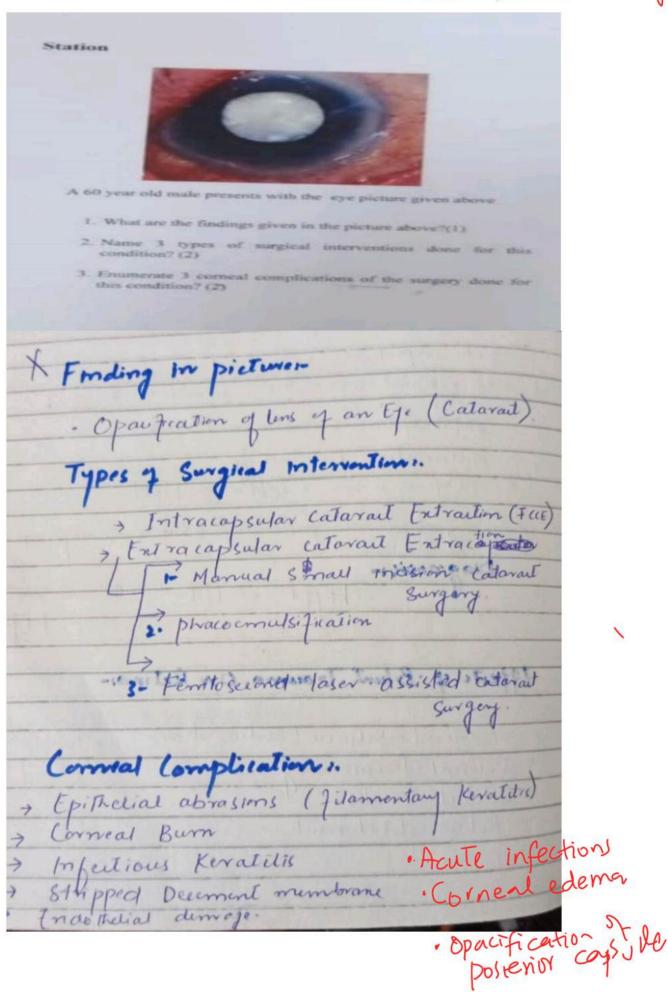
· inflamed swollen lid margin · Dried pus (crust) · Matted Lashes

- FINDINGS IN THE PIC

- D/Ds - eyelid margin tumor - Contact dermatitis

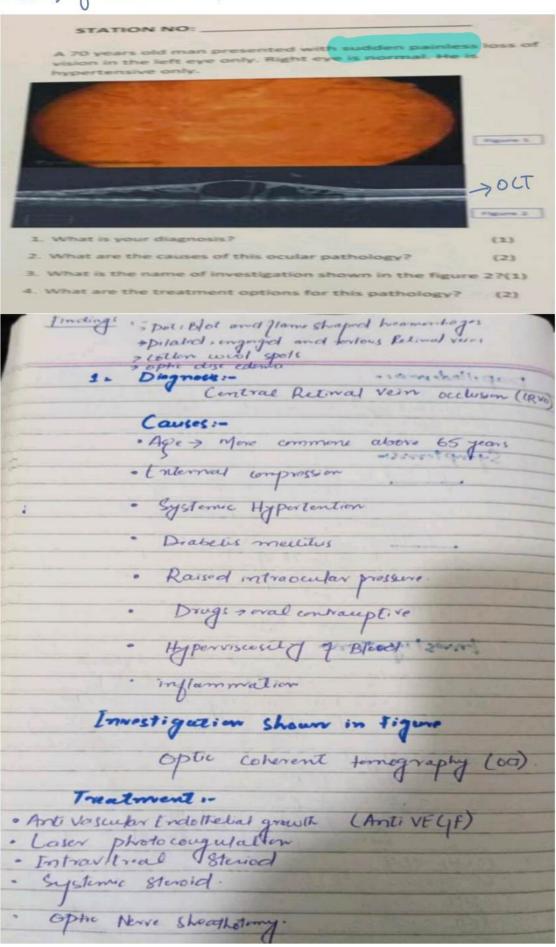
- TREATMENT

Eyelid Hygeine Antibiotic ointment Topical steroids Artificial Tears oral Antibiotics



CRVO -> Sudden painless Diabetic -> gradual + pain

CRVO -> Tomato Splashed Appearance



CENTRAL RENTINAL VEIN OCCLUSION

Ischemic

· Less common

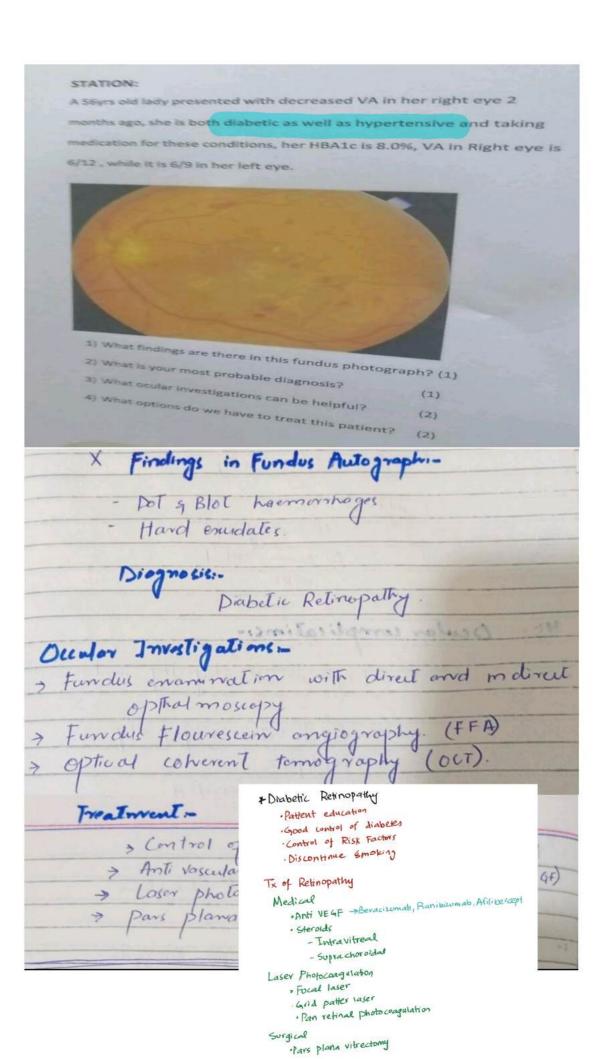
• Severe visual loss (usually < 6/60)

• Sudden – painless

• SIGNS: All are Severe



findings = poliblot and flame shaped heamenhages +pilated, engaged and torious Retired vers > cotton will spots > option distinction
SYSTEMIC:
Age: Increasing age – {6th –7th decades } Diabetes / B.P Blood dyscrasia: Hyper viscosity – chronic leukemia, Polycythemia, Changes in plasma proteins – macroglobulinaemia, Sickle cells disease –BRVO
❖If bilateral CRVO – check for blood dyscrasia
Drugs – Oral contraceptives
OCULAR:
Raised IOP
Hyperopia
Congenital anomaly of CRV – usually young pts
Periphlebitis – Sarcoidosis, Behcet's disease, retinal vasculitis
Trauma
Investigation Shown in Figure
Optic Coherent tomography (00).
Treatment :-
· Arti Vascular Endottelial growth (Anti VEGF) · Laser photocougulation · Intravitral Steriod
· Laser photocougulation
· Intravitred V Steriod
- Systemic steroid.
· Optic Nerve Sheatholony.



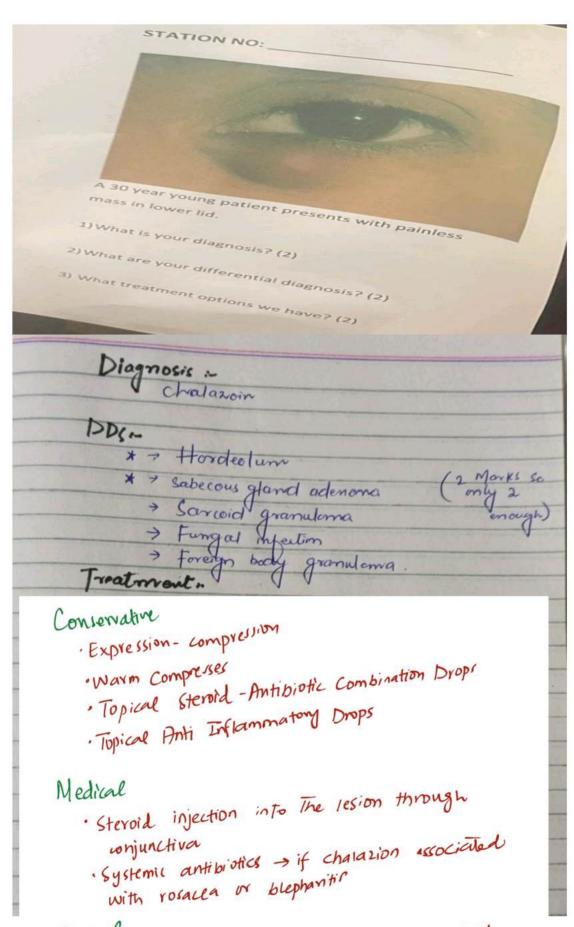


- 1. What findings do you see in this photograph?
- 2. What are your primary concerns in this eye?
- 3. Is there any risk to the fellow eye?
- 4. How are you going to treat this eye?

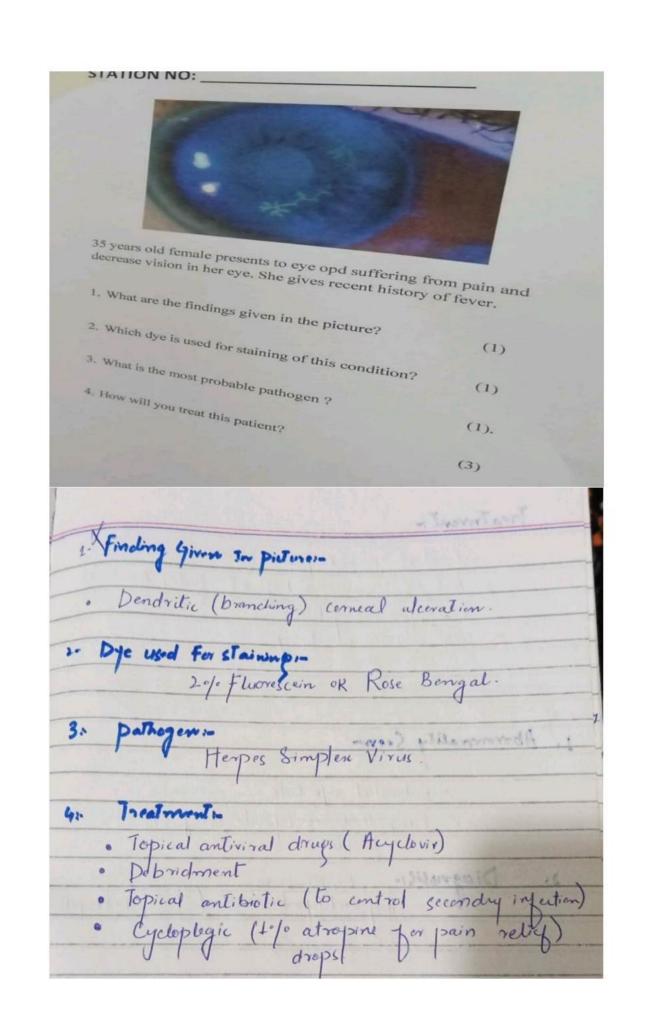
STATION: OGI WITH UVEAL PROLAPSE

Key

- 1.OGI (Scleral laceration with uveal tissue prolapse and distorted pupil)-----1.5
- 2.
- a) Reduce pain------o.5/each (Max 1.5)
- b) Reduce inflammation
- c) Prevent infection
- d) Exclude IOFBs and so its related complications.
- e) Restore anatomical integrity (globe repair)
- 3. Sympathetic ophthalmia----- 1.0
- 4. Prepare for GA, Antibiotics, Anti inflammatory ----- drugs, Globe repair after excluding IOFBs ------ 1.0



Surgical . Lesion is incited and contents on corelled



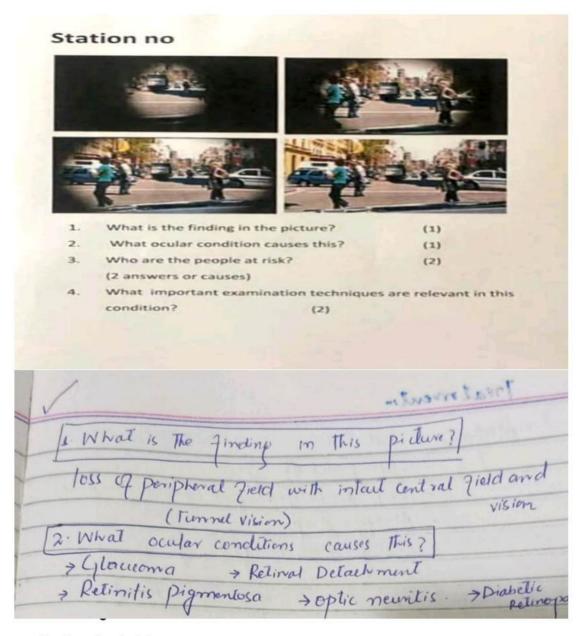


A 50 year old girl presents with bulging of the globes for last 6 months along with sweaty palms, palpitations.



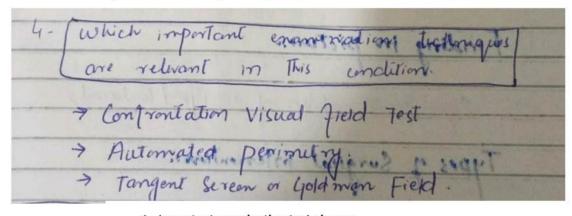
- what relevant investigation will you advise? (2)
- 4. what ocular complications are associated with it? (2)

1. Abromatity Seem > Retraited eye vids > tropothaling. (protructing typeballs) proptosis 3- Investigations HyperThyroclismis Serlim Tsithsus & Ty Cevels Occular :-Deular complications :-41.



3. People at risk:

- Elderly individuals (as glaucoma is more common with aging).
- · People with a family history of glaucoma or retinal degenerative diseases.



4. Important examination techniques:

- · Visual field testing (perimetry) to assess peripheral vision loss.
- Intraocular pressure measurement (tonometry) to check for increased eye
 pressure, a key risk factor for glaucoma.

Station



A young patient following trauma presents to eye opd

- 1. what is the diagnosis? (2)
- 2. what are the different effects of blunt trauma on retina? (2)

what are the treatment options in this case? (1)

Diagnosis:

. Hypheama (Blood in the onte nor)
. chamber of Eye

Effect of Blunt Trauma on Retinais

- Commotio Retinae (Berlin edema) > telema of Retinal
 Retinal haemannagar i vasoparalysis
- Relival broaks.
- Retinal debehowent

Treatment-

Medical > . Bad Rest

- · Eye patchine.

 · Anti Jibrinolytic agent (Transsamicacid)

 · Atropire drops.

 · Anti glaucoma drugs.

Surgical paracentesis of anterior chamber to woshout Blood.

STATION NO:_

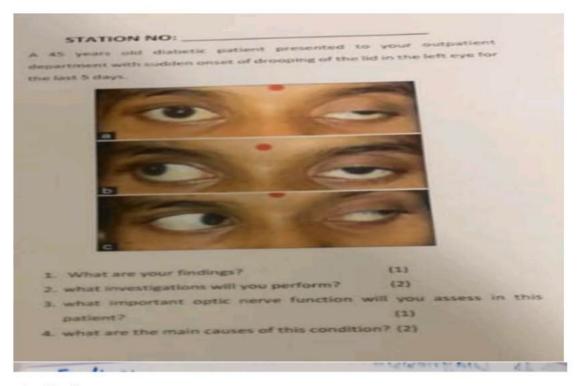
45 years old diabetic patient presented to your outpatier e last 5 days



What are your findings?

- what investigations will you perform?
- ill you assess in this what important optic nerve function £23

C > Abdution is normal Investigation -· Blood pressure cheekup · CBC 9 FSR. · Blood Sugar · CI sean . MRI · Cerebral Angio graphy Important Herre 1-Oculomotor Herre (CHIII) - Causes -· Vascular > Hypertension, Diabetis, aneurysm.
· Heurological > Congrutal CHI palsy, space occup
· Trauma , injection [inflammation



1. Findings:

- Left-sided ptosis (drooping eyelid).
- Impaired movement of the left eye, with down and out positioning.
- · Pupil appears normal or possibly dilated.
- Suggestive of left third cranial nerve (oculomotor nerve) palsy.

2. Investigations:

- Blood sugar levels & HbA1c (to assess diabetes control, as the patient is diabetic).
- MRI or CT scan of the brain (to rule out compressive causes like aneurysm, stroke, or tumor).

3. Important optic nerve function to assess:

 Pupillary reaction (to light and accommodation). If the pupil is involved (dilated and non-reactive), it suggests a compressive lesion like an aneurysm.

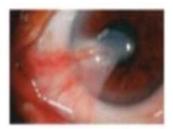
4. Main causes of this condition:

- **Diabetic neuropathy** (common cause of microvascular ischemic cranial nerve palsy in diabetics).
- Posterior communicating artery aneurysm (must be ruled out, as it can cause a life-threatening compressive third nerve palsy).

STATION NO:	
A 30 year old male presents with redness complains of the fleshy mass.	in one eye and
1. what is the diagnosis?	(1)
2. what are the common problems rep	orted with this
condition?	(2)
3. what are the treatment options?	(3)

Image 26

26. A pt. from Gujrat presented with the condition shown in the image and tell that he got excision of this 2 times in past. What is this condition known as and what is best management?



- · Image shows pterygium which is a wing shaped growth of the conjunctiva over the cornea.
- · Very high recurrence rate.
- · Occurs in dry dusty desert climate like of Rajasthan, Gujrat .
- · Best management is pterygium excision with conjunctival autograft (from the opposite eye) least reoccurrence



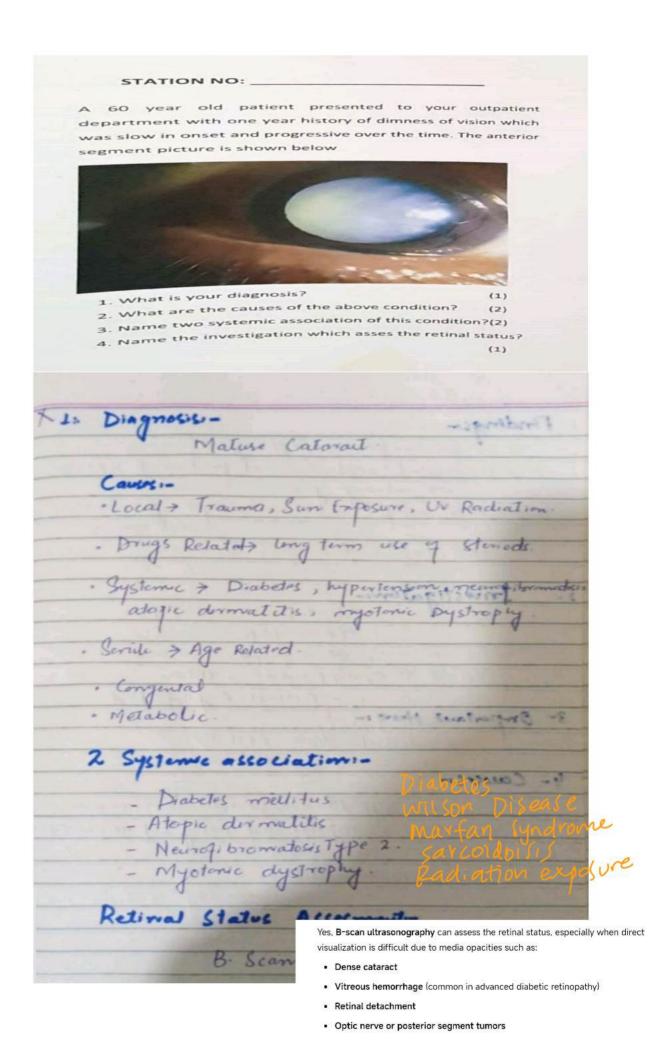
- 1. What clinical finding is seen in this photograph?
- 2. What is the most probable diagnosis?
- 3. What will be the complaint of the patient?
- 4. What will be your treatment plan?

Rosetto (flower) Straped operaction Diagnosis:-Traumatic Cataract Complains:- Blurred vision > Redness & pain (Acute trauma)

> Difficulty | vision at right

> Halos around light

> Light & glave sensitivity Treatment plans:Catavail Surgery > Frivation



While **B-scan** is not the first-line investigation for retinal assessment in a clear media, it is very useful when the **fundus cannot be visualized with ophthalmoscopy or OCT**.

1 findings
2 likely diagnosis
3 investigations
4 risk factors for this
condition
5 treatment

Secret Also aminor
Similings -
> Conjunctival congestion
> Hoppyon in Anterior chamber
> Hazy cornea
Diagnosis - Endophillalmitis
Occulor Involting at some
·B Scan - Stit trop trammation
10CT > Aggrous human aspiration
ochc 5 culture
· CRP > Diagnostic Viterestory.
ovitieous trap
of Common Rick Factorin
Gran - trogenous infections
Stain > tool genous infections
and re = post operative France
The Contambation of
- 1 " reducial Serie Lation of operation file
- Retained lens produits glagments
· pour wound integrity.
Treatment:
- Intravilreal Antibiotics
- Antener Subtenon antibiotic Injections
- Topical Antibiotics
- topical Steroids
- cycloptegic (1% Atopine)
- Systemic Antibiotics
- pars plana vitrectomy.

SOME IMPORTANT STUFF:

- Pupil examination
- Extraocular muscle movements
- Cover uncover test
- Hirschberg test
- Testing visual acuity
- DIRECT OPTHALMOSCOPY; parts, procedure

S.No	Components	Component	Award score
	Meet, greet and consent	0.5	
2	Inspection of eye, neck, chest and hand	1	
	Pupil size, shape centration	1.	
	Heterochromia	0.5	
5.	Pupillary - reflexes		
	a) Light respepupil exam b) Consensual response	ination pro	per steps
	Accommodation response	2	
	Swinging flashlight test	THE RESERVE TO SERVE THE PARTY OF THE PARTY	

Station Title: EXAMINATION OF THE PUPILS

Roll No	9582	9583	9584	9585	9586
Introduces himself and asks for patients consent. (Total Marks 0.25)					
Comments on the light and asks for it to be dimmed. (Total Marks 0.25)					
Asks the patient to fix on distant object and Comments on size of pupil without shining the light. (Total Marks 0.5)					
Checks Direct Light Reflex first (Total Marks 1)					
Checks Consensual Reflex. (Total Marks 1)					
Performs swinging light test. (Total Marks 1)		,			
Correctly localises the eye with RAPD.(Total Marks 1) TOTAL MARKS	flex				