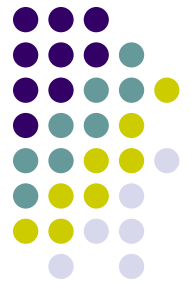
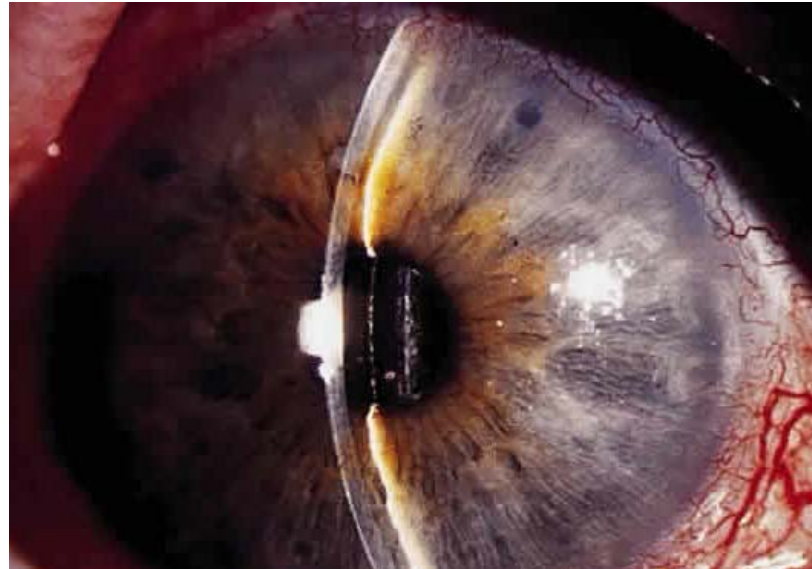


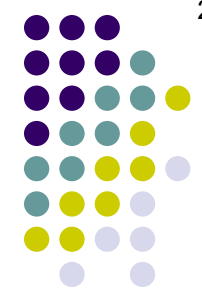
Shallow Anterior Chamber After Cataract Surgery



Shallow/flat AC after CE
(early post-op period)

Re shallow AC after CE: What is our chief concern, ie, what do we want to keep from occurring?



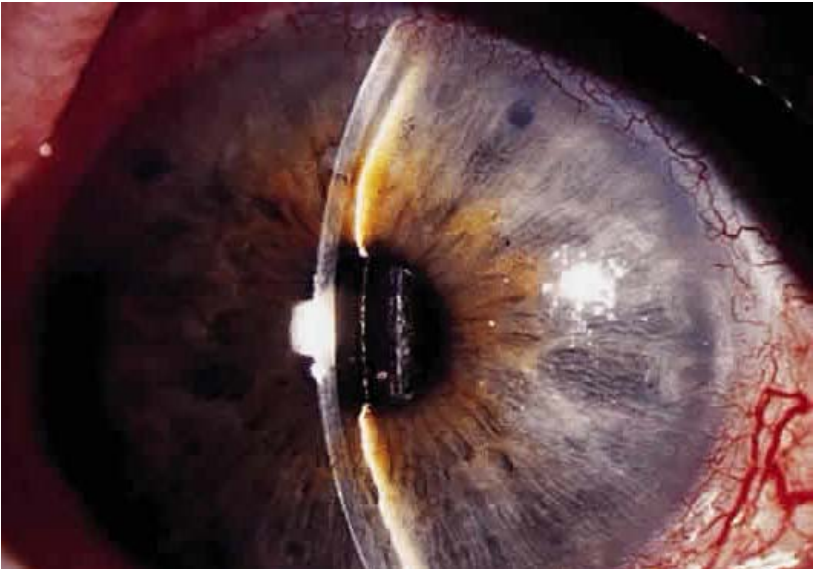


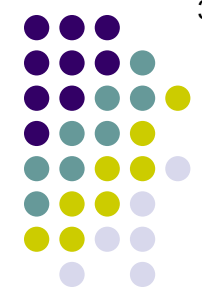
Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)

Re shallow AC after CE: What is our chief concern, ie, what do we want to keep from occurring?

We want to avoid touch and touch

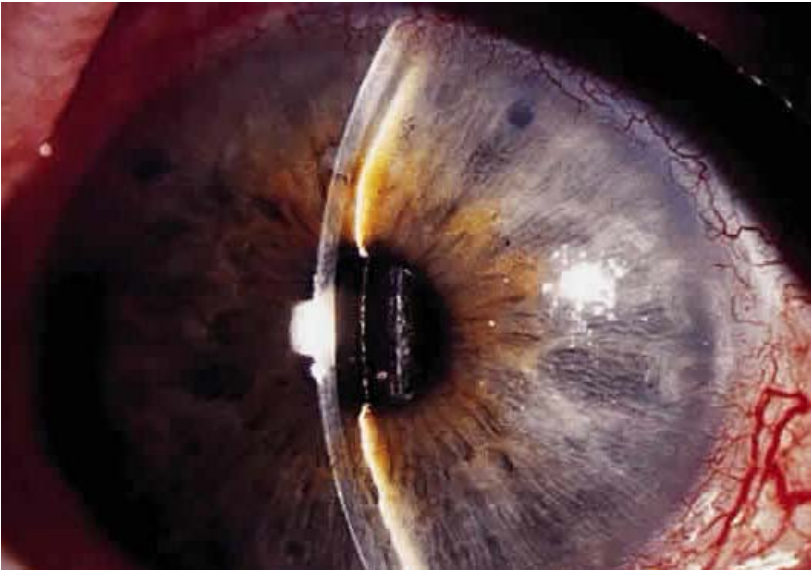




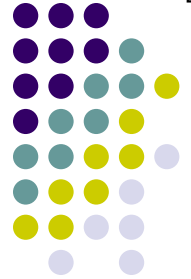
Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)

Re shallow AC after CE: What is our chief concern, ie, what do we want to keep from occurring?
We want to avoid cornea-iris touch and cornea-IOL touch



Shallow Anterior Chamber After Cataract Surgery



Shallow/flat AC after CE
(early post-op period)

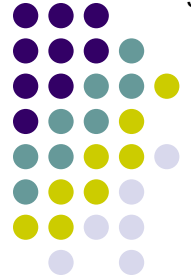
Re shallow AC after CE: What is our chief concern, ie, what do we want to keep from occurring?

We want to avoid **cornea-iris touch** and cornea-IOL touch



What dreaded complication can result from prolonged cornea-iris touch?

Shallow Anterior Chamber After Cataract Surgery



Shallow/flat AC after CE
(early post-op period)

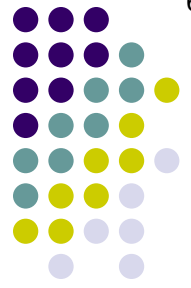
Re shallow AC after CE: What is our chief concern, ie, what do we want to keep from occurring?

We want to avoid **cornea-iris touch** and cornea-IOL touch



What dreaded complication can result from prolonged cornea-iris touch?

Peripheral anterior synechiae (PAS)

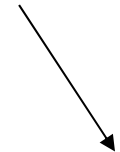


Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)

Re shallow AC after CE: What is our chief concern, ie, what do we want to keep from occurring?

We want to avoid **cornea-iris touch** and **cornea-IOL touch**

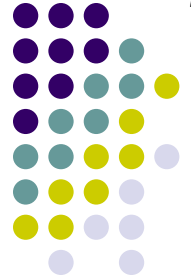


What dreaded complication can result from prolonged cornea-iris touch?

Peripheral anterior synechiae (PAS)

What dreaded complication can result from prolonged cornea-IOL touch?

Shallow Anterior Chamber After Cataract Surgery



Shallow/flat AC after CE
(early post-op period)

Re shallow AC after CE: What is our chief concern, ie, what do we want to keep from occurring?

We want to avoid **cornea-iris touch** and **cornea-IOL touch**

What dreaded complication can result from prolonged cornea-iris touch?

Peripheral anterior synechiae (PAS)

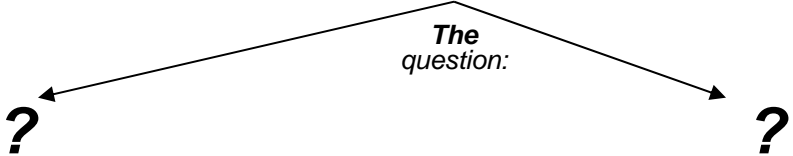
What dreaded complication can result from prolonged cornea-IOL touch?

K endothelium decompensation resulting in intractable corneal edema



Shallow Anterior Chamber After Cataract Surgery

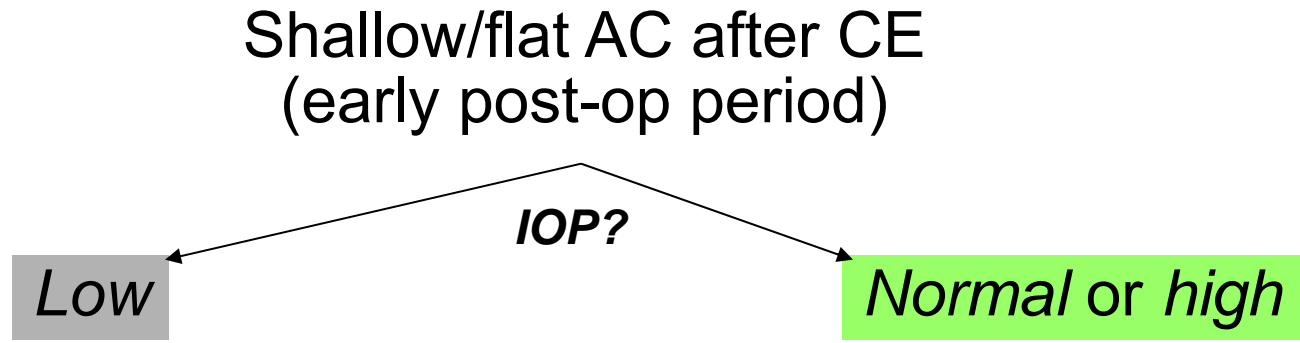
Shallow/flat AC after CE
(early post-op period)



When faced with a flat anterior chamber in the immediate post-CE period, your DDx is determined by the answer to one key question:

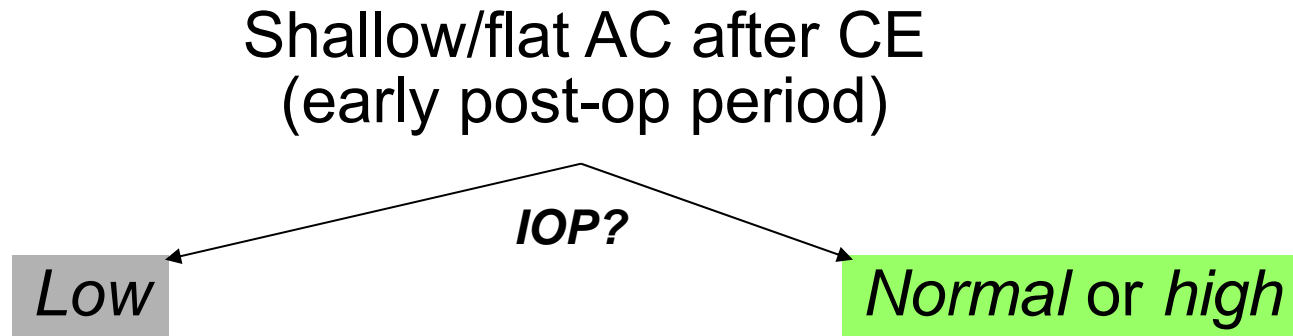


Shallow Anterior Chamber After Cataract Surgery



When faced with a flat anterior chamber in the immediate post-CE period, your DDx is determined by the answer to one key question:
Is the IOP low, or normal/high?

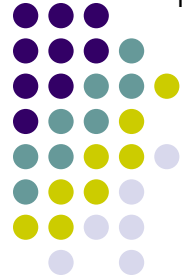
Shallow Anterior Chamber After Cataract Surgery



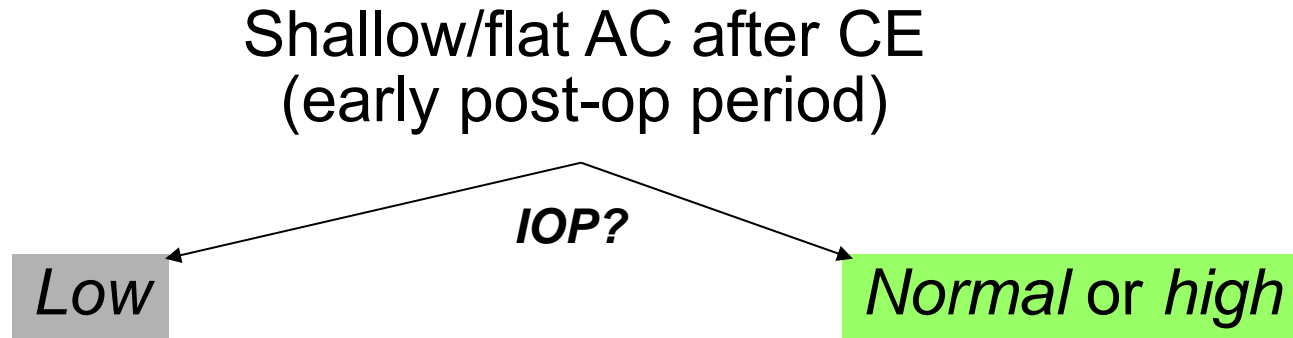
When faced with a flat anterior chamber in the immediate post-CE period, your DDx is determined by the answer to one key question:

*Is the **IOP low**, or normal/high?*

How low is low, ie, at what IOP should push us to this side of the DDx?



Shallow Anterior Chamber After Cataract Surgery



When faced with a flat anterior chamber in the immediate post-CE period, your DDx is determined by the answer to one key question:

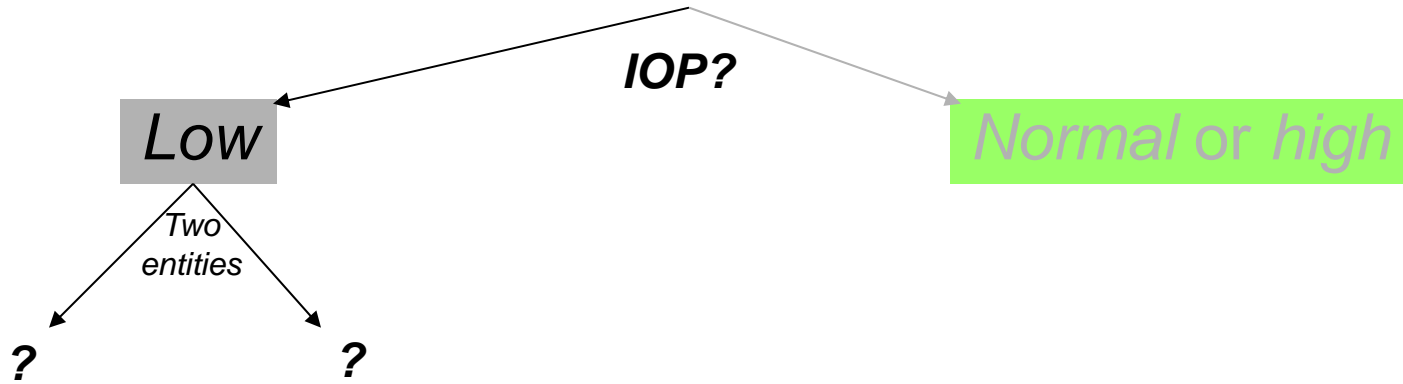
*Is the **IOP low**, or normal/high?*

*How low is low, ie, at what IOP should
push us to this side of the DDx?
Less than 10*



Shallow Anterior Chamber After Cataract Surgery

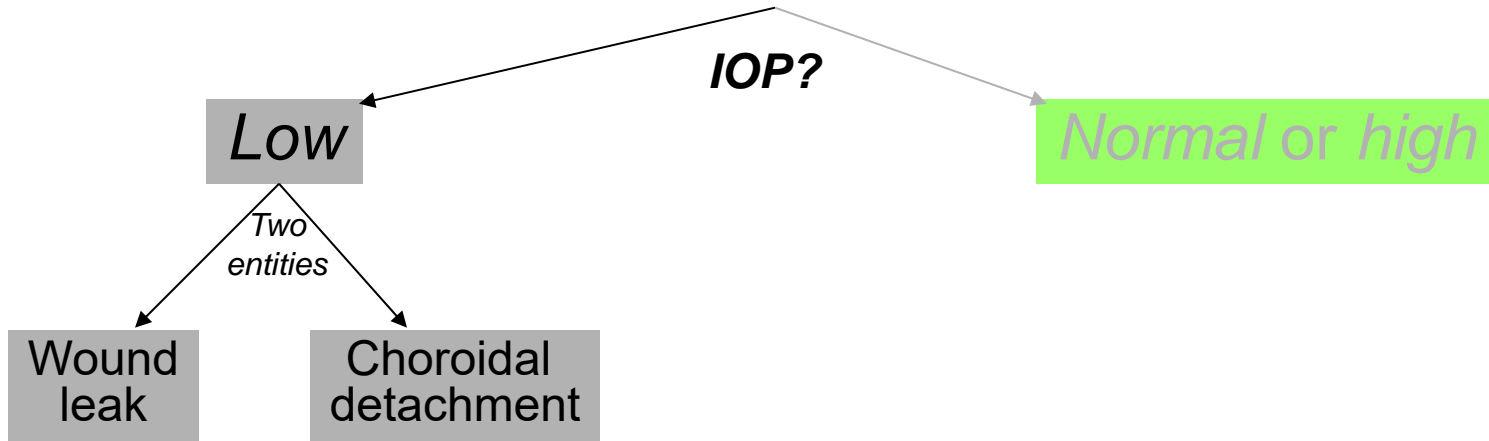
Shallow/flat AC after CE
(early post-op period)





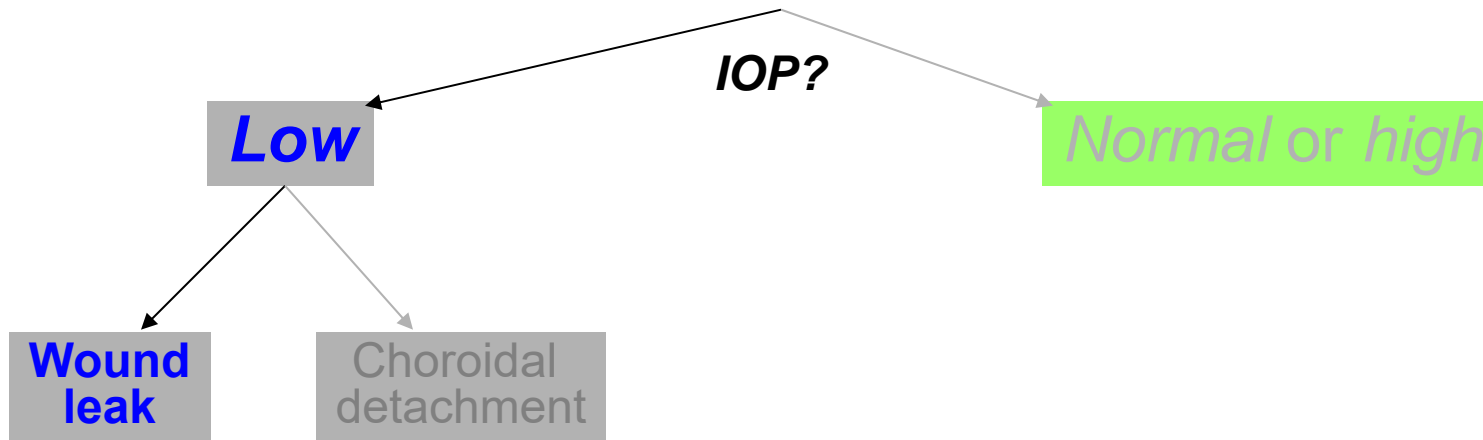
Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
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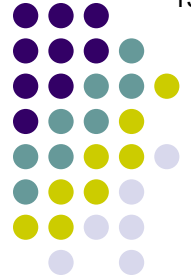


Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)

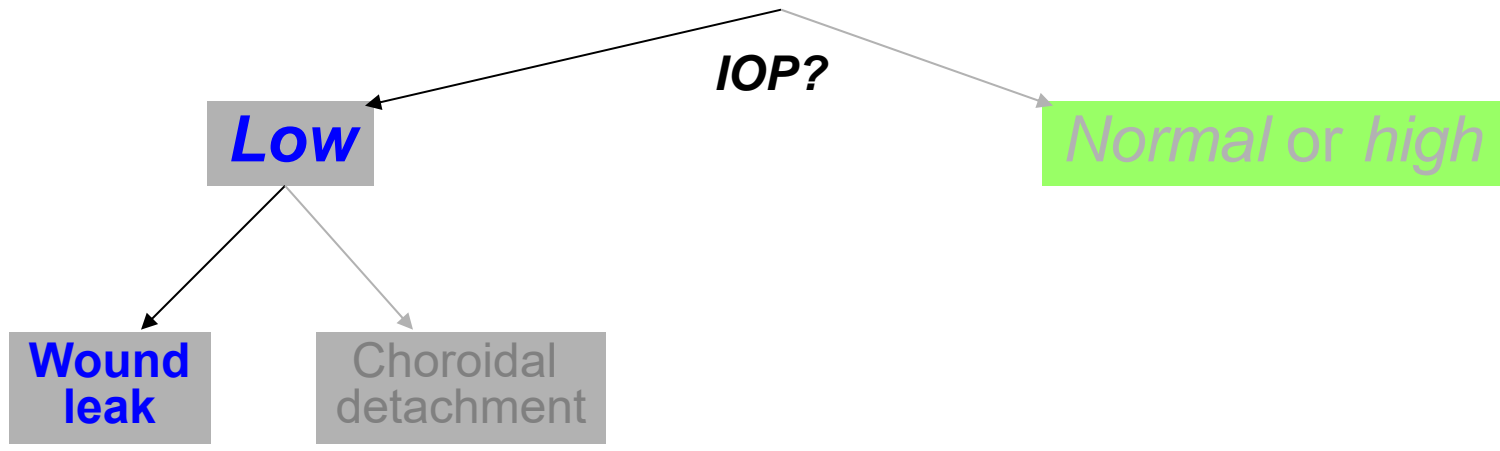


How is a wound leak diagnosed?

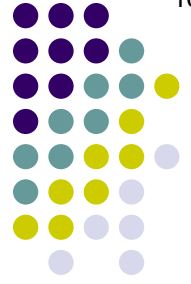


Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)

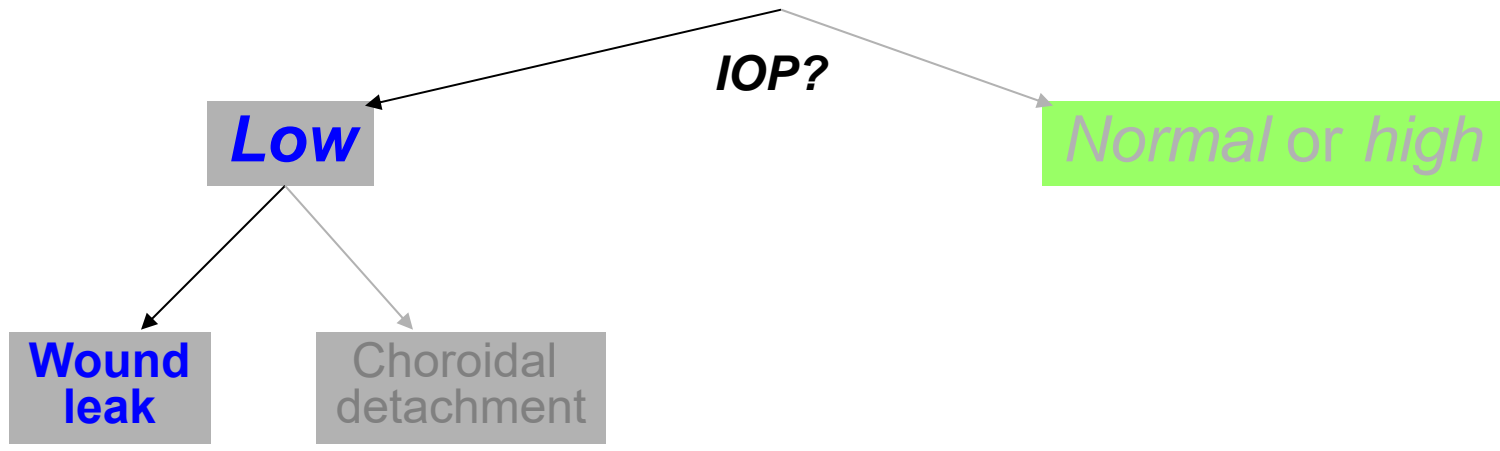


How is a wound leak diagnosed?
Via Seidel testing at the slit-lamp



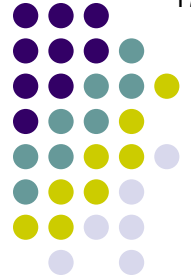
Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)

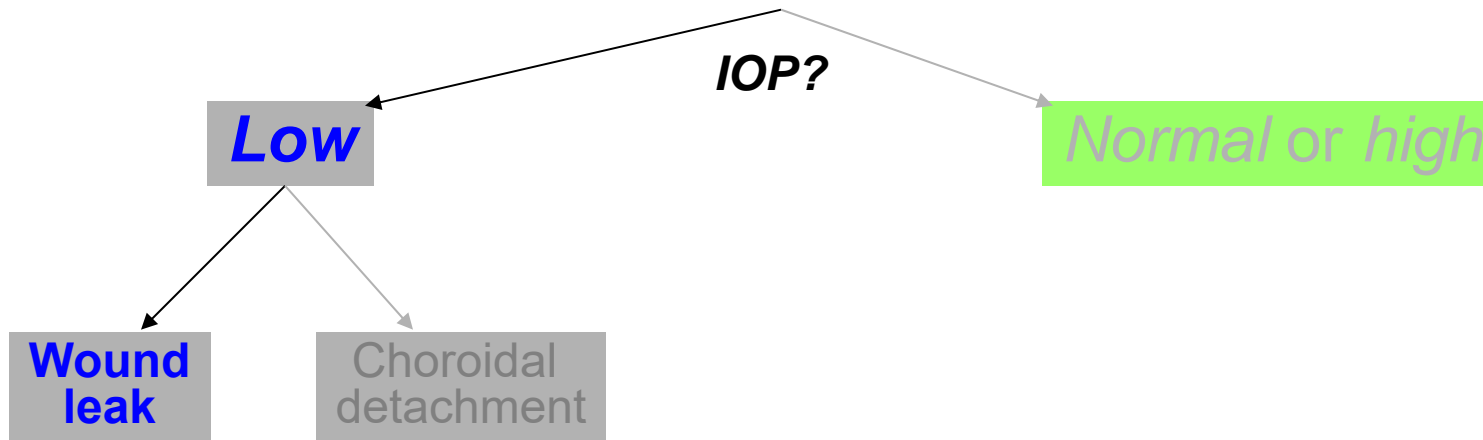


How is a wound leak managed medically?

Shallow Anterior Chamber After Cataract Surgery



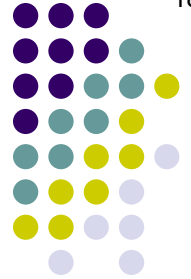
Shallow/flat AC after CE
(early post-op period)



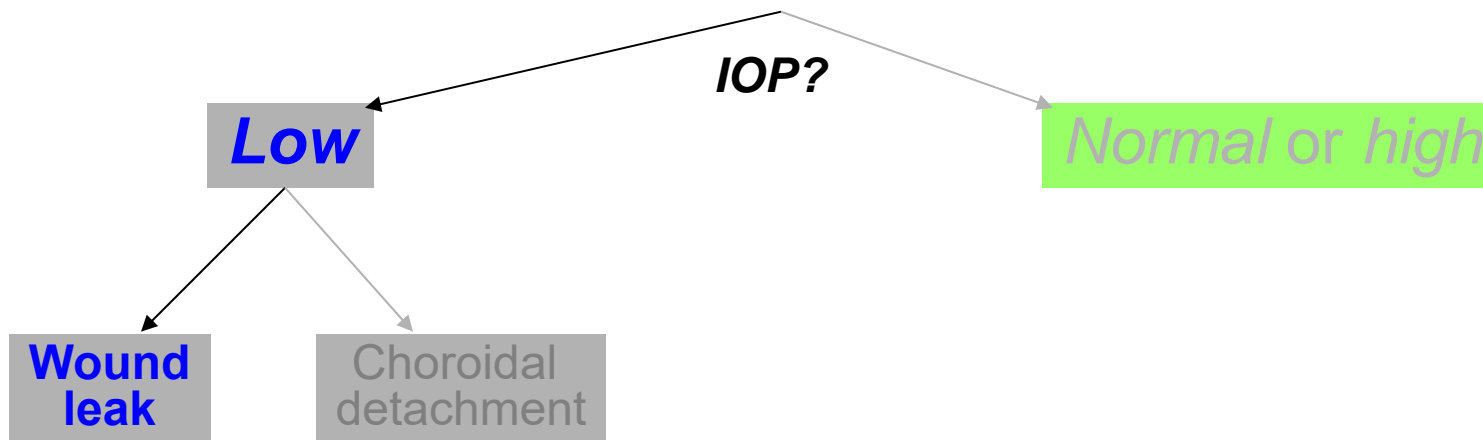
How is a wound leak managed medically? It's as simple as ABC(D):

- A
- B
- C
- D

Shallow Anterior Chamber After Cataract Surgery



Shallow/flat AC after CE
(early post-op period)



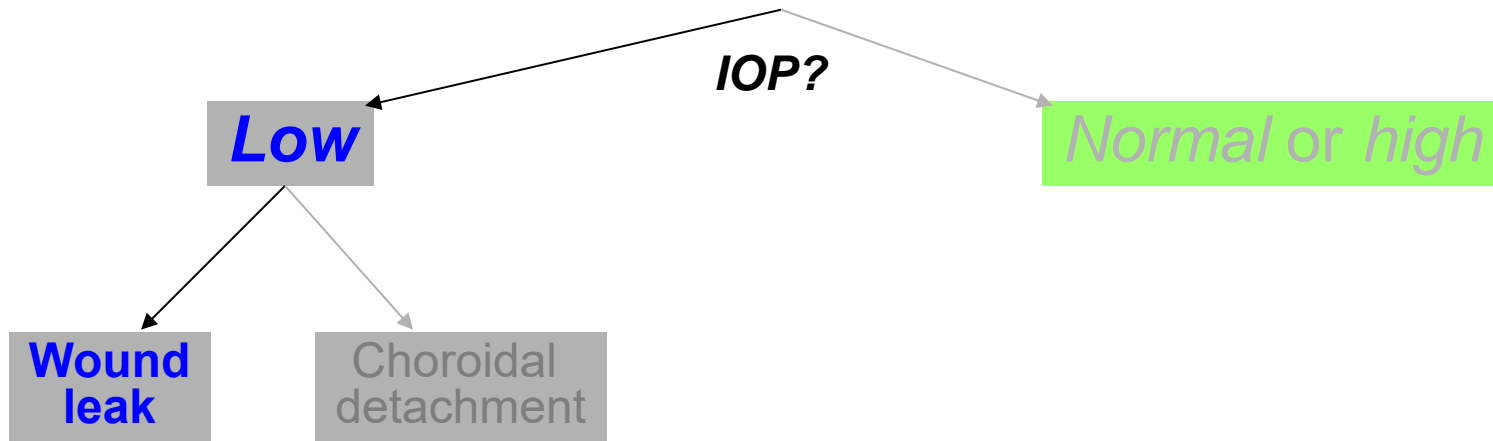
How is a wound leak managed medically? It's as simple as ABC(D):

- A**queous suppressants
- B**andage contact lens (BCL)
- C**ycloplegia
- D**iscontinue (or at least **D**iminish) topical steroids



Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)



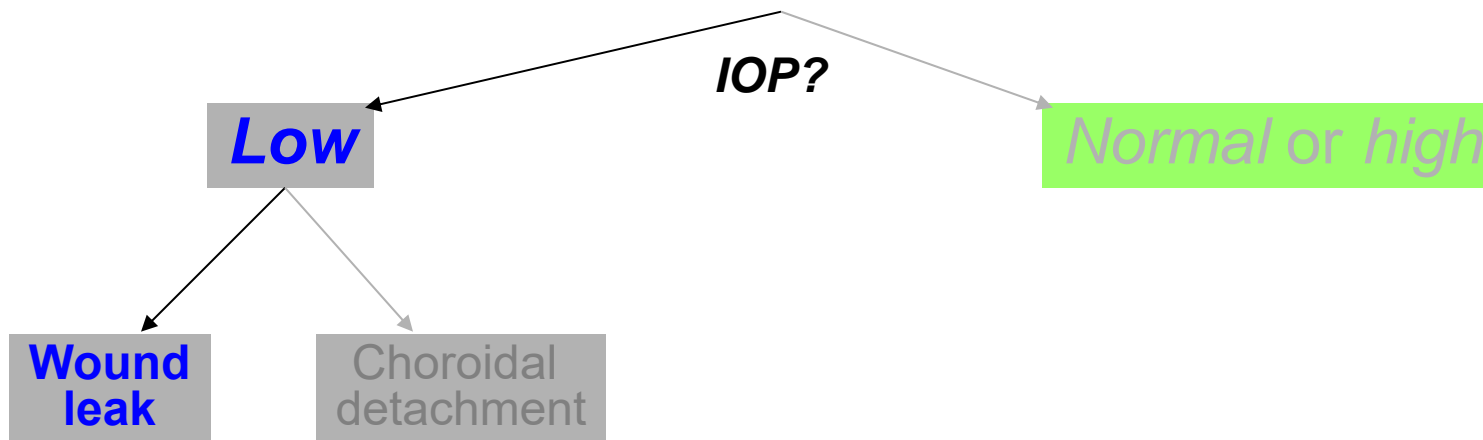
How is a wound leak managed medically? It's as simple as ABC(D):

- Aqueous suppressants**
- Bandage contact lens (BCL)
- Cycloplegia
- Discontinue (or at least Dim)

What is the purpose of the aqueous suppressants?

Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)



How is a wound leak managed medically? It's as simple as ABC(D):

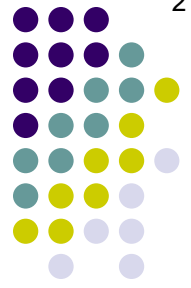
--**Aqueous suppressants**

--Bandage contact lens (BCL)

--Cycloplegia

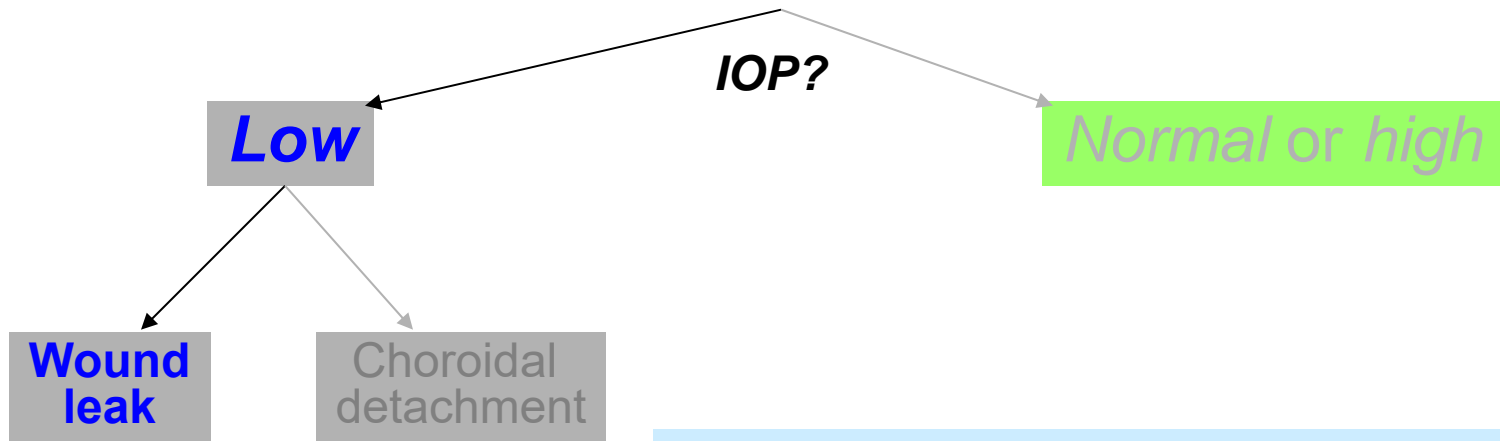
--Discontinue (or at least Dim)

What is the purpose of the aqueous suppressants?
To promote closure of the leak by decreasing the flow
of aqueous across it



Shallow Anterior Chamber After Cataract Surgery

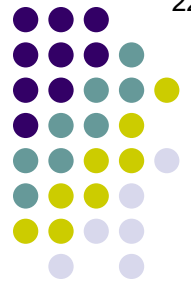
Shallow/flat AC after CE (early post-op period)



Which 3 drug classes are aqueous suppressants?
 --
 --
 --

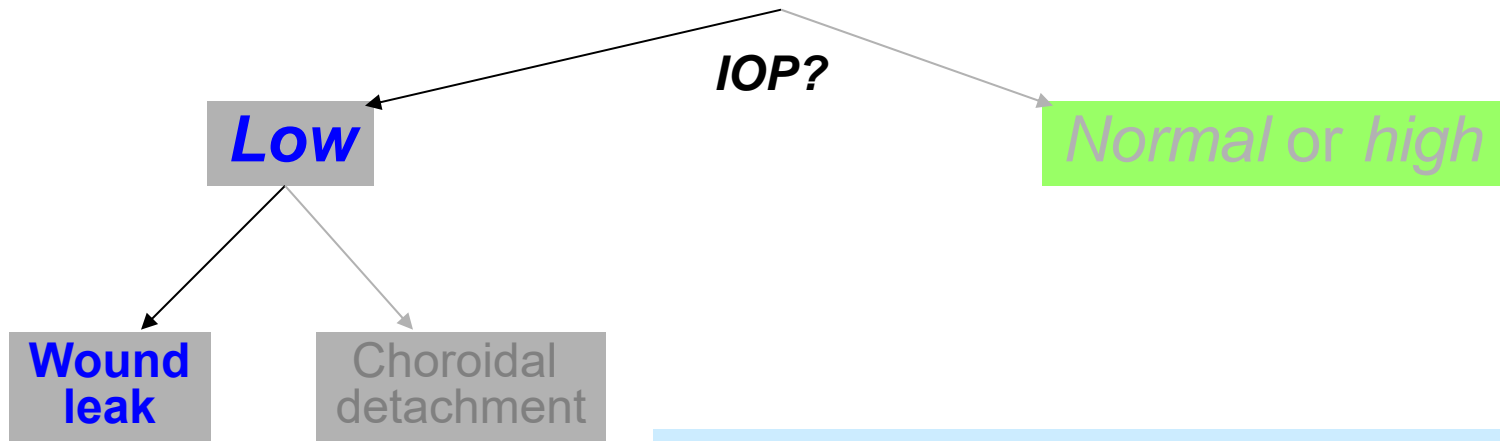
How is a wound leak managed?
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 --Bandage contact lens (BCL)
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What is the purpose of the **aqueous suppressants**?
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Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE (early post-op period)



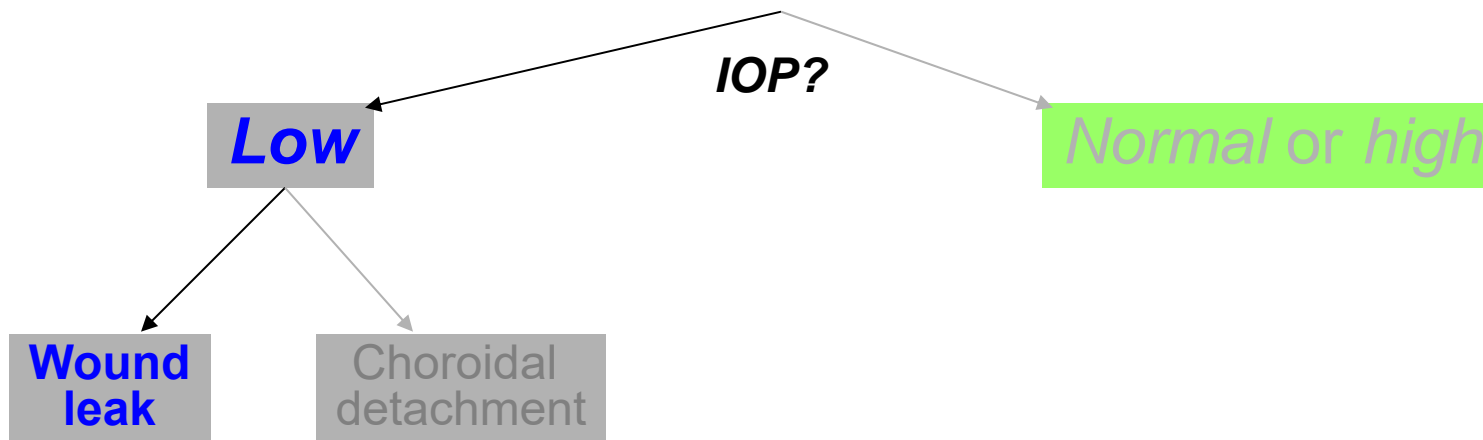
Which 3 drug classes are aqueous suppressants?
 --α agonists (brimonidine probably best)
 --β blockers
 --Carbonic anhydrase inhibitors (CAIs)

How is a wound leak managed?
 --**Aqueous suppressants**
 --Bandage contact lens (BCL)
 --Cycloplegia
 --Discontinue (or at least Dim)

What is the purpose of the aqueous suppressants?
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Shallow Anterior Chamber After Cataract Surgery

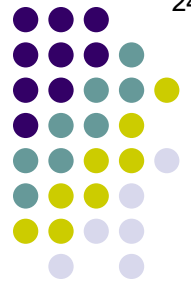
Shallow/flat AC after CE
(early post-op period)



How is a wound leak managed medically? It's as simple as ABC(D):

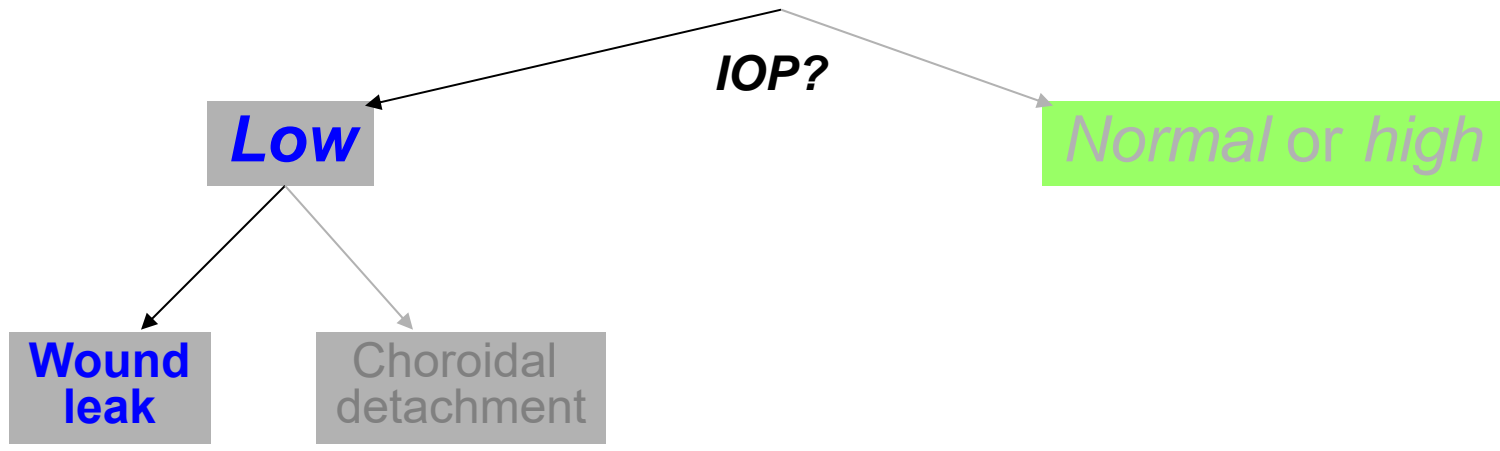
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- Bandage contact lens (BCL)
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- Discontinue (or at least Dimin)

What is the purpose of cycloplegia?



Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)

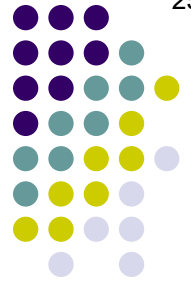


How is a wound leak managed medically? It's as simple as ABC(D):

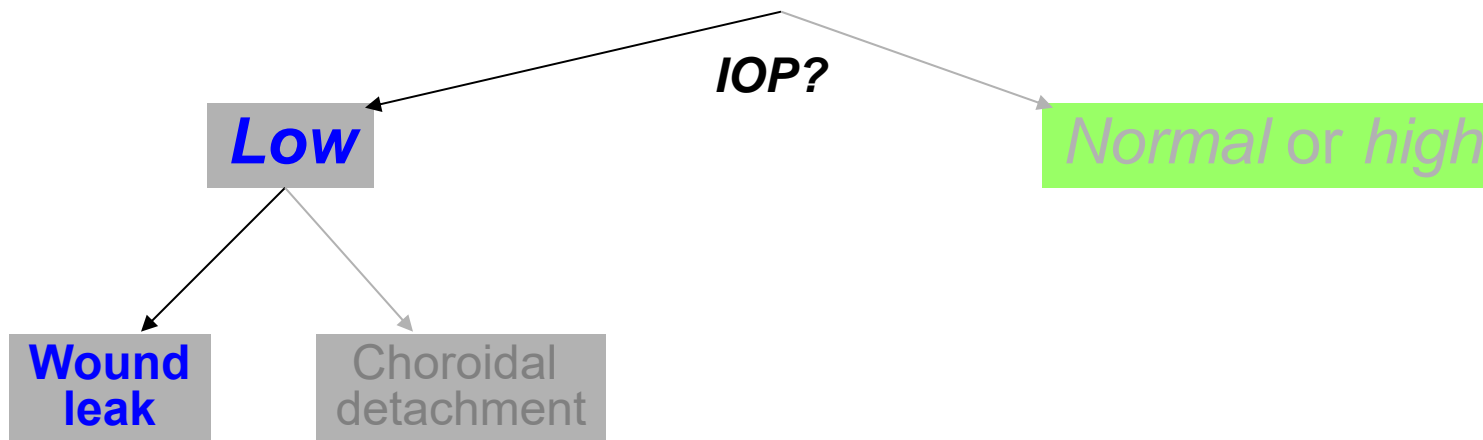
- Aqueous suppressants
- Bandage contact lens (BCL)
- Cycloplegia**
- Discontinue (or at least Dimin)

What is the purpose of cycloplegia?
To deepen the AC by rotating the ciliary body back

Shallow Anterior Chamber After Cataract Surgery



Shallow/flat AC after CE
(early post-op period)



How is a wound leak managed?

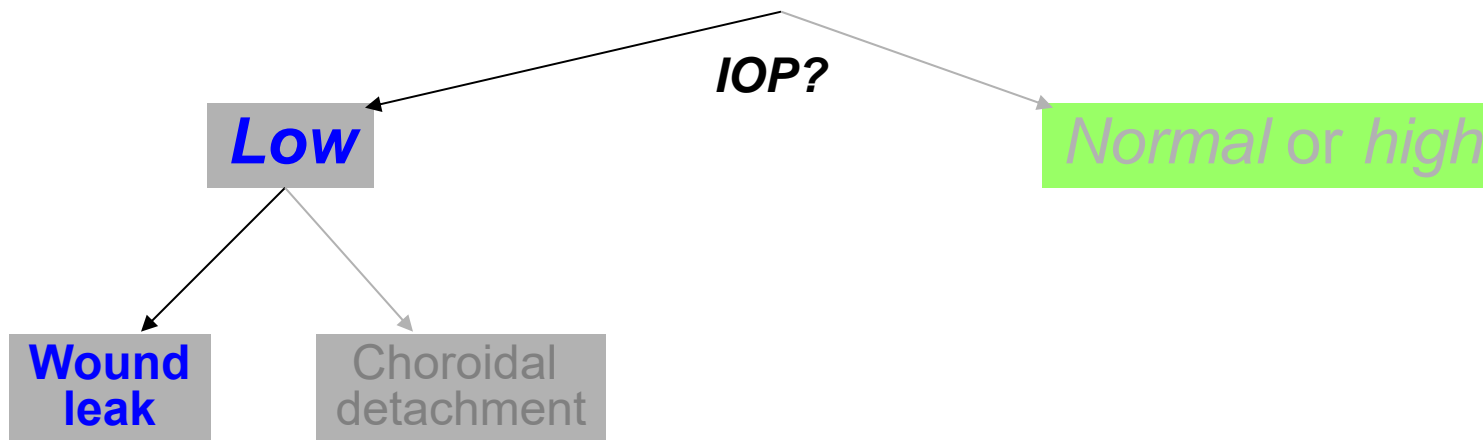
- Aqueous suppressants
- Bandage contact lens (BCL)
- Cycloplegia

--**Discontinue (or at least Diminish) topical steroids**

Why stop steroids? Won't that increase inflammation?

Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)



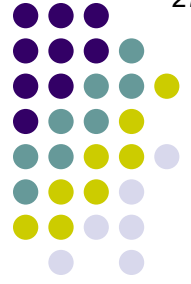
How is a wound leak managed?

- Aqueous suppressants
- Bandage contact lens (BCL)
- Cycloplegia

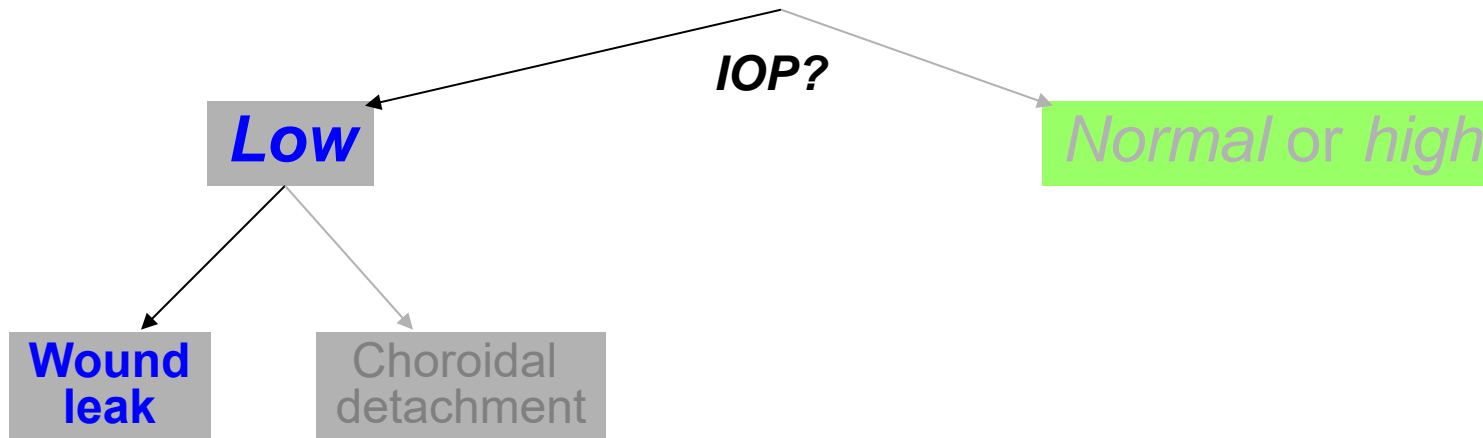
--**Discontinue (or at least Diminish) topical steroids**

Why stop steroids? Won't that increase inflammation?
Yes, but it will also promote leak closure by removing any steroid-induced inhibition of wound healing

Shallow Anterior Chamber After Cataract Surgery



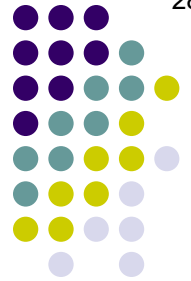
Shallow/flat AC after CE
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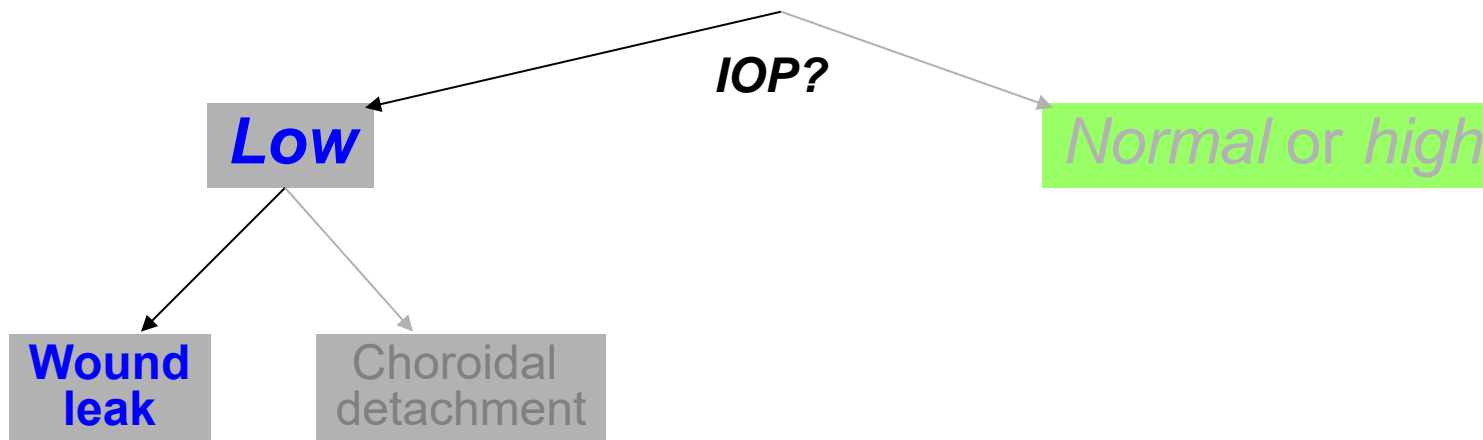
Under what circumstances should a wound leak be managed surgically?

- 1)
- 2)
- 3)
- 4)

Shallow Anterior Chamber After Cataract Surgery



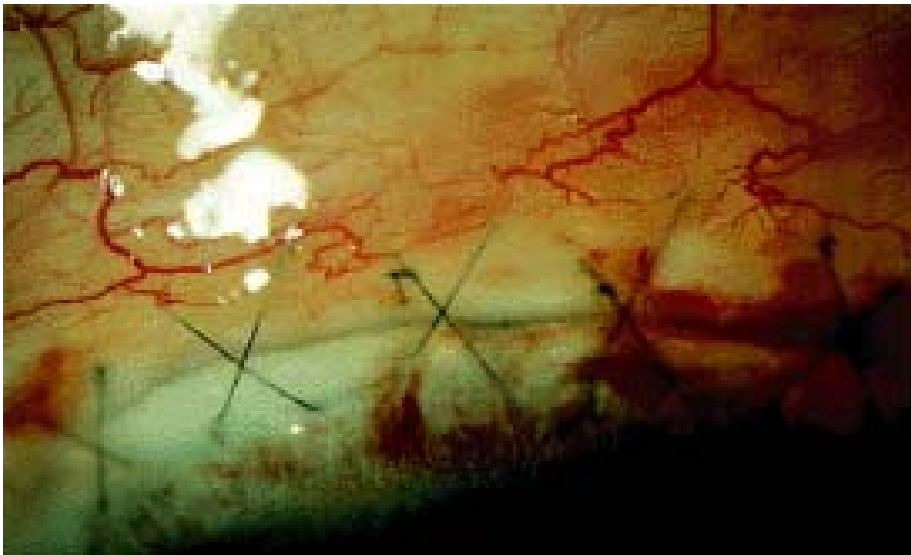
Shallow/flat AC after CE
(early post-op period)



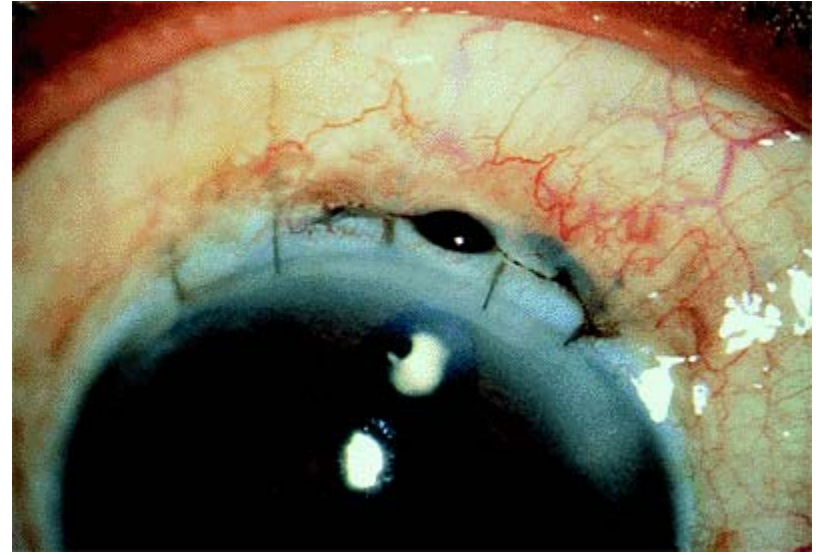
Under what circumstances should a wound leak be managed surgically?

- 1) No improvement for 48 hours
- 2) Obvious wound gape
- 3) IOL-cornea touch
- 4) Iris prolapse

Shallow Anterior Chamber After Cataract Surgery



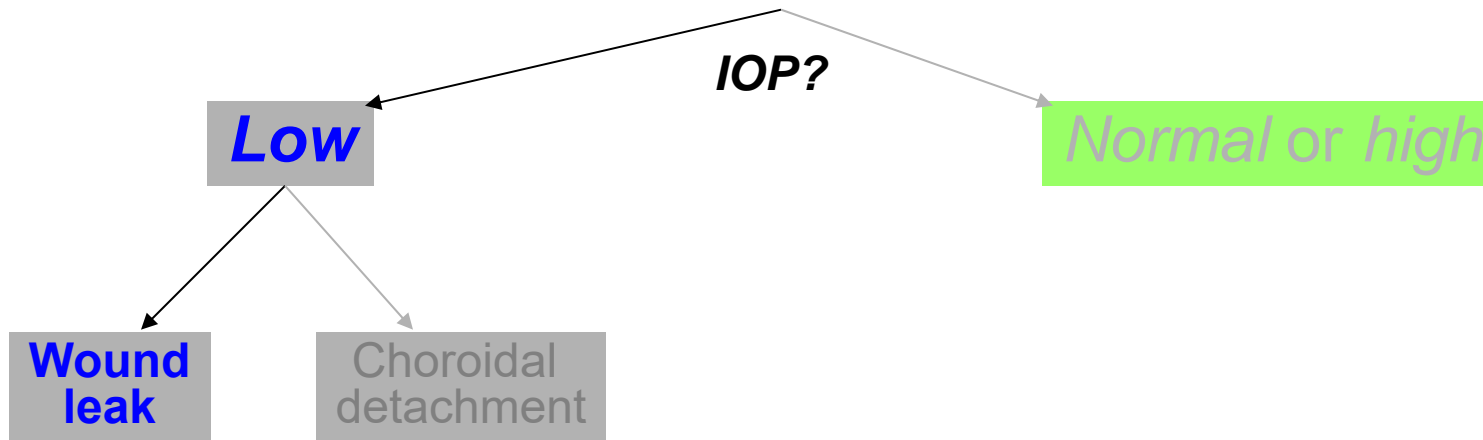
Wound gap



Iris prolapse

Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)

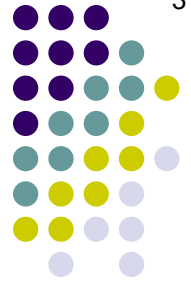


Under what circumstances should a wound leak be managed surgically?

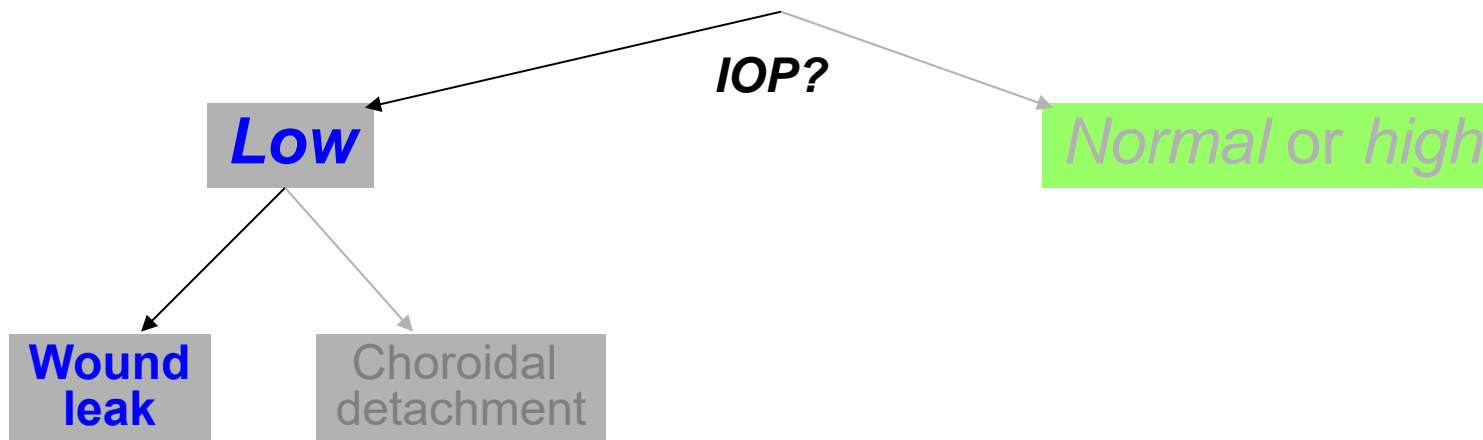
- No improvement for 48 hours
- Obvious wound gape
- IOL-cornea touch**
- Iris prolapse

What stop-gap measure could you try for this?

Shallow Anterior Chamber After Cataract Surgery



Shallow/flat AC after CE
(early post-op period)



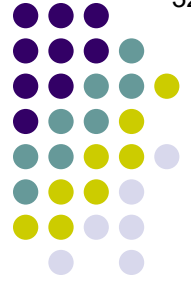
Under what circumstances should a wound leak be managed surgically?

- No improvement for 48 hours
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- Iris prolapse

What stop-gap measure could you try for this?

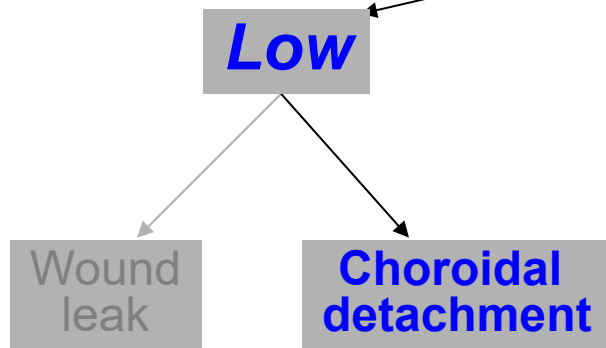
Injection of viscoelastic to re-form the AC and push the IOL back

Shallow Anterior Chamber After Cataract Surgery

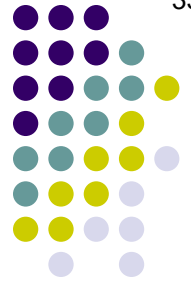


Shallow/flat AC after CE
(early post-op period)

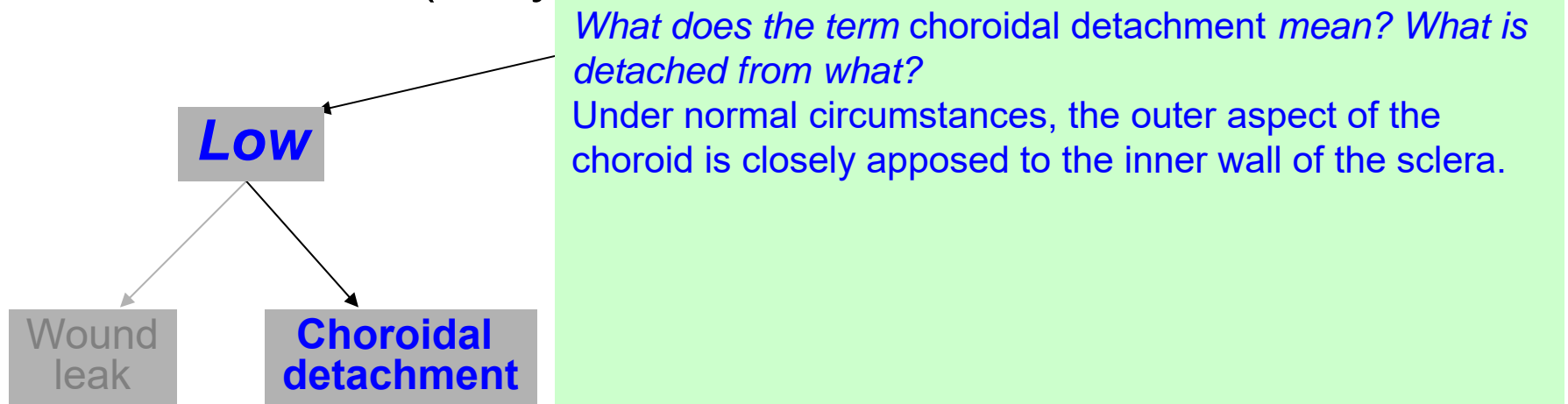
What does the term choroidal detachment mean? What is detached from what?



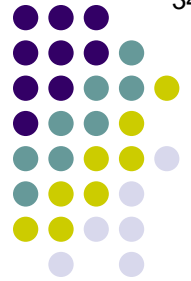
Shallow Anterior Chamber After Cataract Surgery



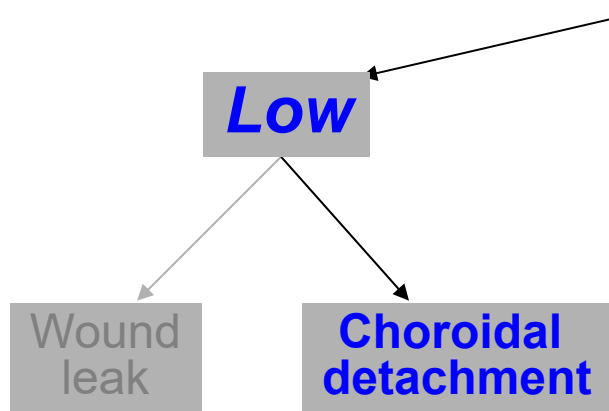
Shallow/flat AC after CE
(early post-op period)



Shallow Anterior Chamber After Cataract Surgery



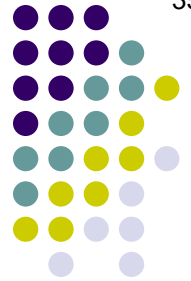
Shallow/flat AC after CE (early post-op period)



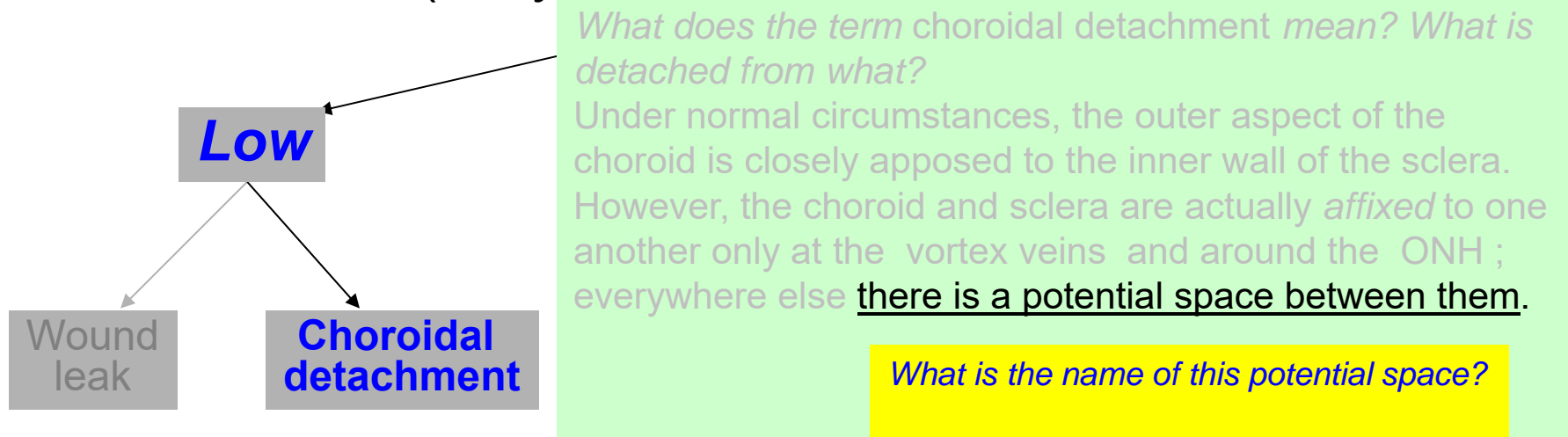
What does the term choroidal detachment mean? What is detached from what?

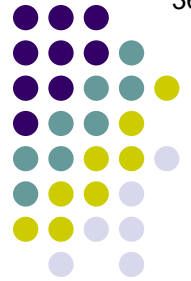
Under normal circumstances, the outer aspect of the choroid is closely apposed to the inner wall of the sclera. However, the choroid and sclera are actually *affixed* to one another only at the **two words** and around the **abb.**; everywhere else there is a potential space between them.

Shallow Anterior Chamber After Cataract Surgery



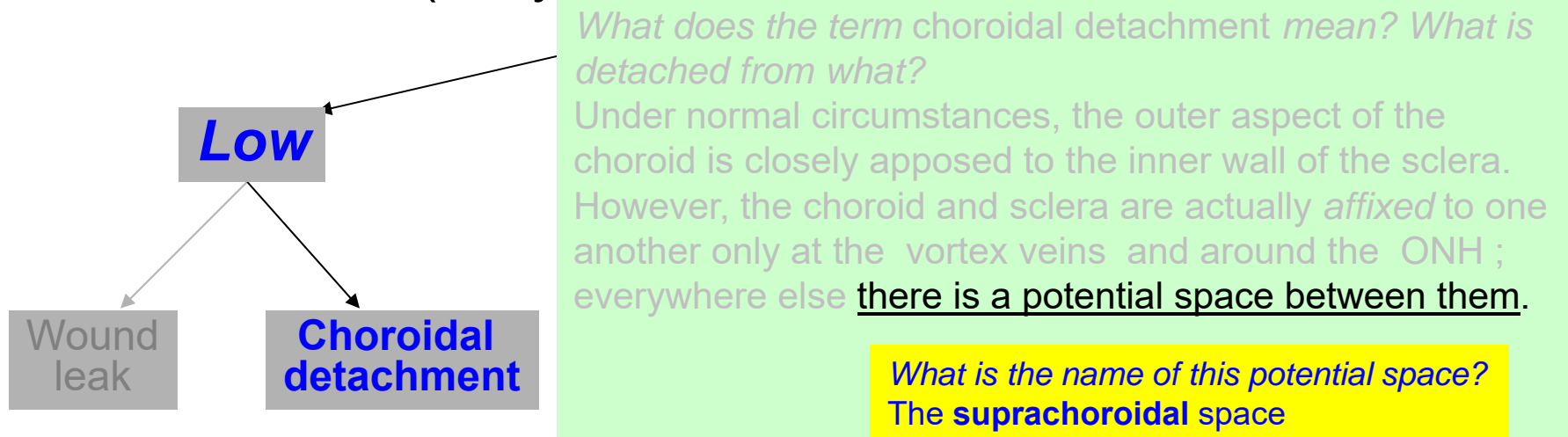
Shallow/flat AC after CE
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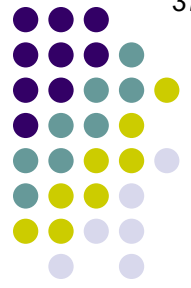




Shallow Anterior Chamber After Cataract Surgery

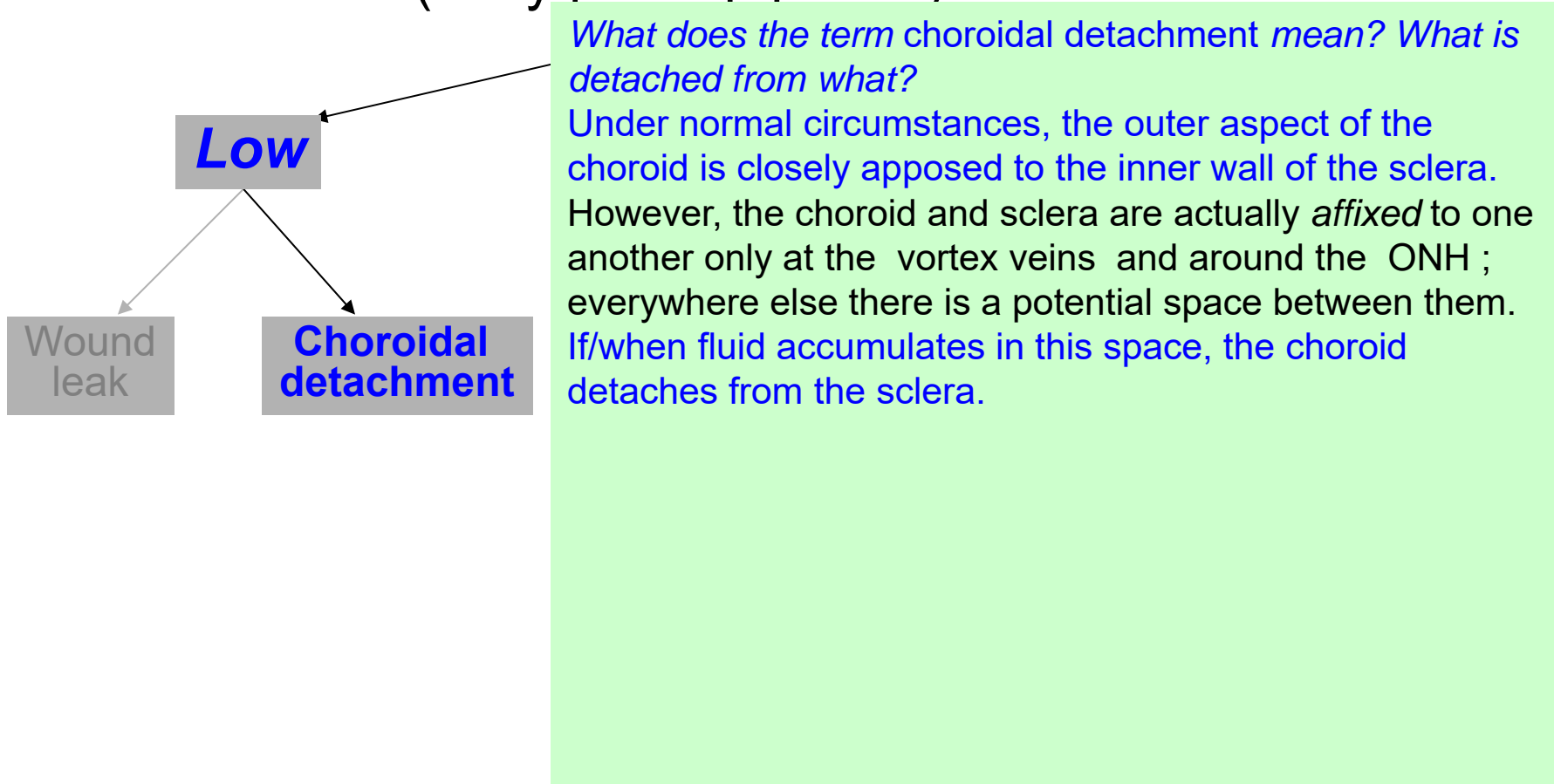
Shallow/flat AC after CE
(early post-op period)





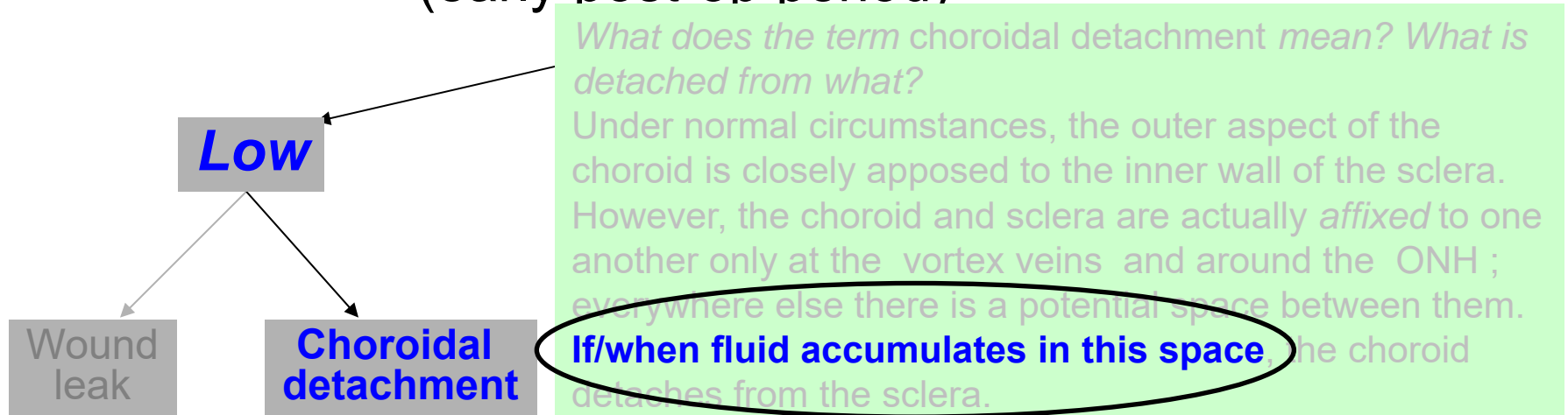
Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE (early post-op period)



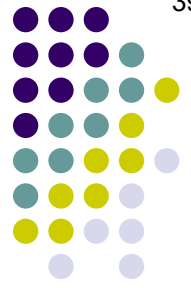
Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)



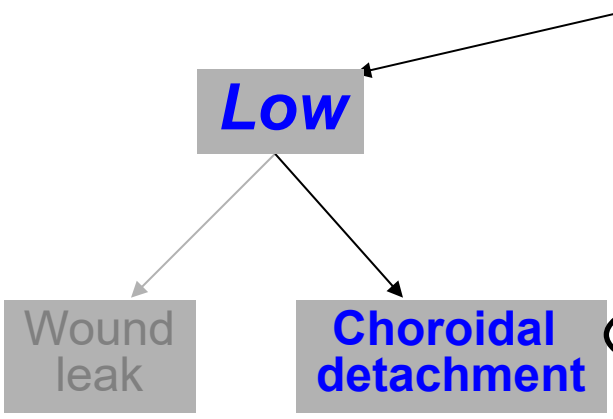
There are two broad categories of fluid that are associated with choroidal detachment--what are they?

--
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Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE (early post-op period)

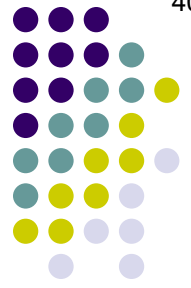


What does the term choroidal detachment mean? What is detached from what?

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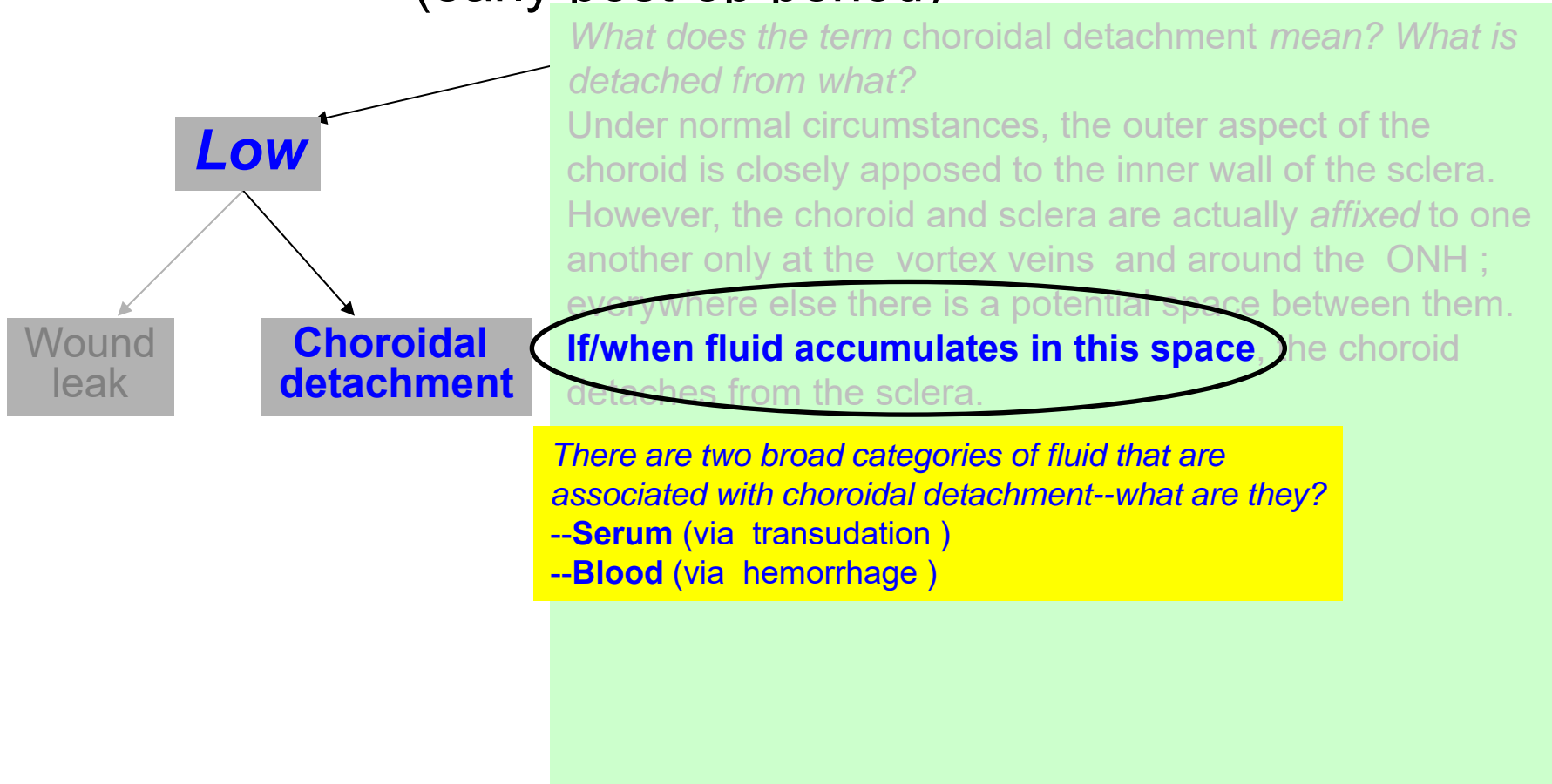
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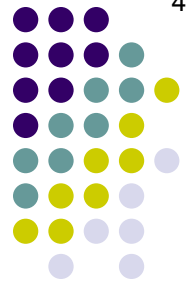
- Serum (via)
- Blood (via)



Shallow Anterior Chamber After Cataract Surgery

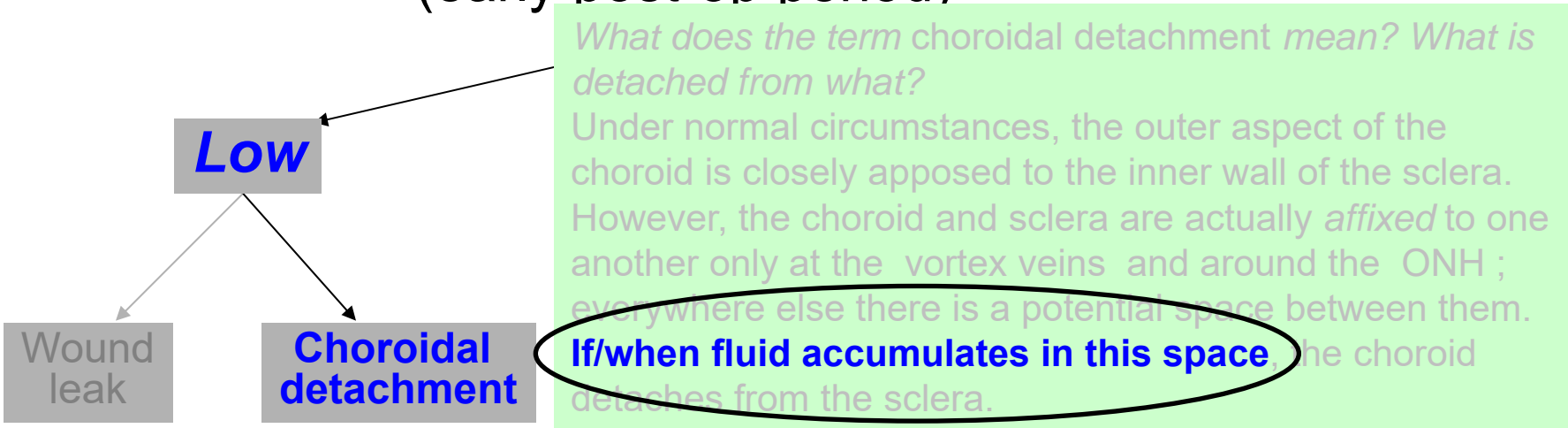
Shallow/flat AC after CE (early post-op period)





Shallow Anterior Chamber After Cataract Surgery

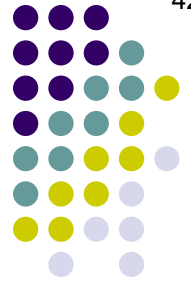
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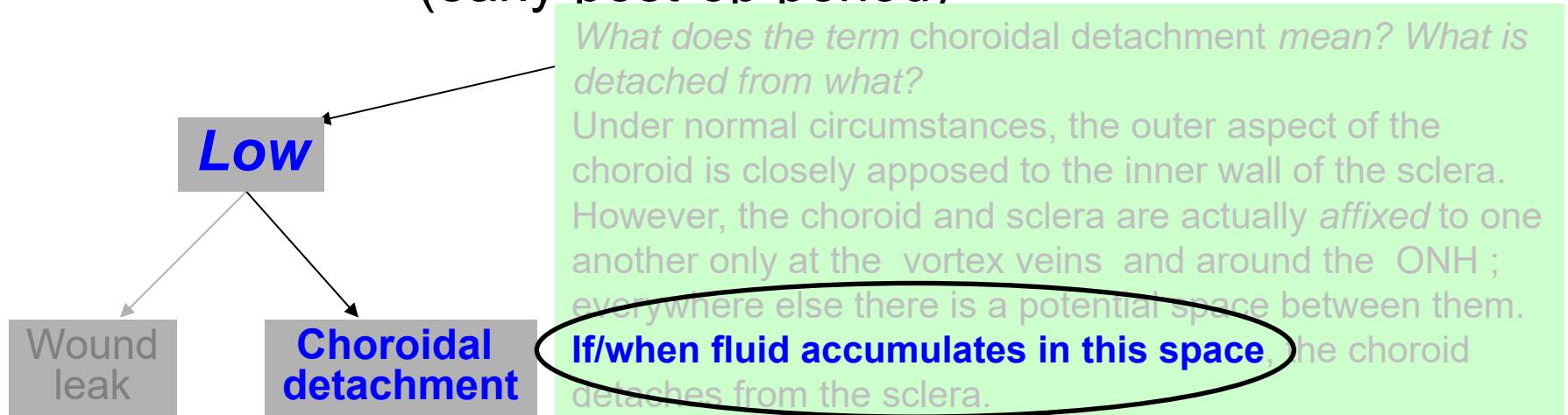
There are two broad categories of fluid that are associated with choroidal detachment--what are they?
 --**Serum?** (via transudation)
 --**Blood?** (via hemorrhage)

When a choroidal detachment is present in association with a shallow chamber and low IOP, is it typically serous, or hemorrhagic?

Shallow Anterior Chamber After Cataract Surgery



Shallow/flat AC after CE (early post-op period)

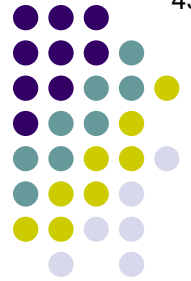


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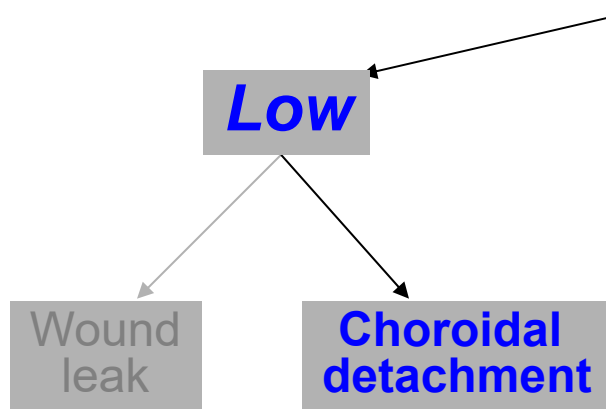
- Serum!** (via transudation)
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When a choroidal detachment is present in association with a shallow chamber and low IOP, is it typically serous, or hemorrhagic?
In this scenario, the detachment is virtually always **serous**

Shallow Anterior Chamber After Cataract Surgery



Shallow/flat AC after CE (early post-op period)

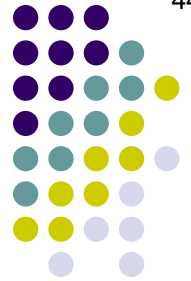


What does the term choroidal detachment mean? What is detached from what?

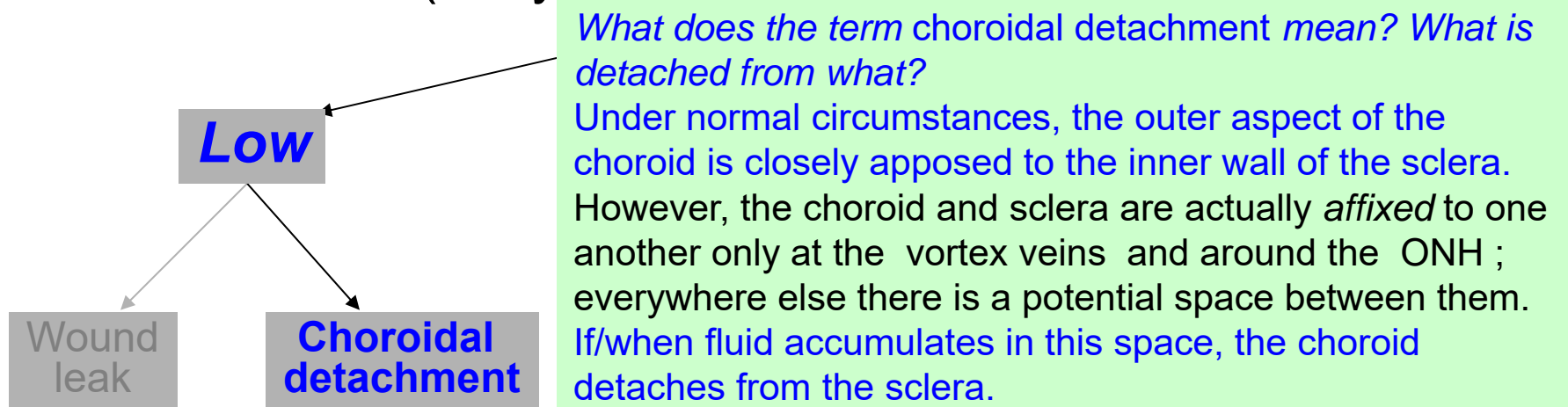
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Is choroidal detachment a common cause of low IOP + shallow/flat AC after CE?

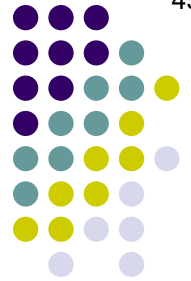
Shallow Anterior Chamber After Cataract Surgery



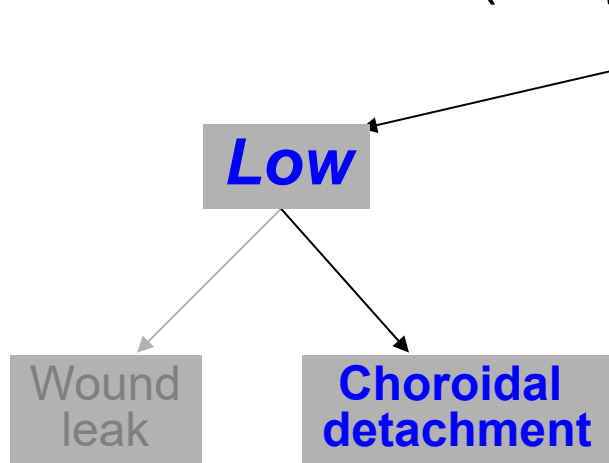
Shallow/flat AC after CE (early post-op period)



Shallow Anterior Chamber After Cataract Surgery



Shallow/flat AC after CE (early post-op period)



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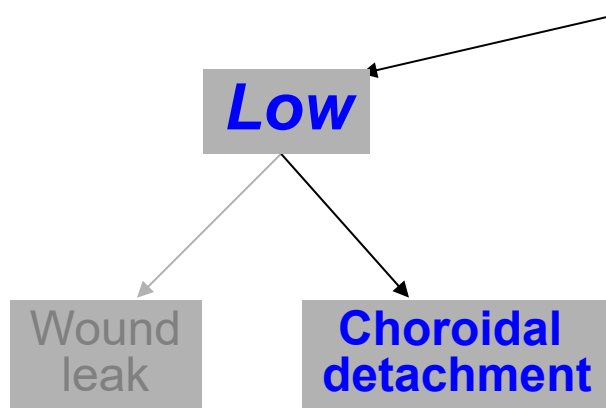
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This is a tricky question. Certainly, choroidal detachments are not an uncommon finding when a post-CE pt presents with a shallow AC and low IOP. However, it is likely that, in the majority of such cases, the choroidal detachment is a **result** of the low IOP, not a **cause** of it.

Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE (early post-op period)



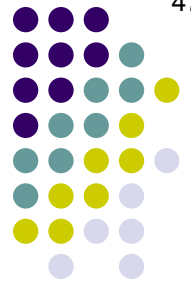
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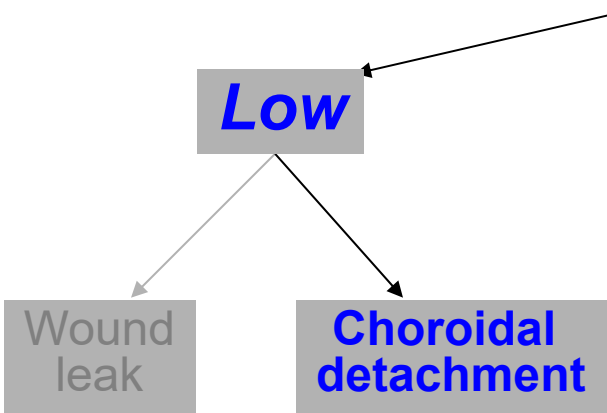
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So if a pt with a flat AC is found to have a choroidal detachment, don't assume the detachment is the cause. Be sure to check carefully for a wound leak!



Shallow Anterior Chamber After Cataract Surgery

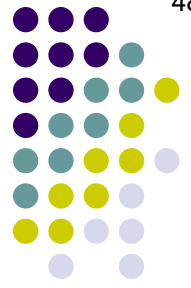
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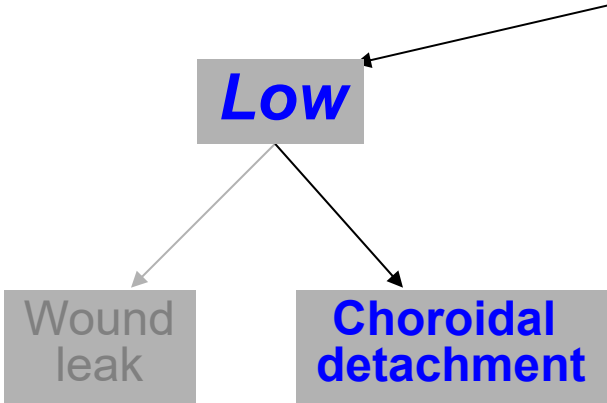
How is choroidal detachment diagnosed? choroid

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Shallow Anterior Chamber After Cataract Surgery

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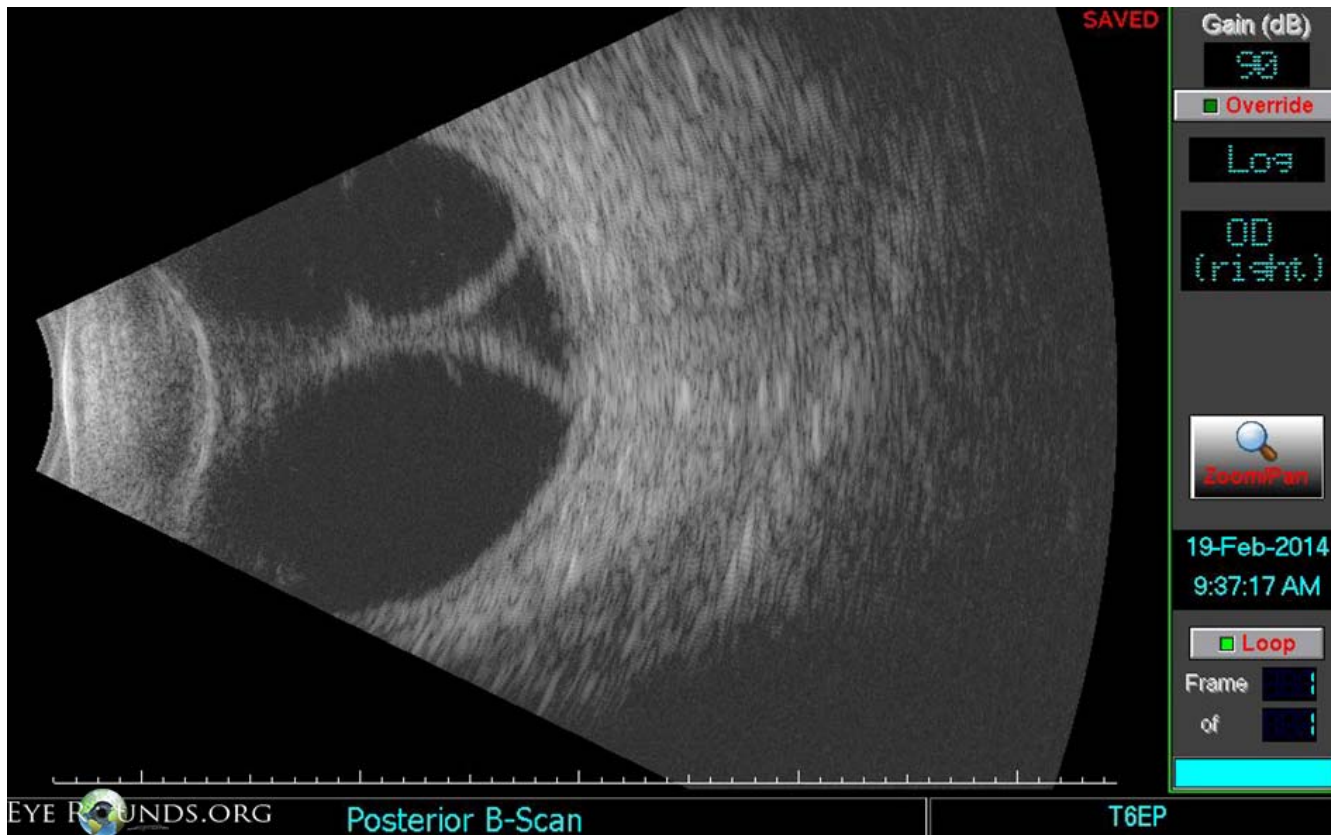
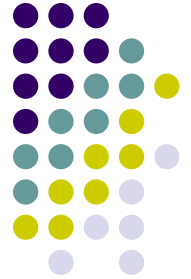


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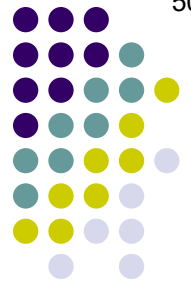
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 choroid
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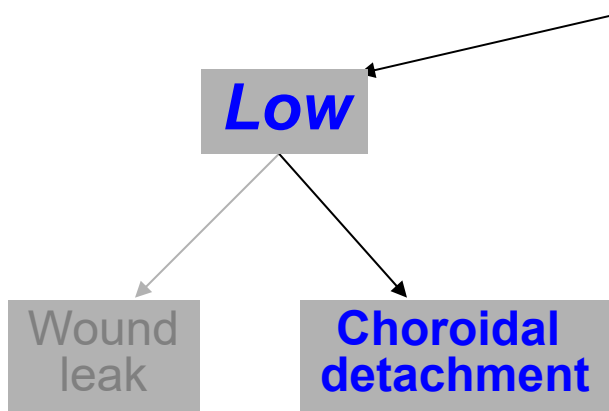


Choroidal detachment (Confession: I don't think this was post-CE)



Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE (early post-op period)



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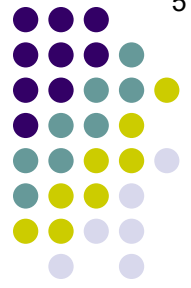
Is choroidal detachment a common cause of low IOP +

How should a flat chamber owing to a choroidal detachment be managed?

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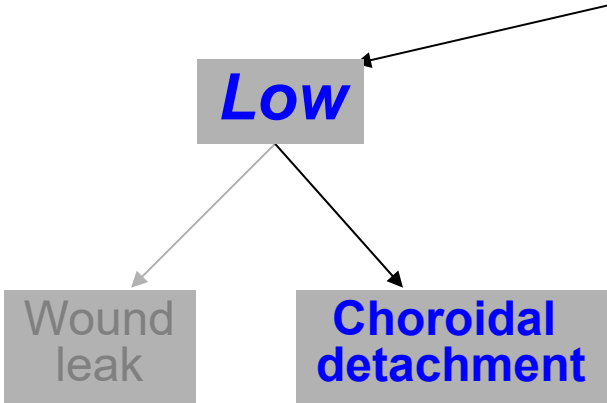
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Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE (early post-op period)



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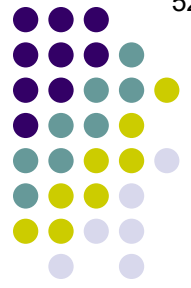
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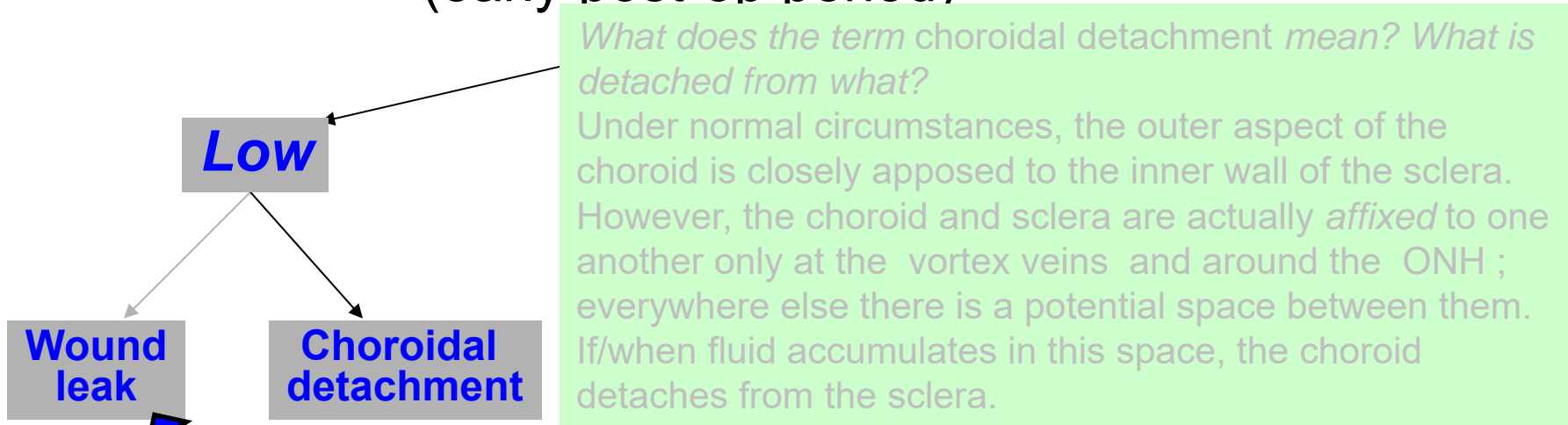
- Topical (+/- systemic) corticosteroids should be started (or increased)
- Mydriatics and cycloplegics should be employed in an attempt to rotate the lens-iris diaphragm posteriorly

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Shallow Anterior Chamber After Cataract Surgery

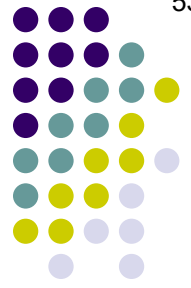
Shallow/flat AC after CE (early post-op period)



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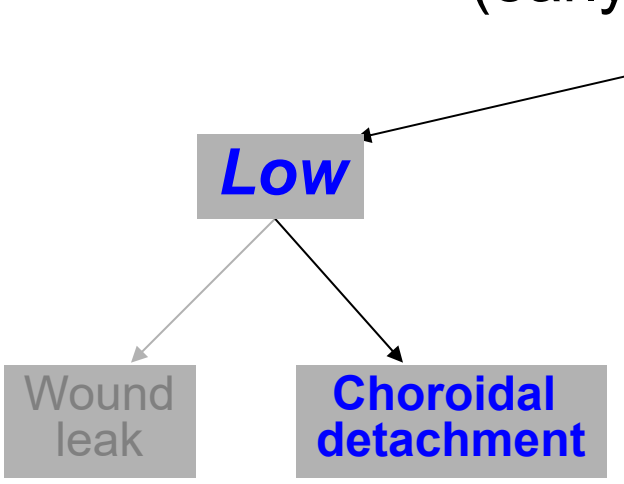
- Topical (+/- systemic) **corticosteroids should be started (or increased)**
- Mydriatics and cycloplegics should be employed in an attempt to rotate

Recall that managing the other diagnosis of flat AC+low IOP (wound leak) included taking the **opposite** step, ie, *stopping* or *decreasing* steroids. So, it's vitally important that you differentiate accurately between these two conditions!



Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE (early post-op period)



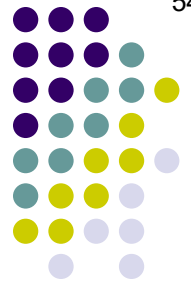
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Under what circumstances should the detachment be addressed surgically?

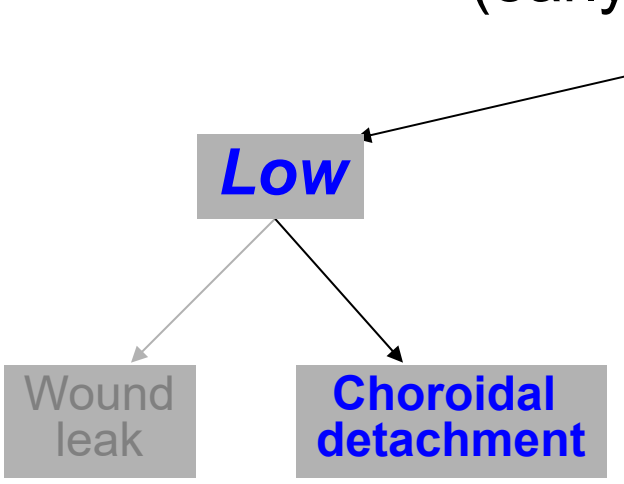
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Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE (early post-op period)



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There are no hard-and-fast rules in this regard, but indications include detachments refractory to medical management for a week or so.

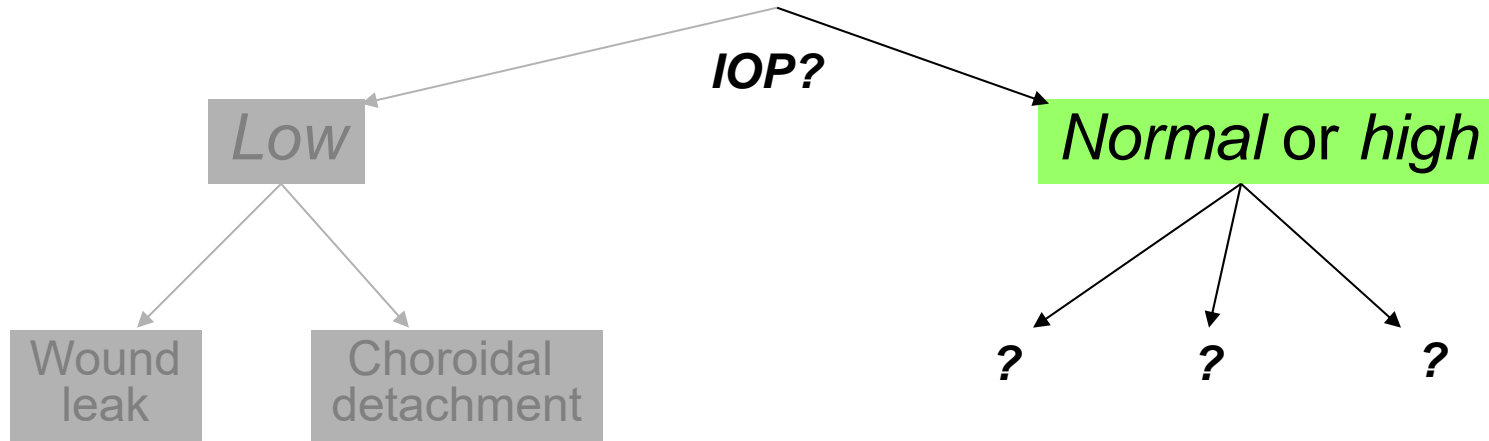
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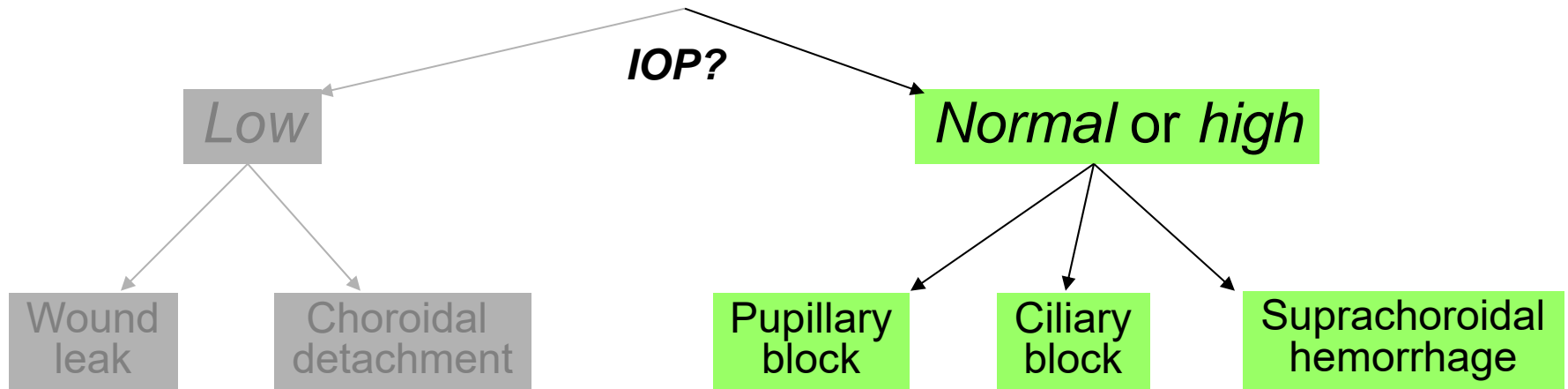
Shallow Anterior Chamber After Cataract Surgery

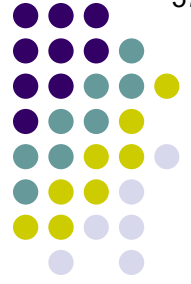
Shallow/flat AC after CE
(early post-op period)



Shallow Anterior Chamber After Cataract Surgery

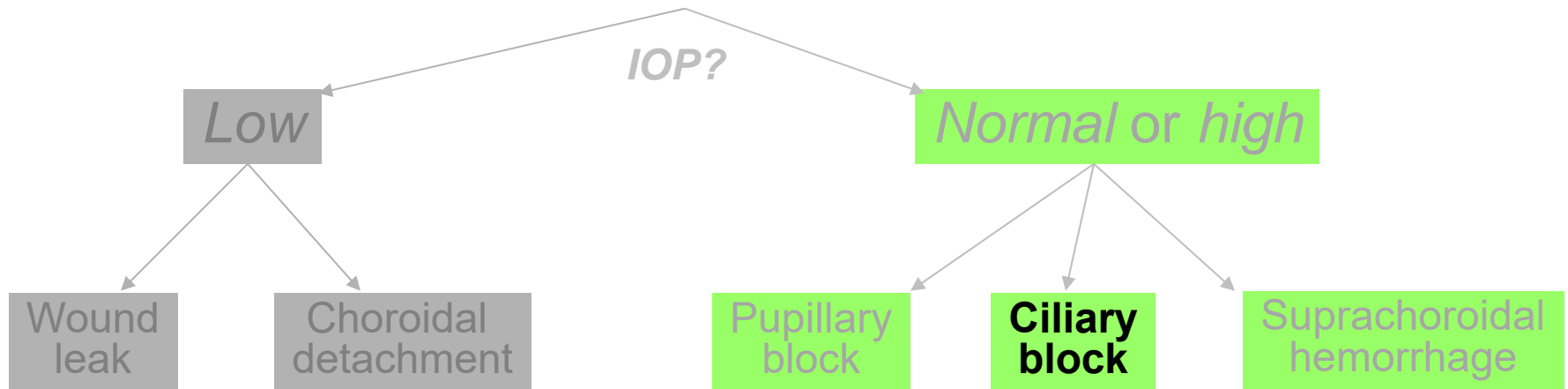
Shallow/flat AC after CE
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Shallow Anterior Chamber After Cataract Surgery

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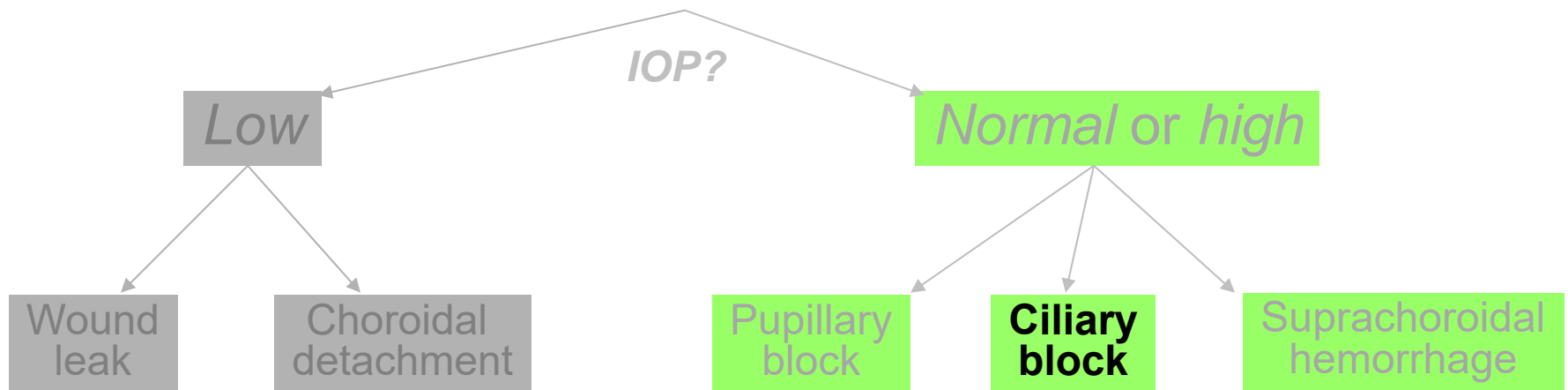


Note: The *Lens* book refers to this condition as *ciliary block glaucoma*, but the *Glaucoma* book refers to it as *aqueous misdirection syndrome*.

aka
'aqueous
misdirection
syndrome'

Shallow Anterior Chamber After Cataract Surgery

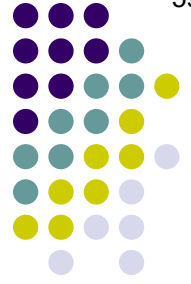
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Both books also *aka* it as *malignant glaucoma*.

aka
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Shallow Anterior Chamber After Cataract Surgery

What is the mechanism underlying pupillary block?

AC after CE
(post-op period)

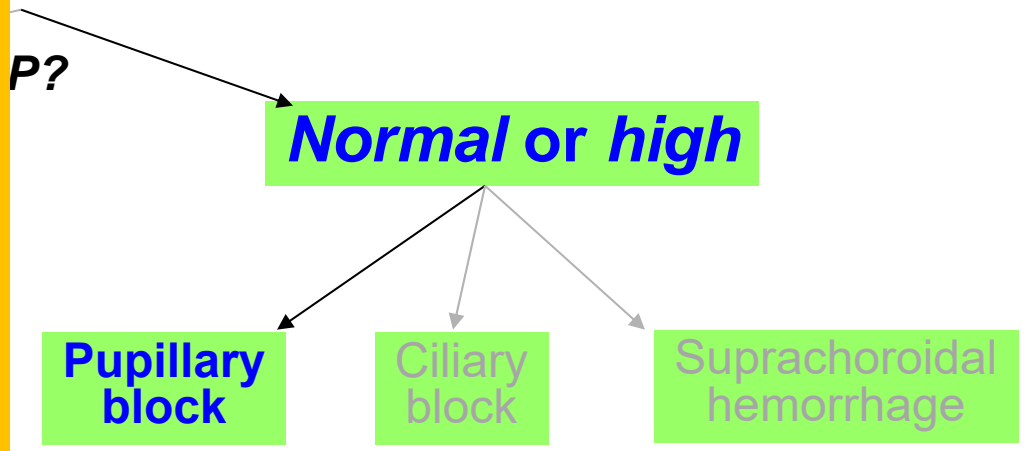
P?

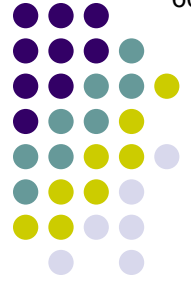
Normal or high

Pupillary block

Ciliary block

Suprachoroidal hemorrhage





Shallow Anterior Chamber After Cataract Surgery

What is the mechanism underlying pupillary block?

Apposition between the pupil margin and the IOL prevents the normal flow of aqueous from the posterior chamber to the AC. This results in a pressure gradient across the iris, causing it to bow forward. In doing so, the peripheral iris interferes with the egress of aqueous through the TM. The net result is a normal-to-high IOP and shallowed AC.

AC after CE
(post-op period)

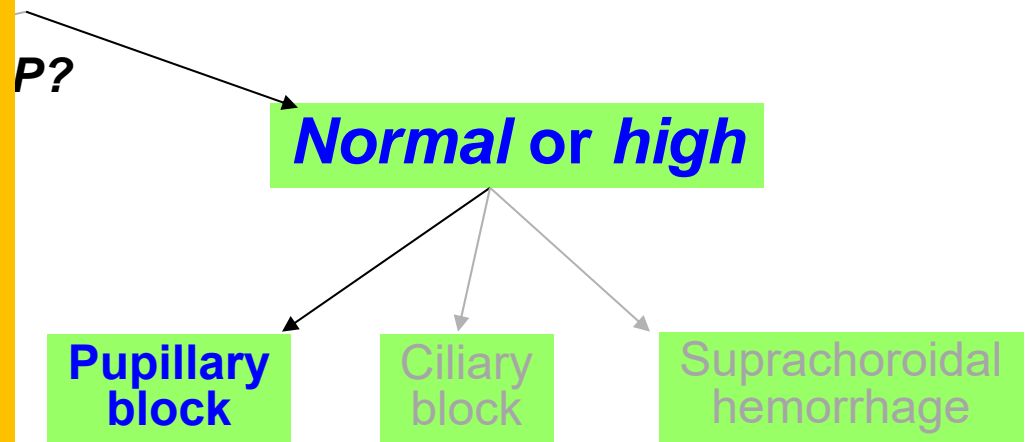
IOP?

Normal or high

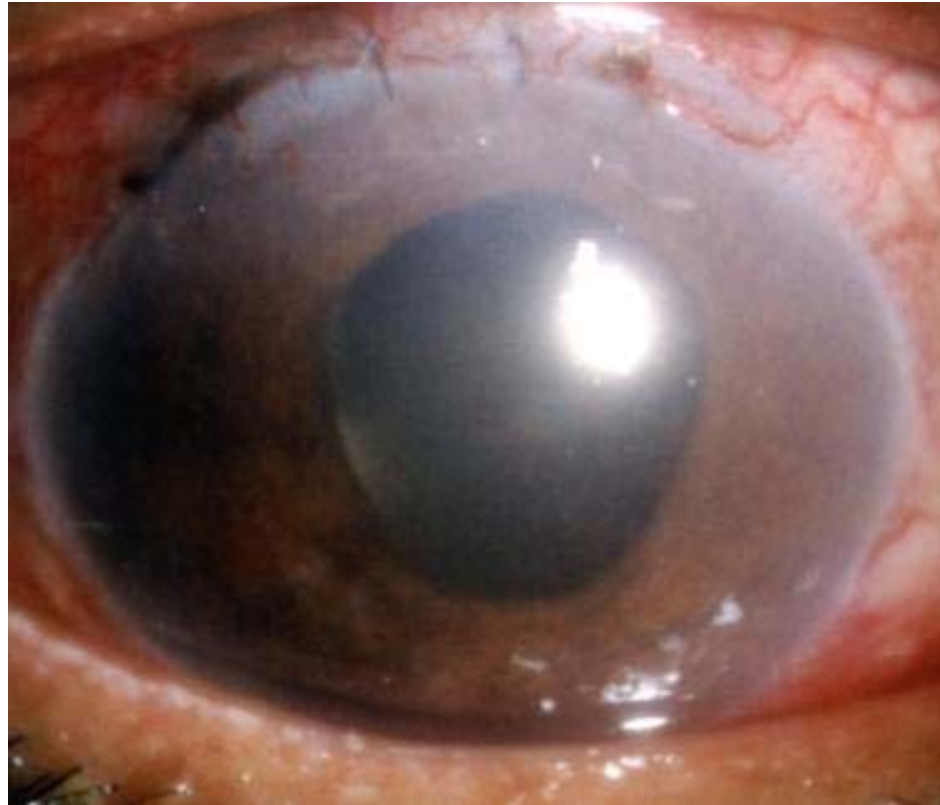
**Pupillary
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Ciliary
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Suprachoroidal
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Shallow Anterior Chamber After Cataract Surgery



PC IOL pupillary block after wound leak



Shallow Anterior Chamber After Cataract Surgery

What is the mechanism underlying pupillary block?

Apposition between the pupil margin and the IOL prevents the normal flow of

AC after CF

In the acute post-op period, what process commonly leads to the IOL being apposed to the pupillary margin?

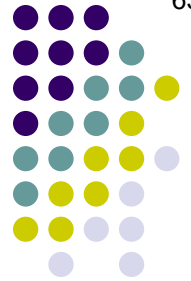
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AC after CF

In the acute post-op period, what process commonly leads to the IOL being apposed to the pupillary margin?
One common cause is a **wound leak**, which can allow the vitreous body to push the IOL up against the pupil, resulting in pseudophakic pupillary block. So, a post-op eye that initially has a shallow chamber + low IOP ends up having a shallow chamber + a normal/high IOP.

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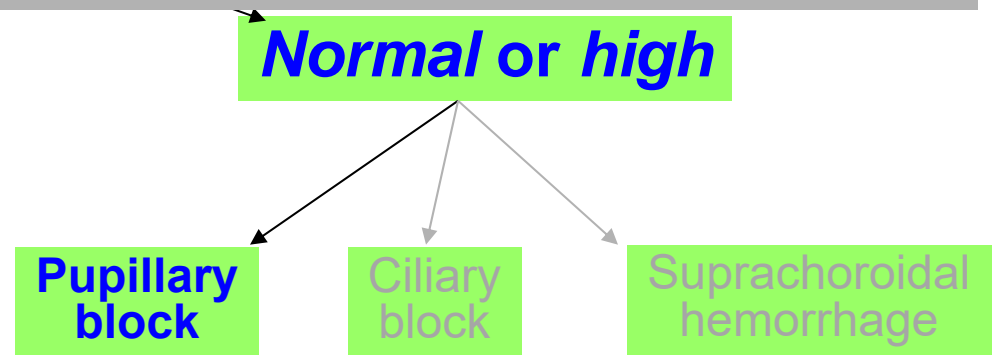
Wound leak

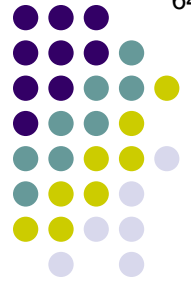
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Shallow Anterior Chamber After Cataract Surgery

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*In the **late** post-op period, what process commonly leads to the IOL being apposed to the pupillary margin?*

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AC after CE

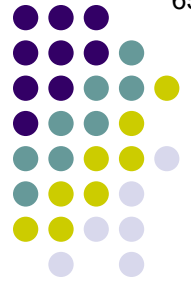
P?

Normal or high

Pupillary block

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Shallow Anterior Chamber After Cataract Surgery

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*In the **late** post-op period, what process commonly leads to the IOL being apposed to the pupillary margin?*
Severe/long-lasting post-op inflammation can result in posterior synechiae formation

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AC after CE

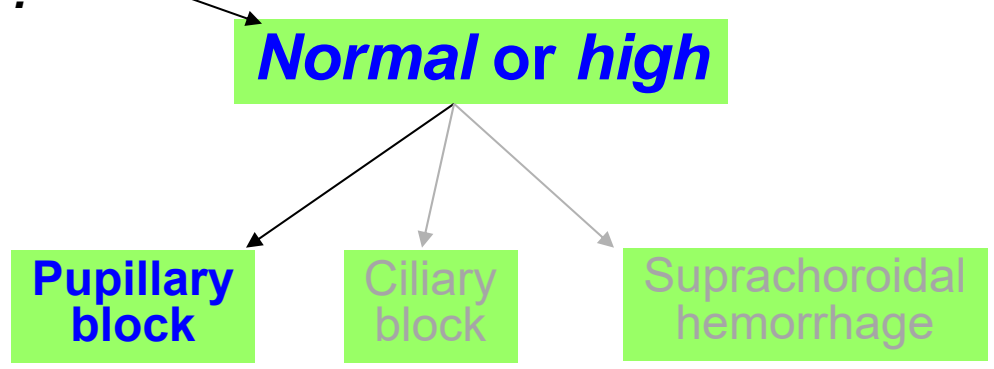
P?

Normal or high

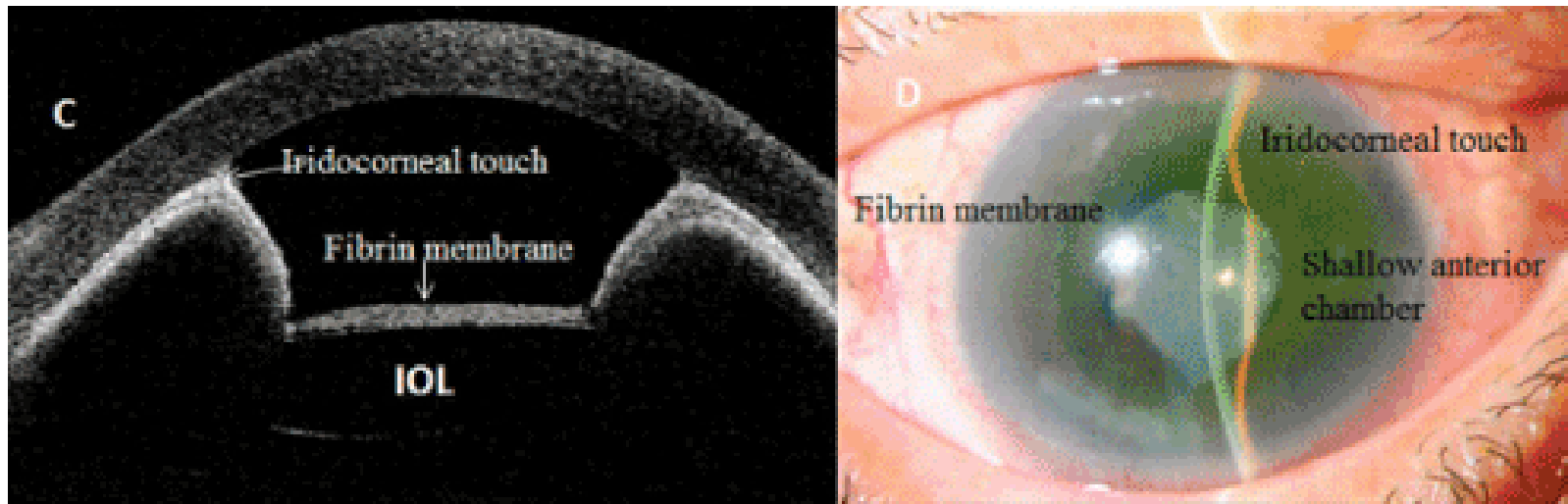
Pupillary block

Ciliary block

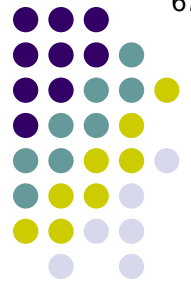
Suprachoroidal hemorrhage



Shallow Anterior Chamber After Cataract Surgery



Late-onset PSK pupillary-block shallow AC 2ndry to posterior synechiae



Shallow Anterior Chamber After Cataract Surgery

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Which pt population is particularly prone to pseudophakic pupillary block?

AC after CE (post-op period)

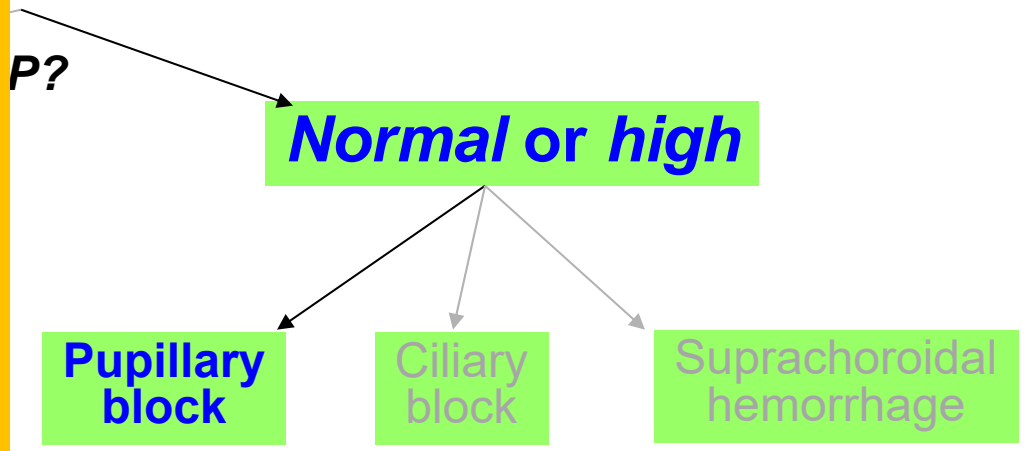
P?

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Pupillary block

Ciliary block

Suprachoroidal hemorrhage





Shallow Anterior Chamber After Cataract Surgery

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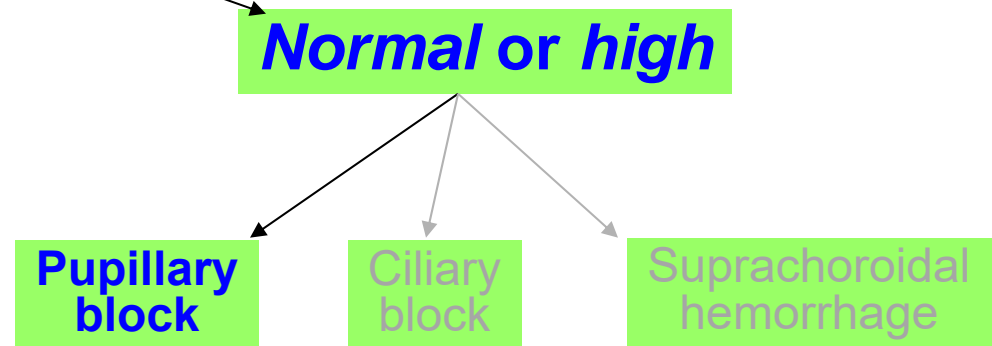
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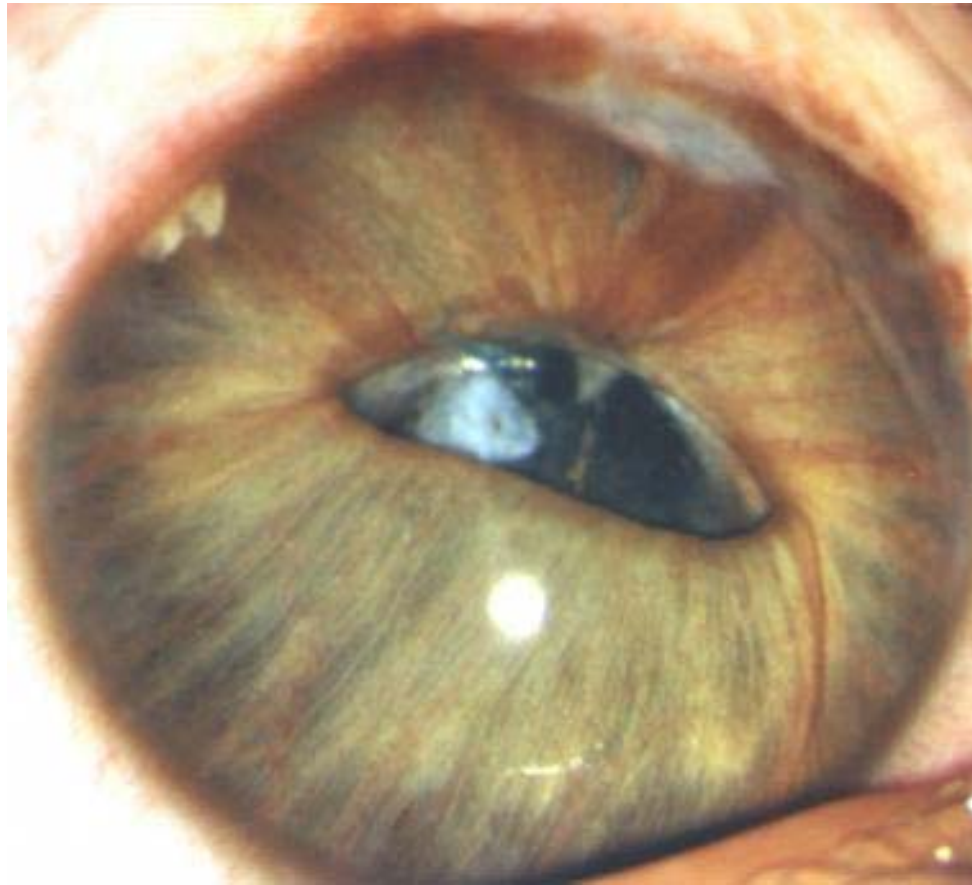
The pediatric population. As a general rule, the younger the pt, the more likely they are to develop pseudophakic pupillary block.

AC after CE
(post-op period)

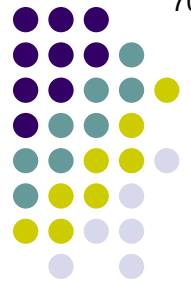
P?



Shallow Anterior Chamber After Cataract Surgery



The patient is 6 years old. Closure of peripheral iridectomy, lens decentration, partial pupil capture, and adhesions between the optic and the iris have produced pupillary block. One of the loops has started cheese-wiring the iris. Iris bombé is all around. Iris incision line adhesions are visible.



Shallow Anterior Chamber After Cataract Surgery

What is the mechanism underlying pupillary block?

Apposition between the pupil margin and the IOL prevents the normal flow of aqueous from the posterior chamber to the AC. This results in a pressure gradient across the iris, causing it to bow forward. In doing so, the peripheral iris interferes with the egress of aqueous through the TM. The net result is a normal-to-high IOP and shallowed AC.

Which pt population is particularly prone to pseudophakic pupillary block?

The pediatric population. As a general rule, the younger the pt, the more likely they are to develop pseudophakic pupillary block.

In adults, what class of IOL is most likely to produce pseudophakic pupillary block?

AC after CE (post-op period)

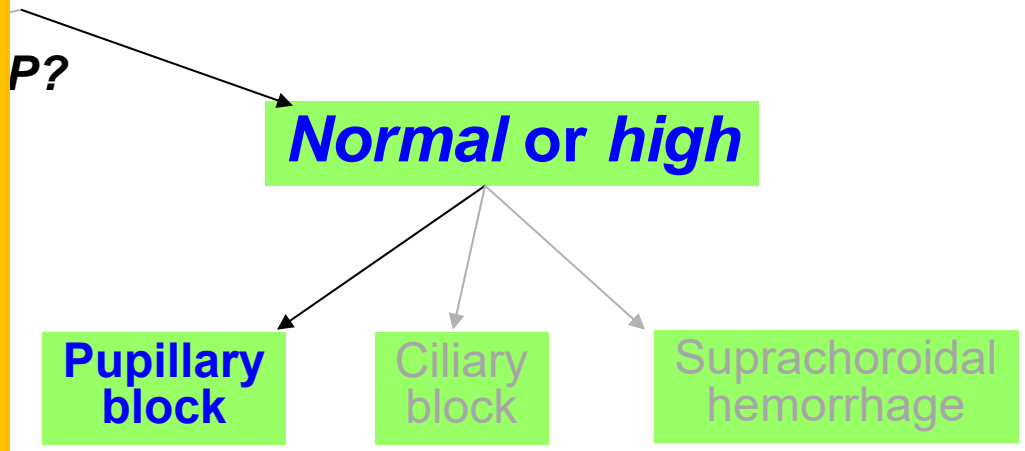
P?

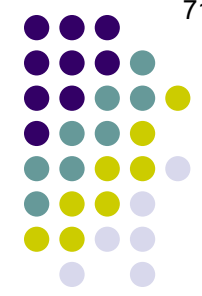
Normal or high

Pupillary block

Ciliary block

Suprachoroidal hemorrhage





Shallow Anterior Chamber After Cataract Surgery

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AC IOLs, especially if the surgeon fails to perform an iridectomy at the time of IOL implantation

AC after CE (post-op period)

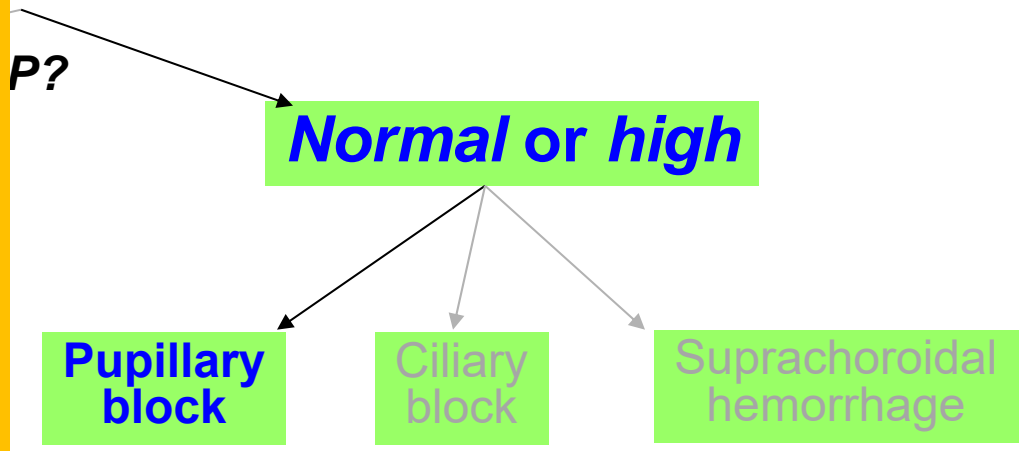
P?

Normal or high

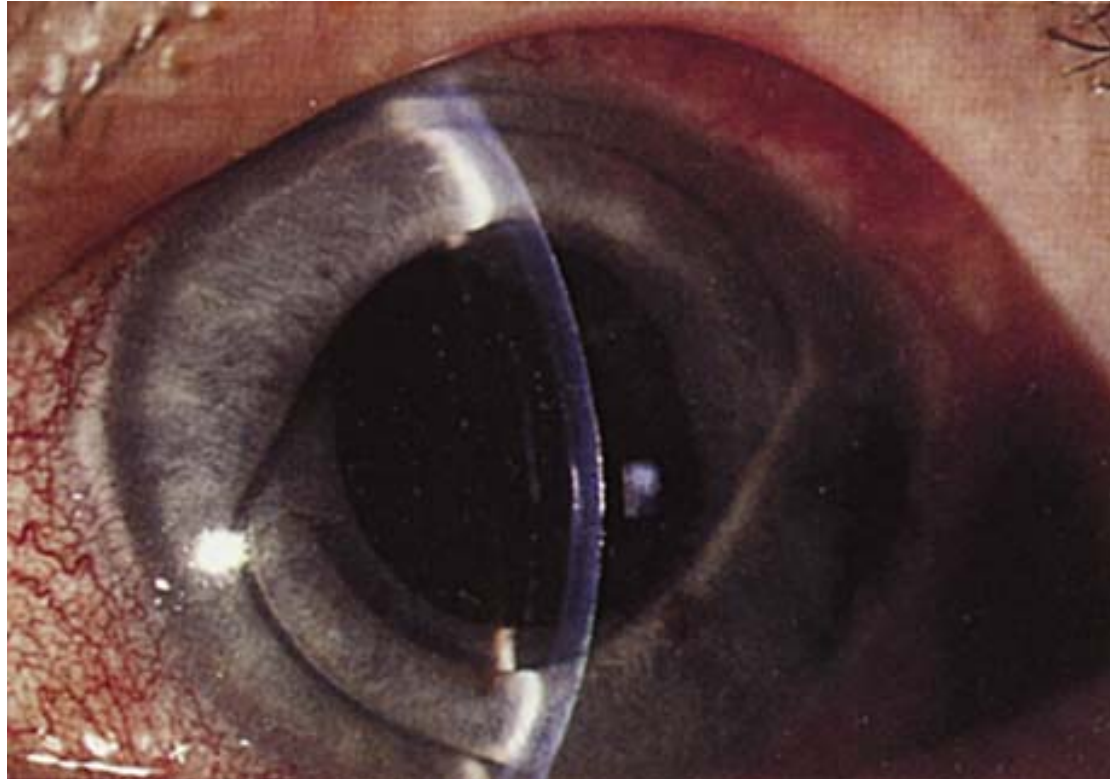
Pupillary block

Ciliary block

Suprachoroidal hemorrhage



Shallow Anterior Chamber After Cataract Surgery



That feeling when an AC IOL is implanted, but the surgeon forgets to create a PI



Shallow Anterior Chamber After Cataract Surgery

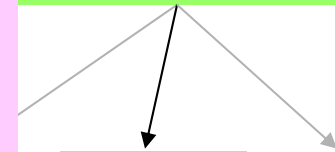
What is ciliary block glaucoma?

E

Normal or high

Ciliary block

Suprachoroidal hemorrhage



Shallow Anterior Chamber After Cataract Surgery

What is ciliary block glaucoma?

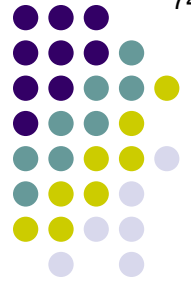
A rare condition in which anterior rotation of the ciliary body causes newly-produced aqueous to be directed posteriorly, toward and perhaps into or behind the vitreous body

E

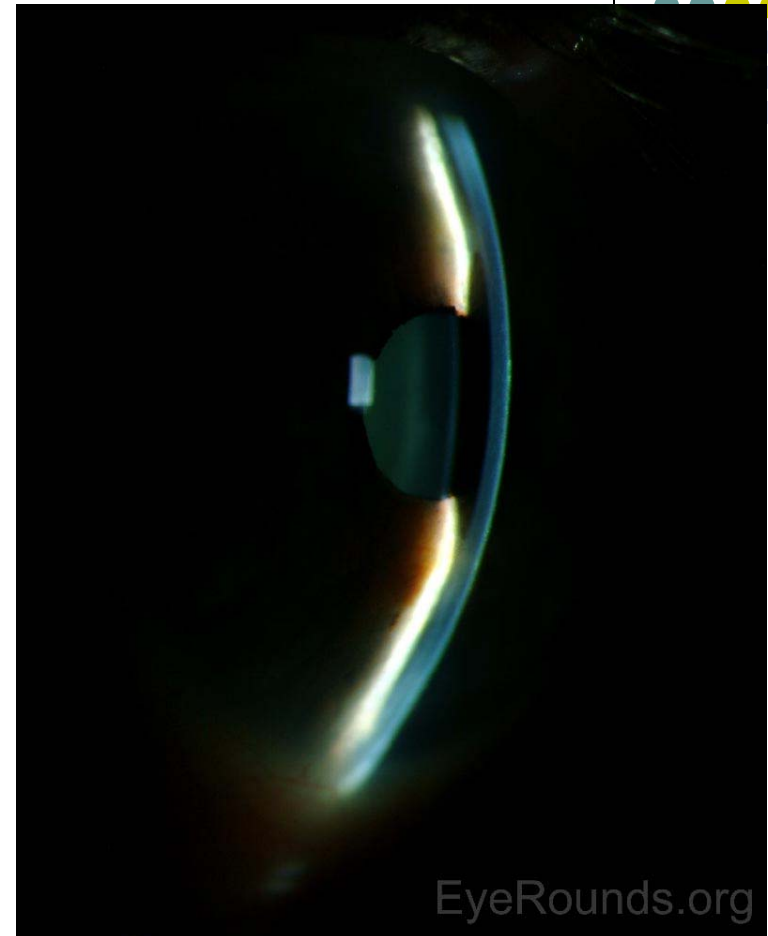
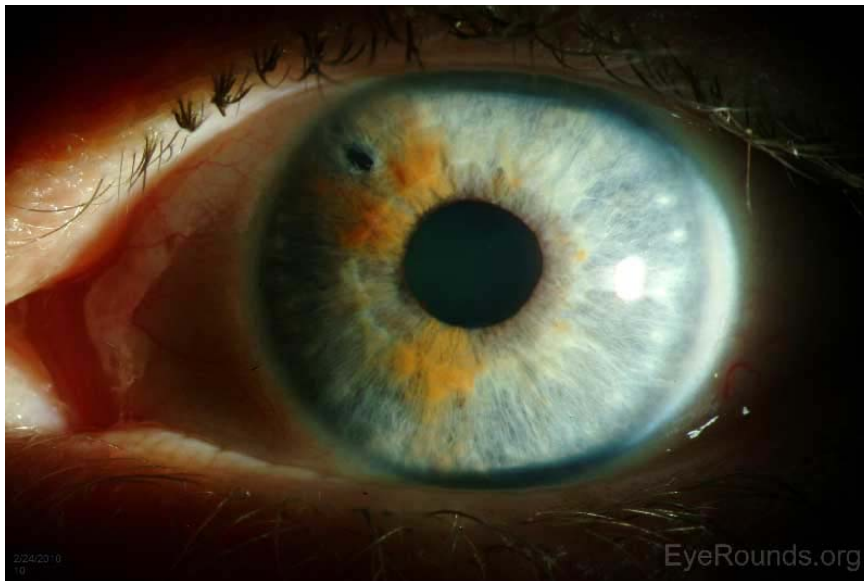
Normal or high

**Ciliary
block**

**Suprachoroidal
hemorrhage**

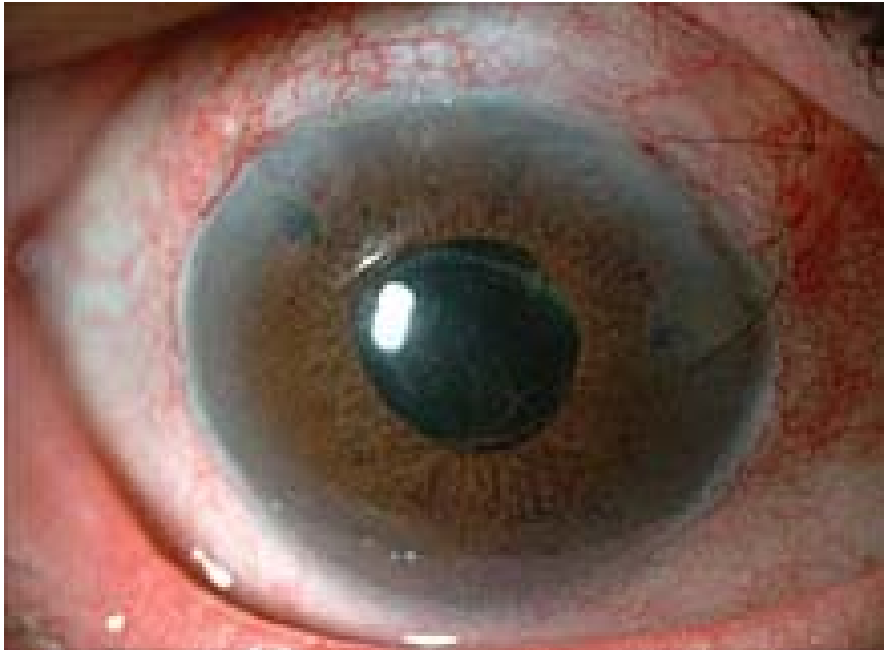


Shallow Anterior Chamber After Cataract Surgery

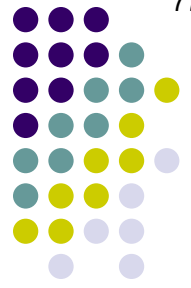


Ciliary block glaucoma. Lateral illumination produces shadowing nasally, revealing the extent of AC shallowing. Note the presence of an LPI, ineffective because pupillary block is not present.

Shallow Anterior Chamber After Cataract Surgery



Ciliary block glaucoma. AS-OCT reveals the extent of AC shallowing. Note again the presence of an ineffective LPI.



Shallow Anterior Chamber After Cataract Surgery

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A rare condition in which anterior rotation of the ciliary body causes newly-produced aqueous to be directed posteriorly, toward and perhaps into or behind the vitreous body

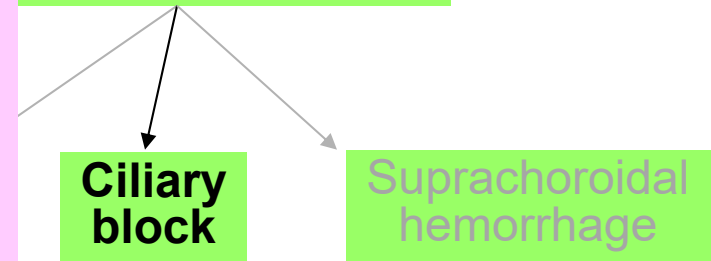
Is it common, or rare?

E

Normal or high

Ciliary block

Suprachoroidal hemorrhage





Shallow Anterior Chamber After Cataract Surgery

What is ciliary block glaucoma?

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Rare

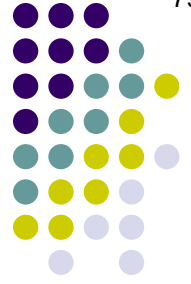
E

Normal or high

**Ciliary
block**

**Suprachoroidal
hemorrhage**

Shallow Anterior Chamber After Cataract Surgery



What is ciliary block glaucoma?

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Is it common, or rare?

Rare

What is the chief risk factor?

E

Normal or high

**Ciliary
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Shallow Anterior Chamber After Cataract Surgery

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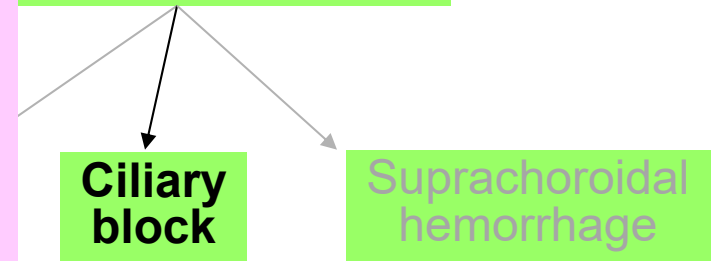
Intraocular surgery in an eye with tight angles

E

Normal or high

**Ciliary
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**Suprachoroidal
hemorrhage**



Shallow Anterior Chamber After Cataract Surgery



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Intraocular surgery in an eye with tight angles

How is ciliary block glaucoma managed medically?

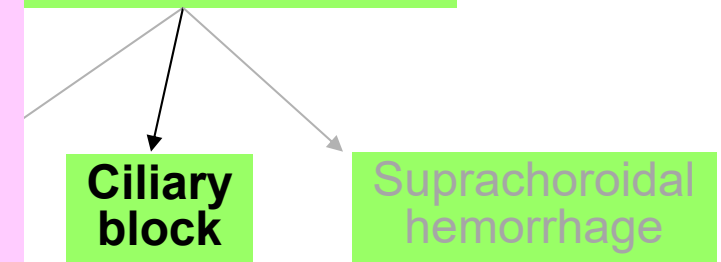
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E

Normal or high



Shallow Anterior Chamber After Cataract Surgery

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Intraocular surgery in an eye with tight angles

How is ciliary block glaucoma managed medically?

--Aqueous suppressants

--Aggressive cycloplegia (atropine 1% and phenylephrine 10% qid)

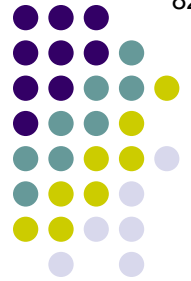
--Dehydration of the vitreous with hyperosmotic agents

E

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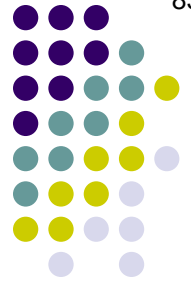
What about surgical management--is it usually necessary?

E

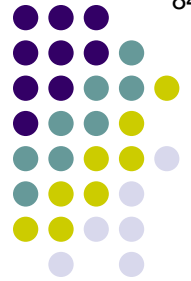
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**Suprachoroidal
hemorrhage**



Shallow Anterior Chamber After Cataract Surgery



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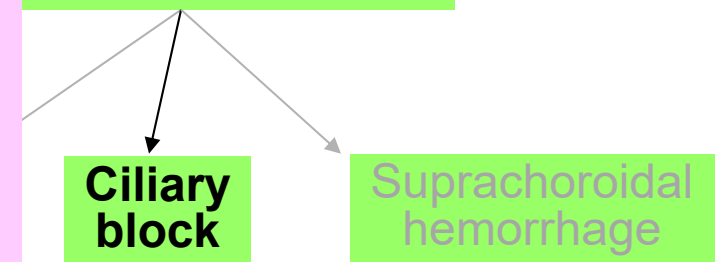
--Dehydration of the vitreous with hyperosmotic agents

What about surgical management--is it usually necessary?

Yes; surgical or laser disruption of the vitreous face is often required for resolution

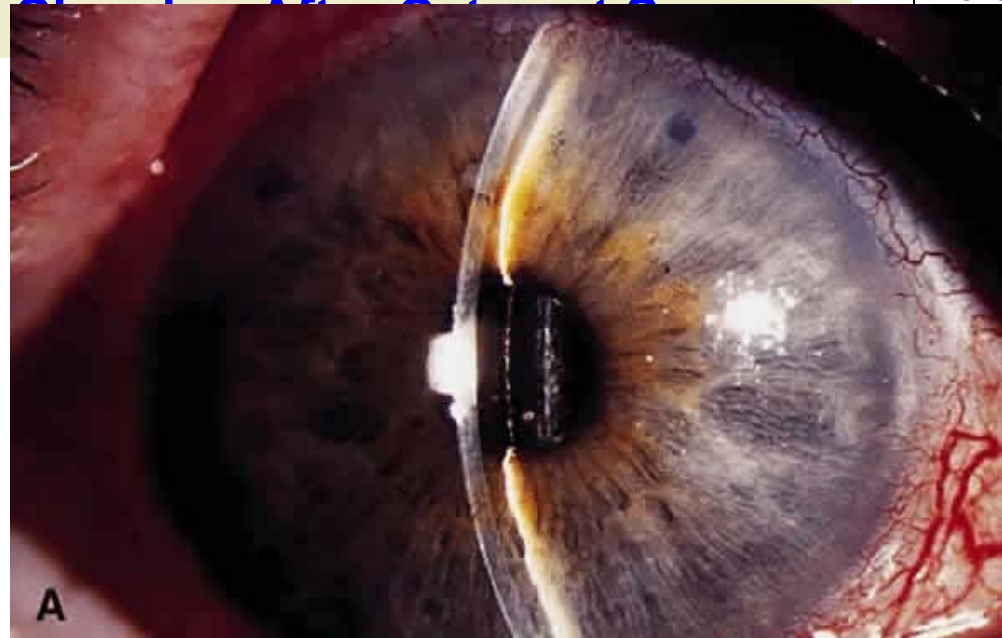
E

Normal or high



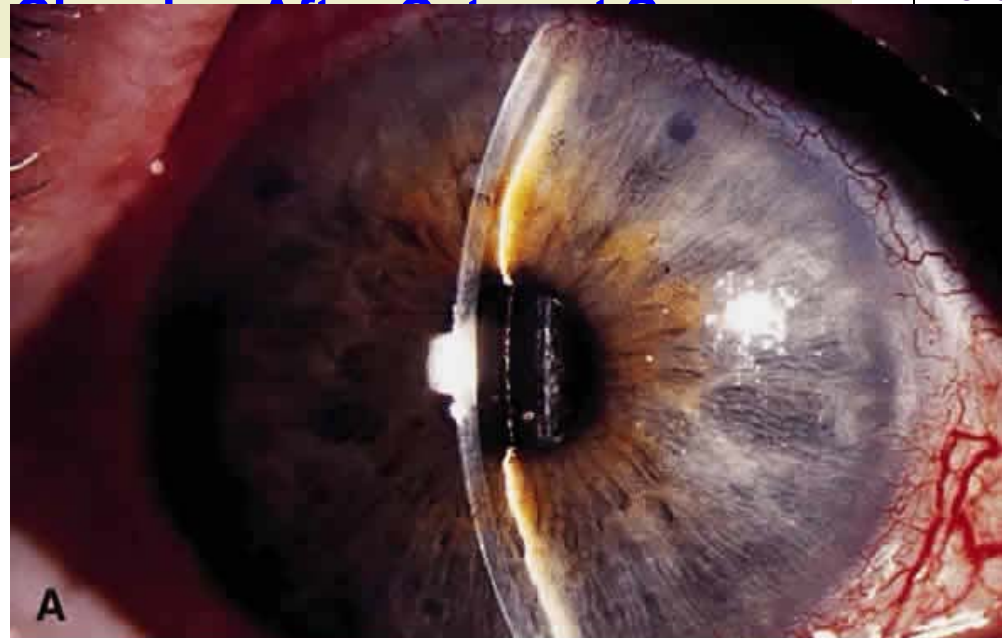
Shallow Anterior Chamber

Aqueous misdirection. The anterior chamber is shallow. Two patent peripheral iridotomies are barely seen at the 10- and 1-o'clock positions. Intraocular pressure was 42 mmHg.

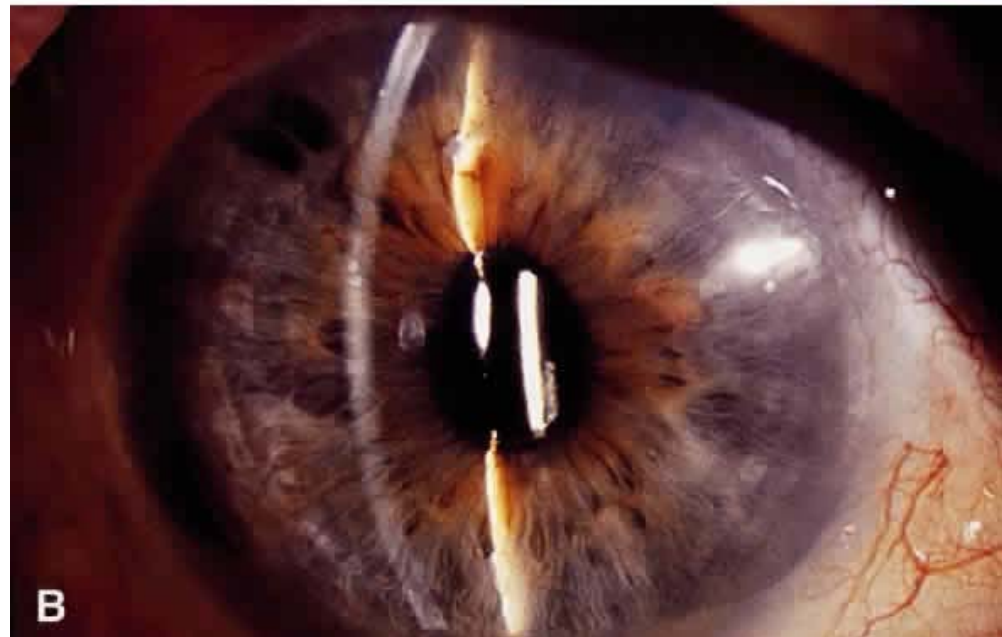


Shallow Anterior Chamber After Cataract

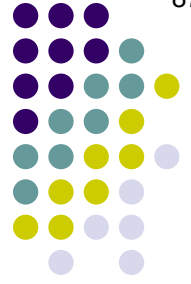
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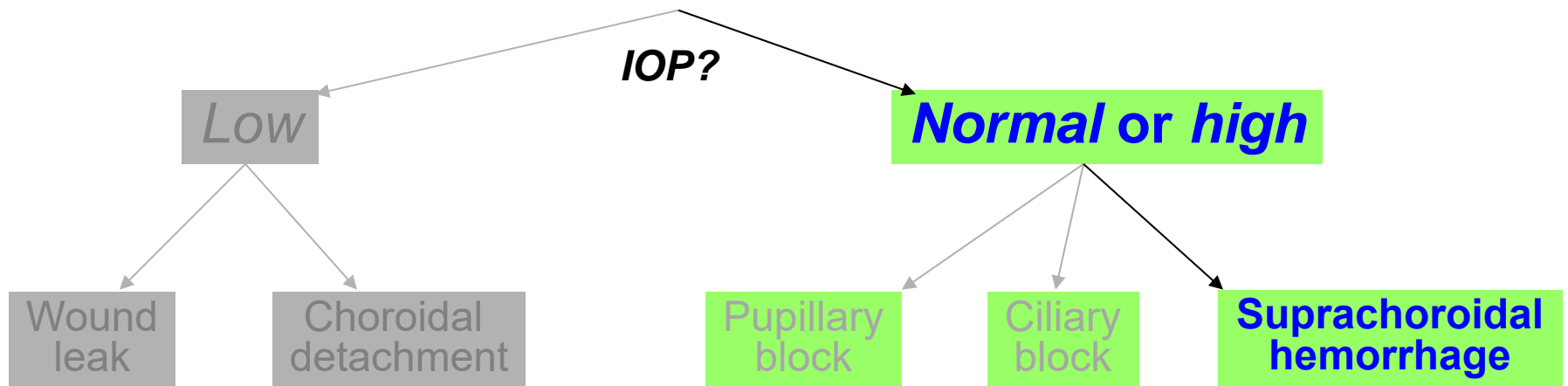
Same eye 4 weeks after pars plana tube insertion of aqueous shunt with vitrectomy. The anterior chamber is deep. The temporal iridectomy is enlarged. Intraocular pressure was 12 mmHg.



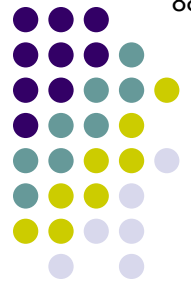
Shallow Anterior Chamber After Cataract Surgery



Shallow/flat AC after CE
(early post-op period)

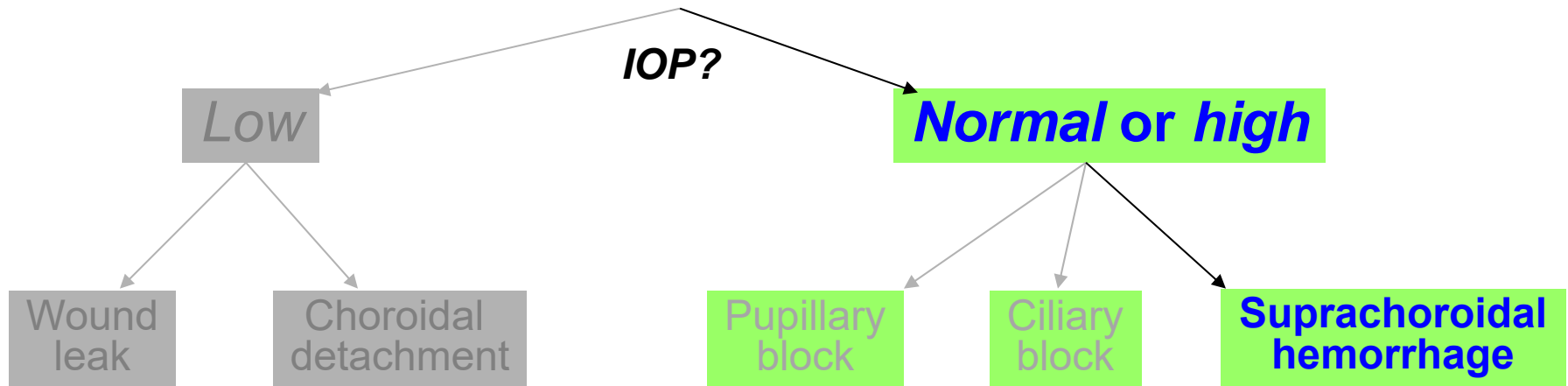


What is the classic presentation of a post-op suprachoroidal hemorrhage, ie, what will the pt complain of?



Shallow Anterior Chamber After Cataract Surgery

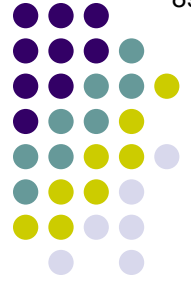
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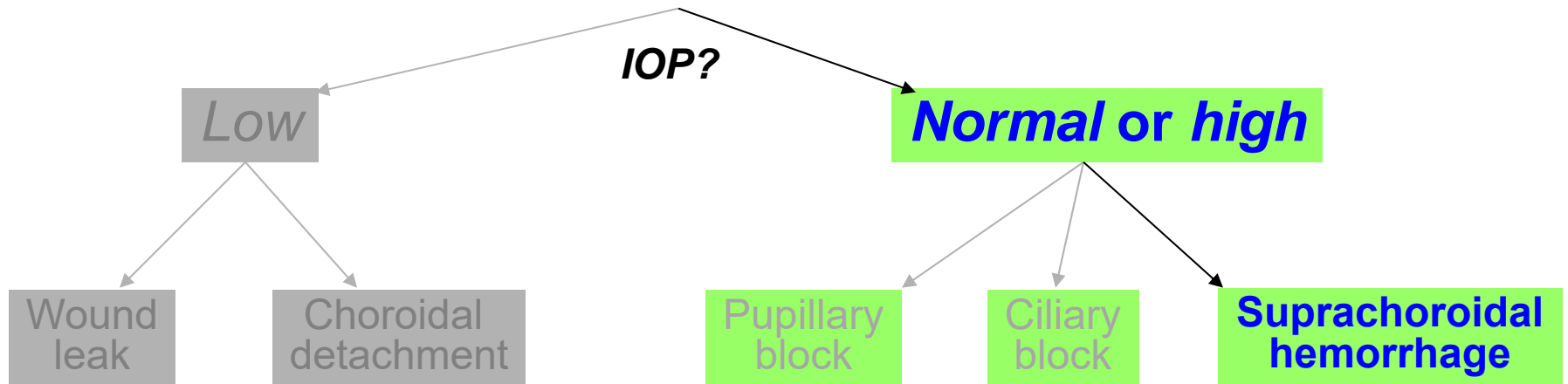
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The pt will complain of the sudden onset of and

Shallow Anterior Chamber After Cataract Surgery



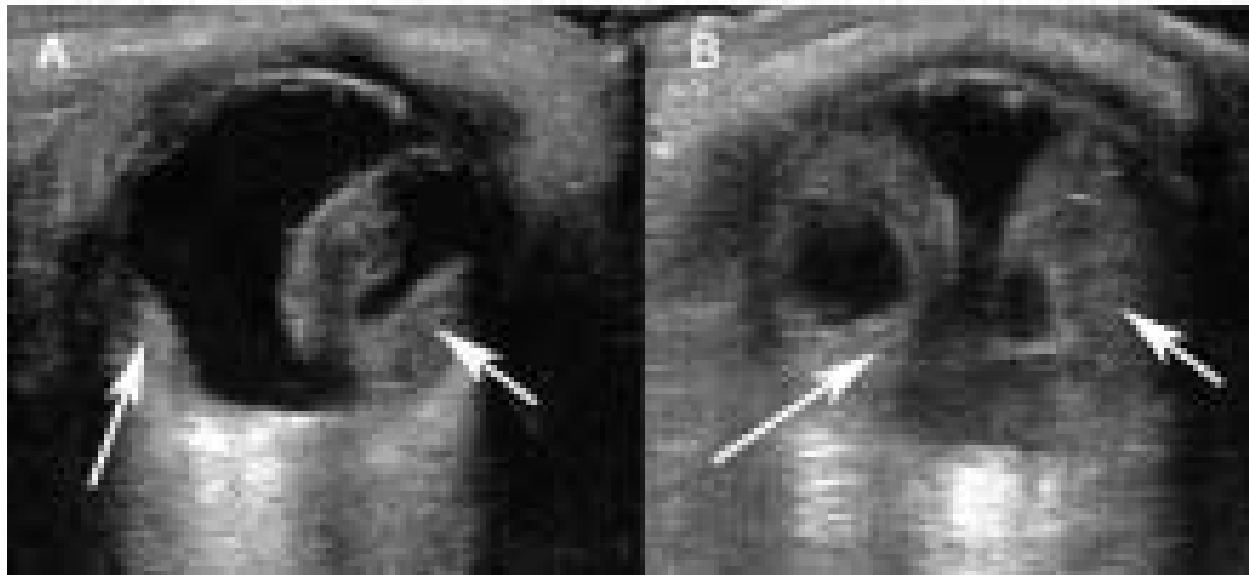
Shallow/flat AC after CE
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What is the classic presentation of a post-op suprachoroidal hemorrhage, ie, what will the pt complain of?

The pt will complain of the sudden onset of **vision loss** and **excruciating pain**

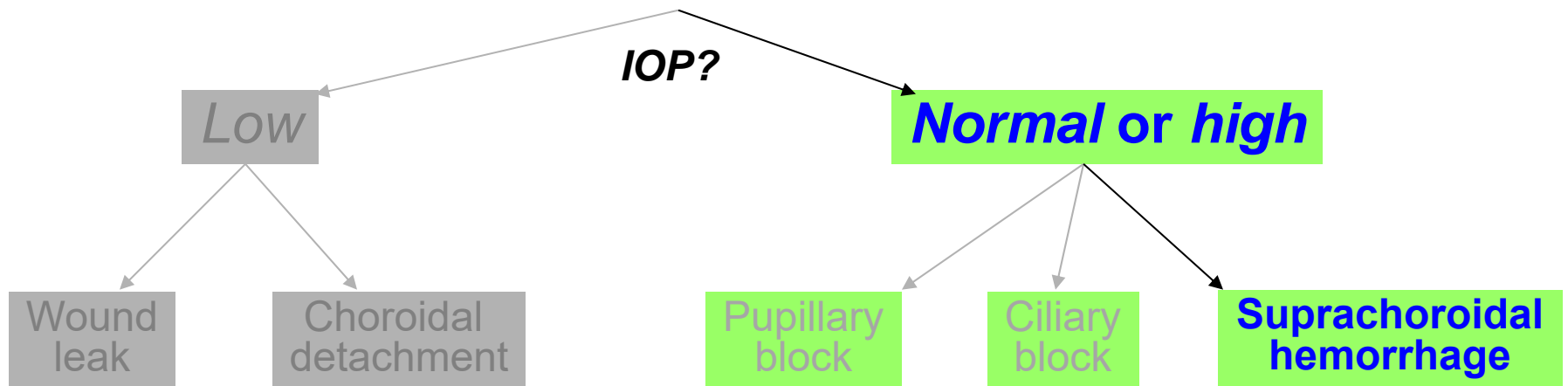
Shallow Anterior Chamber After Cataract Surgery



Suprachoroidal hemorrhage

Shallow Anterior Chamber After Cataract Surgery

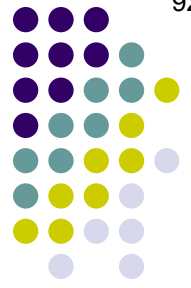
Shallow/flat AC after CE
(early post-op period)



What is the classic presentation of a post-op suprachoroidal hemorrhage, ie, what will the pt complain of?

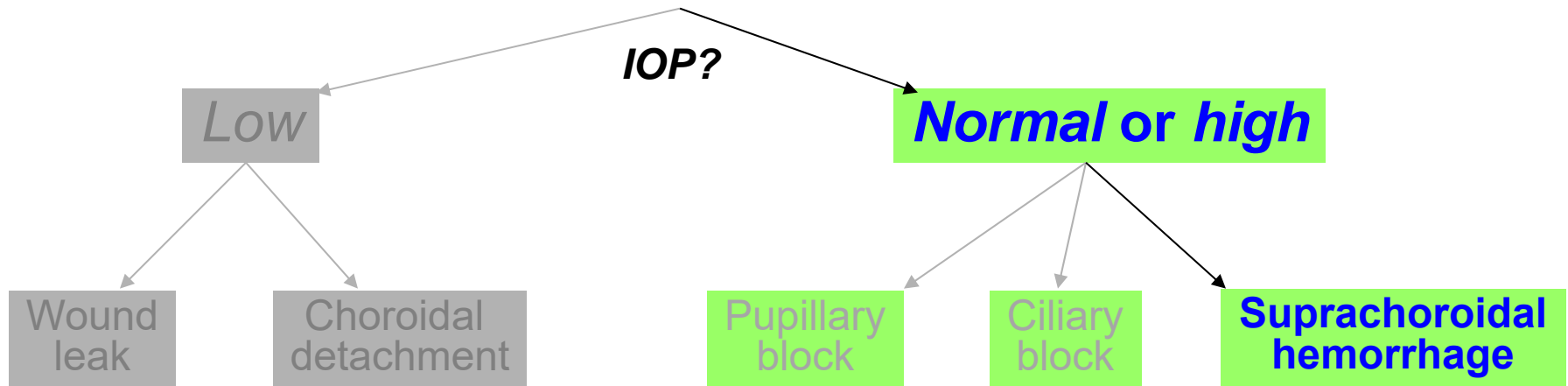
The pt will complain of the sudden onset of **vision loss** and **excruciating pain**

Is the vision loss usually mild, or severe?



Shallow Anterior Chamber After Cataract Surgery

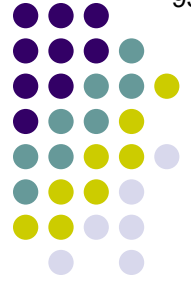
Shallow/flat AC after CE
(early post-op period)



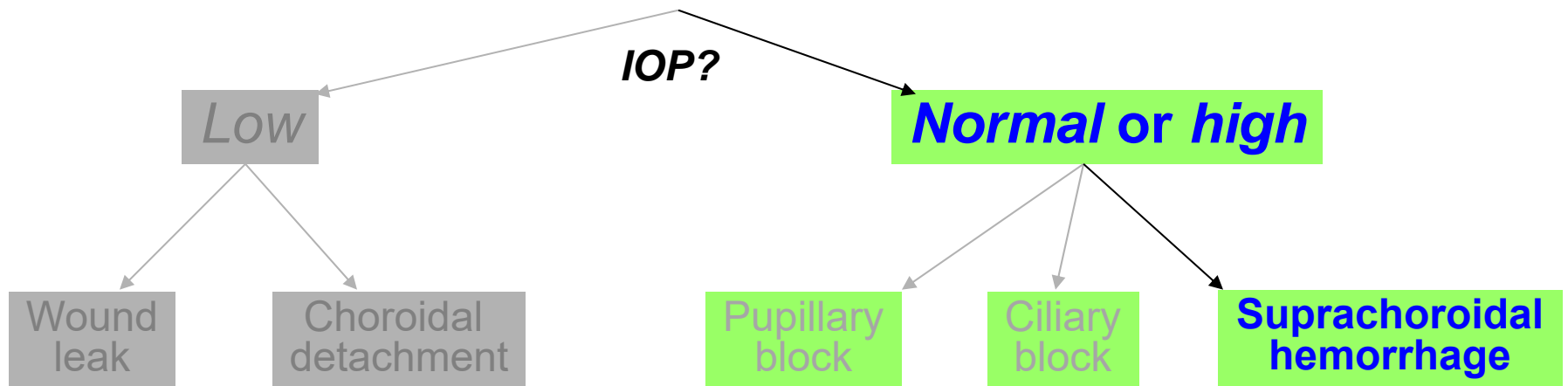
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Is the vision loss usually mild, or severe?
Severe

Shallow Anterior Chamber After Cataract Surgery



Shallow/flat AC after CE
(early post-op period)

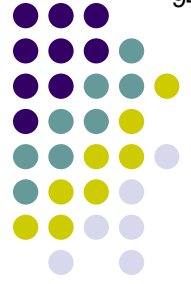


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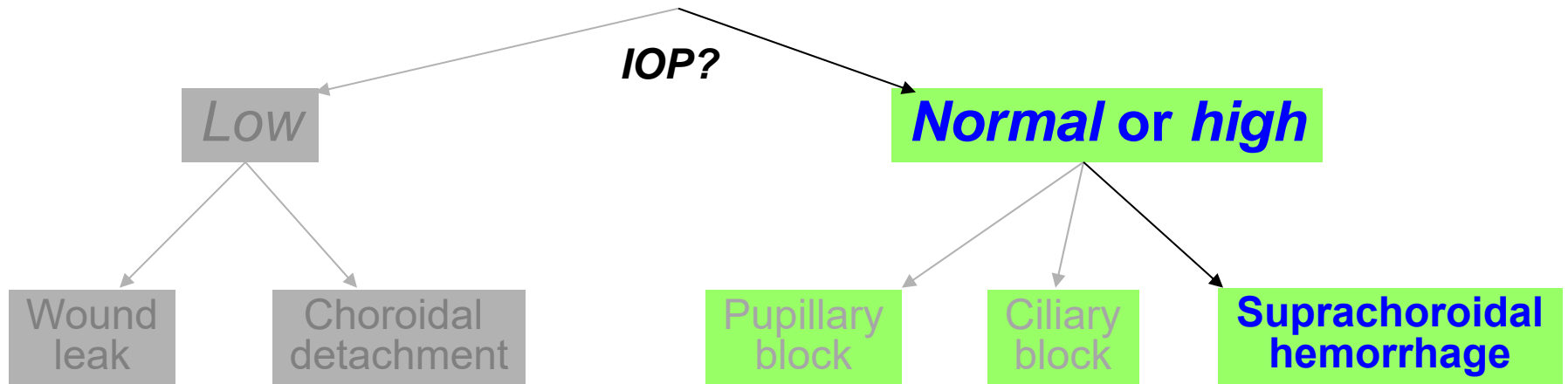
The pt will complain of the sudden onset of **vision loss** and **excruciating pain**

What word classically characterizes the nature of the pain?

Shallow Anterior Chamber After Cataract Surgery



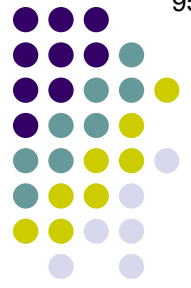
Shallow/flat AC after CE
(early post-op period)



What is the classic presentation of a post-op suprachoroidal hemorrhage, ie, what will the pt complain of?

The pt will complain of the sudden onset of **vision loss** and **excruciating pain**

What word classically characterizes the nature of the pain?
'Throbbing'



Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)

IOP?

Low

Normal or high

Wound leak

Serous

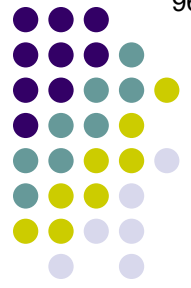
Choroidal detachment

Is a **serous** choroidal detachment associated with pain?

Serous choroidal detachment

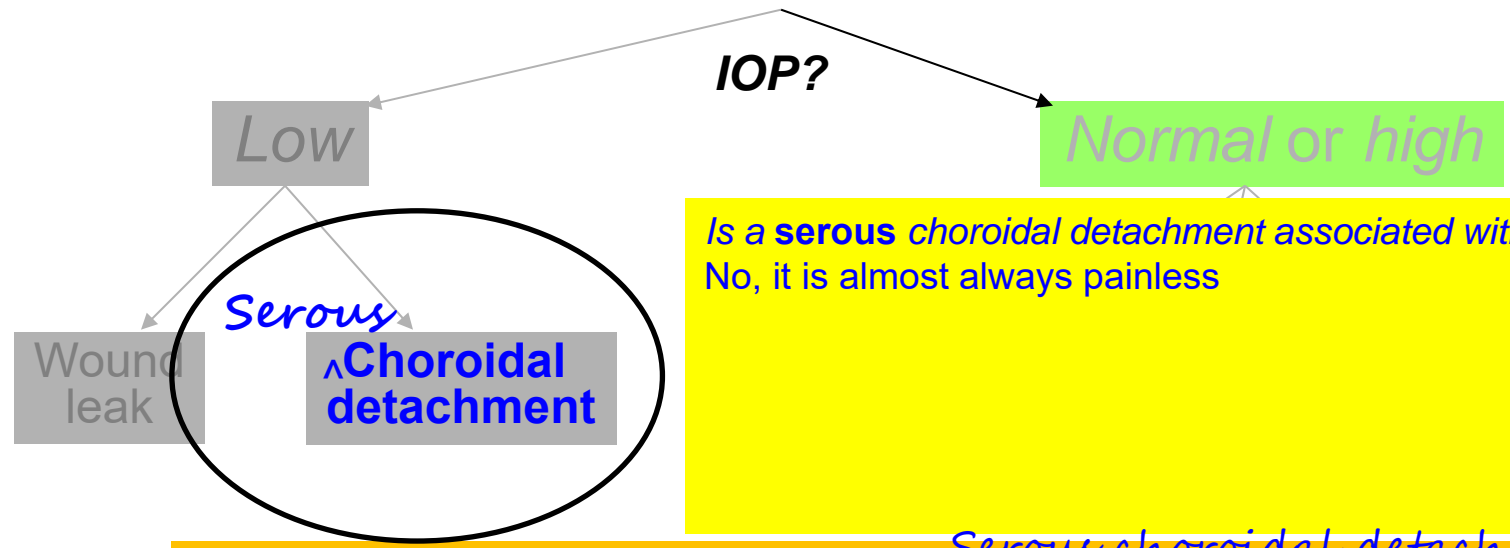
What is the classic presentation of a post-op suprachoroidal hemorrhage, ie, what will the pt complain of?

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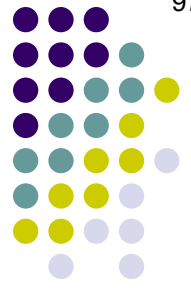


Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE (early post-op period)

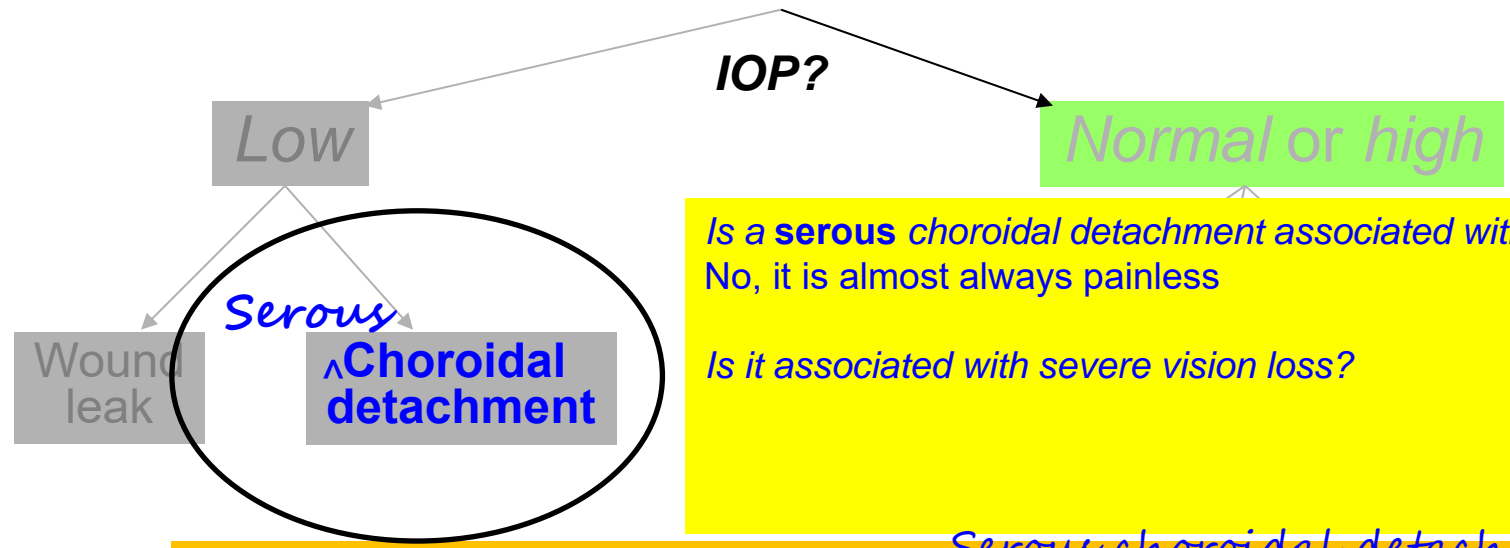


Serous choroidal detachment
 What is the classic presentation of a post-op suprachoroidal hemorrhage, ie, what will the pt complain of?
 The pt will complain of the sudden onset of vision loss and **excruciating pain**? No



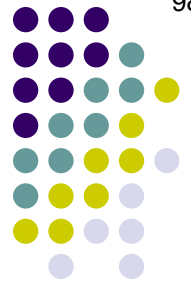
Shallow Anterior Chamber After Cataract Surgery

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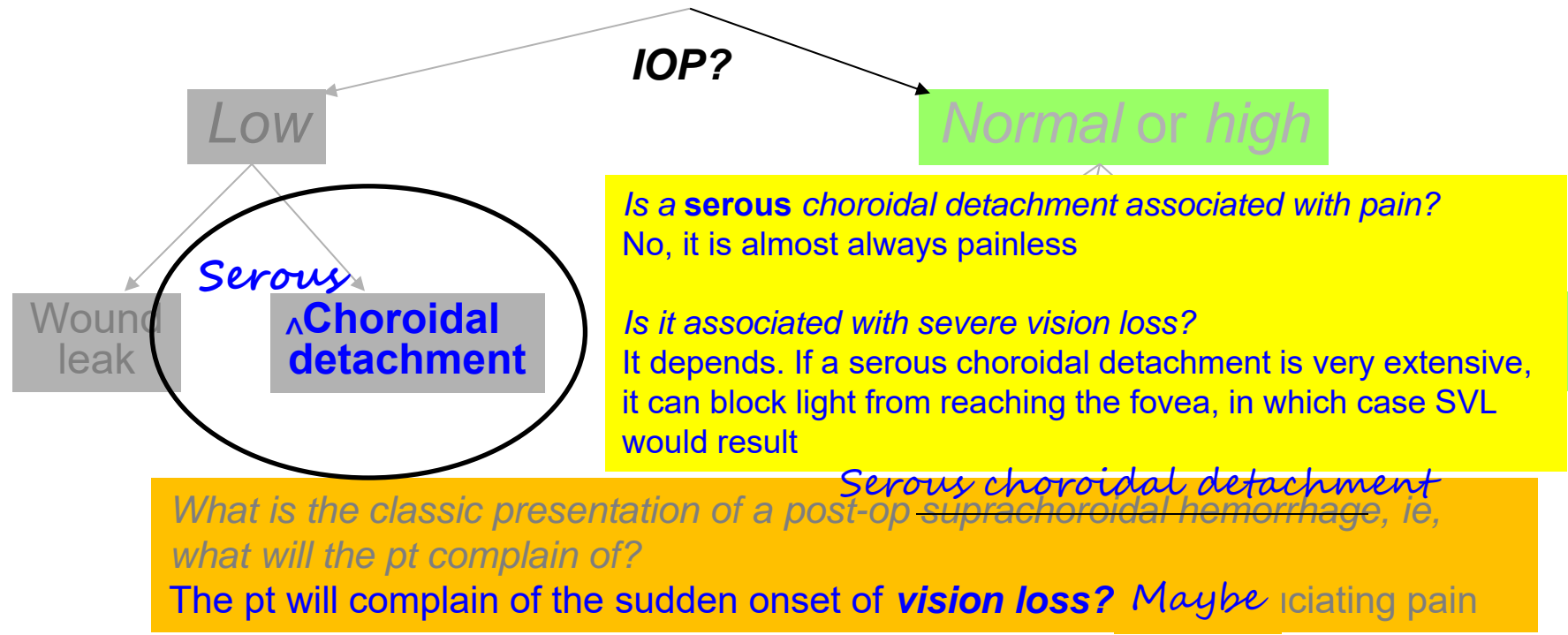
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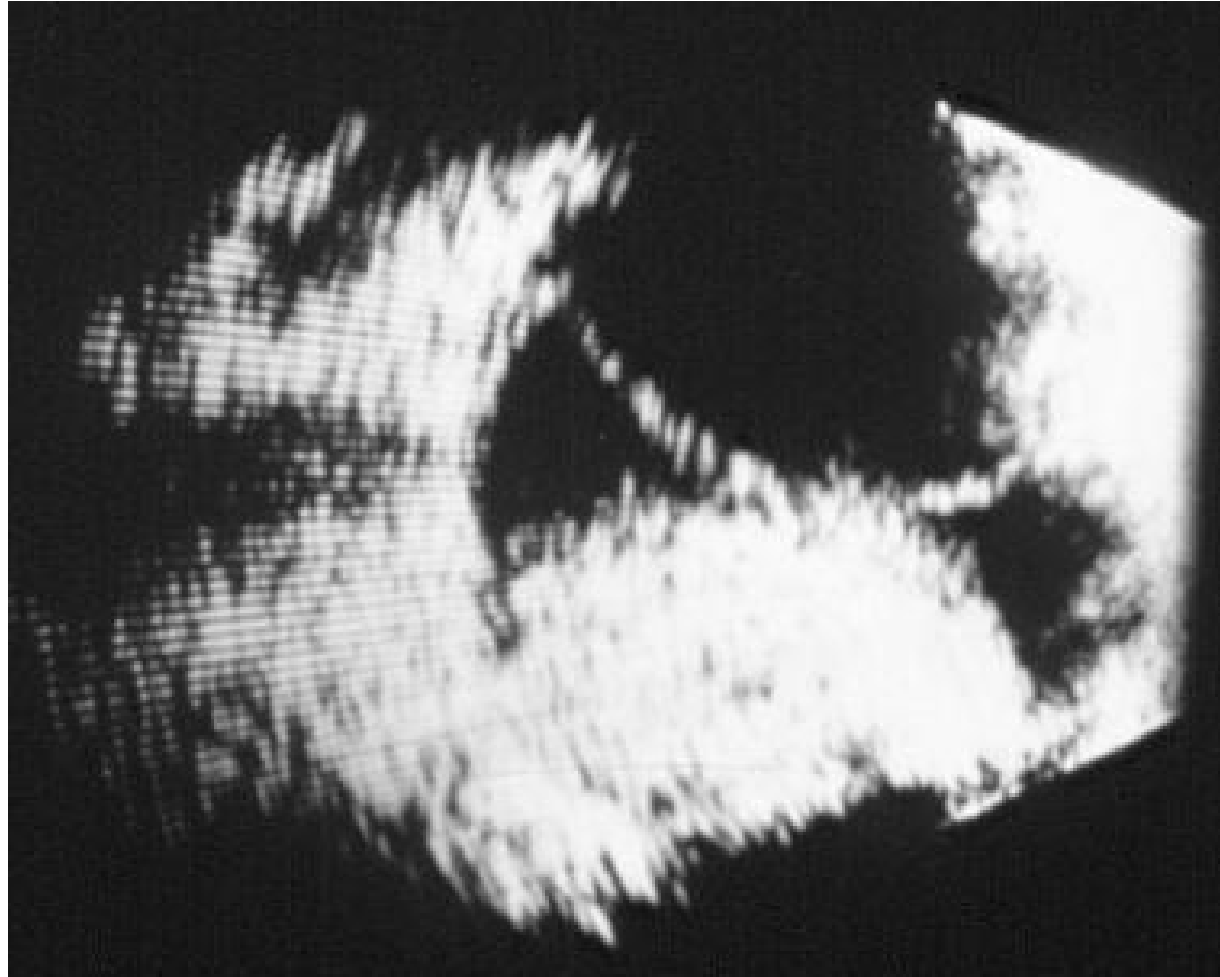


Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE (early post-op period)

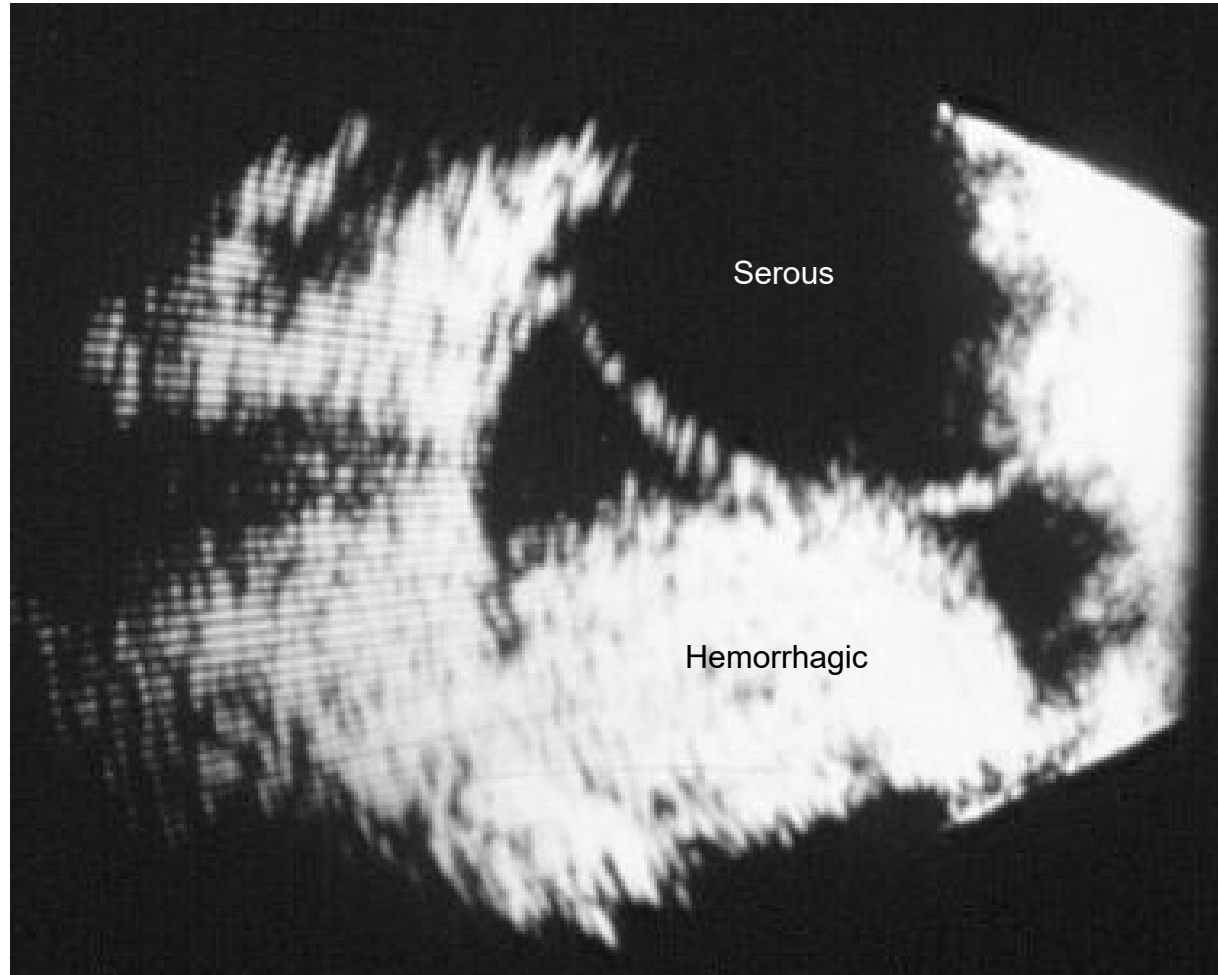


Shallow Anterior Chamber After Cataract Surgery

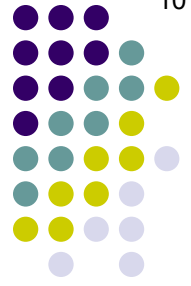


Is this suprachoroidal effusion serous, or hemorrhagic?

Shallow Anterior Chamber After Cataract Surgery

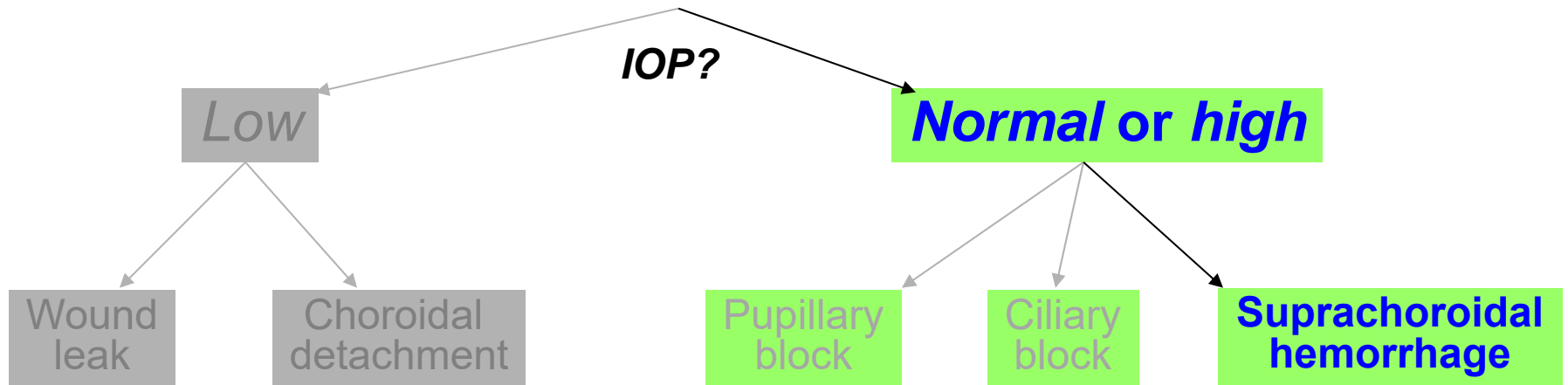


*Is this suprachoroidal effusion serous, or hemorrhagic? It's **both***



Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)



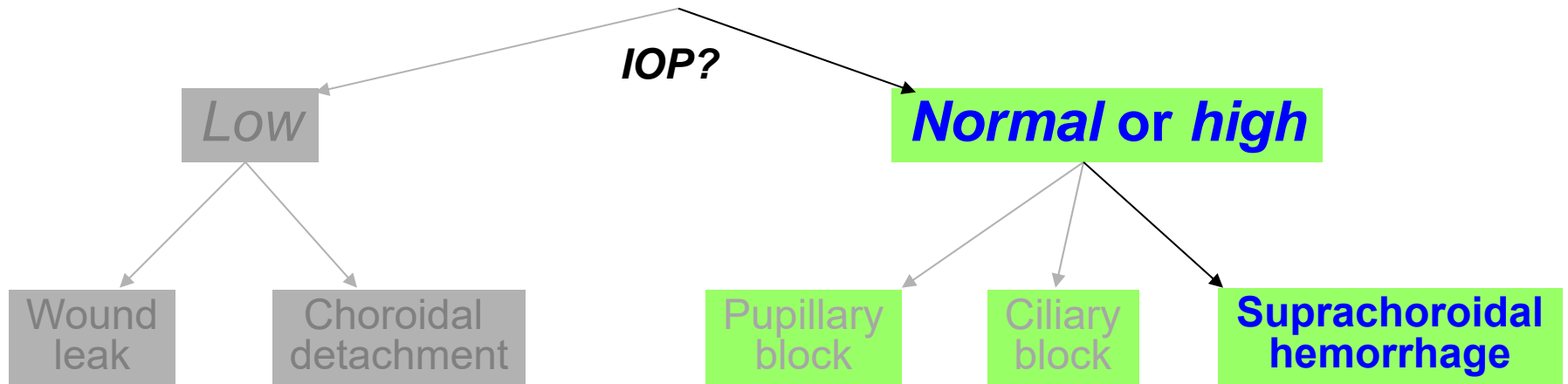
What factors put an eye at risk for post-op suprachoroidal hemorrhage?

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--(there are a number of others)

Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)

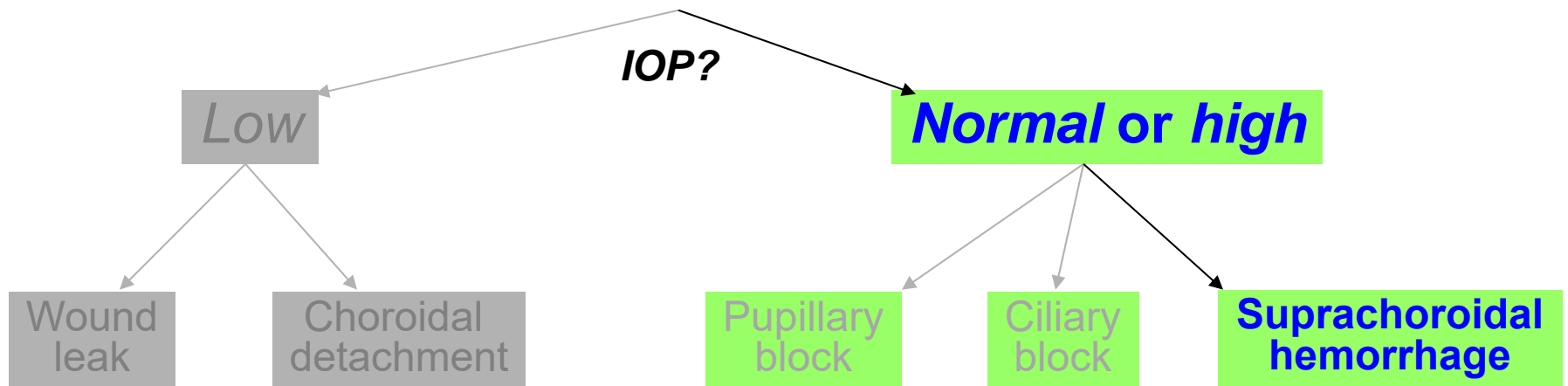


What factors put an eye at risk for post-op suprachoroidal hemorrhage?

- High myopia
- Nanophthalmia
- Sturge-Weber syndrome
- Hypertension
- Glaucoma
- (there are a number of others)

Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)



What factors put an eye at risk for post-op suprachoroidal hemorrhage?

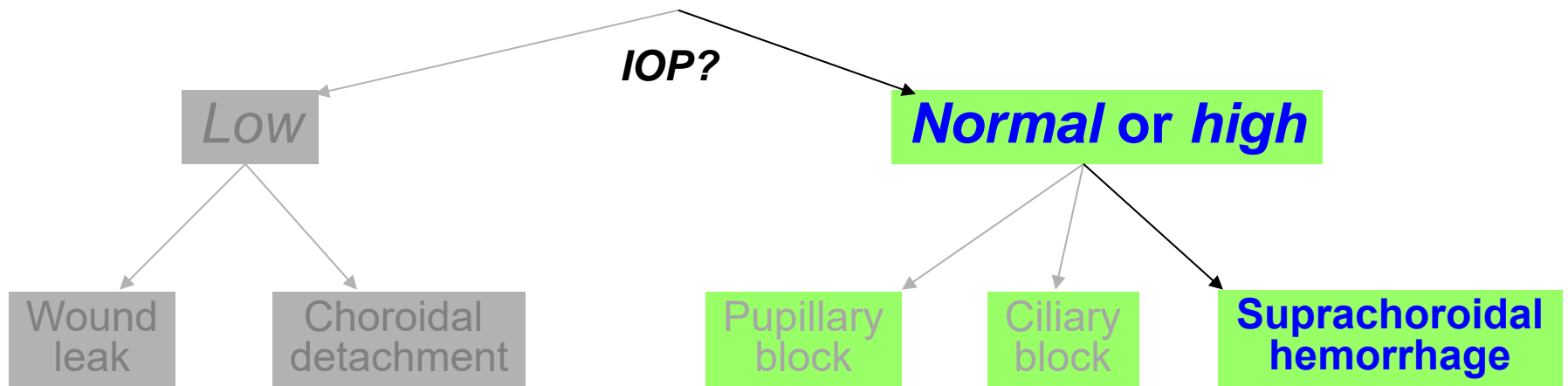
--High myopia

Do the others include being in anticoagulated state?

--(there are a number of others)

Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
(early post-op period)



What factors put an eye at risk for post-op suprachoroidal hemorrhage?

--High myopia

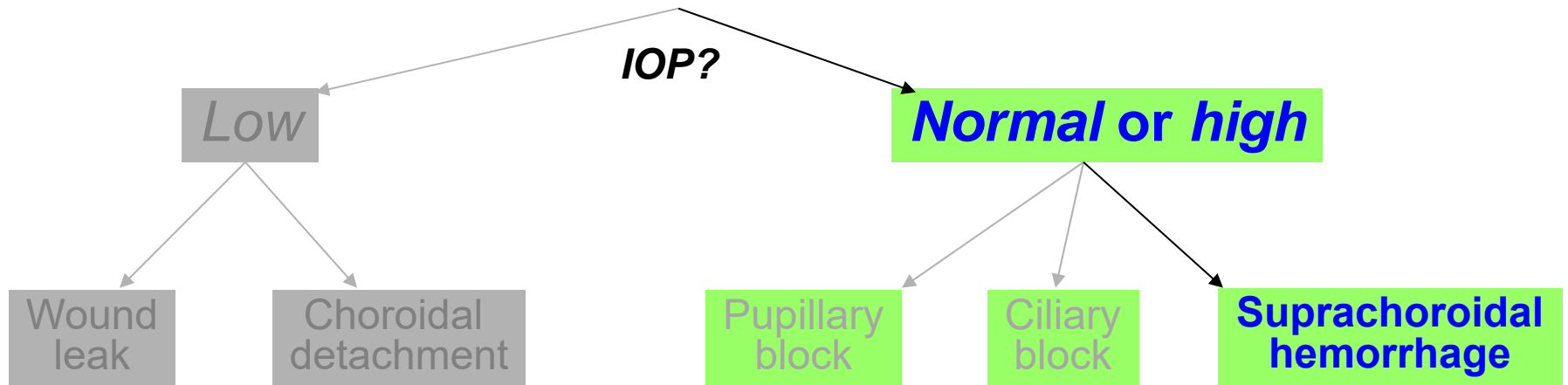
Do the others include being in anticoagulated state?

Surprisingly, no. Long thought to be a risk factor for intra- and post-op hemorrhage, a large clinical trial found no evidence for this.

--(there are a number of others)

Shallow Anterior Chamber After Cataract Surgery

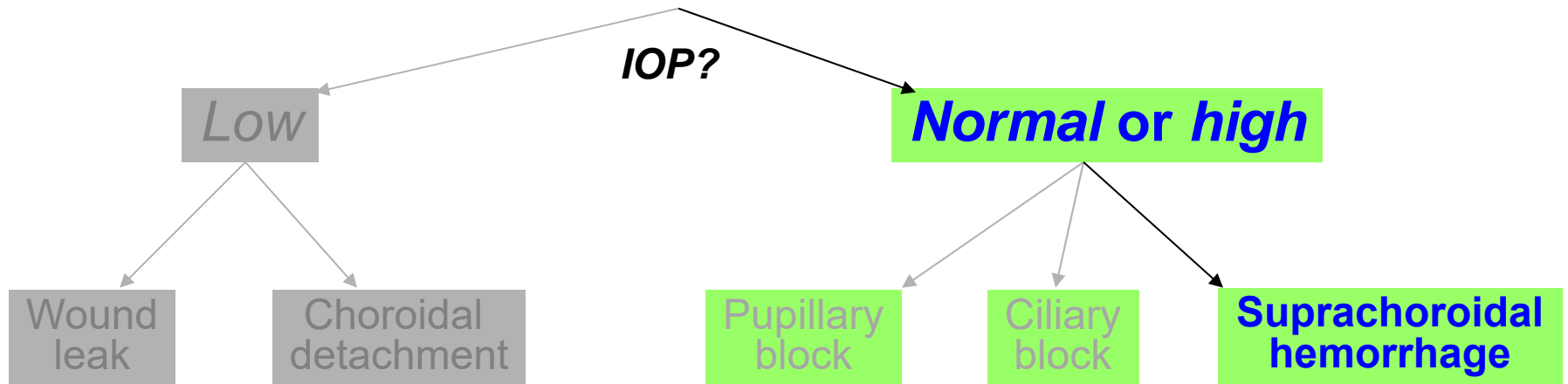
Shallow/flat AC after CE
(early post-op period)



What is the classic precipitating event for a post-op suprachoroidal hemorrhage?

Shallow Anterior Chamber After Cataract Surgery

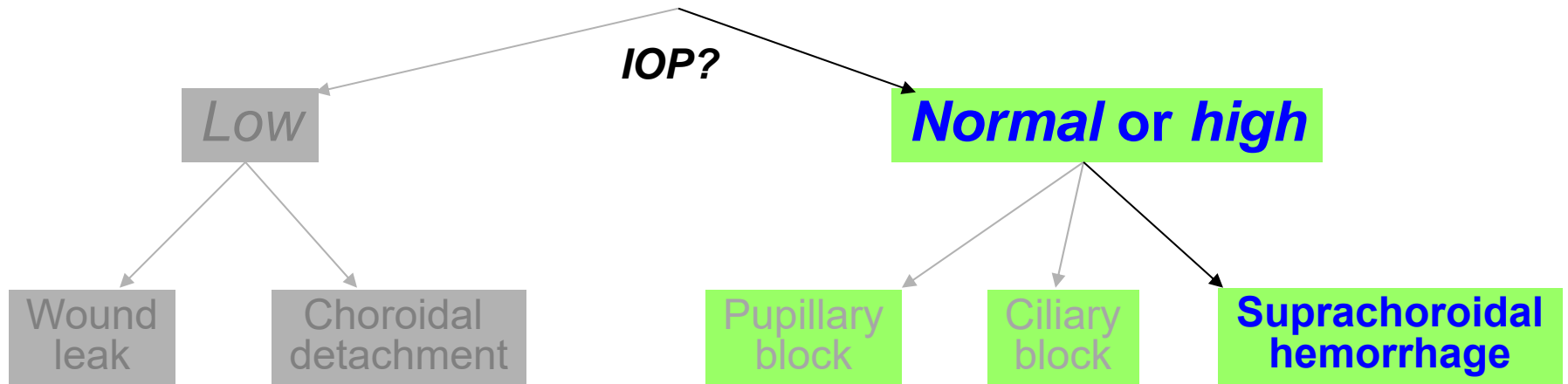
Shallow/flat AC after CE
(early post-op period)



*What is the classic precipitating event for a post-op suprachoroidal hemorrhage?
A Valsalva maneuver on the part of the pt (eg, sneezing; coughing; straining at stool)*

Shallow Anterior Chamber After Cataract Surgery

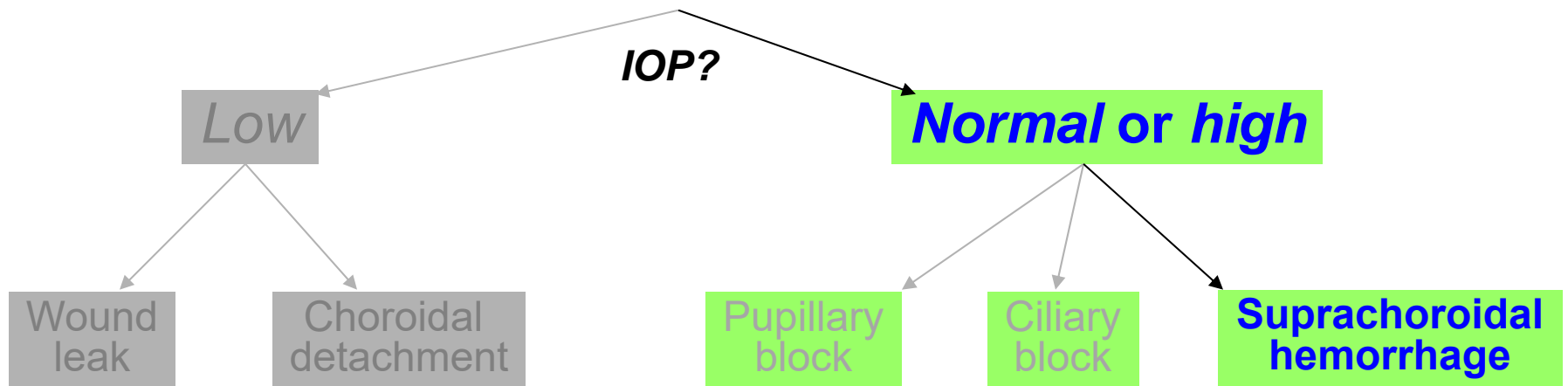
Shallow/flat AC after CE
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How is a suprachoroidal hemorrhage managed?

Shallow Anterior Chamber After Cataract Surgery

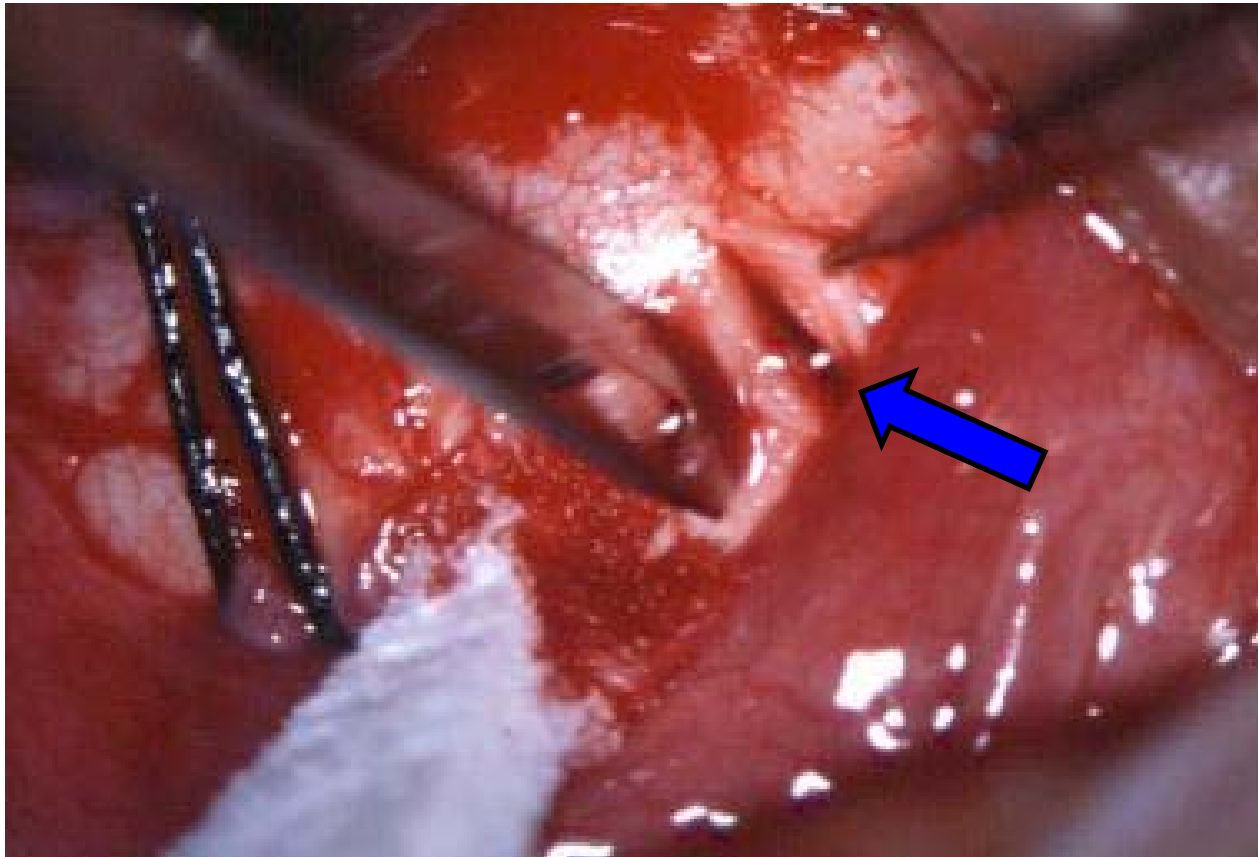
Shallow/flat AC after CE
(early post-op period)



How is a suprachoroidal hemorrhage managed?

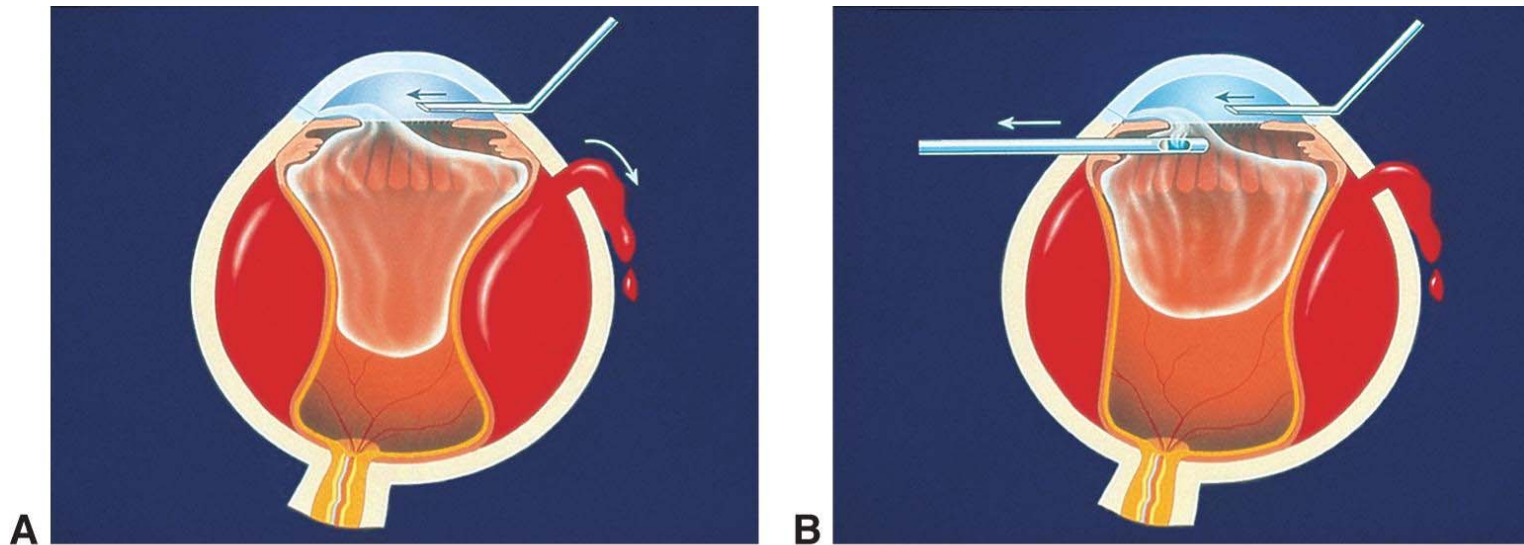
If not too severe (ie, the AC is not flat; the IOP not too high; the pt not in too much pain; no kissing choroidal present), medical management with aggressive cycloplegia and aqueous suppressants can be attempted. Otherwise, sclerotomy surgery is indicated.

Shallow Anterior Chamber After Cataract Surgery



Suprachoroidal hemorrhage: Drainage via sclerotomy

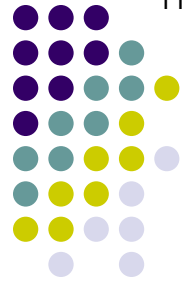
Shallow Anterior Chamber After Cataract Surgery



Suprachoroidal hemorrhage. A, Schematic shows anterior infusion and simultaneous drainage of suprachoroidal hemorrhage through pars plana sclerotomy. B, Schematic shows pars plana vitrectomy to remove vitreous prolapse as drainage of suprachoroidal hemorrhage continues

During
Shallow Anterior Chamber ~~After~~ Cataract Surgery

during
Shallow/flat AC ~~after~~ CE



*With regard to an **intraoperative** shallowing of the AC, one of these entities is closely related to the most dreaded intraoperative complication of all. What is that most dreaded of complications?*

Wound
leak

Choroidal
detachment

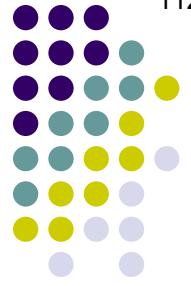
Pupillary
block

Ciliary
block

Suprachoroidal
hemorrhage

Shallow Anterior Chamber ^{During} ~~After~~ Cataract Surgery

Shallow/flat AC ^{during} ~~after~~ CE



With regard to an **intraoperative** shallowing of the AC, one of these entities is closely related to the most dreaded intraoperative complication of all. What is that most dreaded of complications? The **expulsive choroidal hemorrhage**

Wound
leak

Choroidal
detachment

Pupillary
block

Ciliary
block

Expulsive
**Suprachoroidal
hemorrhage**

During
Shallow Anterior Chamber ~~After~~ **Cataract Surgery**



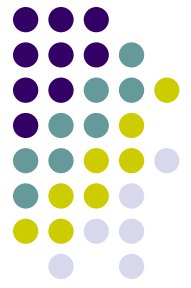
- Expulsive choroidal hemorrhage is the most feared intraoperative complication of CE surgery. What is the classic first sign?

During
Shallow Anterior Chamber ~~After~~ **Cataract Surgery**



- Expulsive choroidal hemorrhage is the most feared intraoperative complication of CE surgery. What is the classic first sign?
Darkening of the red reflex

Shallow Anterior Chamber ^{During} ~~After~~ Cataract Surgery



Still from a video depicting an expulsive choroidal hemorrhage

During
Shallow Anterior Chamber ~~After~~ **Cataract Surgery**



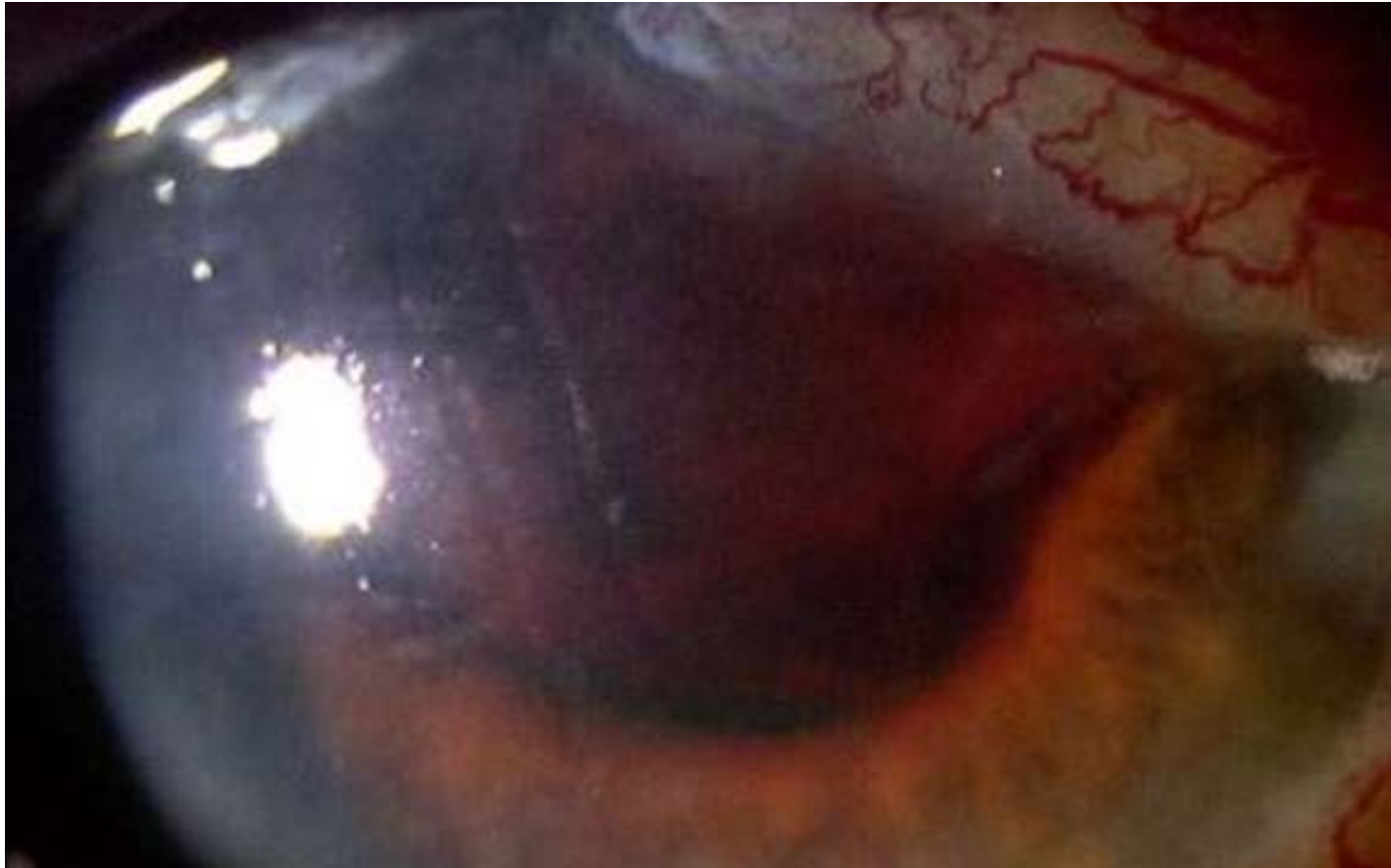
- Expulsive choroidal hemorrhage is the most feared intraoperative complication of CE surgery. What is the classic first sign?
Darkening of the red reflex
- What is the classic 'late' sign?

During
Shallow Anterior Chamber ~~After~~ Cataract Surgery



- Expulsive choroidal hemorrhage is the most feared intraoperative complication of CE surgery. What is the classic first sign?
Darkening of the red reflex
- What is the classic 'late' sign? **Expulsion of the intraocular contents through the wound**

Shallow Anterior Chamber ^{During} ~~After~~ **Cataract Surgery**



Expulsive suprachoroidal hemorrhage

During
Shallow Anterior Chamber ~~After~~ Cataract Surgery



- Expulsive choroidal hemorrhage is the most feared intraoperative complication of CE surgery. What is the classic first sign?
Darkening of the red reflex
- What is the classic 'late' sign? **Expulsion of the intraocular contents through the wound**
- How should it be managed intraoperatively?
 - 1)
 - 2)
 - 3)

Shallow Anterior Chamber ^{During} ~~After~~ Cataract Surgery



- Expulsive choroidal hemorrhage is the most feared intraoperative complication of CE surgery. What is the classic first sign?
Darkening of the red reflex
- What is the classic 'late' sign? **Expulsion of the intraocular contents through the wound**
- How should it be managed intraoperatively?
 - 1) **Put your finger on the wound to seal it**
 - 2) **Suture the wound closed**
 - 3) **Consider posterior sclerotomies to drain blood**

Shallow Anterior Chamber ^{During} ~~After~~ Cataract Surgery

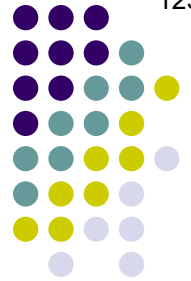


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- Post-op, how should IOP be managed?

Shallow Anterior Chamber ^{During} ~~After~~ Cataract Surgery



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- What is the classic 'late' sign? Expulsion of the intraocular contents through the wound
- How should it be managed intraoperatively?
 - 1) Put your finger on the wound to seal it
 - 2) Suture the wound closed
 - 3) Consider posterior sclerotomies to drain blood
- Post-op, how should IOP be managed?
Leave it elevated (will tamponade the bleed)



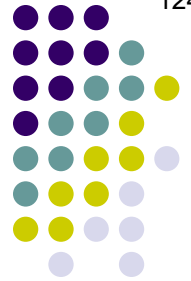
Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
Late (~~early~~ post-op period)

*What is the differential for a shallow AC in the **late** post-op period?*

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oidal
age



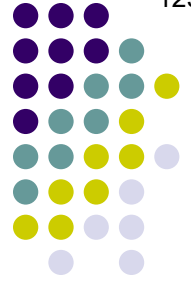
Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
Late (~~early~~ post-op period)

*What is the differential for a shallow AC in the **late** post-op period?*

- RD
- Bleb formation
- Chronic uveitis
- Cyclodialysis
- Delayed choroidal hemorrhage

oidal
age



Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
Late (~~early~~ post-op period)

What is the differential for a shallow AC in the late post-op period?

--RD

--**Bleb formation**

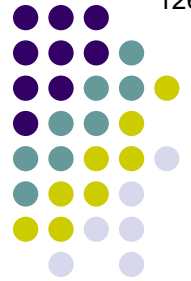
--Chronic uveitis

--Cyclodialysis

--Delayed choroidal hemorrhage

What sort of incision makes inadvertent bleb formation more likely?

oidal
age



Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
Late (~~early~~ post-op period)

What is the differential for a shallow AC in the late post-op period?

--RD

--**Bleb formation**

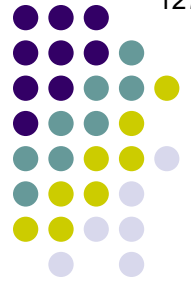
--Chronic uveitis

--Cyclodialysis

--Delayed choroidal hemorrhage

What sort of incision makes inadvertent bleb formation more likely?
 A limbal incision

oidal
age



Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
Late (~~early~~ post-op period)

What is the differential for a shallow AC in the late post-op period?

--RD

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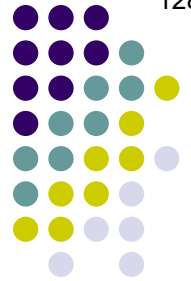
--Chronic uveitis

--**Cyclodialysis**

--Delayed choroidal hemorrhage

What sort of incision makes cyclodialysis more likely?

oidal
age



Shallow Anterior Chamber After Cataract Surgery

Shallow/flat AC after CE
Late (~~early~~ post-op period)

What is the differential for a shallow AC in the late post-op period?

--RD

--Bleb formation

--Chronic uveitis

--**Cyclodialysis**

--Delayed choroidal hemorrhage

What sort of incision makes cyclodialysis more likely?

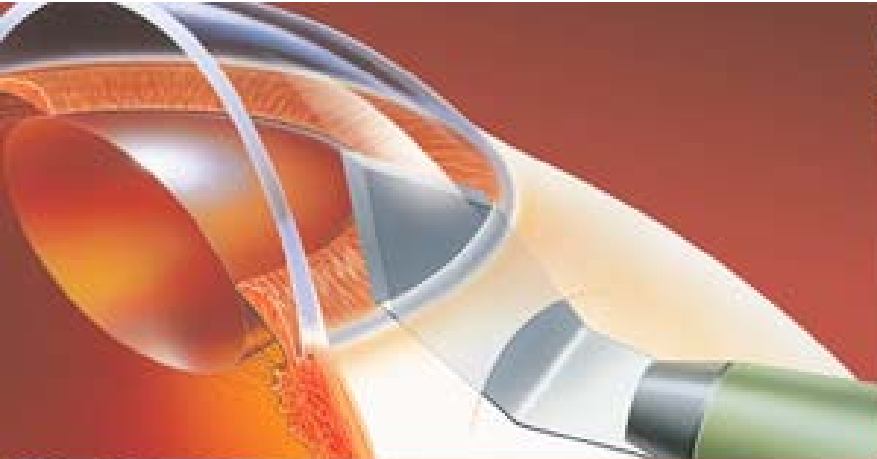
A scleral-tunnel incision

oidal
age

Shallow Anterior Chamber After Cataract Surgery



'Scleral tunnel'



'Limbal'



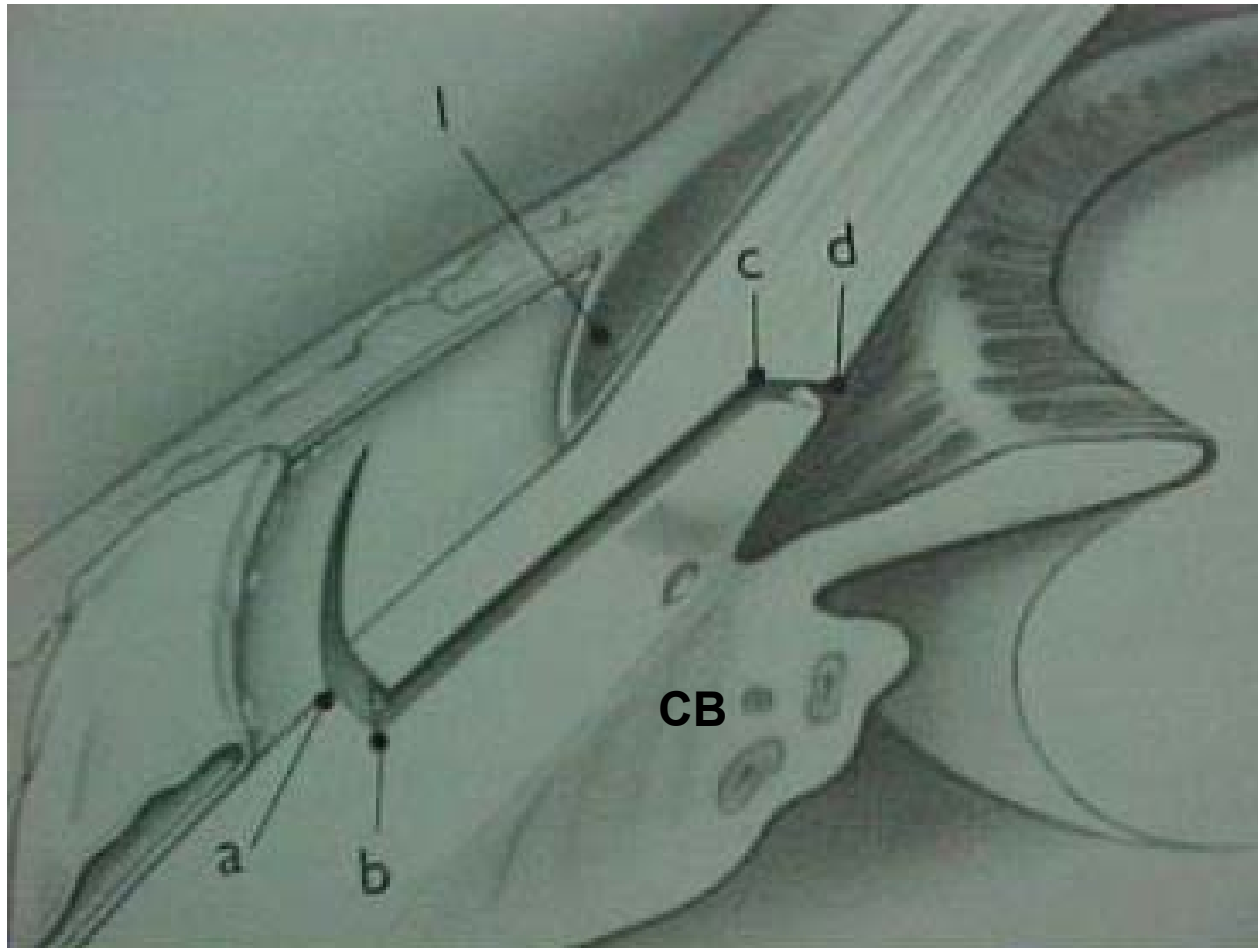
'Clear cornea'

Shallow Anterior Chamber After Cataract Surgery



Bleb formation after limbal-incision CE

Shallow Anterior Chamber After Cataract Surgery



Scleral-tunnel CE incision. Note the proximity to the ciliary body (CB)