

Before you begin: This is a big topic, and big topics beget big slide-sets. There's a couple of natural breaks (around slides 207 and 389); *break time!* slides have been placed at those spots.

Q



What does TVL stand for in this context?







What does TVL stand for in this context? Transient visual loss



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Transient visual loss

How is the 'transient' in TVL defined?







Transient visual loss

How is the 'transient' in TVL defined? Less than 24 hrs



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How brief can the VL be?







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How brief can the VL be?
As little as a few seconds*



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As an unnecessary-but interesting aside: Why is the term amaurosis fugax downright goofy?

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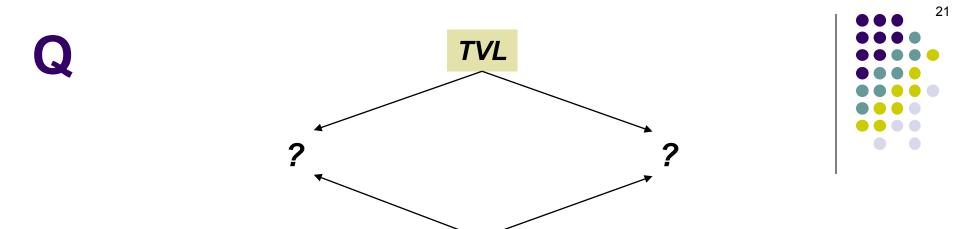
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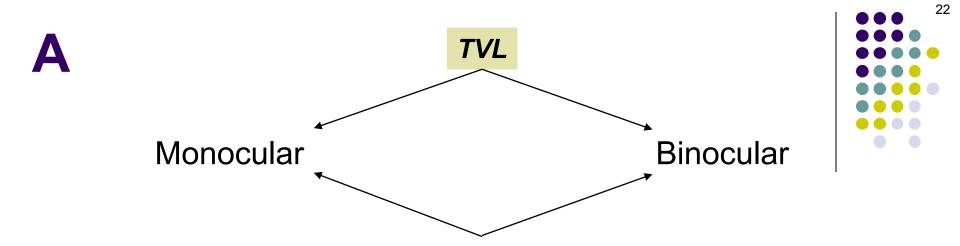
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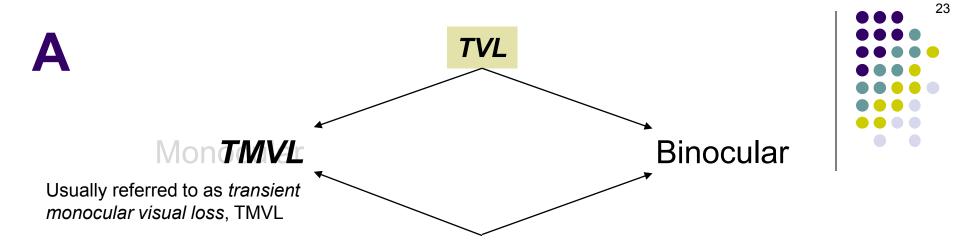
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There are lots of ways to categorize TVL, but one is fundamental—what is it?

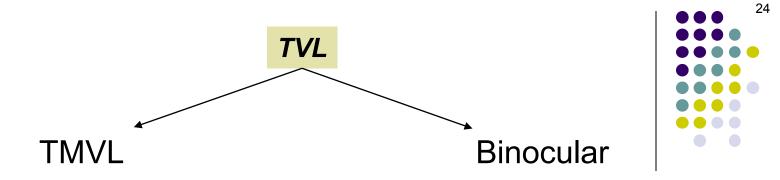


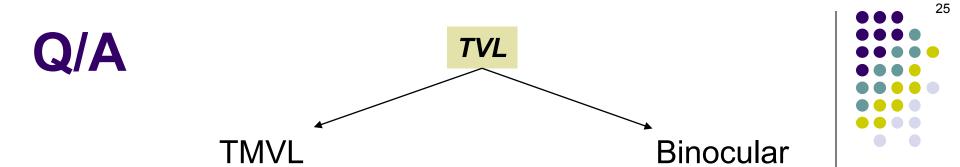
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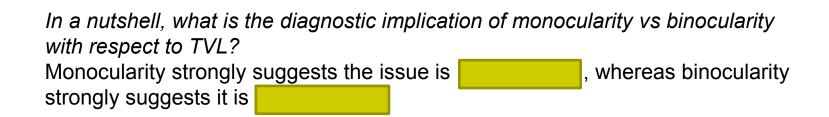


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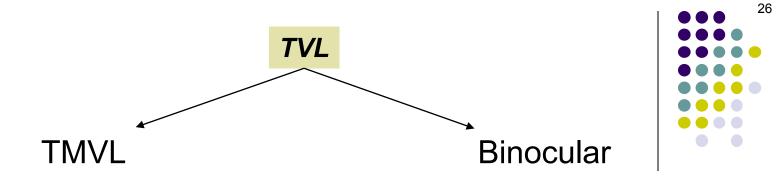






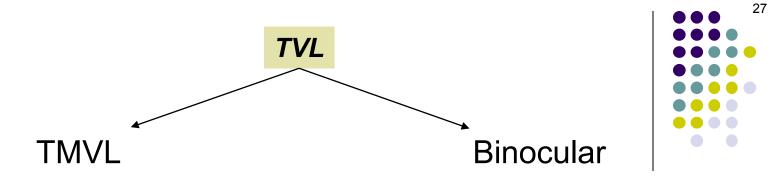






Monocularity strongly suggests the issue is prechiasmal, whereas binocularity strongly suggests it is postchiasmal

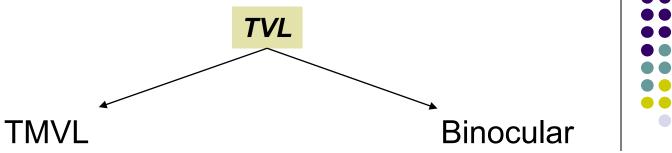




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One very common cause of binocular TVL (you see it daily) is an exception, ie, it is due to a prechiasmal (like, **way** prechiasmal) condition. What is it?





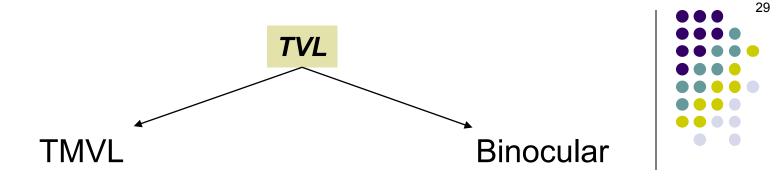
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In a nutshell, what is the diagnostic implication of monocularity vs binocularity with respect to TVL?

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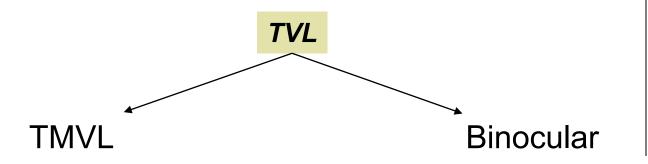


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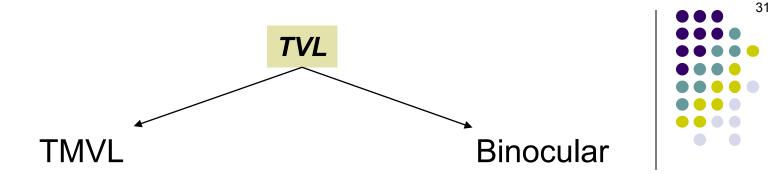


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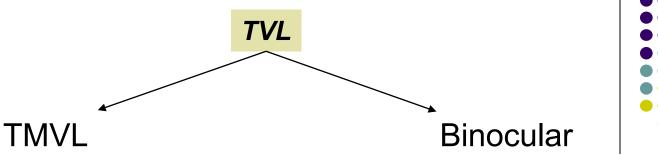


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When the pt has homonymous hemianopic loss



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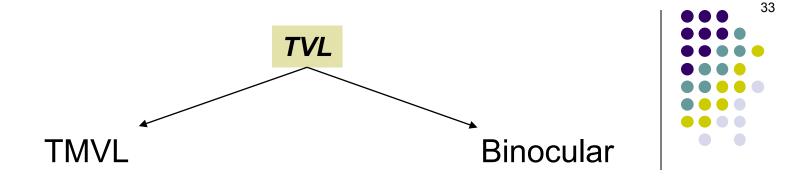
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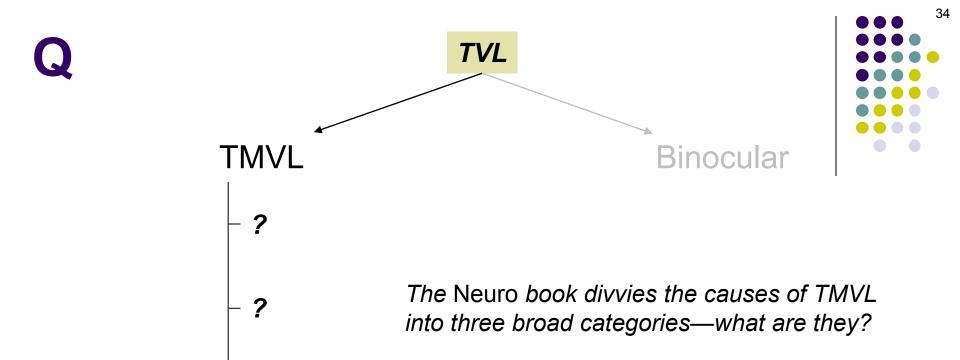


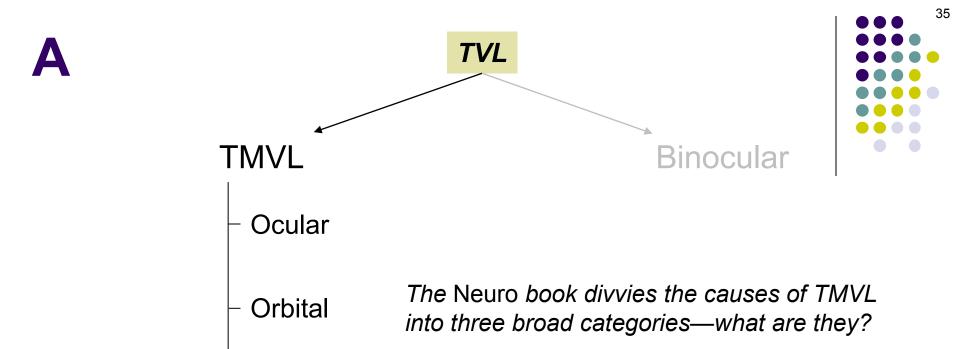
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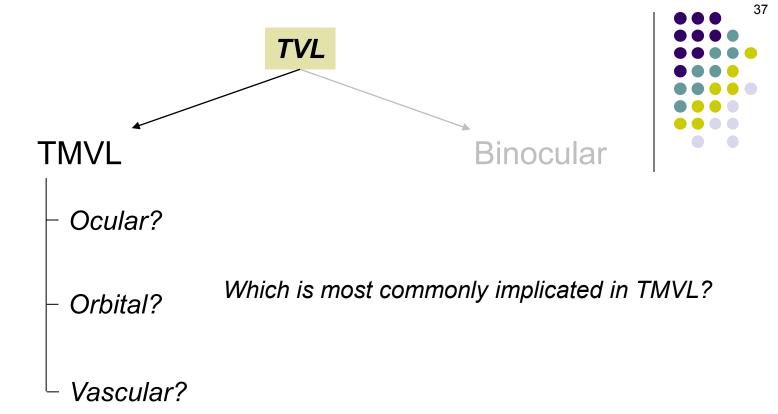
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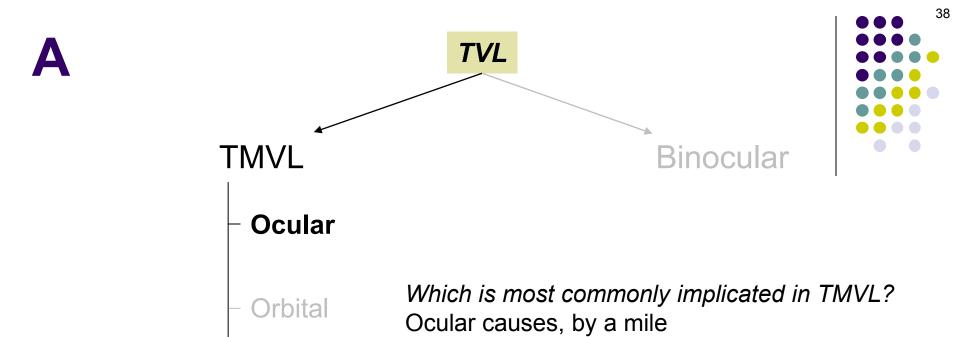


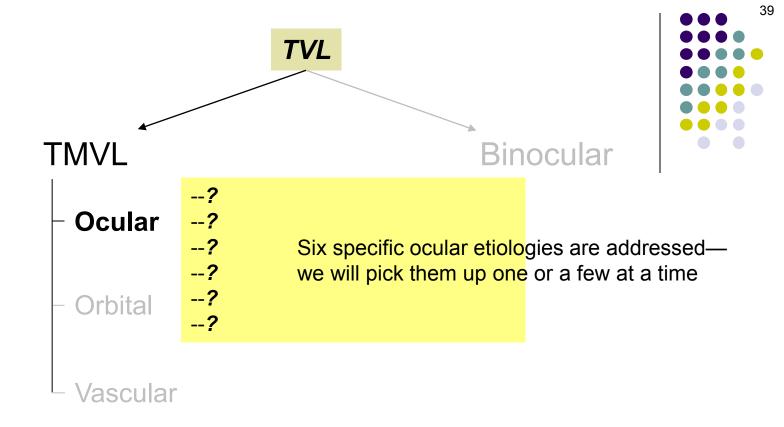


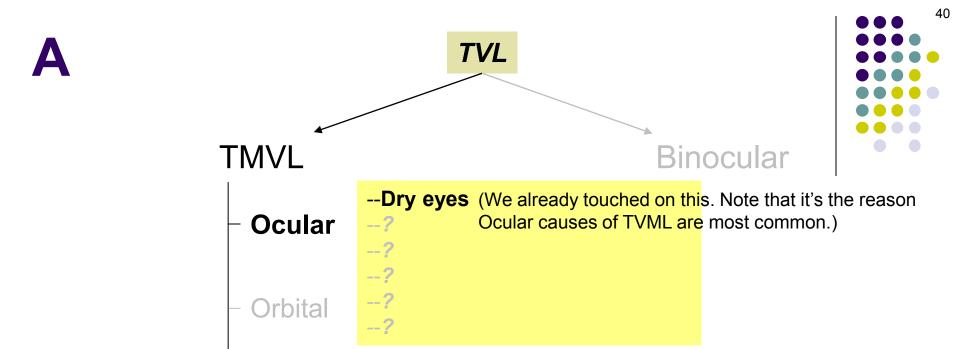
Vascular



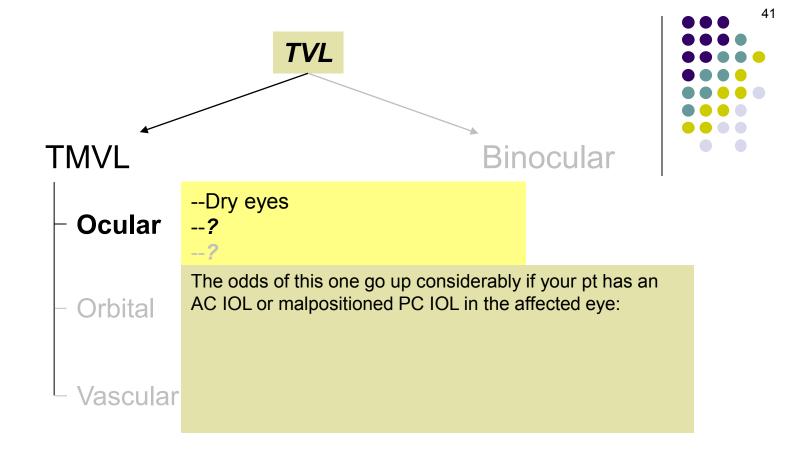




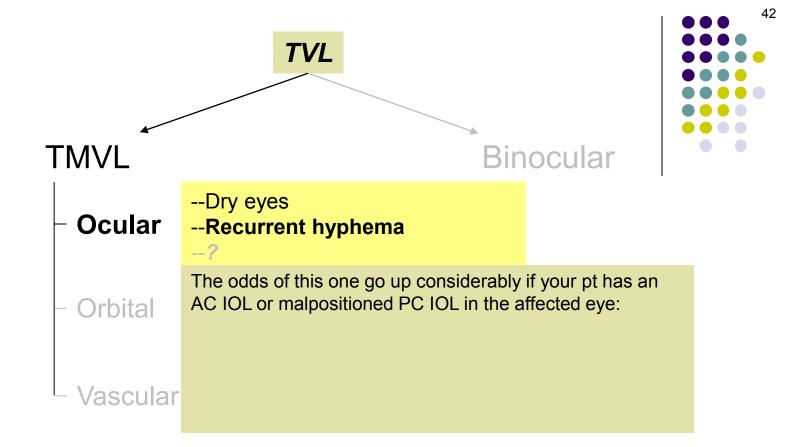


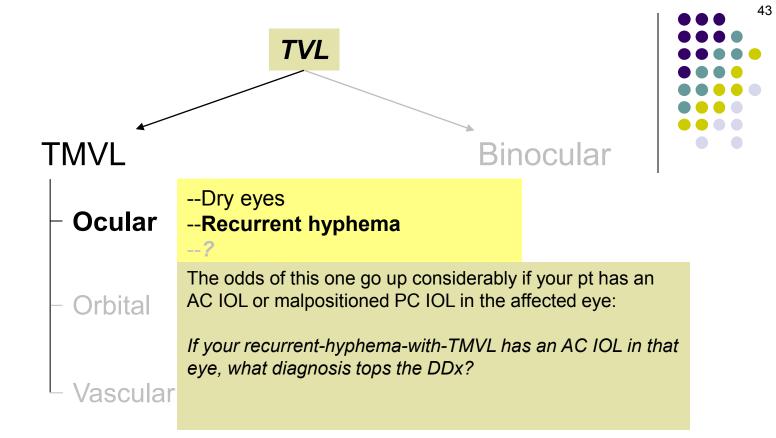


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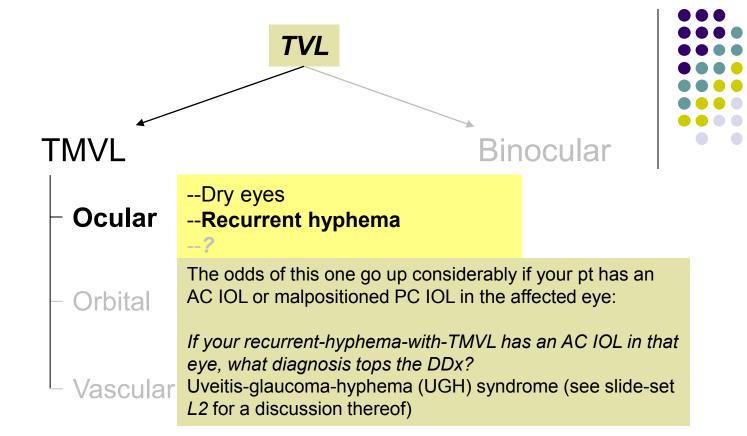


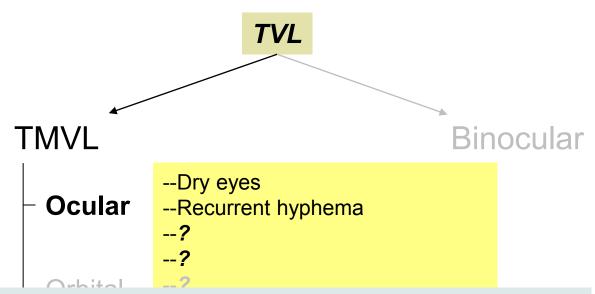






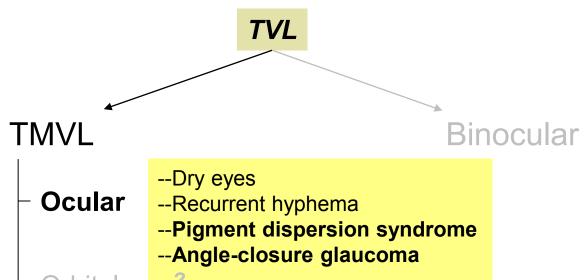








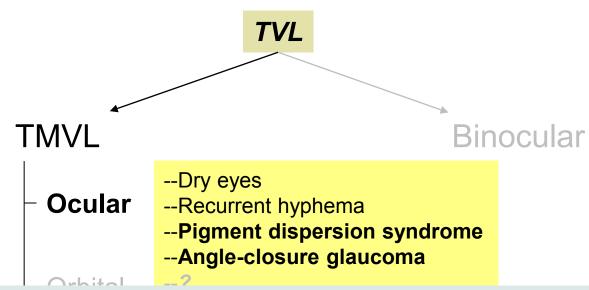
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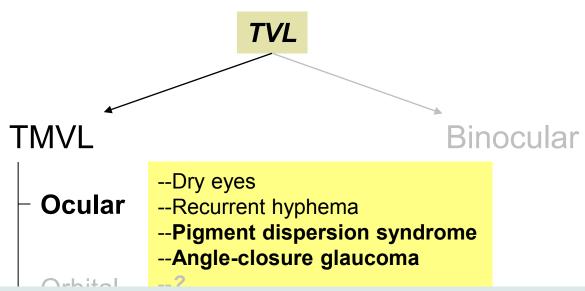


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What ocular (but nonvisual) c/o do both conditions present with?



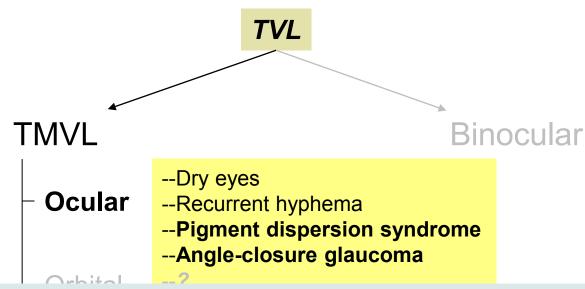




What ocular (but nonvisual) c/o do both conditions present with? Ocular pain



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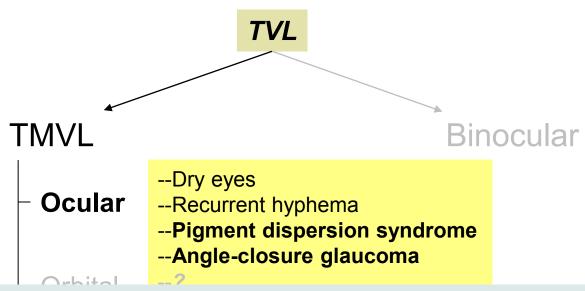
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What causes the TMVL and light-haloes?



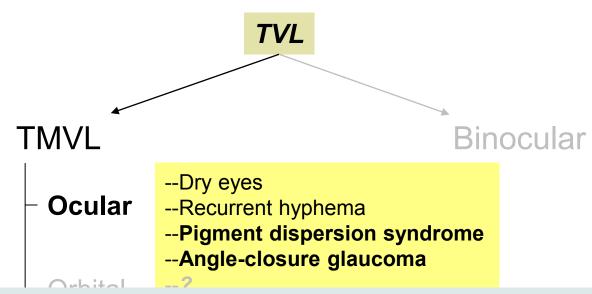




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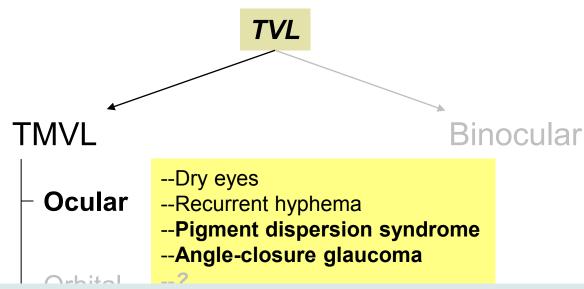
What causes the corneal edema in:

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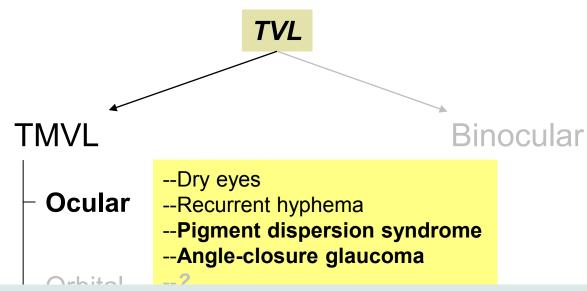
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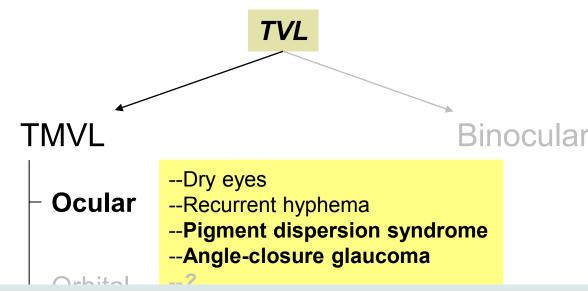
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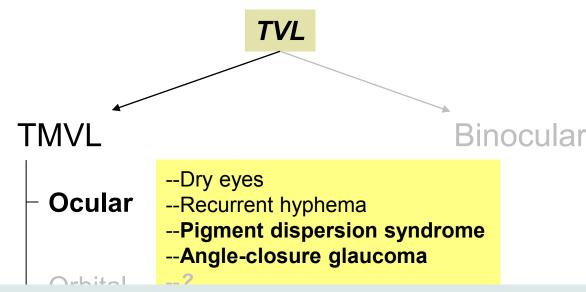
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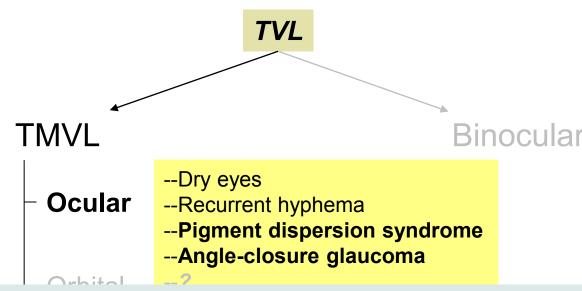
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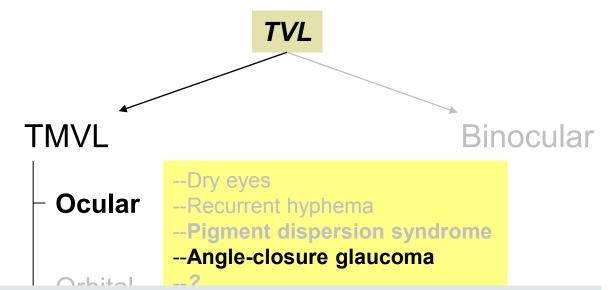
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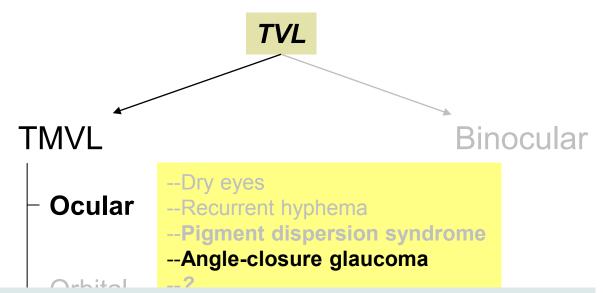
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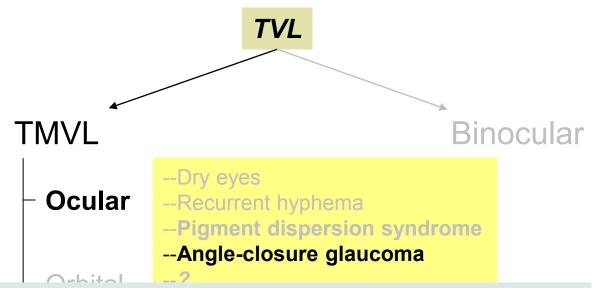


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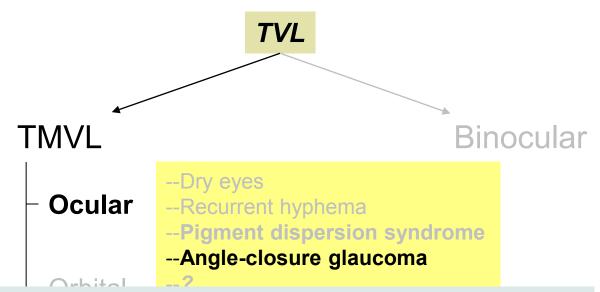
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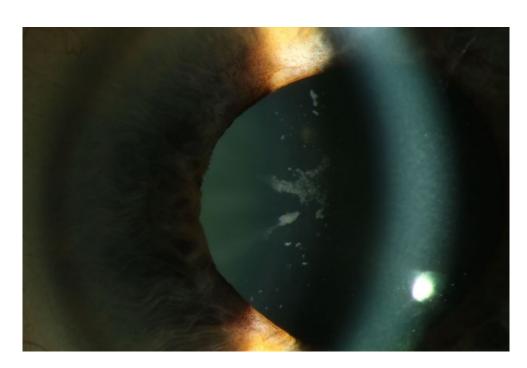
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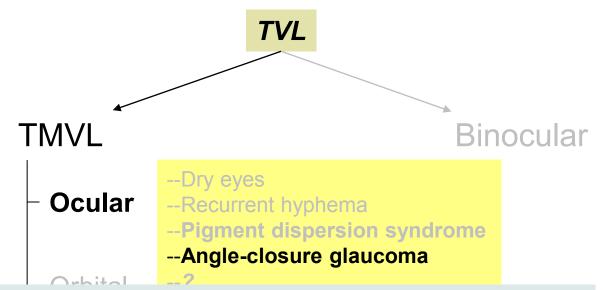
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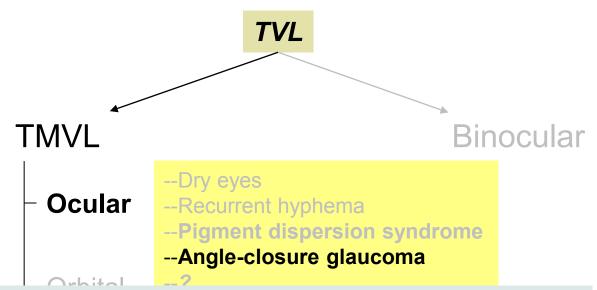
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n those two, the nt will likely ele halos around lights in the affected ever

What lens-related sign is strong evidence supporting angle-closure glaucoma? The presence of glauckomflecken

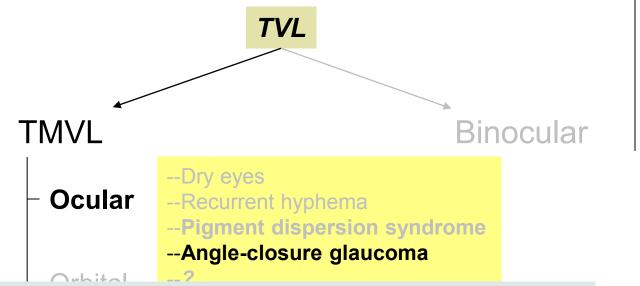
What are glaukomflecken?

Opacities of the sub-anterior lens capsule

Why do glaukomflecken strongly support a diagnosis of angle-closure glaucoma? Because they are a telltale sign of *previous* angle-closure events

- --angle-closure glaucoma? A sharp increase in IOP
- --PDS? Also a sharp increase in IOP

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What lens-related sign is strong evidence supporting angle closure glaucoma?

The presence of glauckomflecken

What pathologic process causes glaukomflecken?

66

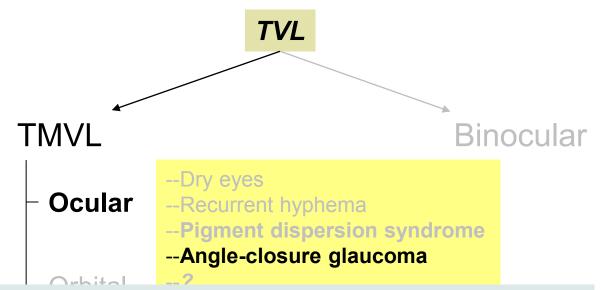
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What pathologic process causes glaukomflecken? Necrosis of the subcapsular lens epithelium

67

What are glaukomflecken?

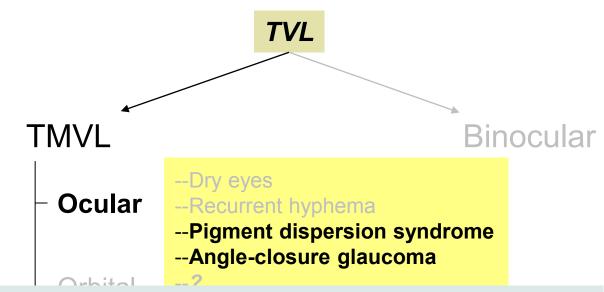
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For more info on...

PDS: see slide-set G4

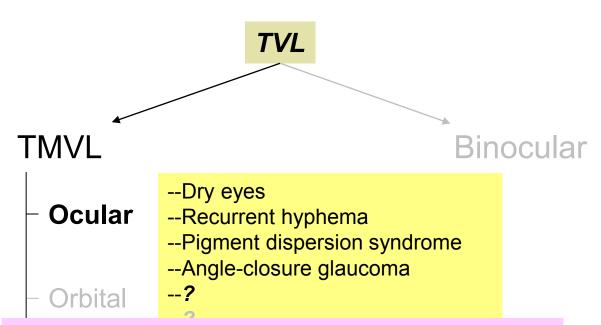
Angle-closure glaucoma: Sets G16, 17, and 18

What causes the corneal edema in:

- --angle-closure glaucoma? A sharp increase in IOP
- --PDS? Also a sharp increase in IOP

- --Angle closure: An event that promotes pupil dilation
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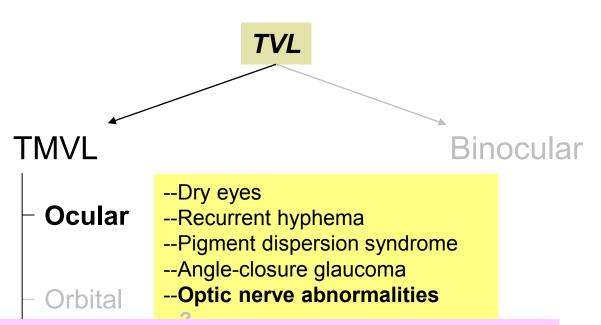
Q



When this structure is implicated in TVL, the pt often reports that a change in posture precipitates the vision loss:

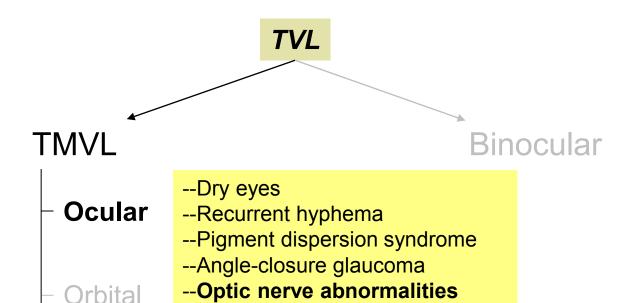






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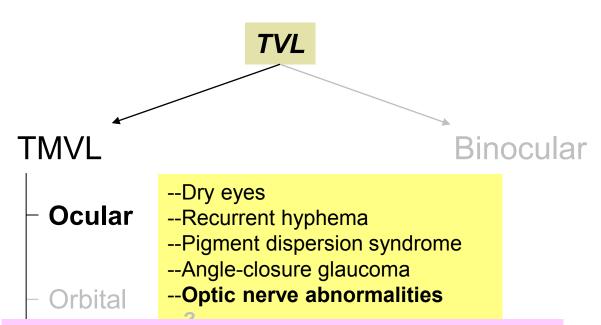
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When you hear 'TVL associated with postural change,' two ONH conditions should come to mind. What are they?

- --?
- --?



A

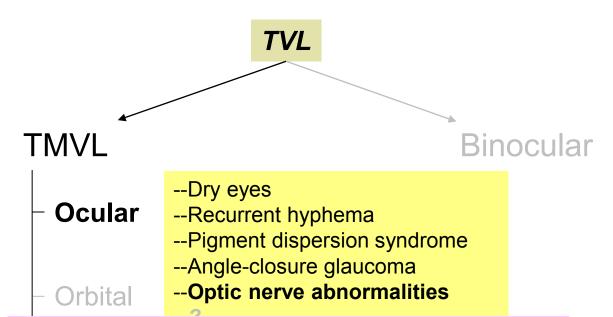


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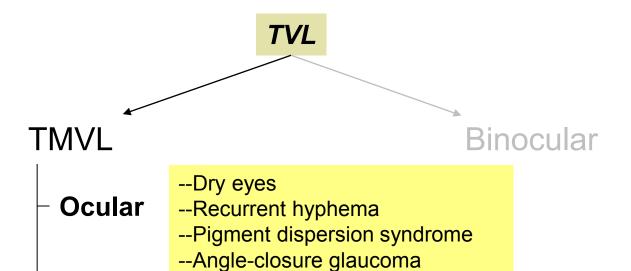
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How long do TVLs of this sort typically last?







-- Optic nerve abnormalities

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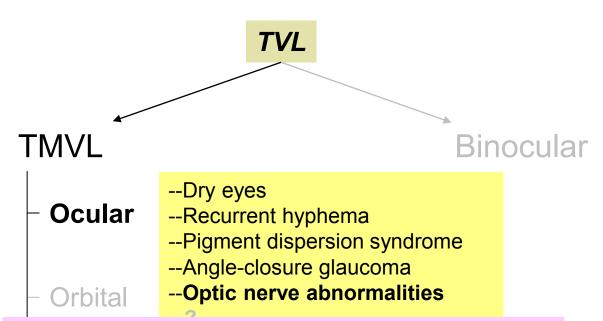
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How long do TVLs of this sort typically last?

A few seconds (hence they are more commonly labeled abb.)





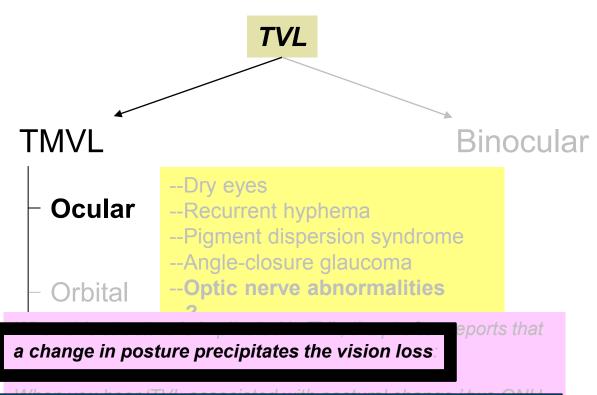
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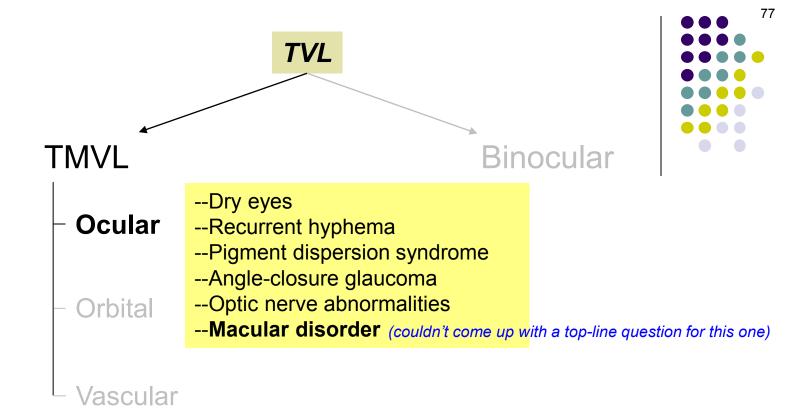
How long do TVLs of this sort typically last?
A few seconds (hence they are more commonly labeled TVOs)

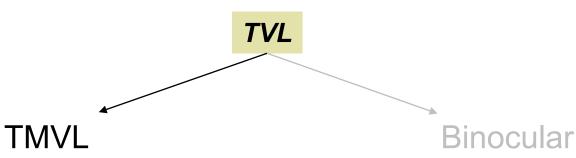




Head's up—Don't lock in 'posture change in TVL = optic nerve issue.' In a few slides we will encounter other causes of TVL that are influenced by changes in posture!

How long do TVLs of this sort typically last?
A few seconds (hence they are more commonly labeled TVOs)







Ocular

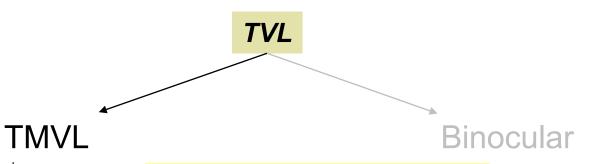
Orbital

- --Dry eyes
- --Recurrent hyphema
- --Pigment dispersion syndrome
- --Angle-closure glaucoma
- --Optic nerve abnormalities
- -- Macular disorder

'Macular disorder' is rather vague. What three conditions does the Neuro book mention in this regard?

- --?
- --?
- --?

A



79

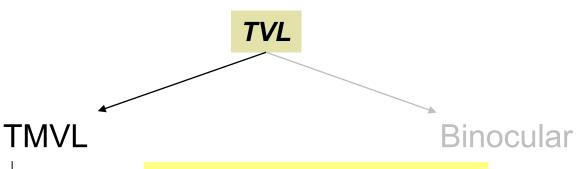
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Ocular

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These pts may c/o a specific trigger for their TVL—what is it?



Ocular

Orbital

TMVL

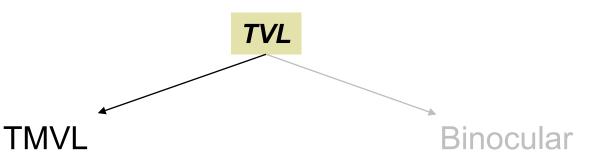
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Ocular

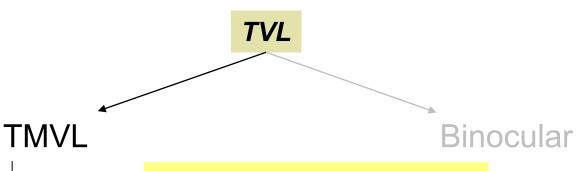
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83

Ocular

Orbital

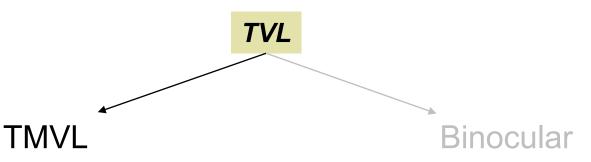
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A





Ocular

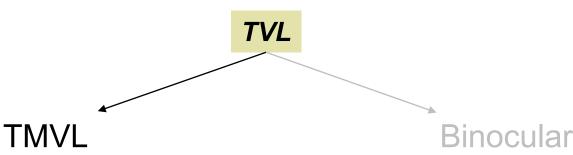
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Ocular

Orbital

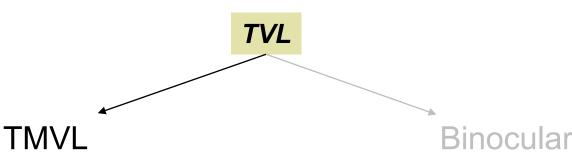
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Ocular

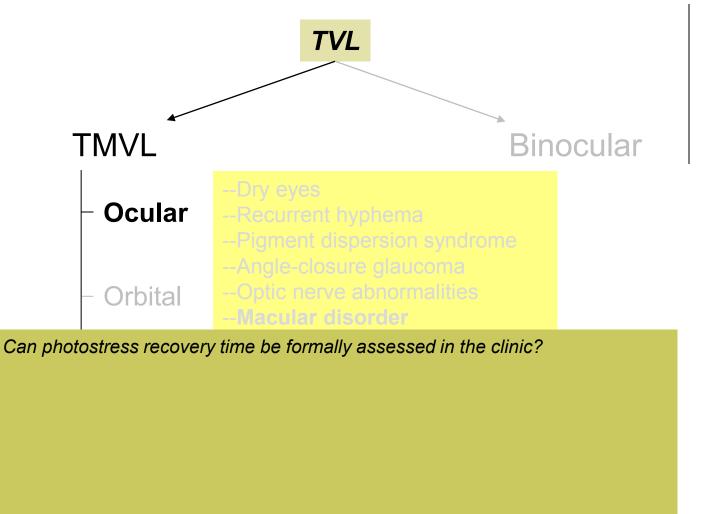
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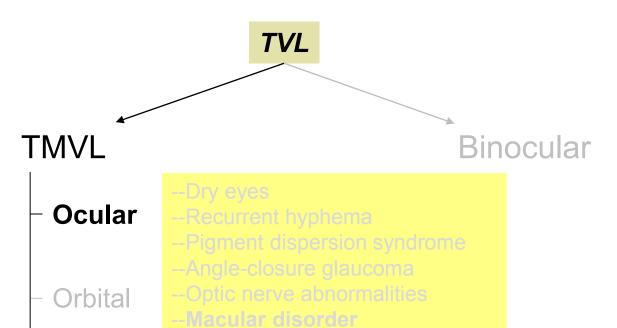
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87

prolonged photostress recovery time.



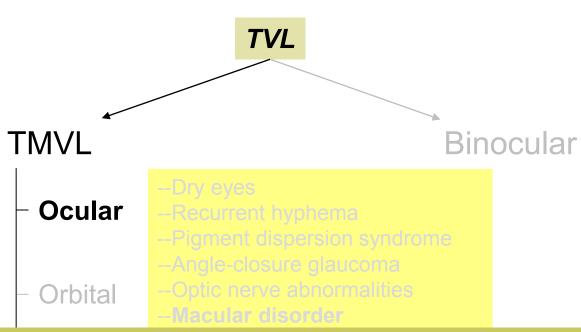


Can photostress recovery time be formally assessed in the clinic? It can indeed, via the photostress recovery test. The test is performed

uni- v bilaterally

prolonge photostress recovery time.

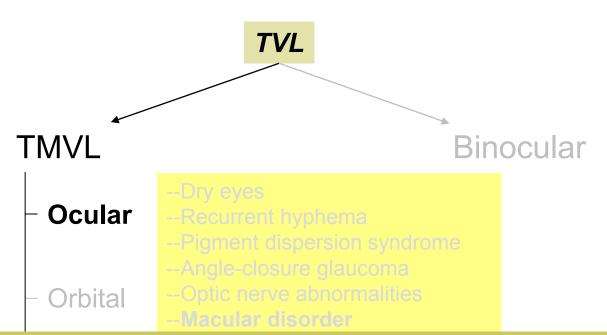




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prolonge photostress recovery time.



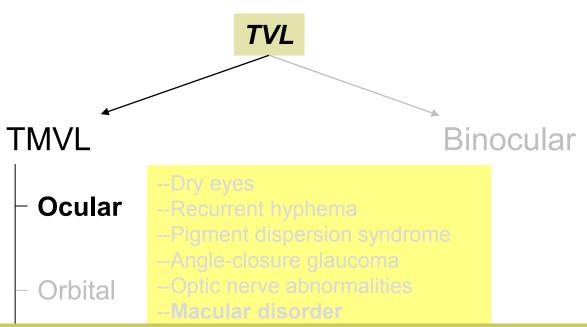


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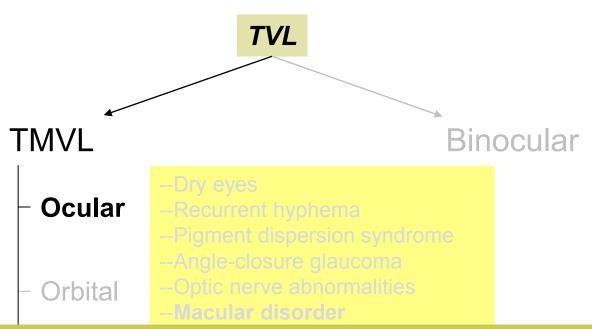




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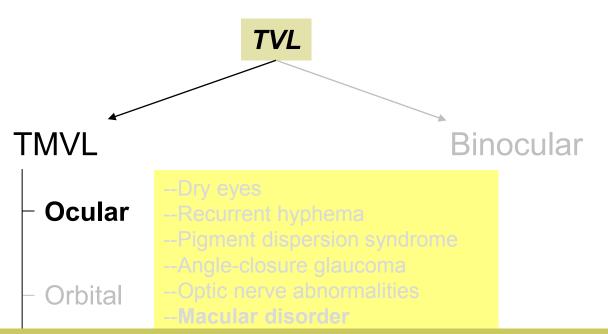




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prolonge photostress recovery time.

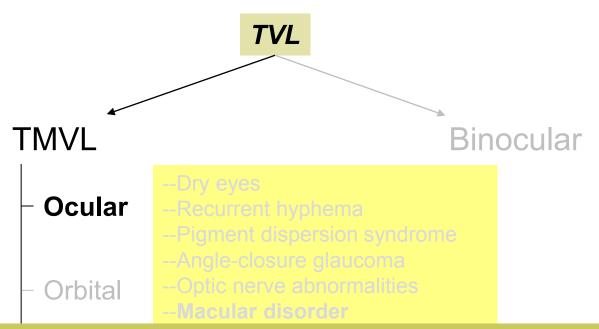




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prolonged photostress recovery time.

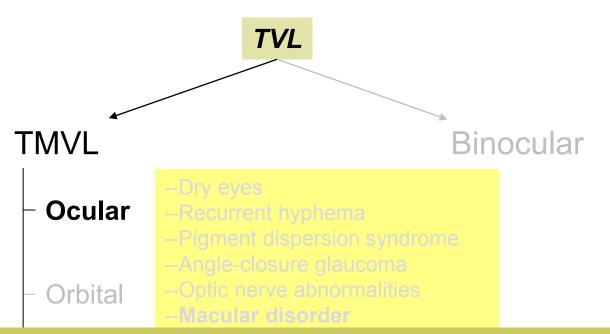




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prolonged photostress recovery time.

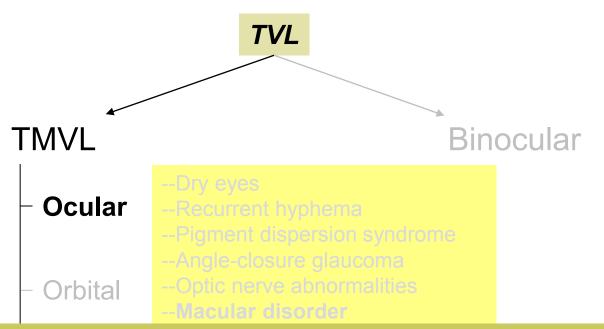




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prolonge photostress recovery time.





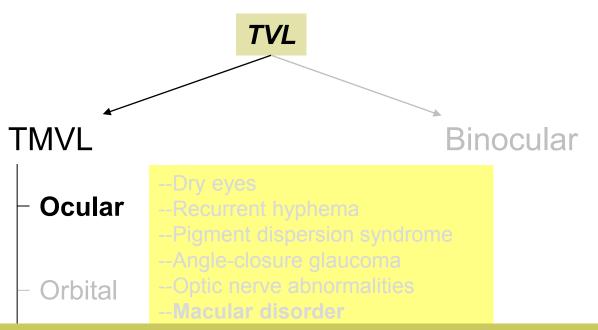
96

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prolonged *photostress recovery time*.

In addition to TVL, these pts may c/o that bright lights

produce prolonged afterimages.



97

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prolonge photostress recovery time.



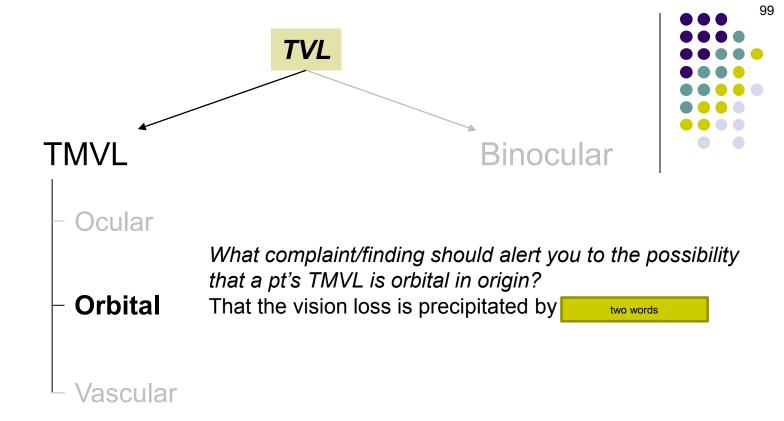
Ocular

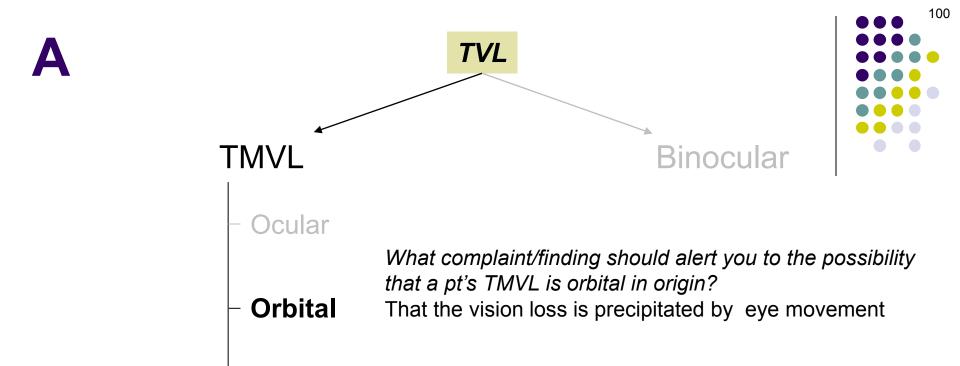
Orbital

What complaint/finding should alert you to the possibility that a pt's TMVL is orbital in origin?

Vascular

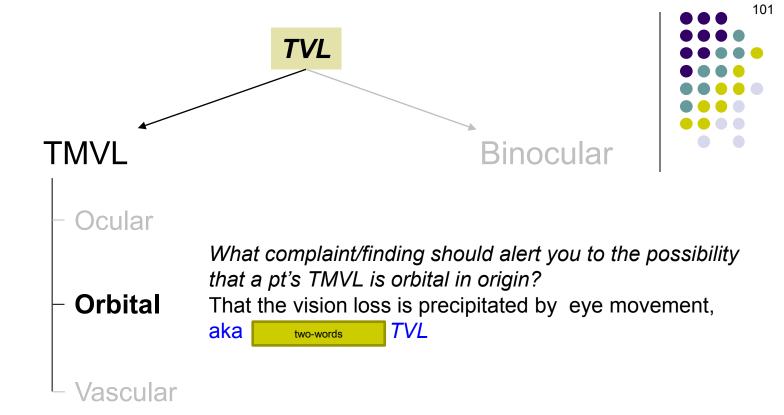




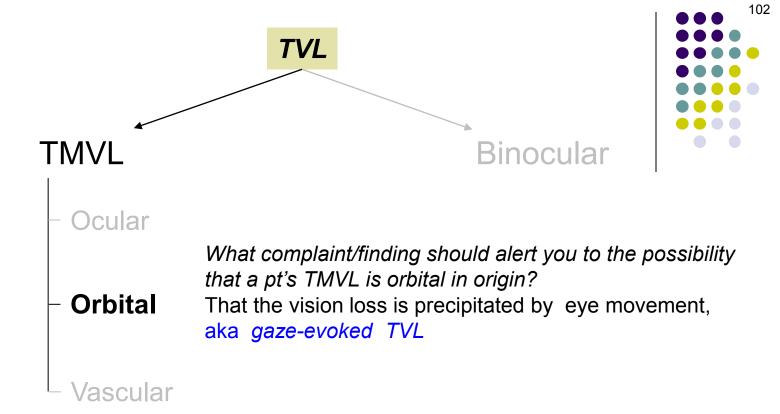


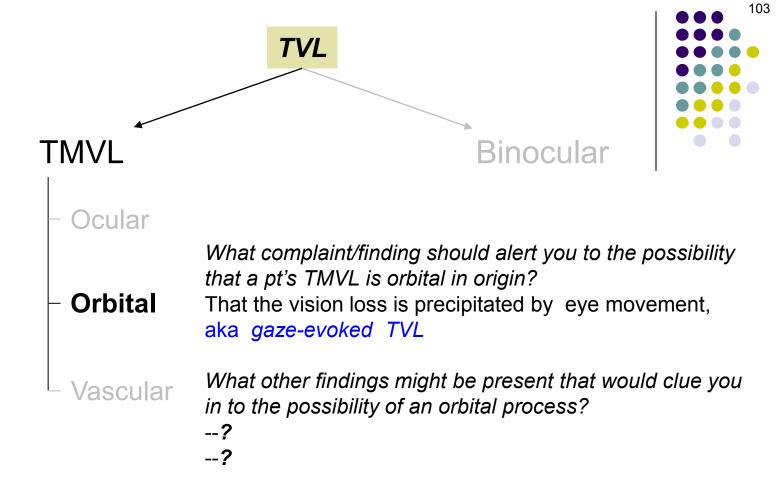
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Q

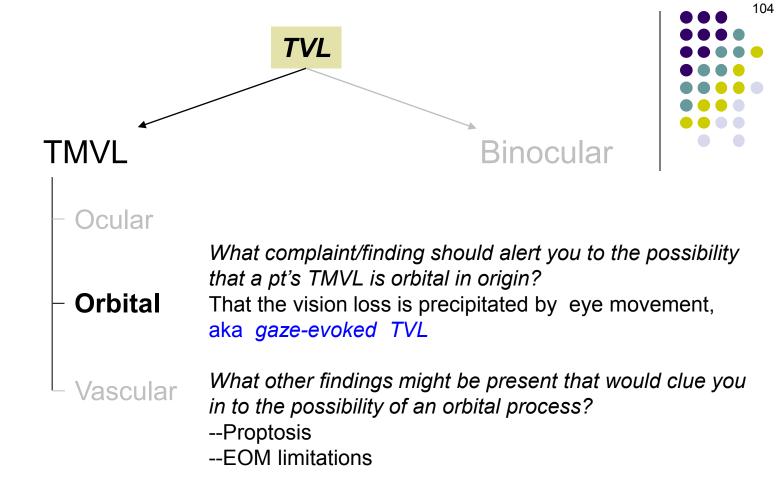


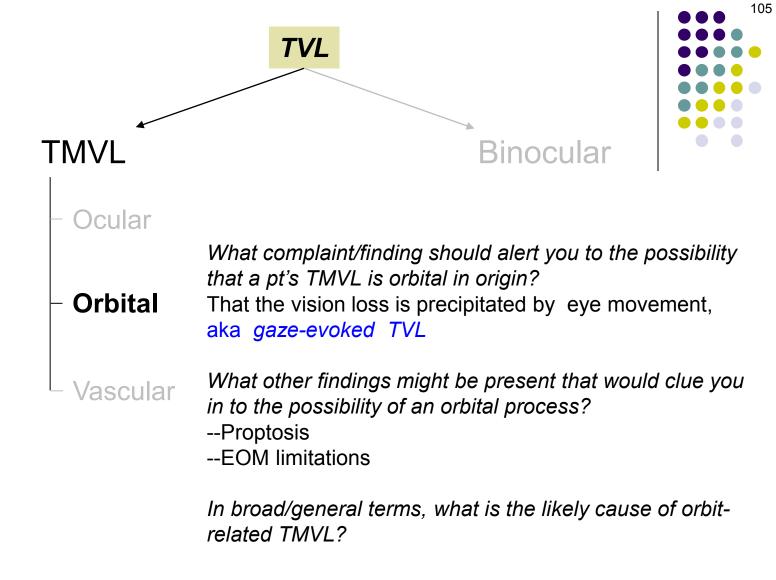




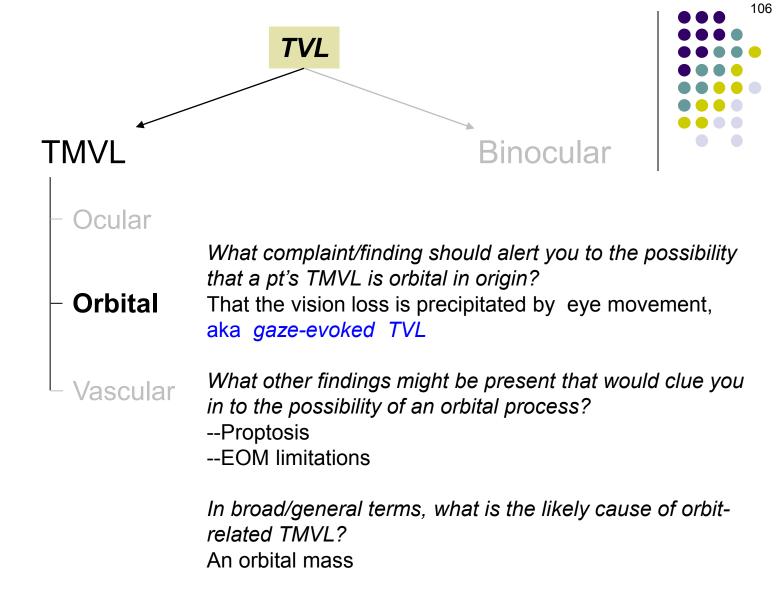


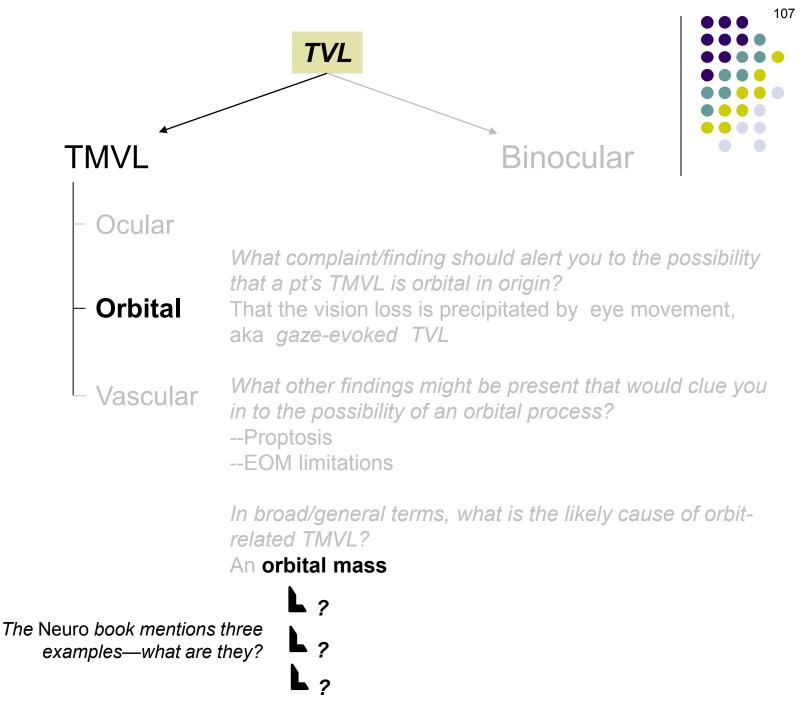




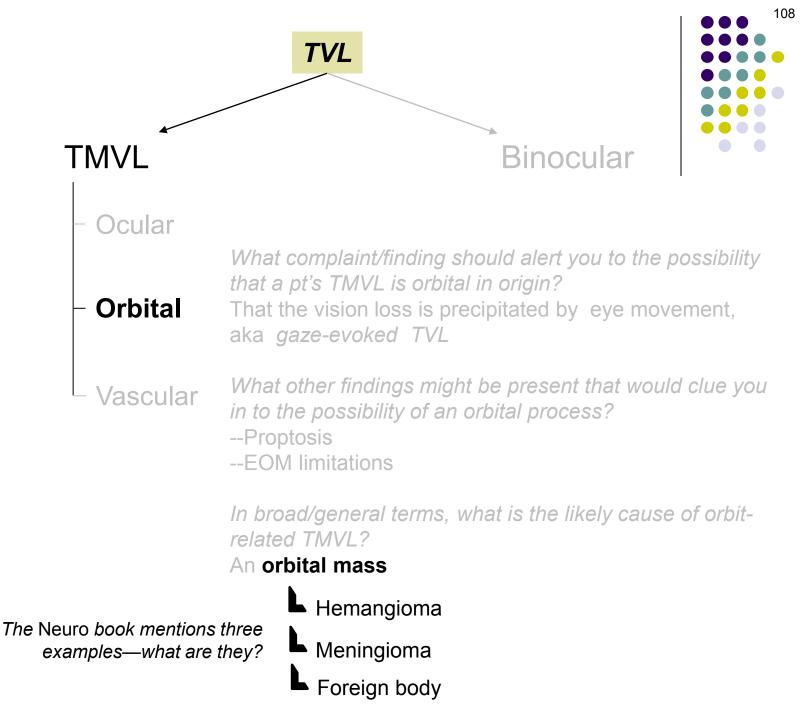


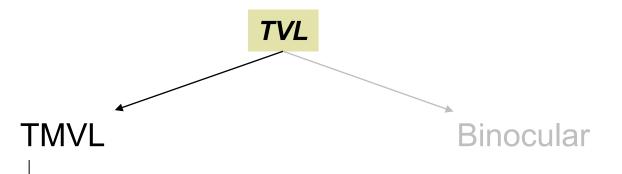










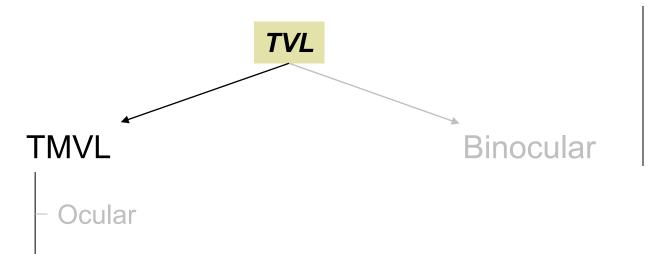




Ocular

What is the ultimate cause of TMVL related to the vasculature? (Looking for a single word here.)

Vascular

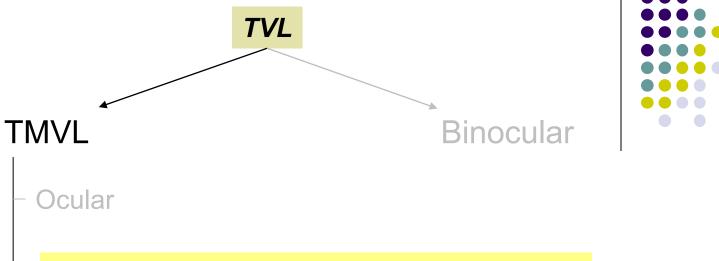


What is the ultimate cause of TMVL related to the vasculature? (Looking for a single word here.)

Hypoperfusion*

Vascular

110



What is the ultimate cause of TMVL related to the vasculature? (Looking for a single word here.)

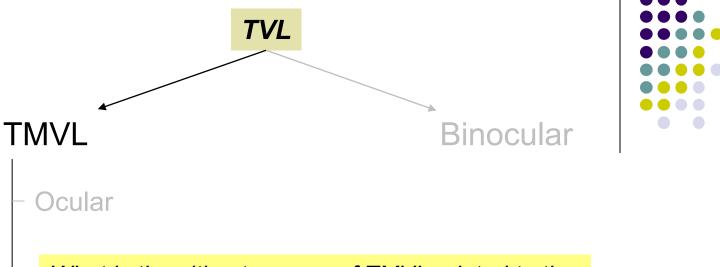
Hypoperfusion of...

Vascular

Hypoperfusion of what two structures are implicated?

111





What is the ultimate cause of TMVL related to the vasculature? (Looking for a single word here.)

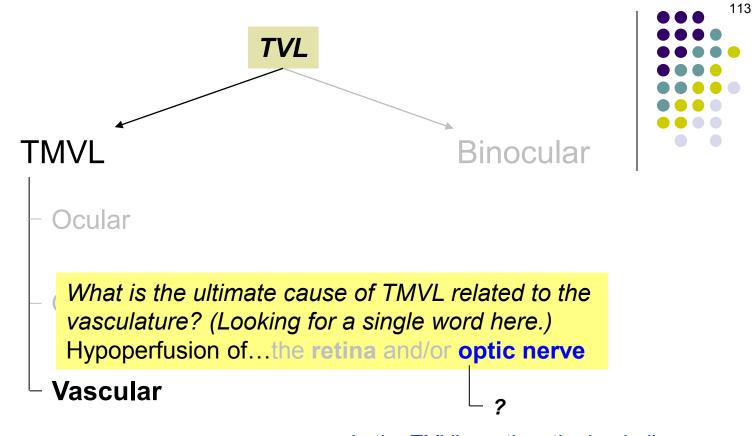
Hypoperfusion of...the retina and/or optic nerve

Vascular

Hypoperfusion of what two structures are implicated?

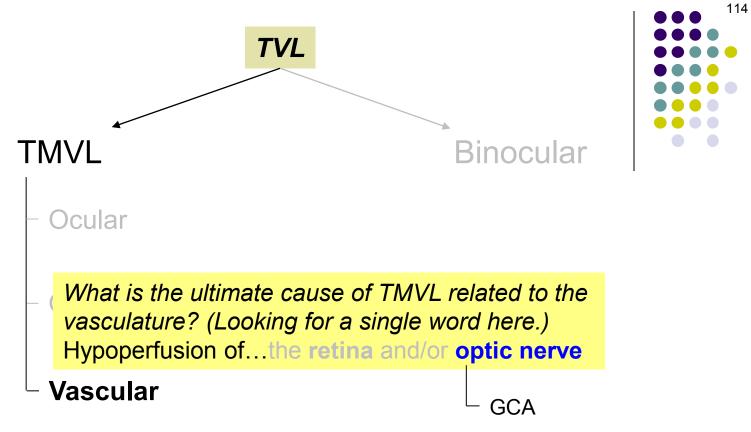
112





In the TMVL section, the book discusses at length only one cause of optic nerve hypoperfusion. What is it?





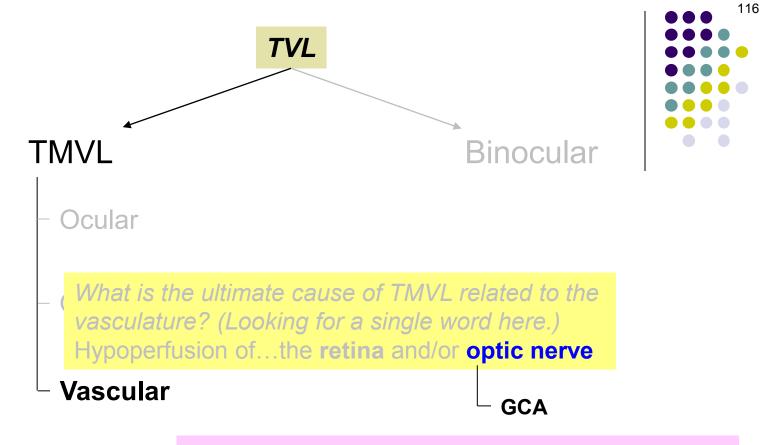
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Vascular

In general terms, what is GCA?

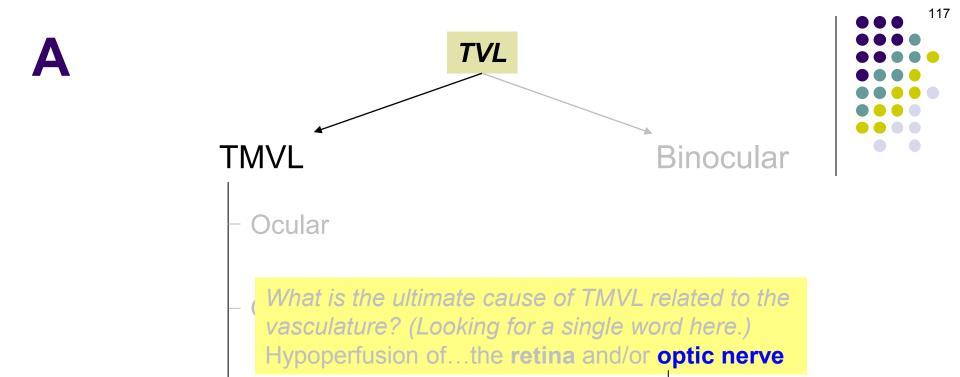
GCA





In general terms, what is GCA?
An inflammatory disease that targets

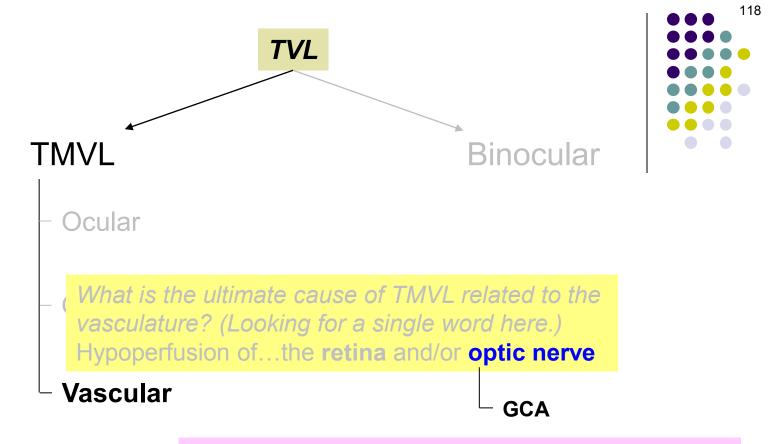




Vascular

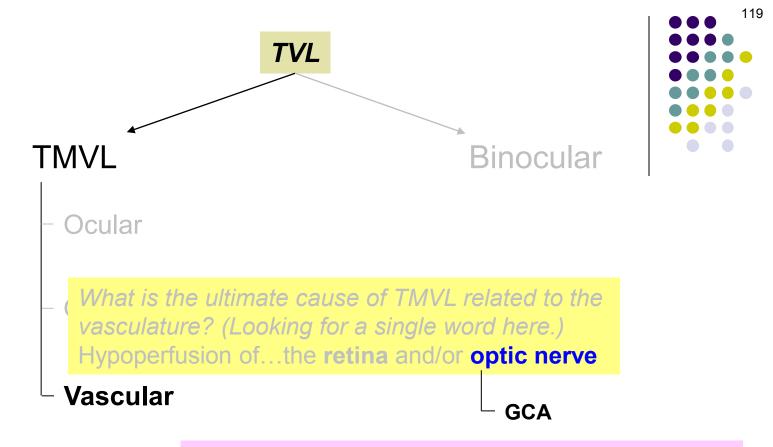
In general terms, what is GCA?
An inflammatory disease that targets mid-sized arteries

GCA

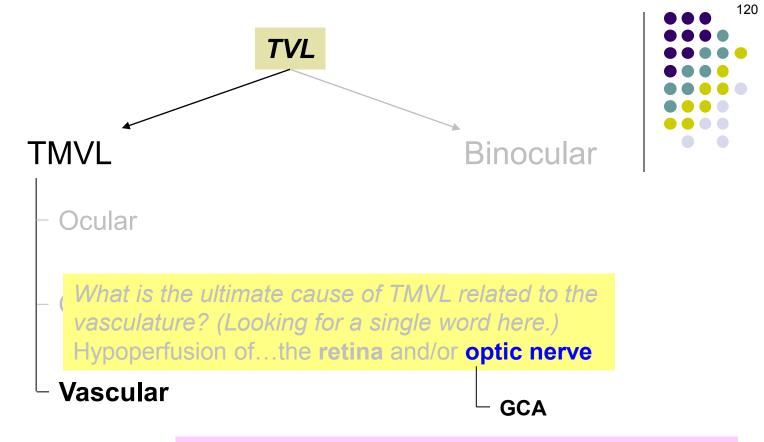


Who is the classic GCA patient?





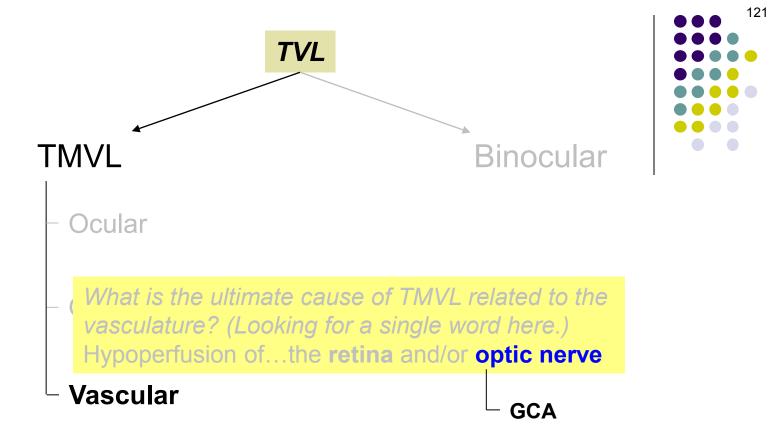
Who is the classic GCA patient?
An old white lady



Who is the classic GCA patient?
An **old** white lady

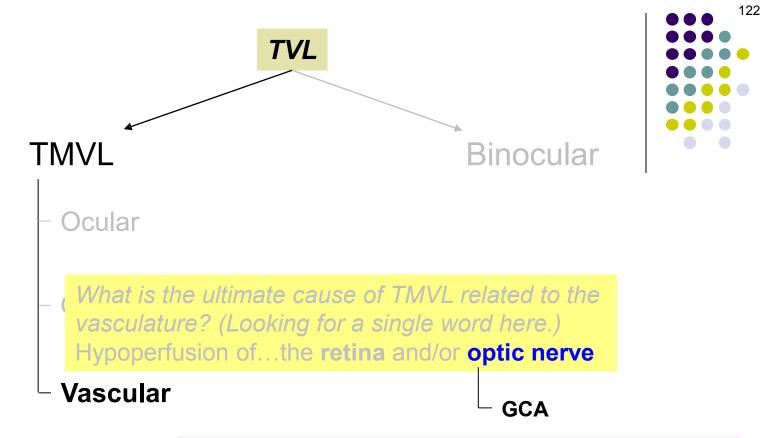
How old is old?





Who is the classic GCA patient?
An **old** white lady

How old is old? Usually 70+

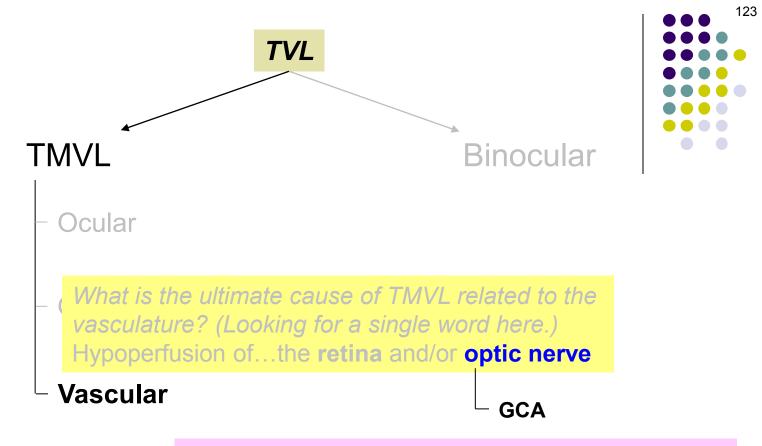


Who is the classic GCA patient?
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How old is old? Usually 70+

At what age should GCA enter one's DDx for TMVL?

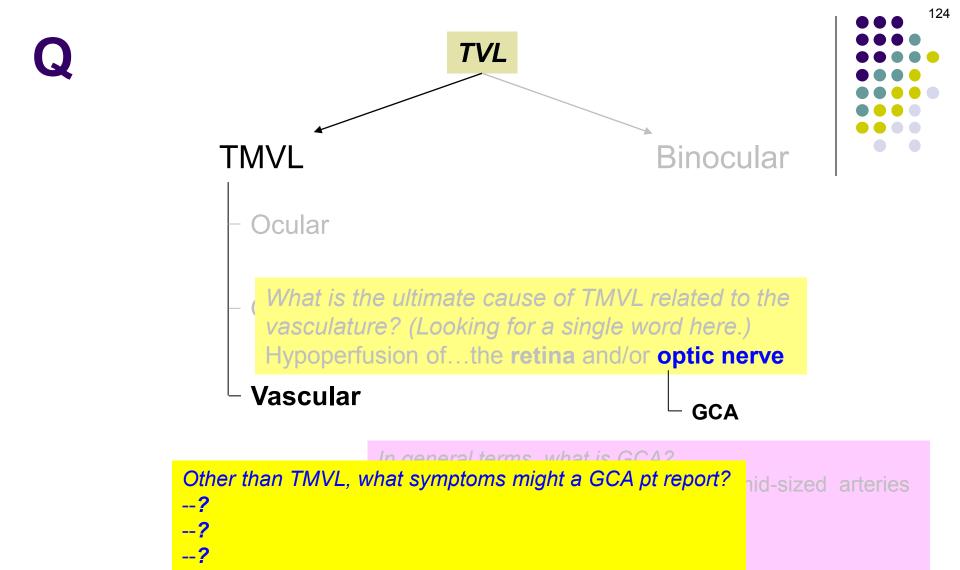




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At what age should GCA enter one's DDx for TMVL? The Neuro book says to consider it in anyone 50+

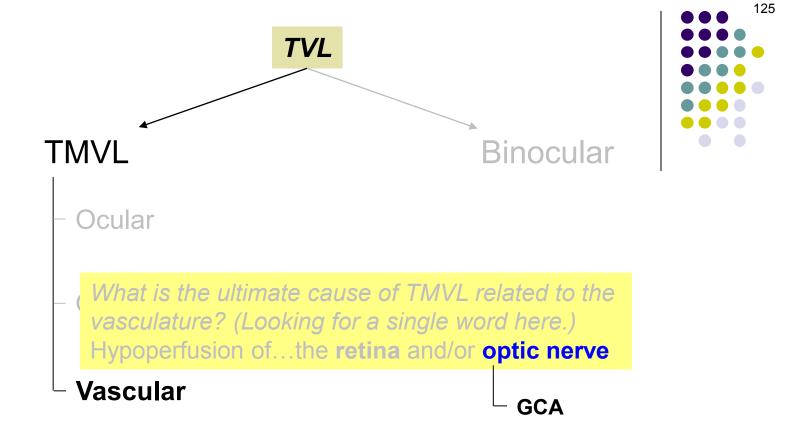


--?

--(There are other legit answers as well)

The Neuro book says to consider it in anyone 50+





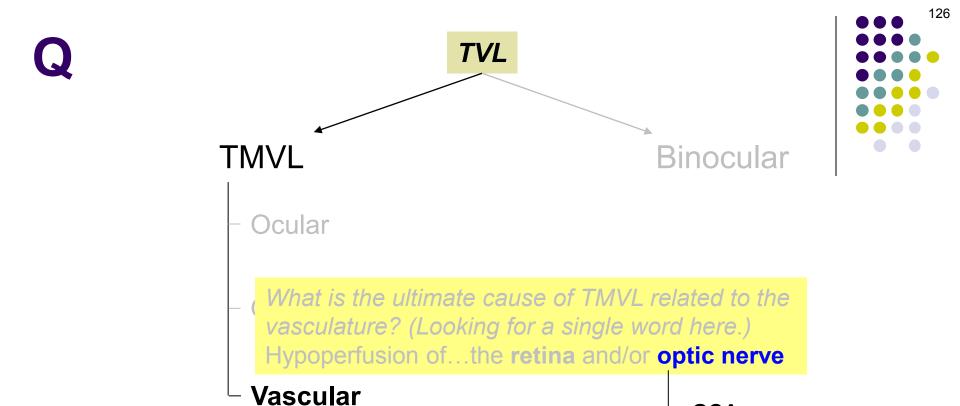
In general terms what is GCA?

Other than TMVL, what symptoms might a GCA pt report?

- --Headache
- -- Jaw claudication
- --Fever
- --Malaise
- --PMR symptoms
- --Diplopia
- --(There are other legit answers as well)

The Neuro book says to consider it in anyone 50+

nid-sized arteries



Other than TMVL, what is jaw claudication?

Headache

Jaw claudication

Fever

Malaise

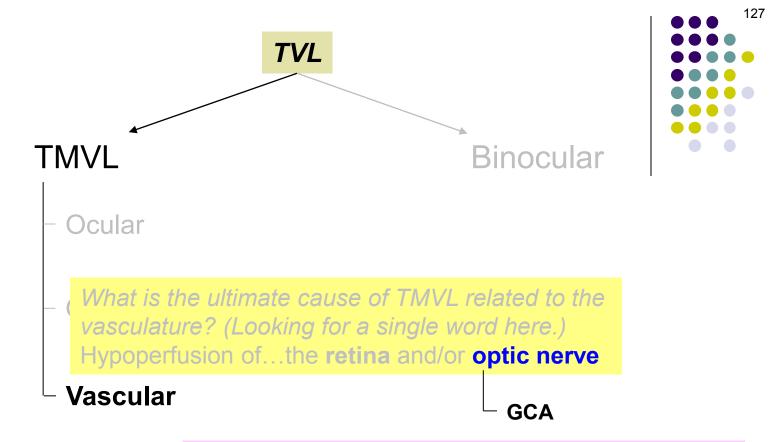
PMR symptoms

Diplopia

(There are other legi

GCA





In general terms, what is GCA?

Other than TMVL, who

- --Headache
- -Jaw claudication
- --Fevel
- --Malaise
- --PMR symptoms
- --Diplopia
- --(There are other leg

What is jaw claudication?
Pain in the jaw brought on by



TVL TMVL Binocular



Ocular

What is the ultimate cause of TMVL related to the vasculature? (Looking for a single word here.) Hypoperfusion of...the retina and/or optic nerve

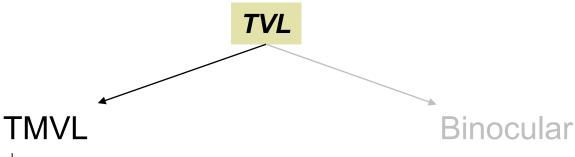
Vascular

GCA

In general terms what is GCA?

- -Jaw claudication
- --Malaise
- --PMR symptoms

Other than TMVL, who What is jaw claudication? Pain in the jaw brought on by chewing



129

Ocular

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Vascular

GCA

In general terms, what is GCA?

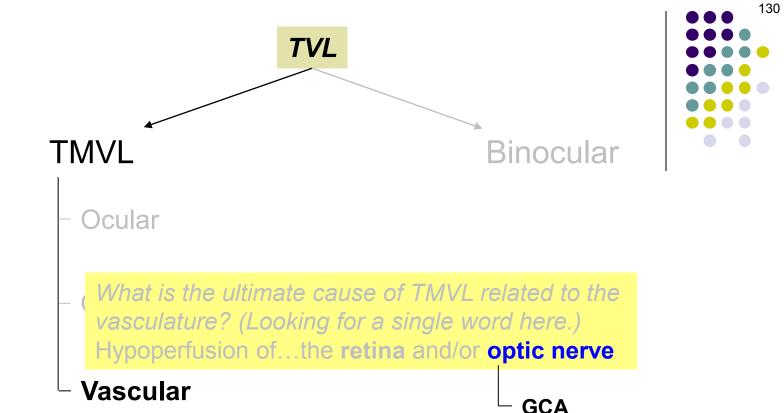
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Pain in the jaw brought on by chewing

What is the etiology?





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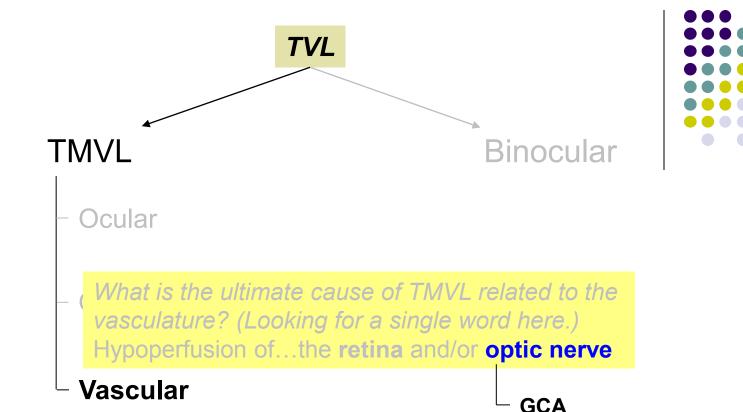
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Same as the leg claudication that PAD pts get when walking—poor muscle perfusion→muscle ischemia with use→pain



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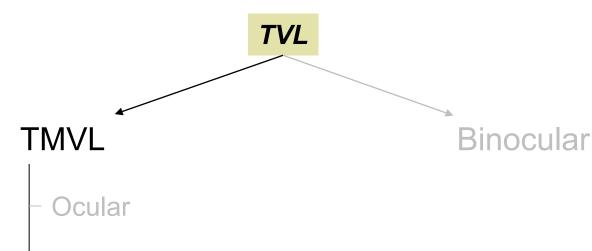
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131

Does the pain localize to the TMJ?







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Vascular

GCA

In general terms, what is GCA?

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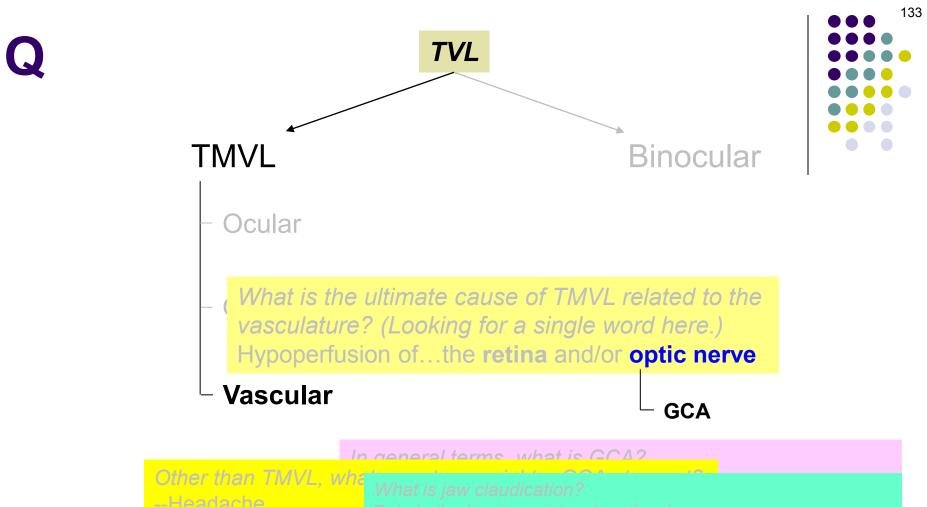
What is jaw claudication?

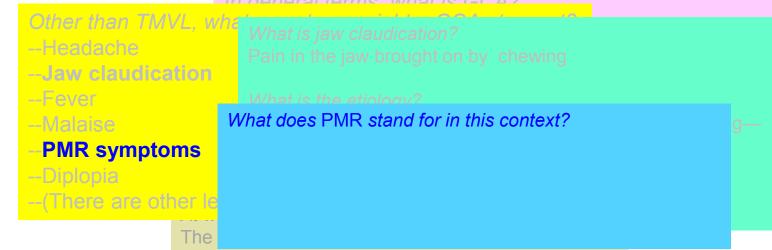
Pain in the jaw brought on by chewing

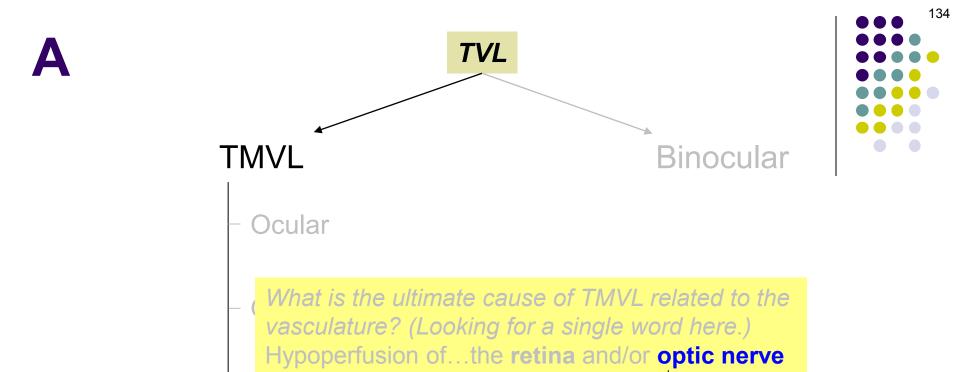
What is the etiology?

Same as the leg claudication that PAD pts get when walking—poor muscle perfusion→muscle ischemia with use→pain

Does the pain localize to the TMJ? No! If it does, it's not claudication



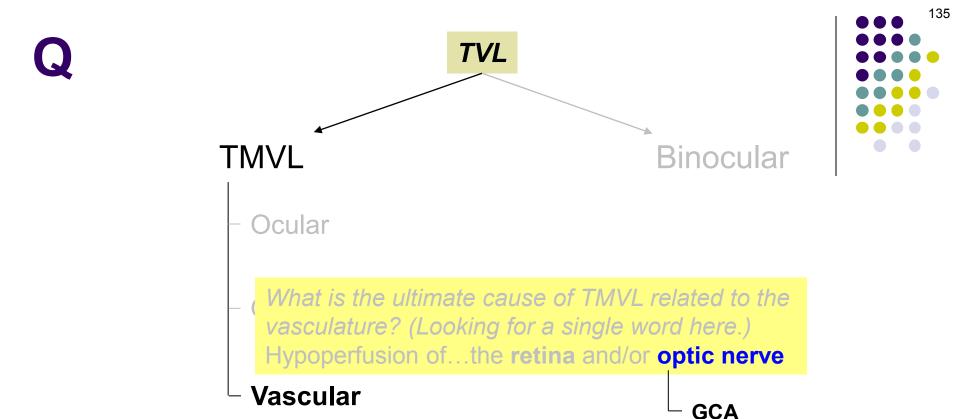


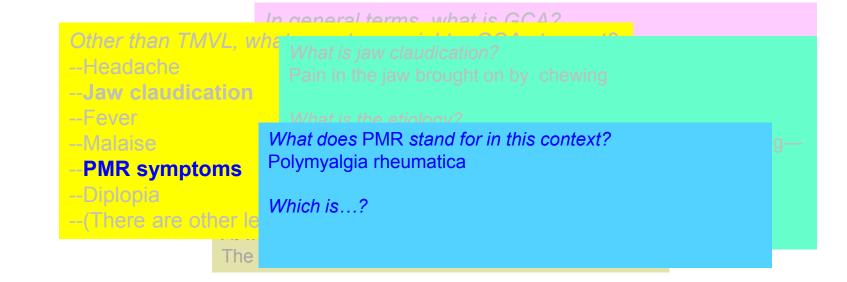


Vascular

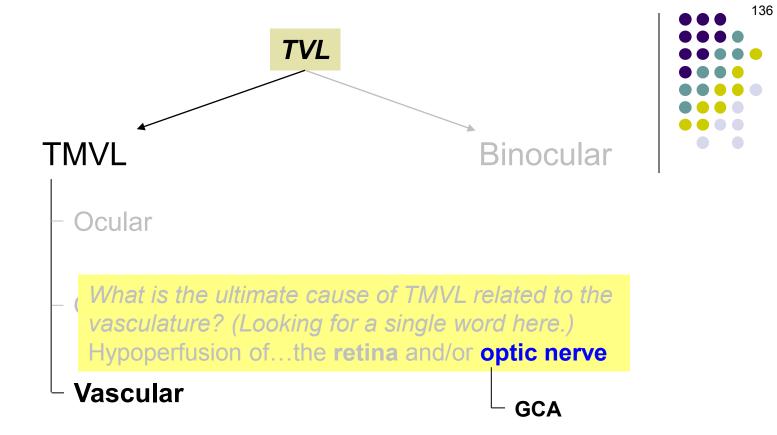
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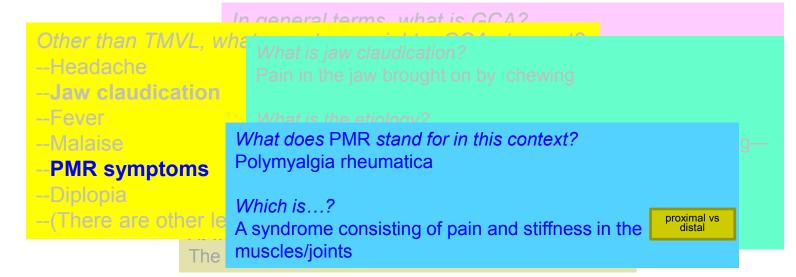
GCA













TVL TMVL Binocular



Ocular

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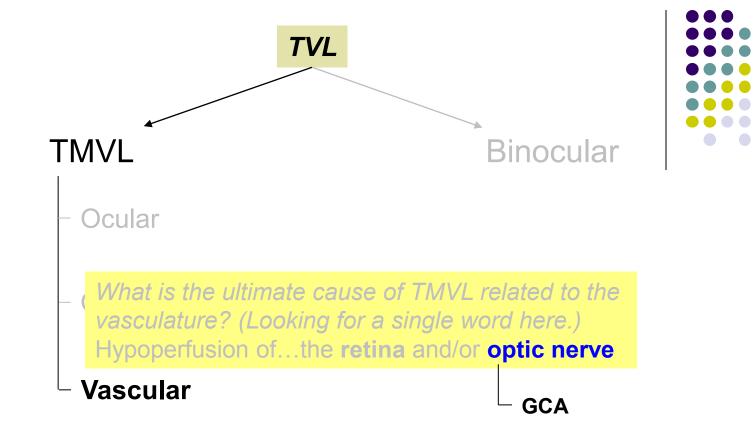
- --Jaw claudication
- --Malaise
- -PMR symptoms

What does PMR stand for in this context? Polymyalgia rheumatica

Which is ...?

A syndrome consisting of pain and stiffness in the proximal muscles/joints

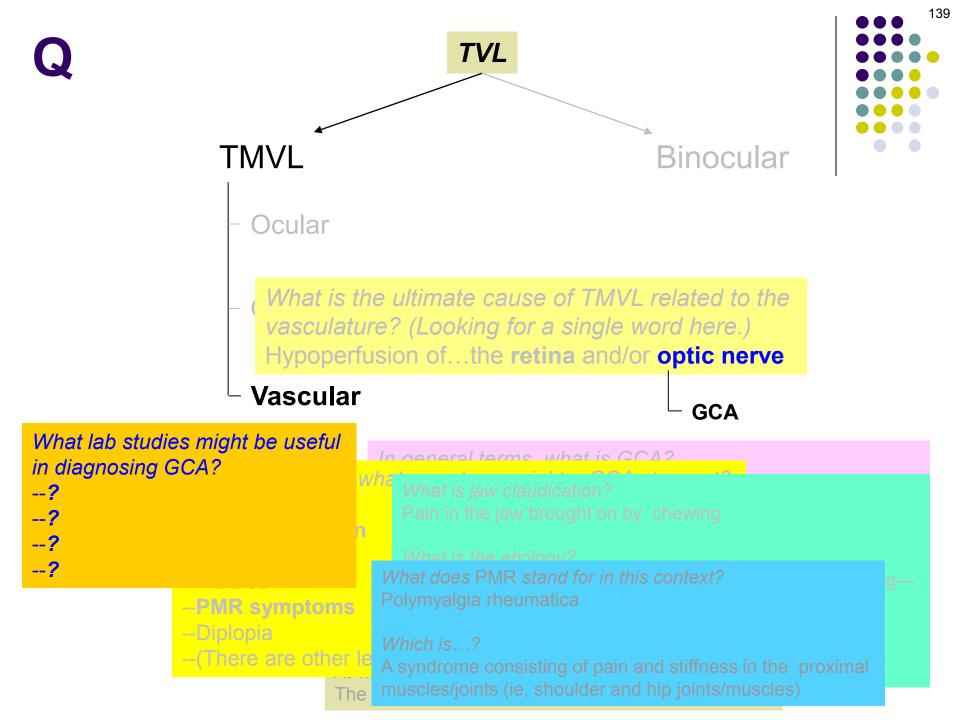


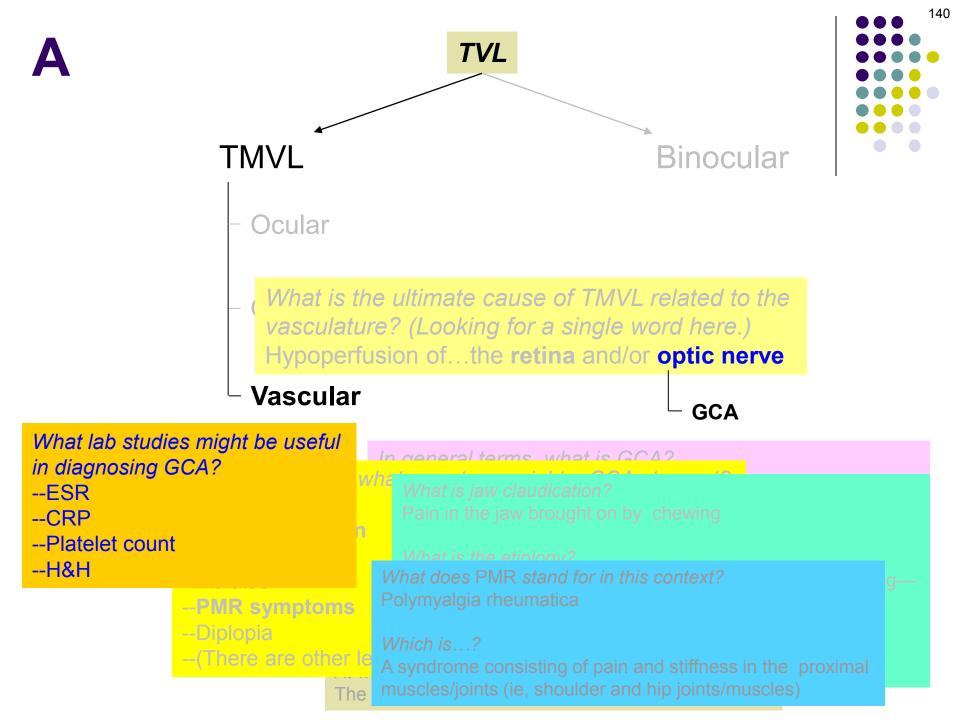


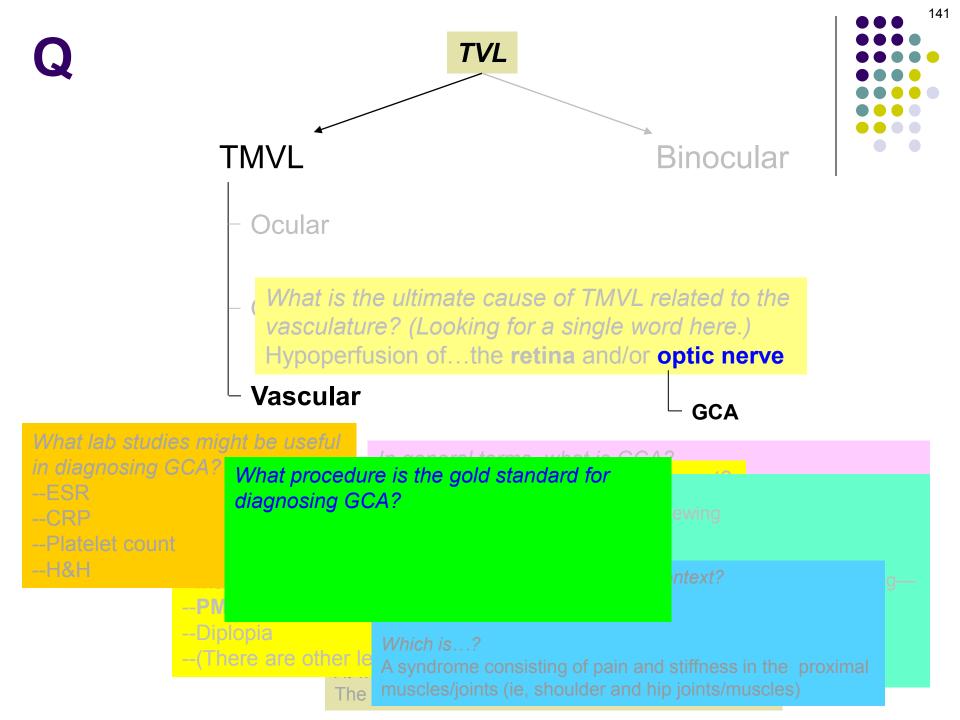
138

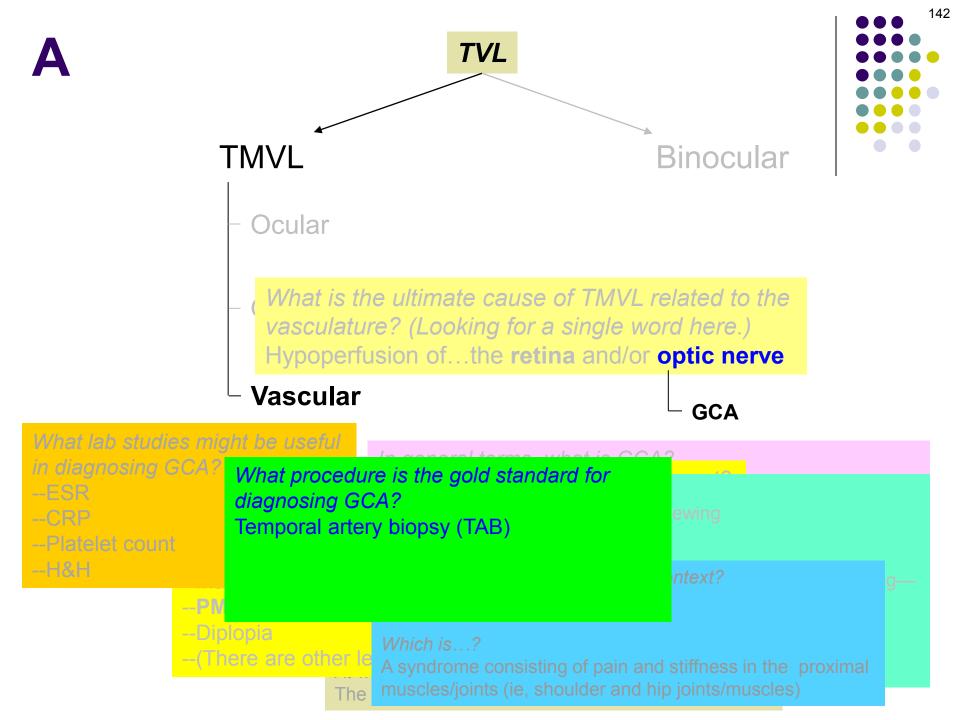
Other than TMVL, whe Headache -Jaw claudication --Fever --Malaise --Diplopia --(There are other le

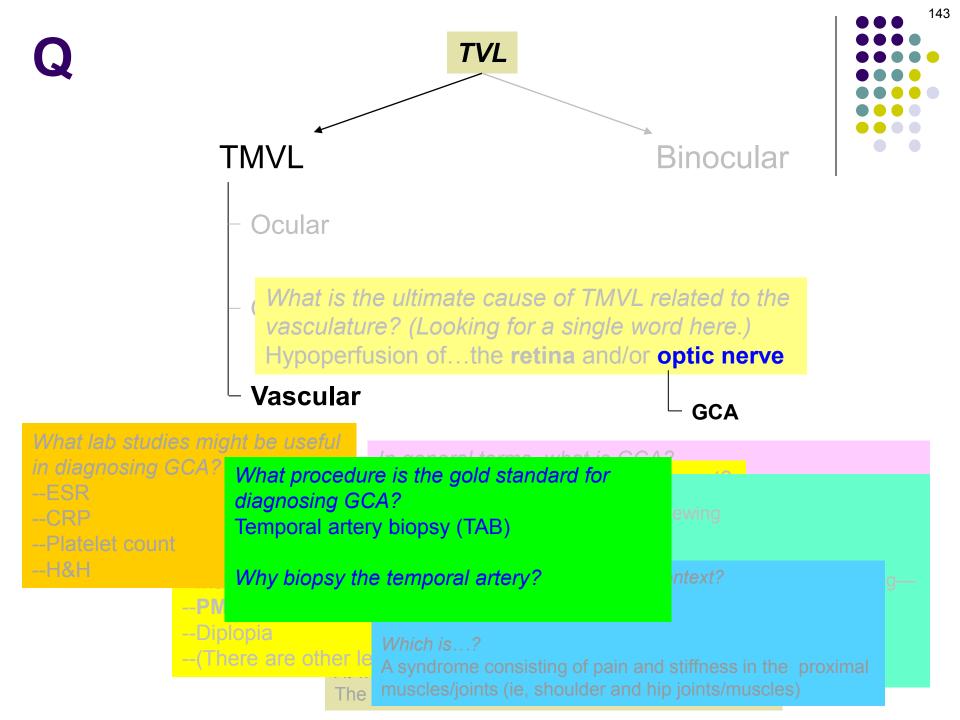
muscles/joints (ie, shoulder and hip joints/muscles)

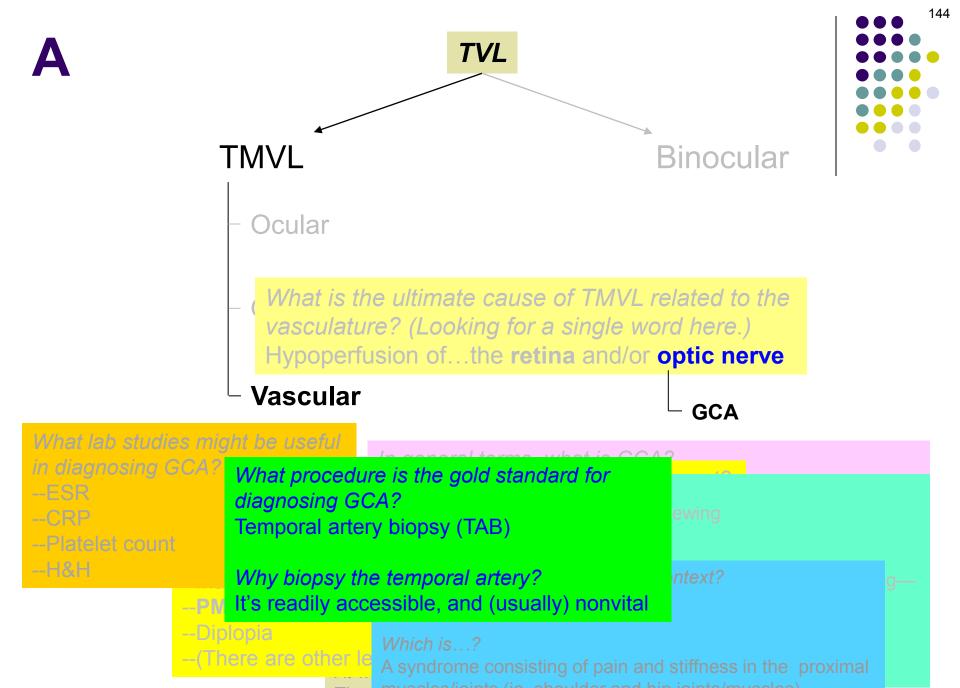


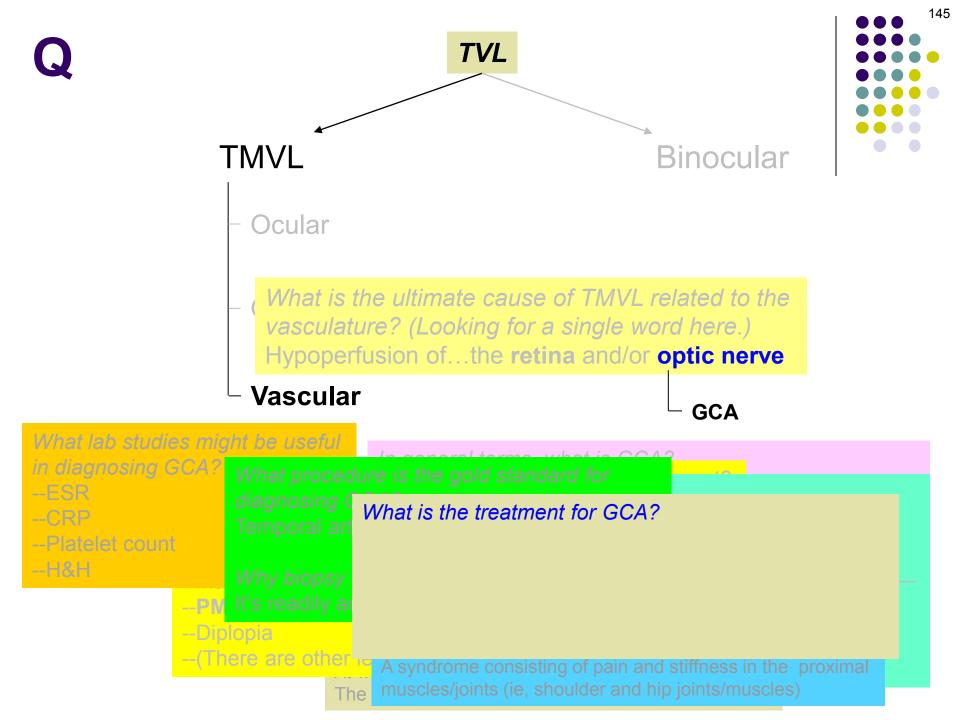


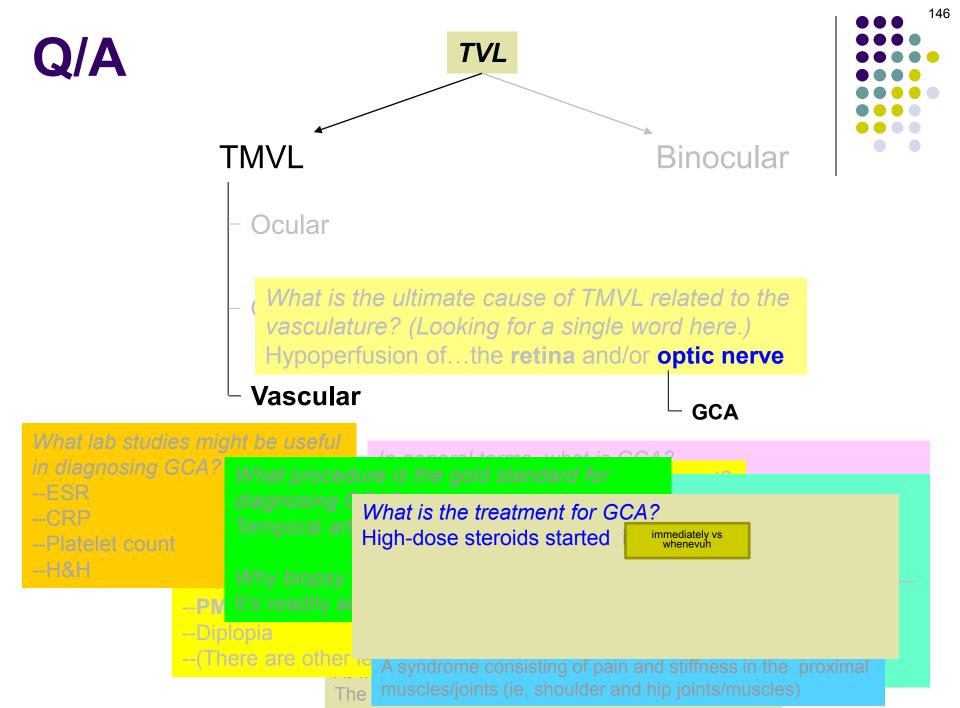


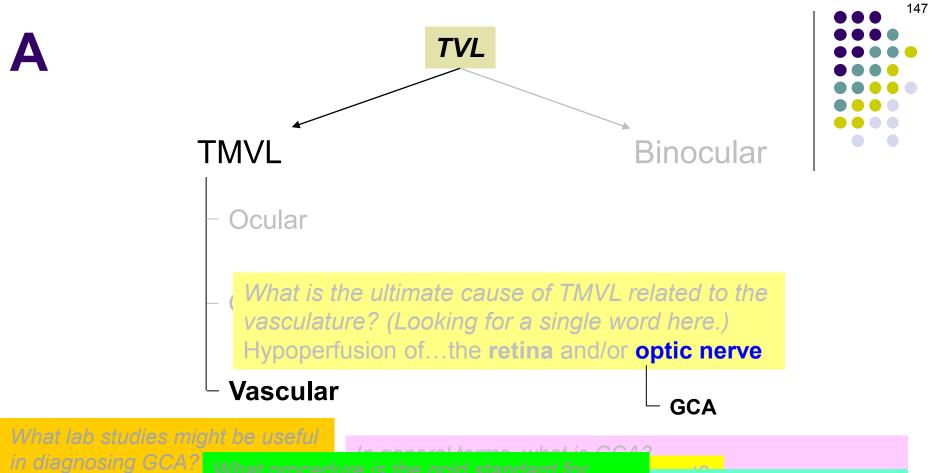


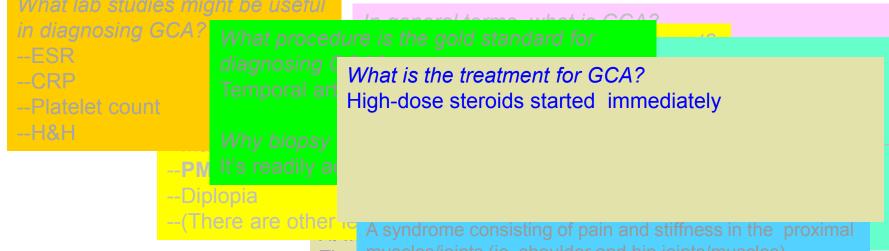


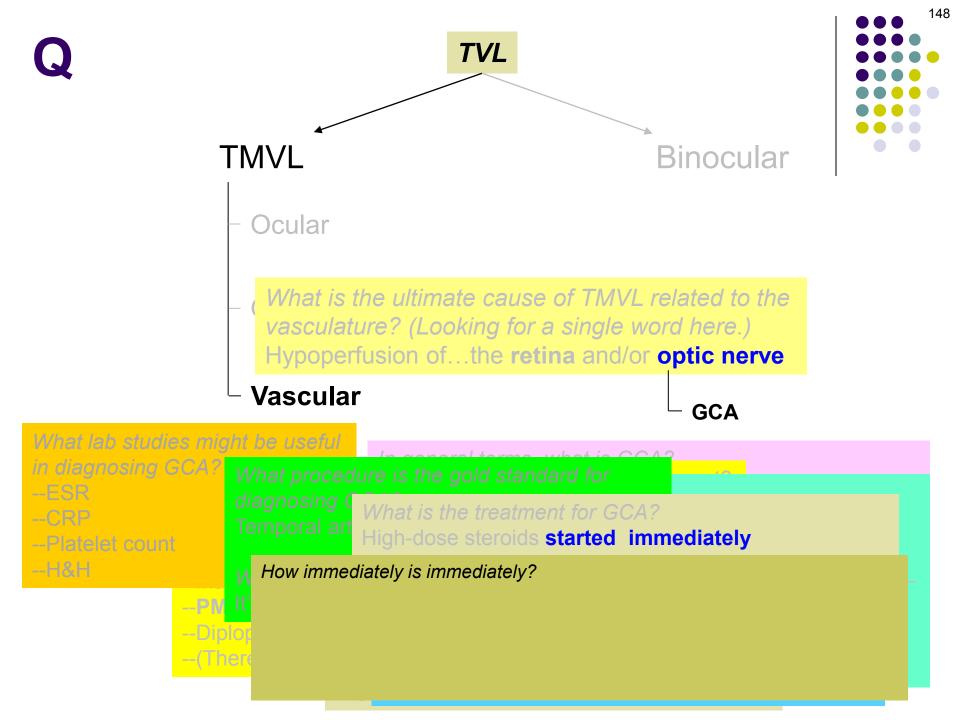


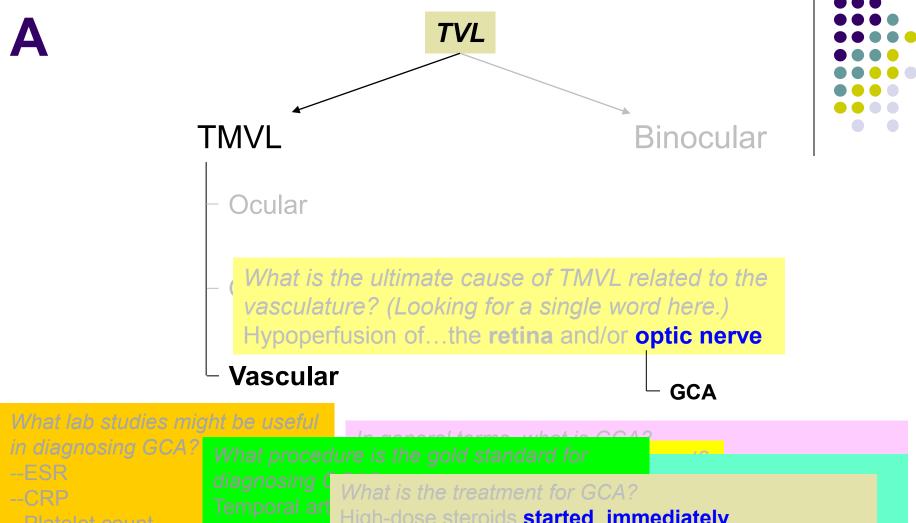










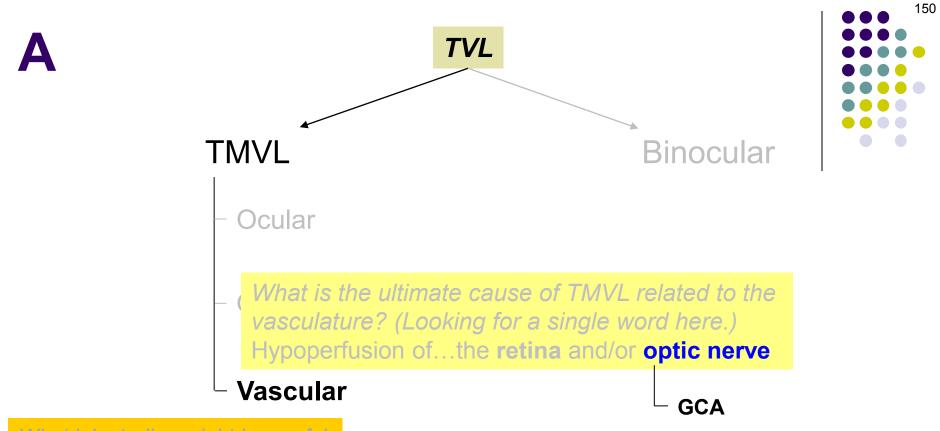


High-dose steroids started immediately

How immediately is immediately?

Immediately as in, if the index of suspicion warrants it, treatment should be started before confirmatory labs are *drawn* (much less *reported back*)

149



What lab studies might be useful

in diagnosing GCA?

--ESR

--CRP

--Platelet count

--H&H

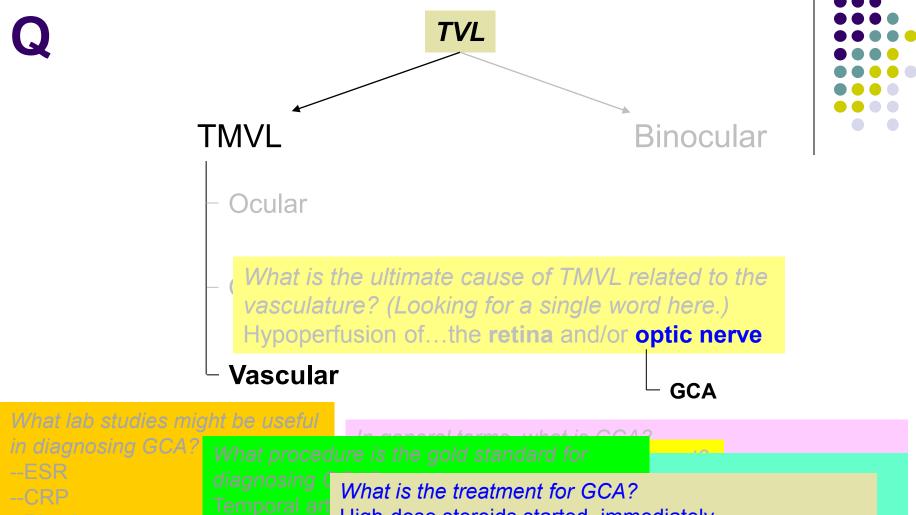
What procedure is the gold standard for

what is the treatment for GCA

High-dose steroids started immediately

How immediately is immediately?

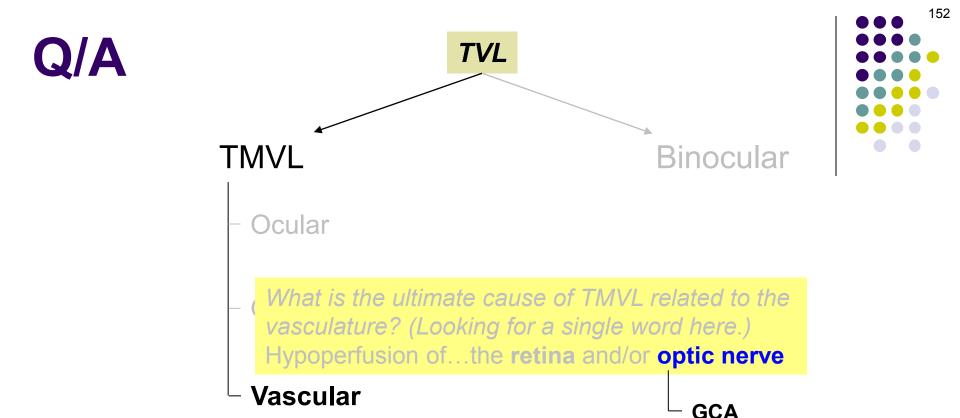
Immediately as in, if the index of suspicion warrants it, treatment should be started before confirmatory labs are *drawn* (much less *reported back*). In fact, some practices go so far as to maintain a GCA 'crash cart' in their clinic containing the supplies needed to commence IV steroids without the delay inherent in gathering equipment and procuring the med.

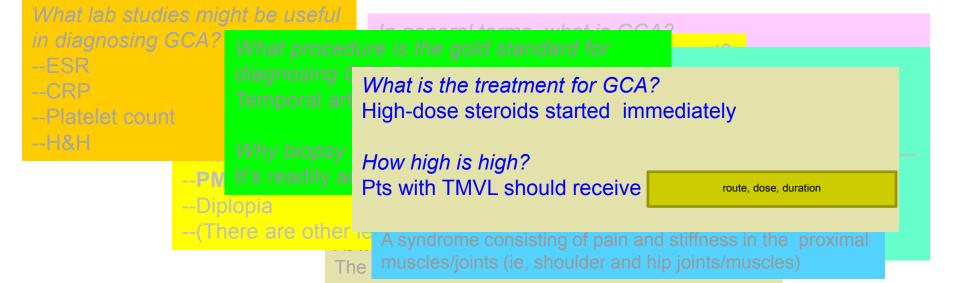


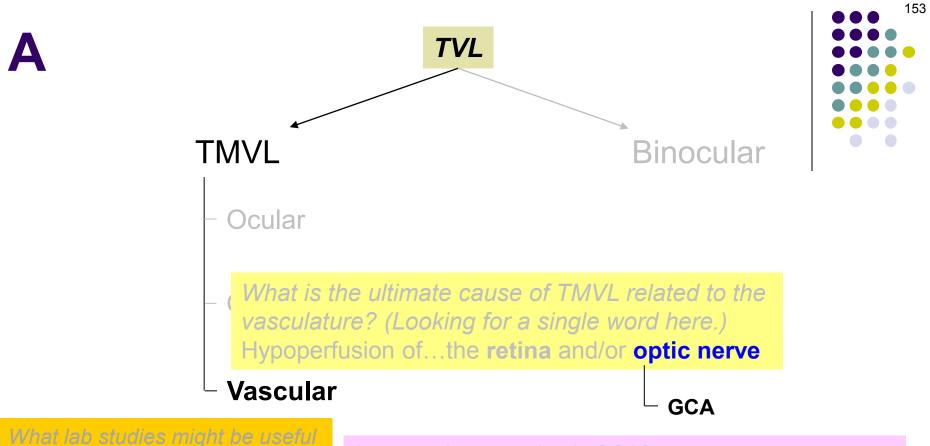
What procedure is the gold standard for diagnosing (Temporal art High-dose steroids started immediately

Why biopsy It's readily at How high is high?

There are other to a syndrome consisting of pain and stiffness in the proximal muscles/joints (ie, shoulder and hip joints/muscles)



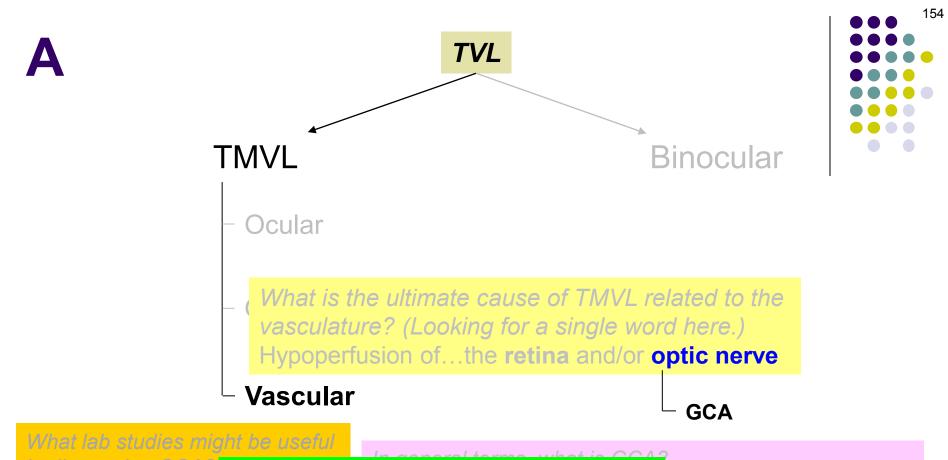




in diagnosing GCA?

-ESR
-CRP
-Platelet count
-H&H

Why biopsy
It's readily at
-Diplopia
-(There are other by A syndrome consisting of pain and stiffness in the proximal



What procedure is the gold standard for diagnosing (Temporal art High-dose steroids started immediately

Why biopsy It's readily at How high is high?

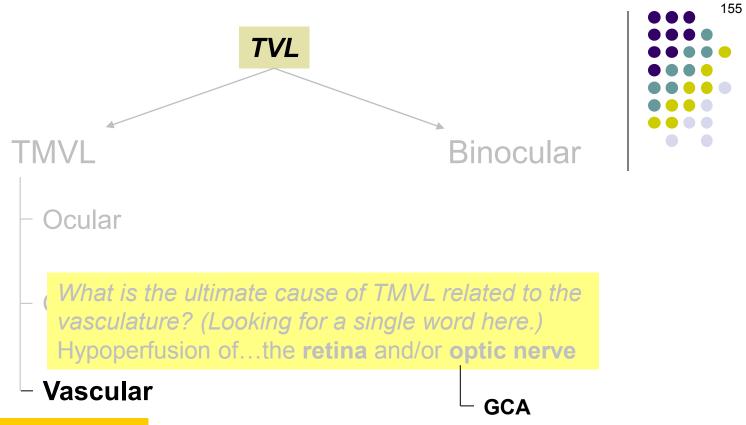
Place of the procedure is the gold standard for diagnosing (Temporal art High-dose steroids started immediately)

How high is high?

Pts with TMVL should receive IV pred 1 g/d x 3-5 days, then switch over to PO

(There are other Manuscles)

A syndrome consisting of pain and stiffness in the proximal muscles/joints (ie, shoulder and hip joints/muscles)



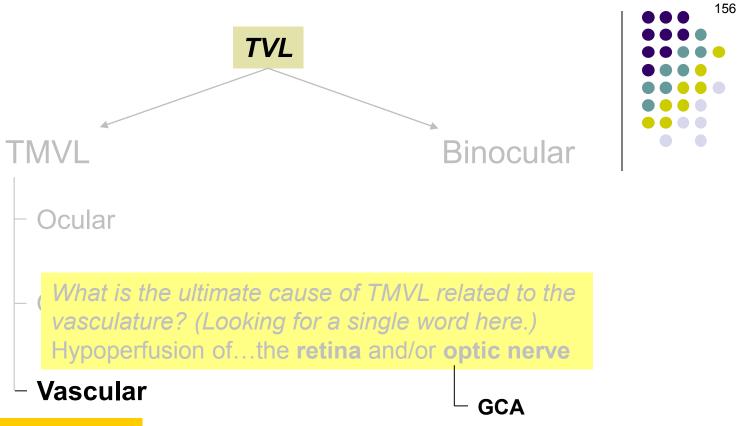
What lab studies might be useful

in diag --ESR --CRP

--CRP --Plate If a TMVL pt is over 50—and especially if she's over 70, and AFAB—establishing an index of suspicion for GCA (and acting on it, if high) is the first order of the day.

Pts with TMVL should receive TV pred 1 g/d x 3-5 days, then switch over to PO

The muscles/joints (ie, shoulder and hip joints/muscles)



What lab studies might be useful

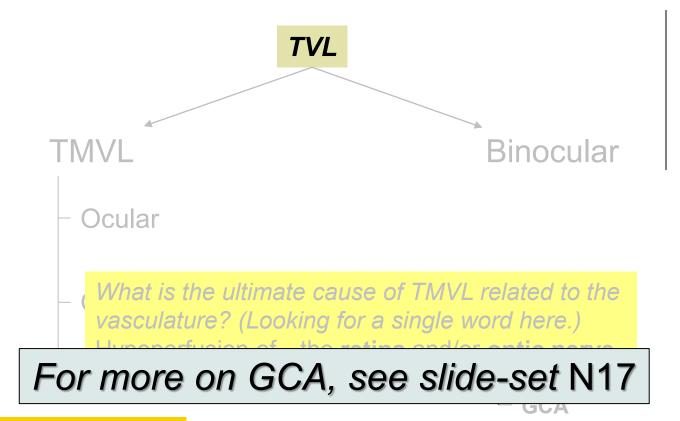
in diag --ESR --CRP

If a TMVL pt is over 50—and especially if she's over 70, and AFAB—establishing an index of suspicion for GCA (and acting on it, if high) is the first order of the day. (Fortunately, this is easily accomplished via a few questions posed while taking an initial history or performing the anterior-segment slit lamp exam.)

Pts with TMVL should receive TV pred 1 g/d x 3-5 days,

then switch over to PO

The muscles/joints (ie, shoulder and hip joints/muscles)

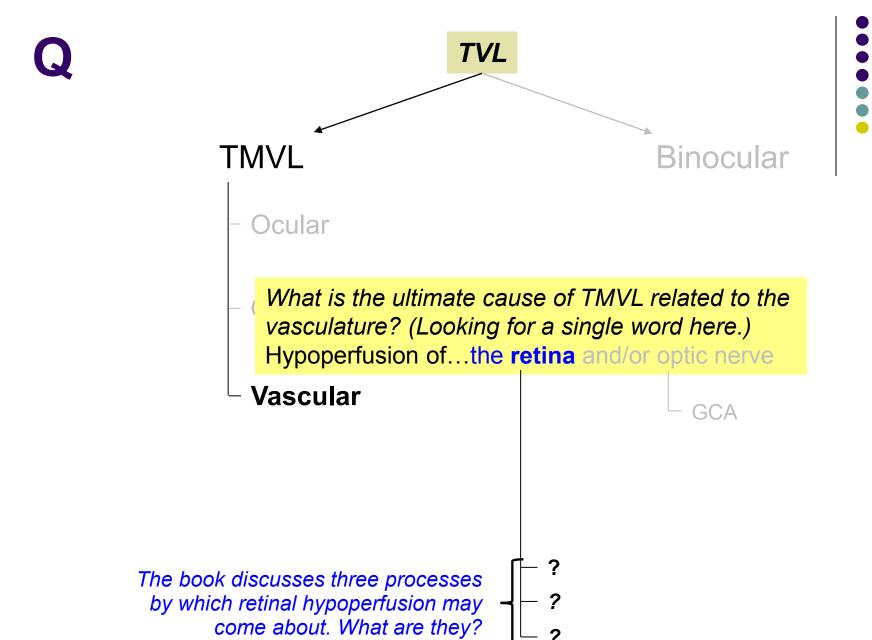


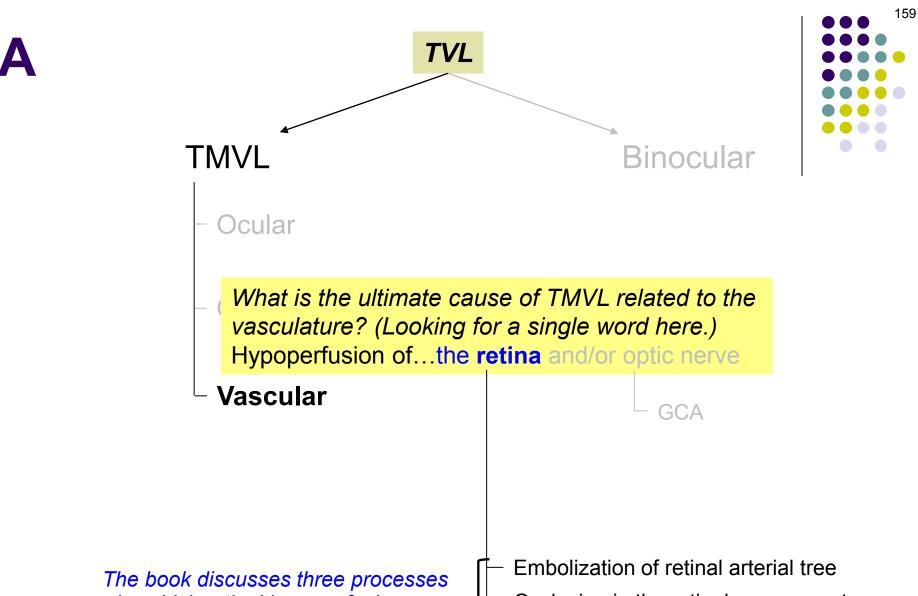
What lab studies might be useful

in diag

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A syndrome consisting of pain and stiffness in the proximal



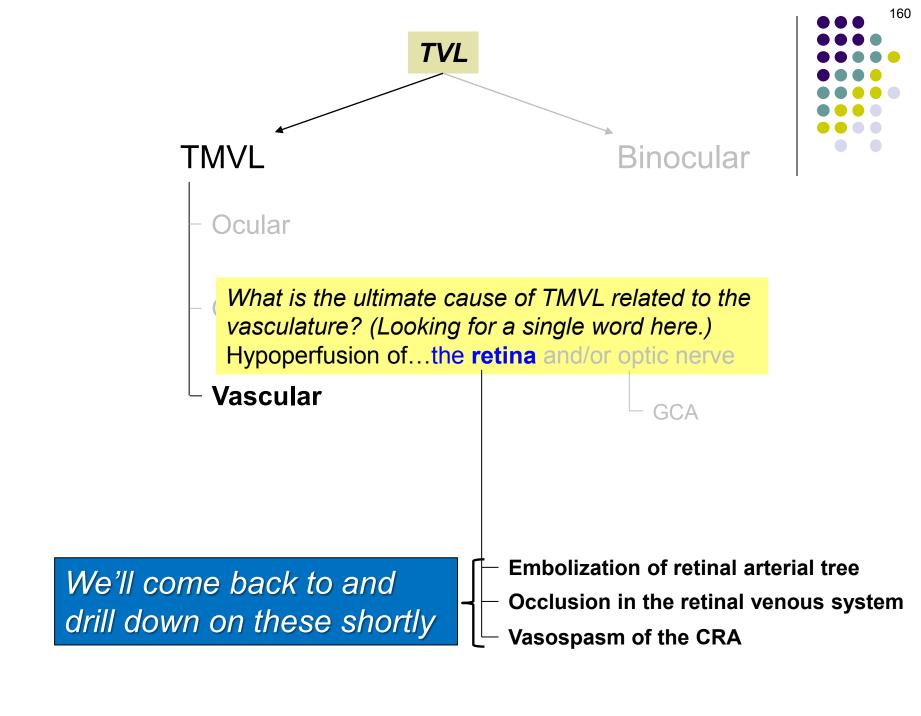


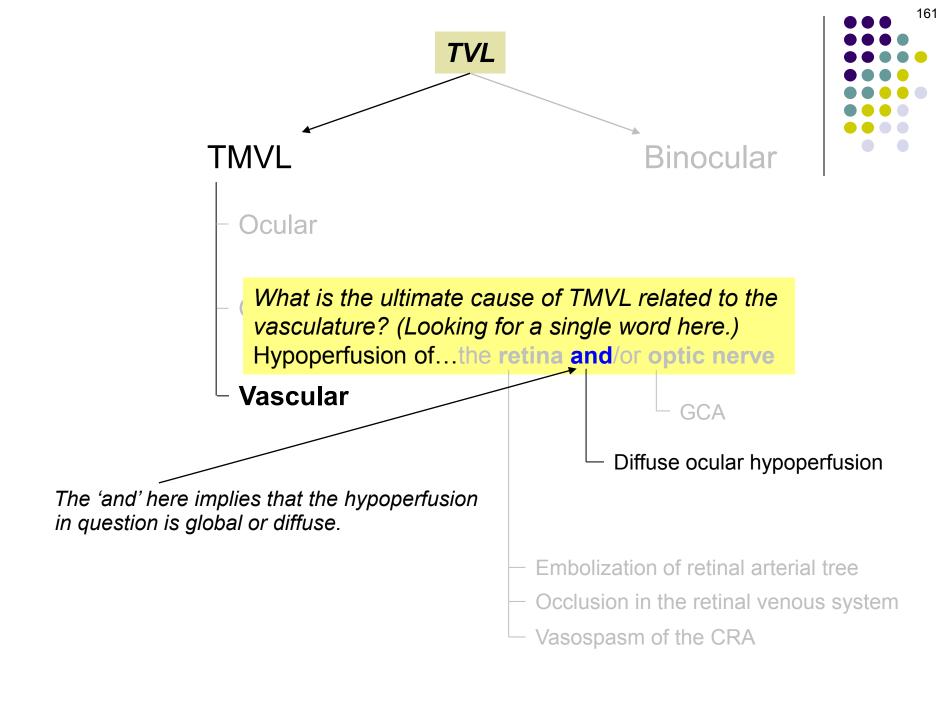
by which retinal hypoperfusion may come about. What are they?

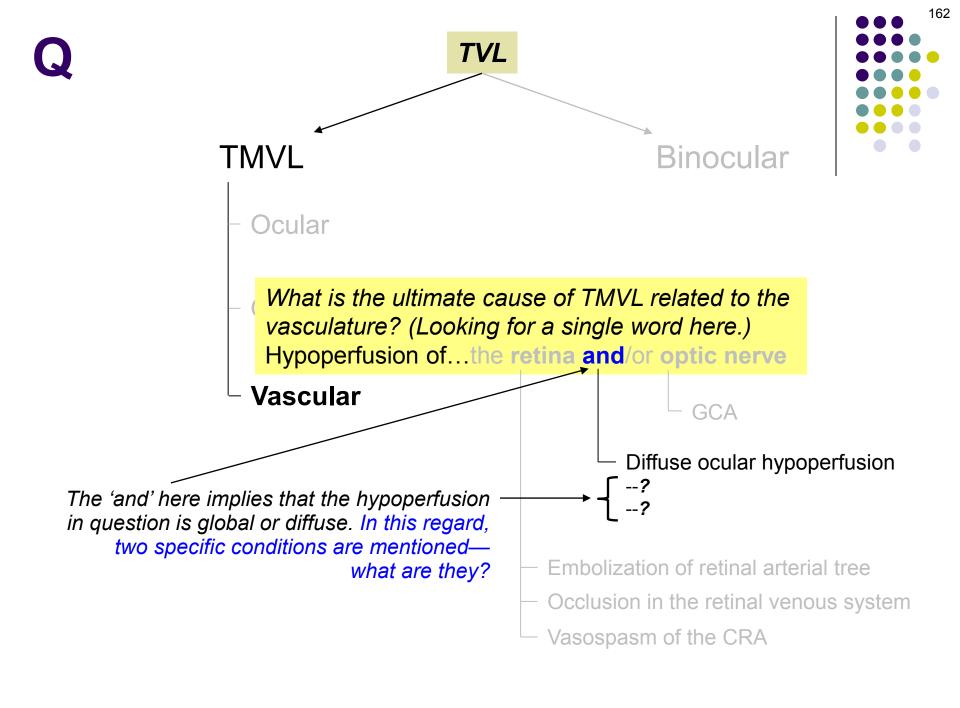
Embolization of retinal arterial tree

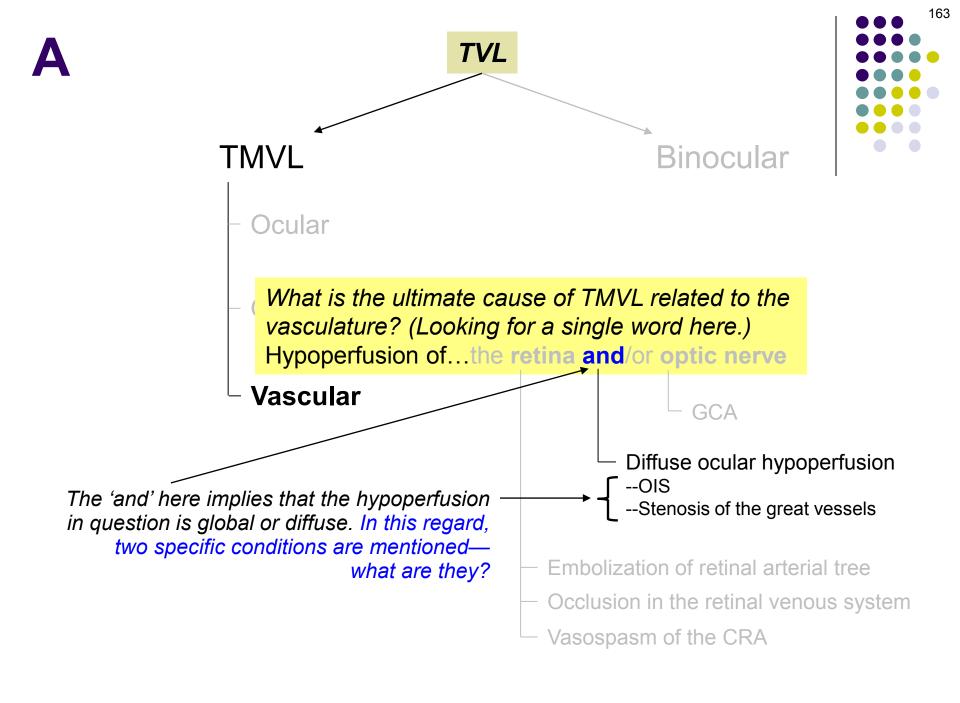
Occlusion in the retinal venous system

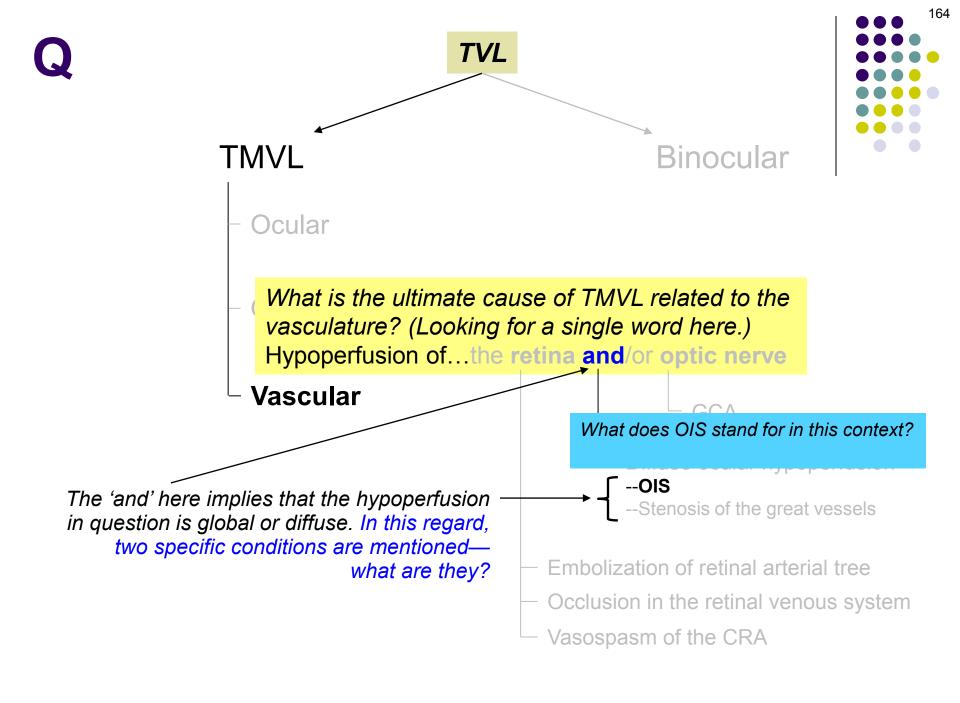
Vasospasm of the CRA

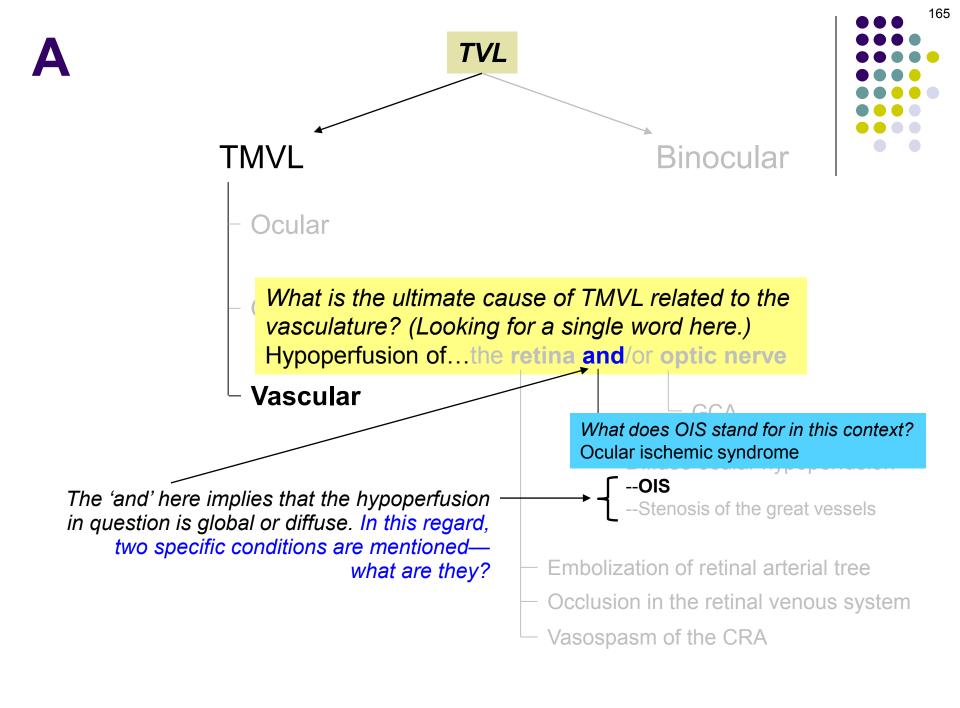


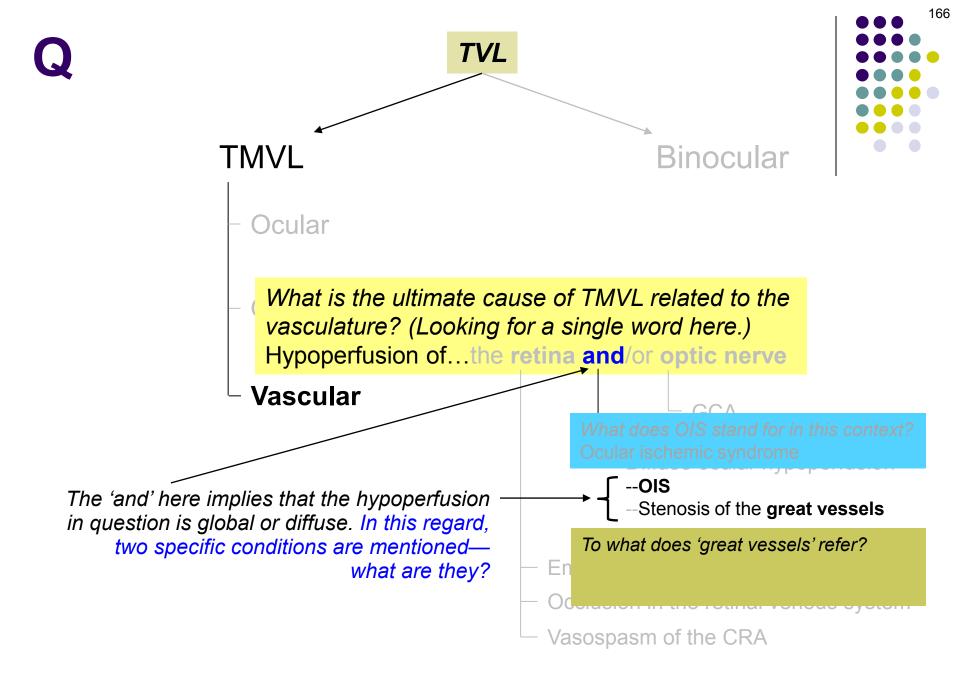


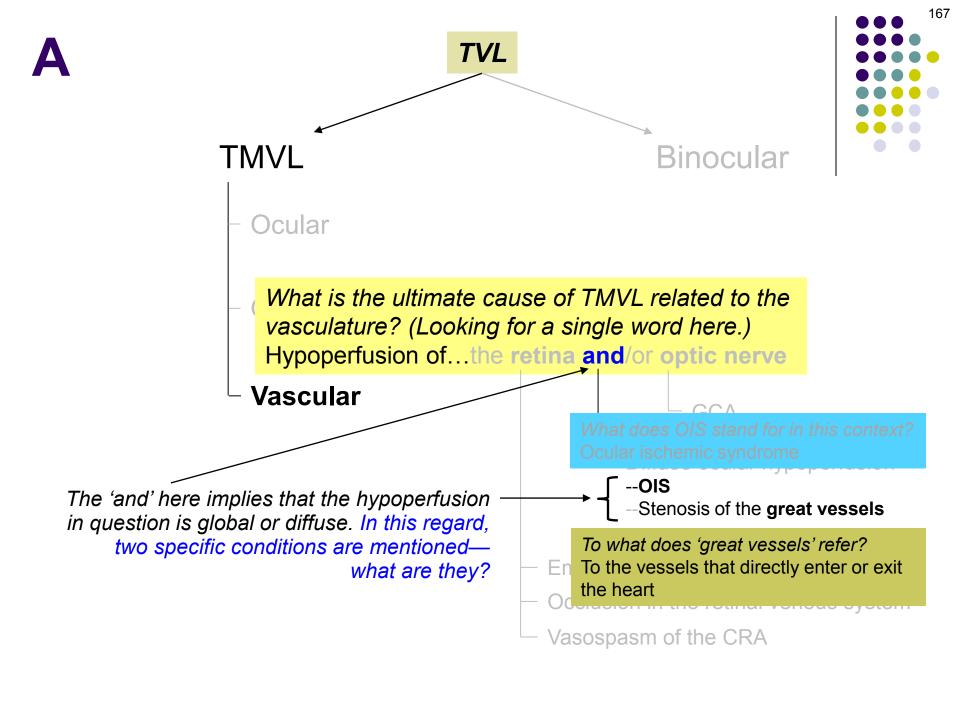












In a nutshell, what is OIS?

A constellation of signs and symptoms owing to chronic ocular **ischemia/hypoperfusion**

Where's the choke point, ie, what vessel is being occluded that produces the chronic hypoperfusion?

The vessel most commonly implicated is the ipsilateral

artery

t?

--Stenosis of the great vessels

To what does 'great vessels' refer?
En To the vessels that directly enter or exit
the heart

172

In a nutshell, what is OIS?

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Where's the choke point, ie, what vessel is being occluded that produces the chronic hypoperfusion?

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173

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A constellation of signs and symptoms owing to chronic ocular ischemia/hypoperfusion

Where's the choke point, ie, what vessel is being occluded that produces the chronic hypoperfusion?

The vessel most commonly implicated is the ipsilateral internal carotid artery

How occluded does the internal carotid artery (ICA) have to be for OIS to occur?

ct?



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In a nutshell, what is OIS?

A constellation of signs and symptoms owing to chronic ocular ischemia/hypoperfusion

Where's the choke point, ie, what vessel is being occluded that produces the chronic hypoperfusion?

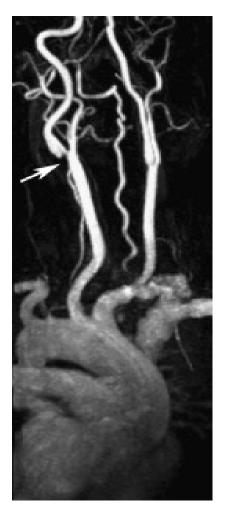
The vessel most commonly implicated is the ipsilateral internal carotid artery

How occluded does the internal carotid artery (ICA) have to be for OIS to occur? Very—at least 50%, and probably closer to 90

ct?



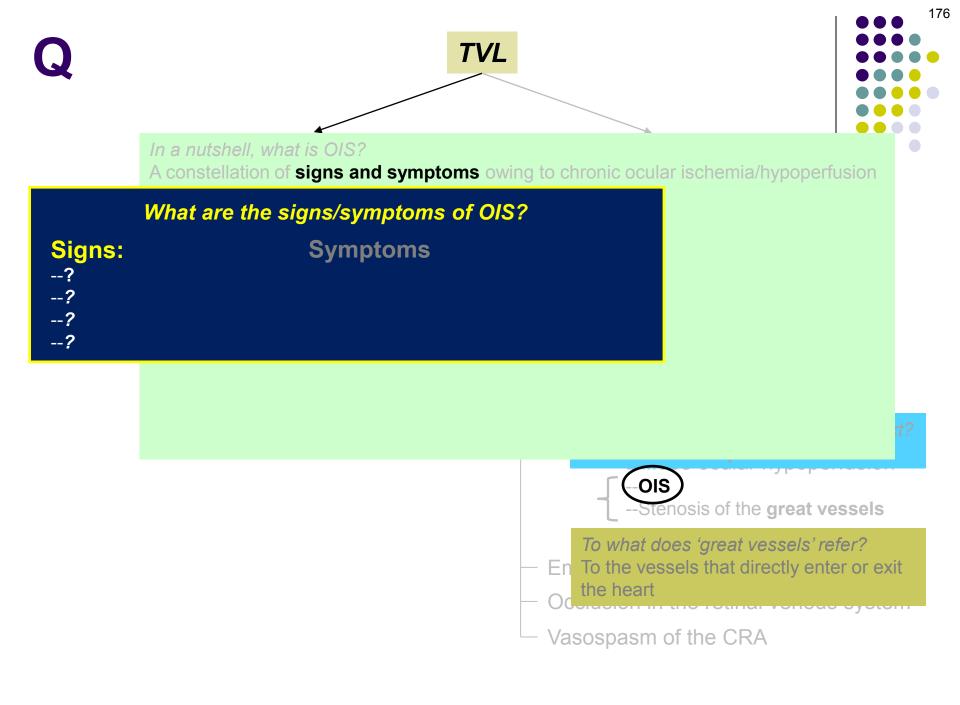
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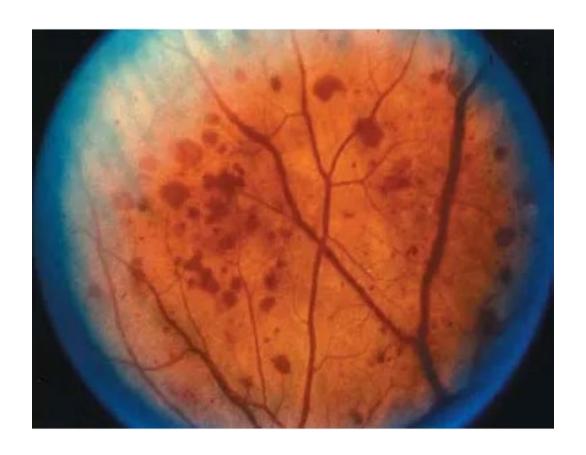


High-grade stenosis of the internal carotid artery origin (arrow) in two pts



Q





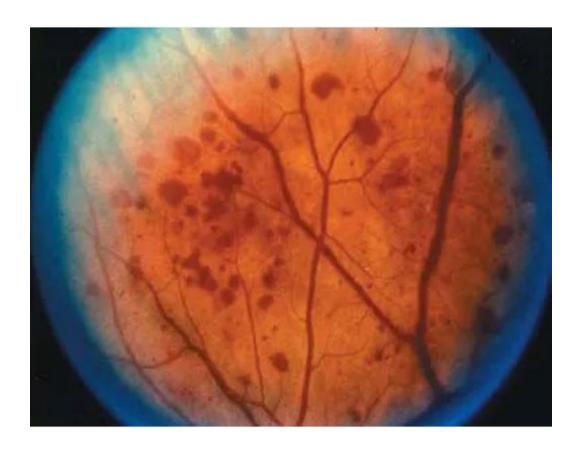
Classic presentation of intraretinal hemorrhages in OIS:

location

shape/type

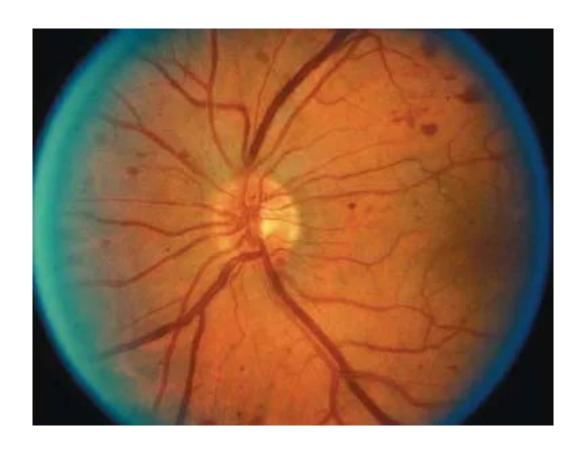
A TVL





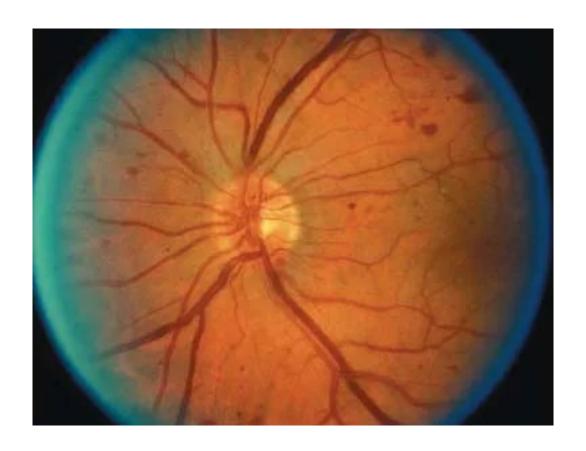
Classic presentation of intraretinal hemorrhages in OIS: Midperipheral, medium-large, dot-blot





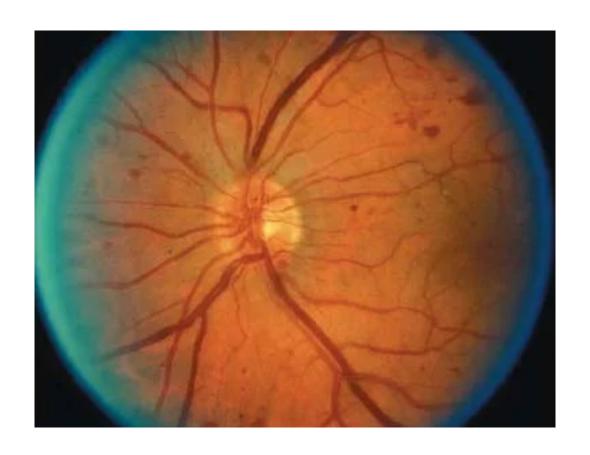
Classic vascular changes in OIS:
--Arteriolar





Classic vascular changes in OIS:
--Arteriolar narrowing





Classic vascular changes in OIS:

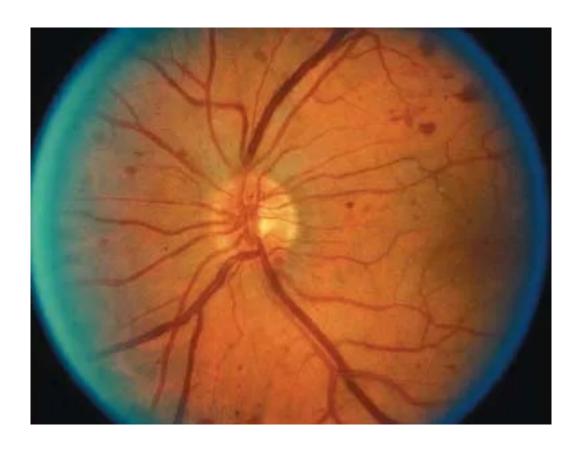
--Arteriolar narrowing

--Venules

but not

A TVL





Classic vascular changes in OIS:
--Arteriolar narrowing
--Venules dilated but not tortuous

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In a nutshell, what is OIS?

A constellation of signs and symptoms owing to chronic ocular ischemia/hypoperfusion

What are the signs/symptoms of OIS?

Signs:

Symptoms:

--Intraretinal hemorrhages ---?

--Retinal vascular changes

ct?

-Stenosis of th

--Stenosis of the **great vessels**

To what does 'great vessels' refer?
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the heart

185

In a nutshell, what is OIS?

A constellation of signs and symptoms owing to chronic ocular ischemia/hypoperfusion

What are the signs/symptoms of OIS?

Signs:

- --Intraretinal hemorrhages
- --NVI/NVA
- --AC cell/flare
- --Retinal vascular changes

Symptoms:

- -- Decreased vision
- --Pain (described as 'dull')
- --Prolonged photostress recovery time

ct?

OIS

--Stenosis of the great vessels

To what does 'great vessels' refer?

En To the vessels that directly enter or exit the heart

186

In a nutshell, what is OIS?

A constellation of signs and symptoms owing to chronic ocular ischemia/hypoperfusion

Does it present unilaterally, or bilaterally?

ct?

--Stenosis of the great vessels

To what does 'great vessels' refer?

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In a nutshell, what is OIS?

A constellation of signs and symptoms owing to chronic ocular ischemia/hypoperfusion

Does it present unilaterally, or bilaterally?
Unilaterally (in about 6 of cases)

ct?

--Stenosis of the great vessels

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188

In a nutshell, what is OIS?

A constellation of signs and symptoms owing to chronic ocular ischemia/hypoperfusion

Does it present unilaterally, or bilaterally? Unilaterally (in about 80% of cases)

ct?

--Stenosis of the great vessels

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189

In a nutshell, what is OIS?

A constellation of signs and symptoms owing to chronic ocular ischemia/hypoperfusion

Does it present unilaterally, or bilaterally? Unilaterally (in about 80% of cases)

Is there a gender predilection?

ct?

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Does it present unilaterally, or bilaterally? Unilaterally (in about 80% of cases)

Is there a gender predilection?

Yes, MyF are twice as likely to have it

ct?

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A constellation of signs and symptoms owing to chronic ocular ischemia/hypoperfusion

Does it present unilaterally, or bilaterally? Unilaterally (in about 80% of cases)

Is there a gender predilection?
Yes, men are twice as likely to have it

ct?

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Yes, men are twice as likely to have it

Is there a relationship with age?

ct?

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In a nutshell, what is OIS?

A constellation of signs and symptoms owing to chronic ocular ischemia/hypoperfusion

Does it present unilaterally, or bilaterally? Unilaterally (in about 80% of cases)

Is there a gender predilection?

Yes, men are twice as likely to have it

Is there a relationship with age?

Yes, OIS is a dz of older v younger individuals

ct?

193



To what does 'great vessels' refer?
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194

In a nutshell, what is OIS?

A constellation of signs and symptoms owing to chronic ocular ischemia/hypoperfusion

Does it present unilaterally, or bilaterally? Unilaterally (in about 80% of cases)

Is there a gender predilection?

Yes, men are twice as likely to have it

Is there a relationship with age?
Yes, OIS is a dz of older individuals



To what does 'great vessels' refer?

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195

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A constellation of signs and symptoms owing to chronic ocular ischemia/hypoperfusion

Does it present unilaterally, or bilaterally? Unilaterally (in about 80% of cases)

Is there a gender predilection?
Yes, men are twice as likely to have it

Is there a relationship with age?
Yes, OIS is a dz of older individuals—average age is about

#

ct?

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196

In a nutshell, what is OIS?

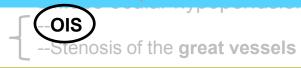
A constellation of signs and symptoms owing to chronic ocular ischemia/hypoperfusion

Does it present unilaterally, or bilaterally? Unilaterally (in about 80% of cases)

Is there a gender predilection?
Yes, men are twice as likely to have it

Is there a relationship with age?
Yes, OIS is a dz of older individuals—average age is about 65

ct?



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In a nutshell, what is OIS?

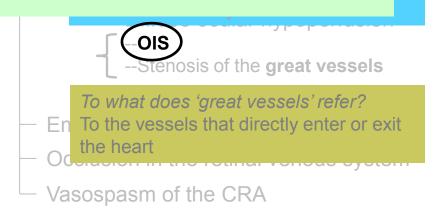
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*Is there a gender predilection?*Yes, men are twice as likely to have it

Is there a relationship with age?
Yes, OIS is a dz of older individuals—average age is about 65

Does OIS carry implications for the general health of the afflicted individual?



In a nutshell, what is OIS?

A constellation of signs and symptoms owing to chronic ocular ischemia/hypoperfusion

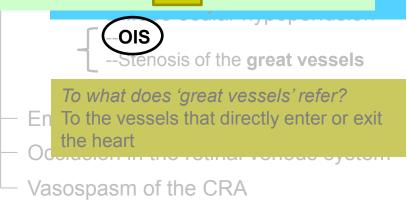
Does it present unilaterally, or bilaterally? Unilaterally (in about 80% of cases)

Is there a gender predilection?

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Does OIS carry implications for the general health of the afflicted individual? Indeed it does—the 5-year mortality rate associated with OIS is vikes



199

In a nutshell, what is OIS?

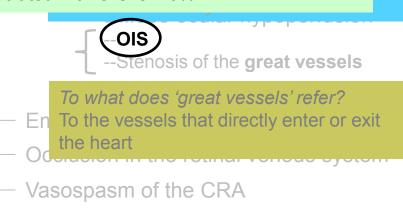
A constellation of signs and symptoms owing to chronic ocular ischemia/hypoperfusion

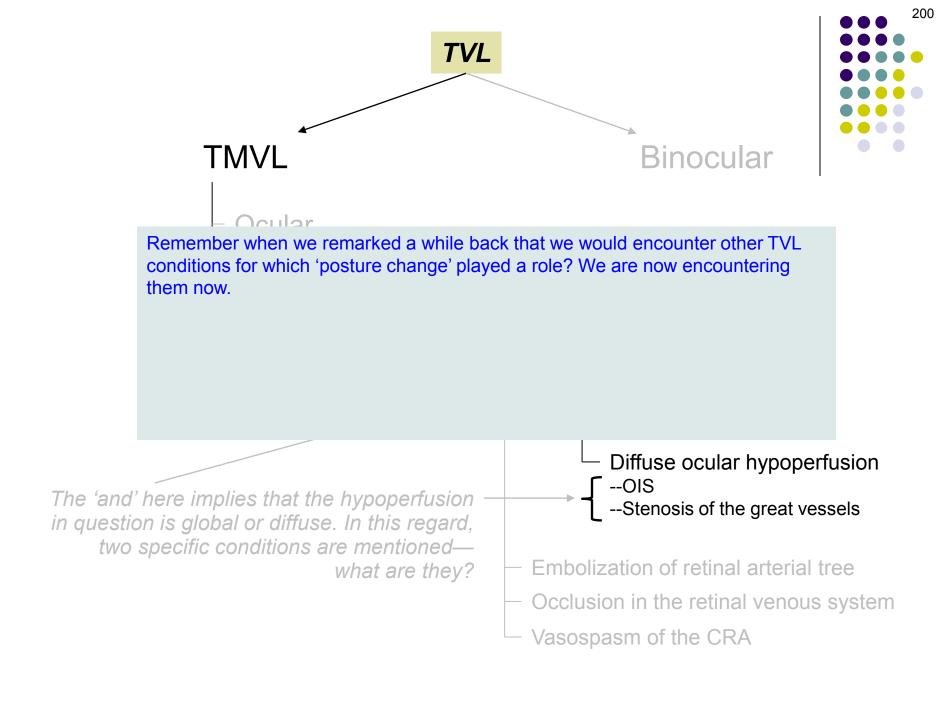
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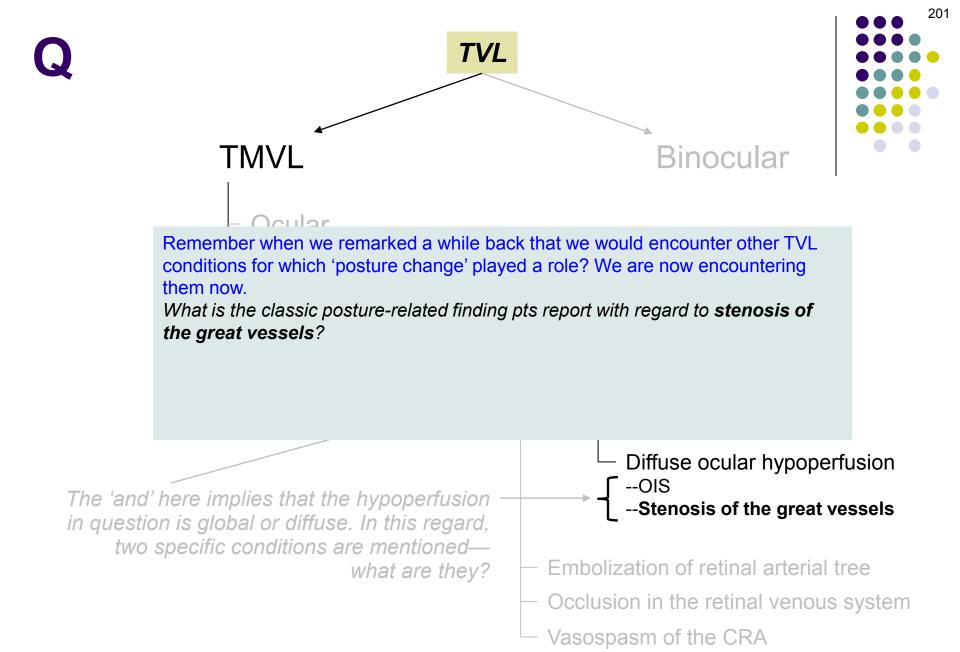
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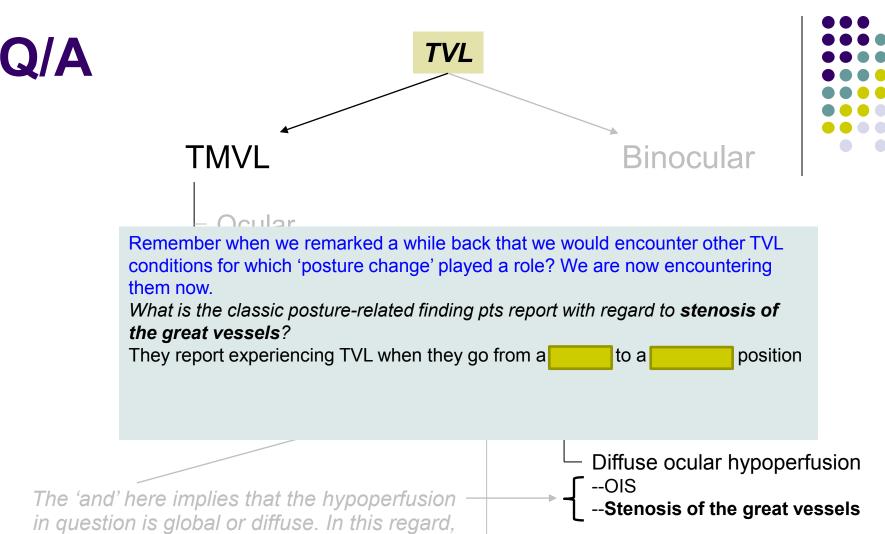
Is there a relationship with age?
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Does OIS carry implications for the general health of the afflicted individual? Indeed it does—the 5-year mortality rate associated with OIS is 40%!







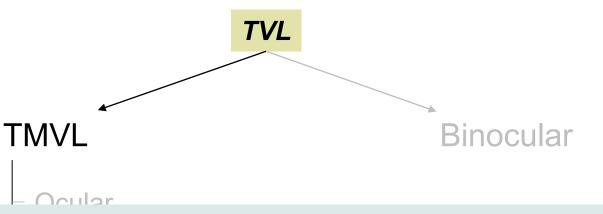


two specific conditions are mentioned what are they?

Embolization of retinal arterial tree Occlusion in the retinal venous system Vasospasm of the CRA

202





Remember when we remarked a while back that we would encounter other TVL conditions for which 'posture change' played a role? We are now encountering them now.

What is the classic posture-related finding pts report with regard to **stenosis of the great vessels**?

They report experiencing TVL when they go from a sitting to a standing position

The 'and' here implies that the hypoperfusion in question is global or diffuse. In this regard, two specific conditions are mentioned—what are they?

Diffuse ocular hypoperfusion
 J --OIS
 J --Steposis of the great vessels

203

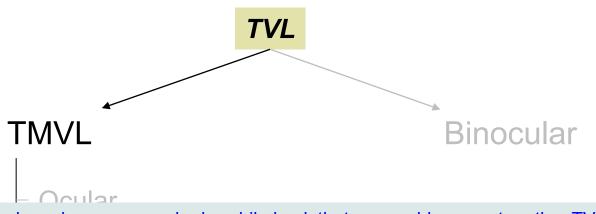
--Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system

Vasospasm of the CRA





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Diffuse ocular hypoperfusion
--OIS
--Stenosis of the great vessels

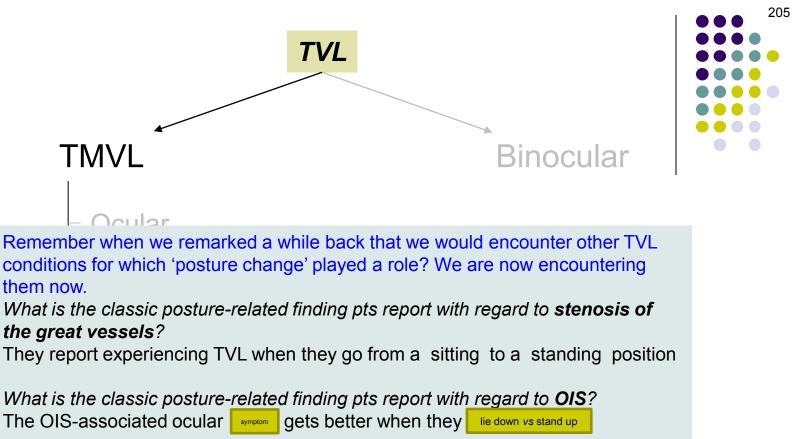
204

Embolization of retinal arterial tree

Occlusion in the retinal venous system

Vasospasm of the CRA





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--Stenosis of the great vessels

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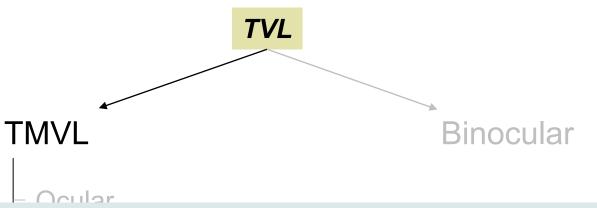
-- Embolization of retinal arterial tree

-- Occlusion in the retinal venous system

-- Vasospasm of the CRA

Diffuse ocular hypoperfusion





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They report experiencing TVL when they go from a sitting to a standing position

What is the classic posture-related finding pts report with regard to **OIS**? The OIS-associated ocular ache gets better when they lie down

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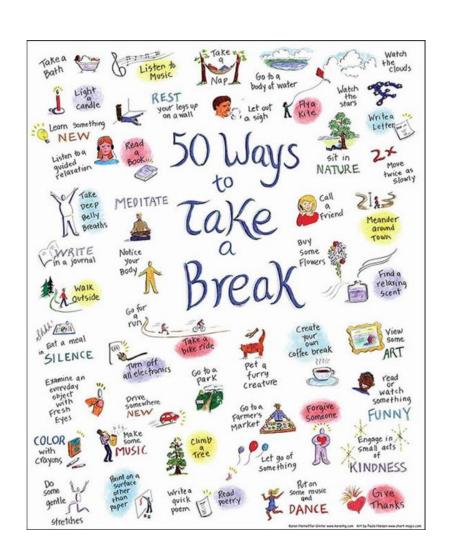
Diffuse ocular hypoperfusion
 --OIS
 --Stenosis of the great vessels

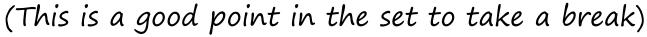
206

Embolization of retinal arterial tree

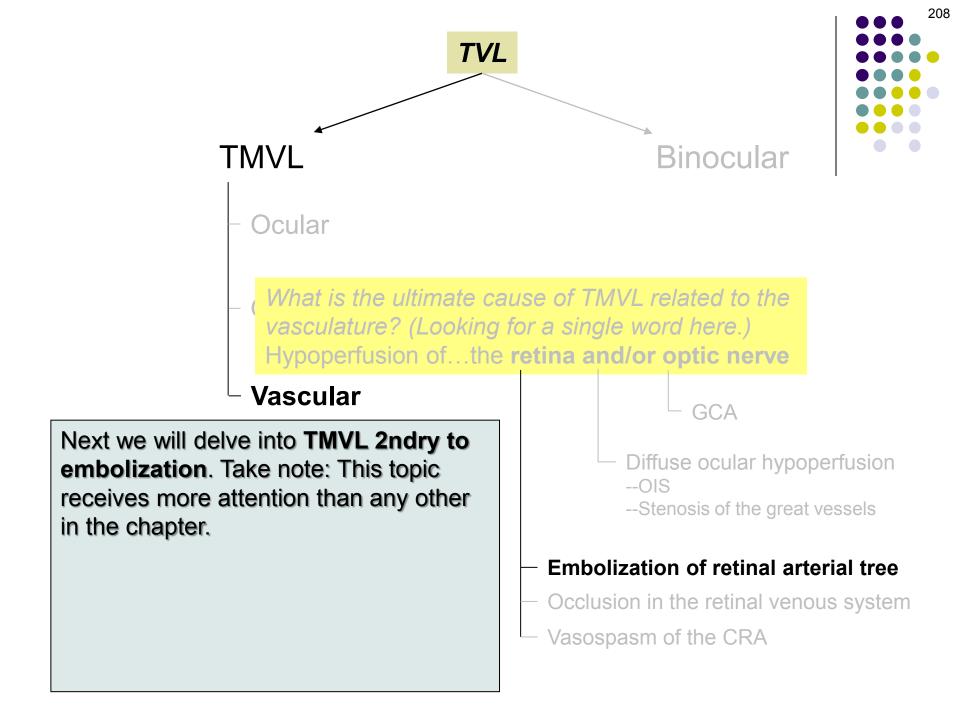
Occlusion in the retinal venous system

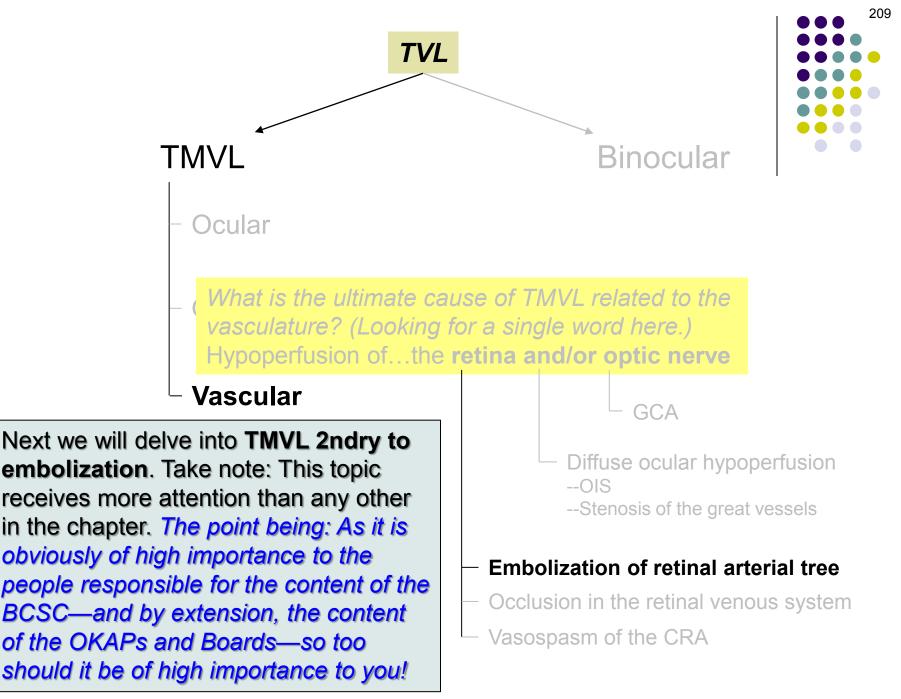
Vasospasm of the CRA

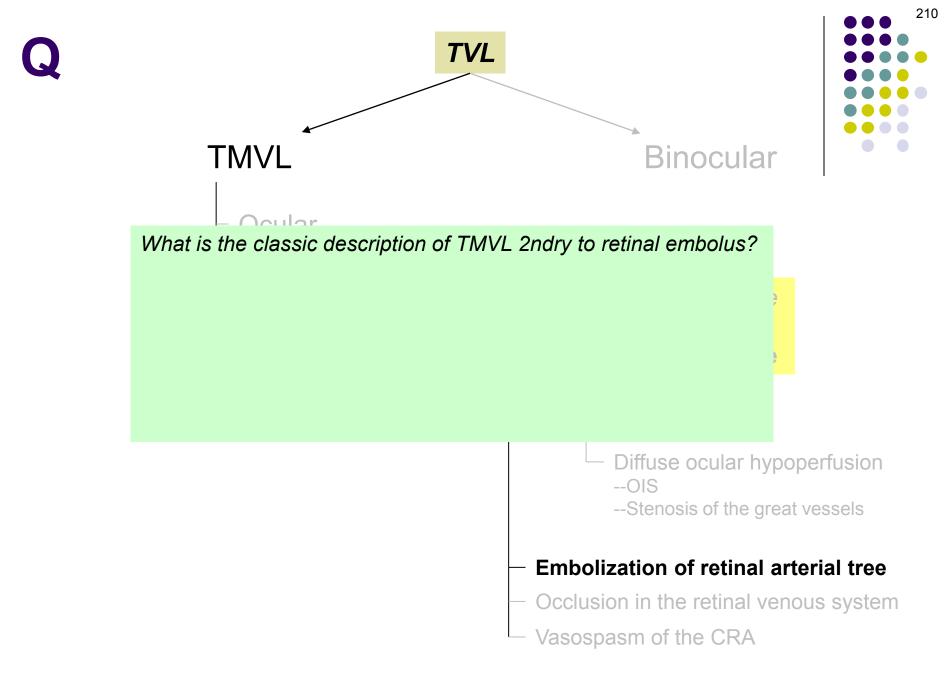


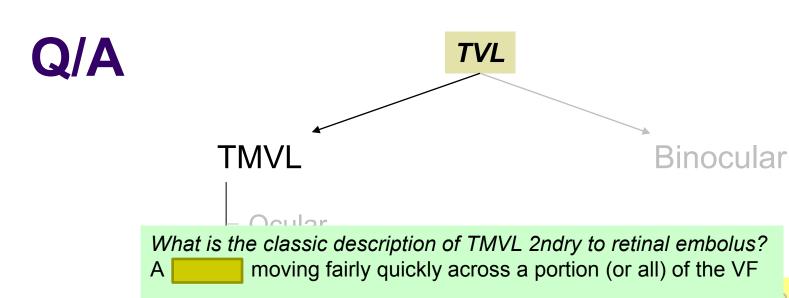












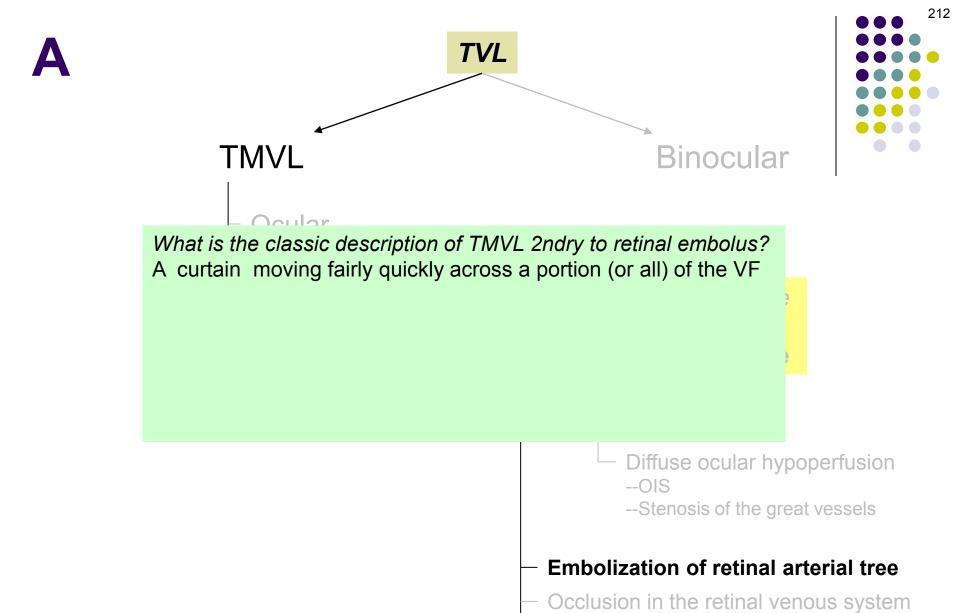


What is the classic description of TMVL 2ndry to retinal embolus? moving fairly quickly across a portion (or all) of the VF

- Diffuse ocular hypoperfusion --OIS
- --Stenosis of the great vessels

Embolization of retinal arterial tree

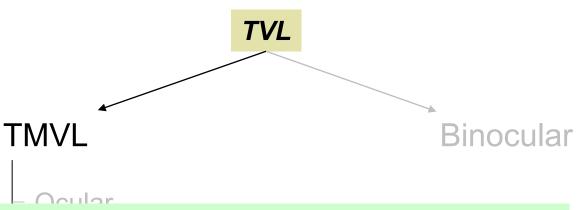
Occlusion in the retinal venous system Vasospasm of the CRA



Embolization of retinal arterial tree

Occlusion in the retinal venous system





What is the classic description of TMVL 2ndry to retinal embolus? A curtain moving fairly quickly across a portion (or all) of the VF

Is it associated with pain?
No, it is painless

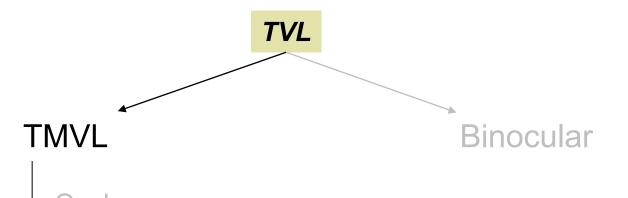
Diffuse ocular hypoperfusion

214

- --OIS
- --Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system





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Is it associated with pain?
No, it is painless

How long until the vision loss resolves?

Diffuse ocular hypoperfusion

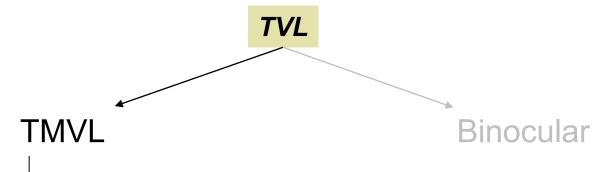
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Embolization of retinal arterial tree

Occlusion in the retinal venous system







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How long until the vision loss resolves?

Usually a matter of seconds? minutes?

days?

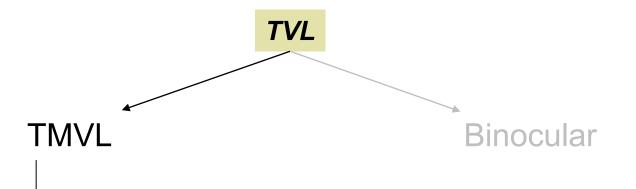
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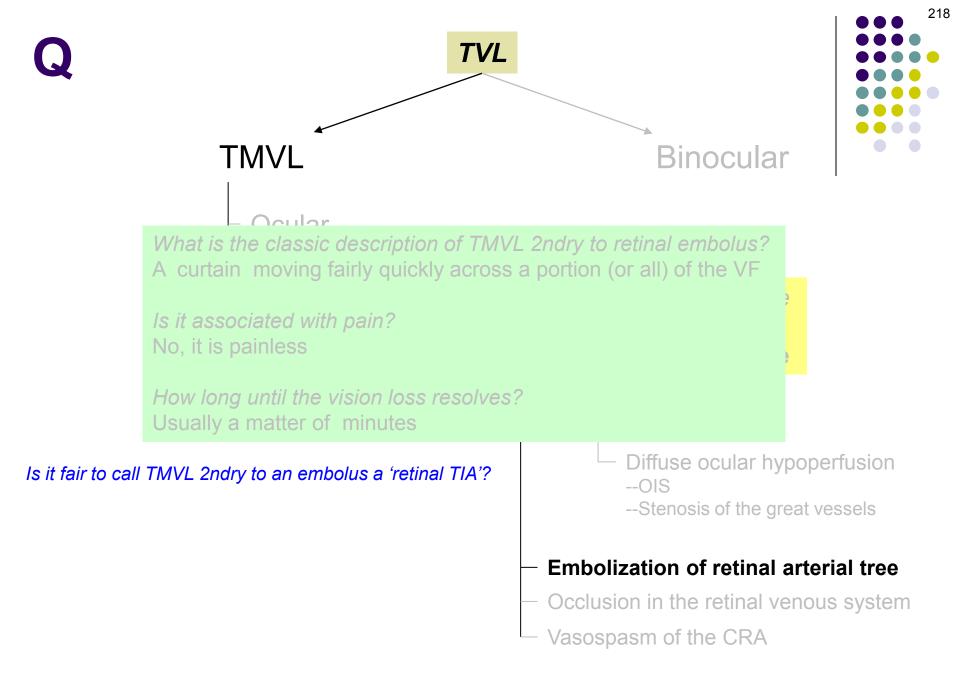
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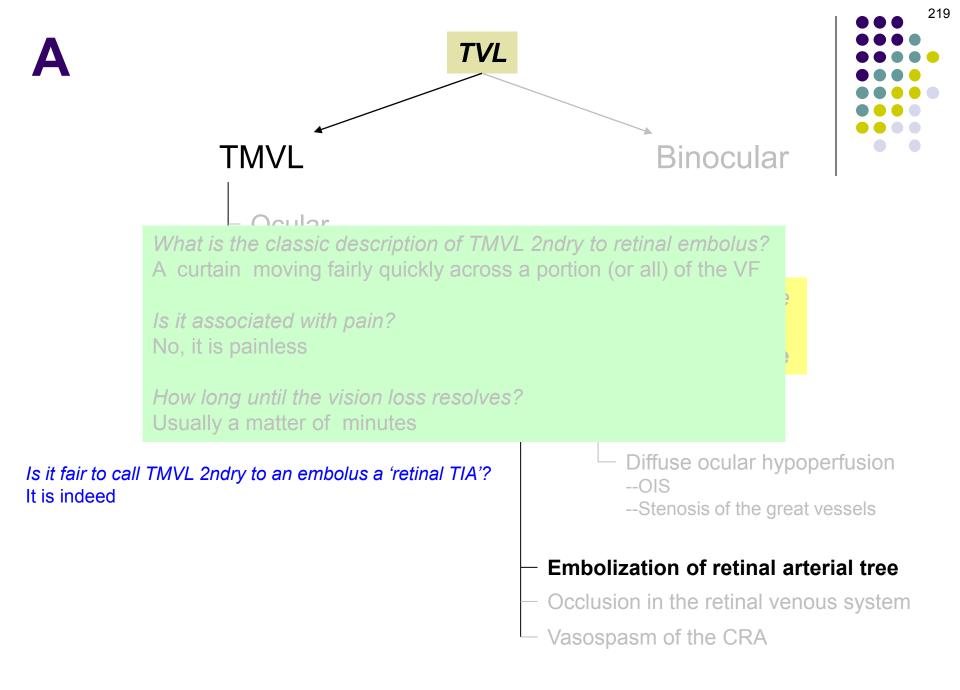
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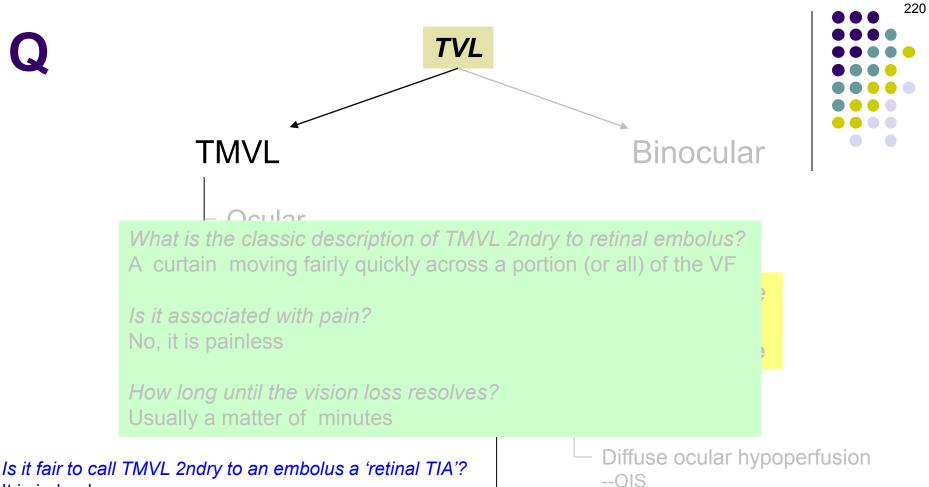
--Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system







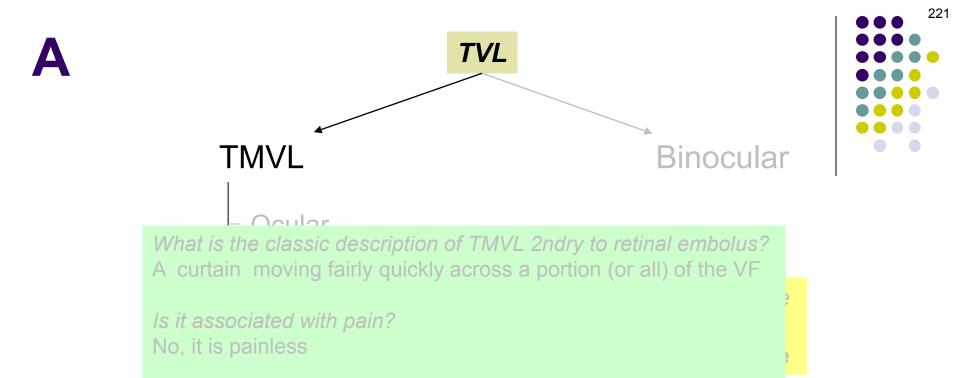
It is indeed

In terms of how we should think about/approach them, what are the key differences between a retinal TIA and a cerebral one?

--Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system



Is it fair to call TMVL 2ndry to an embolus a 'retinal TIA'? It is indeed

Usually a matter of minutes

How long until the vision loss resolves?

In terms of how we should think about/approach them, what are the key differences between a retinal TIA and a cerebral one?

There are none! <u>A retinal TIA is a TIA</u>, and must be managed as such! (We'll delve into management specifics shortly)

Diffuse ocular hypoperfusion

--OIS

--Stenosis of the great vessels

Embolization of retinal arterial tree





In general terms, where do emboli usually lodge?

TMVL

Ocular

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Diffuse ocular hypoperfusion

--OIS

--Stenosis of the great vessels

Embolization of retinal arterial tree







In general terms, where do emboli usually lodge?
At a two words in the arterial tree

TMVL

Ocular

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Diffuse ocular hypoperfusion

--OIS

--Stenosis of the great vessels

Embolization of retinal arterial tree







In general terms, where do emboli usually lodge?
At a branch point in the arterial tree

TMVL

Ocular

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Diffuse ocular hypoperfusion

--OIS

--Stenosis of the great vessels

Embolization of retinal arterial tree





In general terms, where do emboli usually lodge? At a branch point in the arterial tree. That is, an emboli will continue to float along in the bloodstream until it reaches a bifurcation for which it is too large to travel down either fork, and becomes lodged.

TMVL

What is the classic description of TMVL 2ndry to retinal embolus? A curtain moving fairly quickly across a portion (or all) of the VF

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Diffuse ocular hypoperfusion

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Embolization of retinal arterial tree

Occlusion in the retinal venous system





TMVL

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At a branch point in the arterial tree. That is, an emboli will continue to float along in the bloodstream until it reaches a bifurcation for which it is too large to travel down either fork, and becomes lodged. (There is one caveat to this—we'll get to it a few slides down the road.)

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Diffuse ocular hypoperfusion
--OIS

--Stenosis of the great vessels

Embolization of retinal arterial tree







TMVL

Ocular

What are the three types of embolus?

-?

--?

--?

5 We in get to it a few singes down

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Diffuse ocular hypoperfusion

--OIS

--Stenosis of the great vessels

Embolization of retinal arterial tree







What are the three types of embolus?

- --Cholesterol
- --Calcium
- --Platelet-fibrin

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Ocular

TMVL

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Diffuse ocular hypoperfusion

--OIS

--Stenosis of the great vessels

Embolization of retinal arterial tree

What are the thr Cholesterol

--Platelet-fibrin

Emboli composed of cholesterol are known by what eponymous name?

229

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Ocular

TMVL

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Diffuse ocular hypoperfusion --OIS

--Stenosis of the great vessels

Embolization of retinal arterial tree







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Diffuse ocular hypoperfusion

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Embolization of retinal arterial tree

231

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What do Hollenhorst plaques look like on DFE?

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Diffuse ocular hypoperfusion

--OIS

--Stenosis of the great vessels

Embolization of retinal arterial tree





232

TMVL

Ocular

What are the thr
--Cholesterol

- --Calcium
- --Platelet-fibrin

Emboli composed of cholesterol are known by what eponymous name?
Hollenhorst plaque

What do Hollenhorst plaques look like on DFE?

color(ish) globules described as

appearance

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Diffuse ocular hypoperfusion

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Embolization of retinal arterial tree

Occlusion in the retinal venous system

233

TMVL

Ocular

What are the thr

Cholesterol

- --Calcium
- --Platelet-fibrin

We II W

Emboli composed of cholesterol are known by what eponymous name?
Hollenhorst plaque

What do Hollenhorst plaques look like on DFE? Yellowish globules described as 'refractile'

What is the classic description of TMVL 2ndry to retinal embolus? A curtain moving fairly quickly across a portion (or all) of the VF

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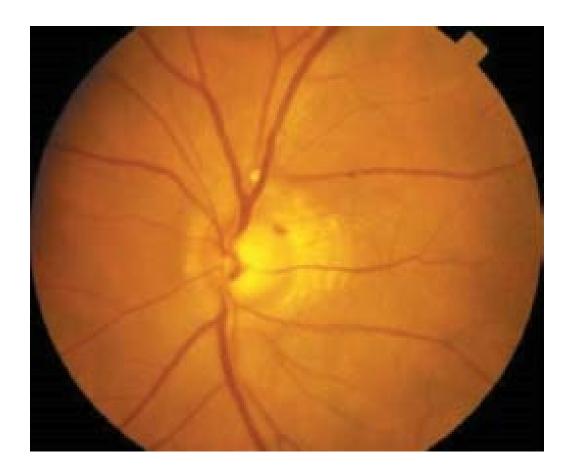
Diffuse ocular hypoperfusion

--OIS

--Stenosis of the great vessels

Embolization of retinal arterial tree





Hollenhorst plaque at the bifurcation of a retinal arteriole

Embolization of retinal arterial tree

235



TMVL

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--Cholesterol

- --Calcium
- --Platelet-fibrin

Emboli composed of cholesterol are known by what eponymous name? Hollenhorst plague

What do Hollenhorst plaques look like on DFE?

In two words, what pathologic entity is the source of cholesterol emboli? Atheromatous plaques

Embolization of retinal arterial tree



TMVL

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Within which vascular structure are TVL-implicated plaques most likely to be located?

Embolization of retinal arterial tree

Occlusion in the retinal venous system

238

TMVL

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-Cholesterol

- --Calcium
- --Platelet-fibrin

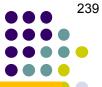
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Embolization of retinal arterial tree



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Embolization of retinal arterial tree

Occlusion in the retinal venous system



TMVL

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The aortic arch

Embolization of retinal arterial tree

Occlusion in the retinal venous system



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Embolization of retinal arterial tree



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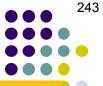
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Embolization of retinal arterial tree



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How stenosed does the carotid lumen have to be for emboli to occur?

Embolization of retinal arterial tree



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Emboli can occur at any degree of stenosis (in contrast to global hypoperfusion conditions, eg, OIS)

Embolization of retinal arterial tree



TMVL

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Emboli can occur at any degree of stenosis (in contrast to global hypoperfusion conditions, eg, OIS)

What two characteristics of an atheromatous plaque increase the likelihood it will flick off emboli?

Embolization of retinal arterial tree

Occlusion in the retinal venous system



TMVL

What are the thr
Cholesterol

- --Calcium
- --Platelet-fibrin

Emboli composed of cholesterol are known by what eponymous name? Hollenhorst plaque

What do Hollenhorst plaques look like on DFE?

In two words, what pathologic entity is the source of cholesterol emboli? Atheromatous plaques

Within which vascular structure are TVL-implicated plaques most likely to be located? The carotid artery

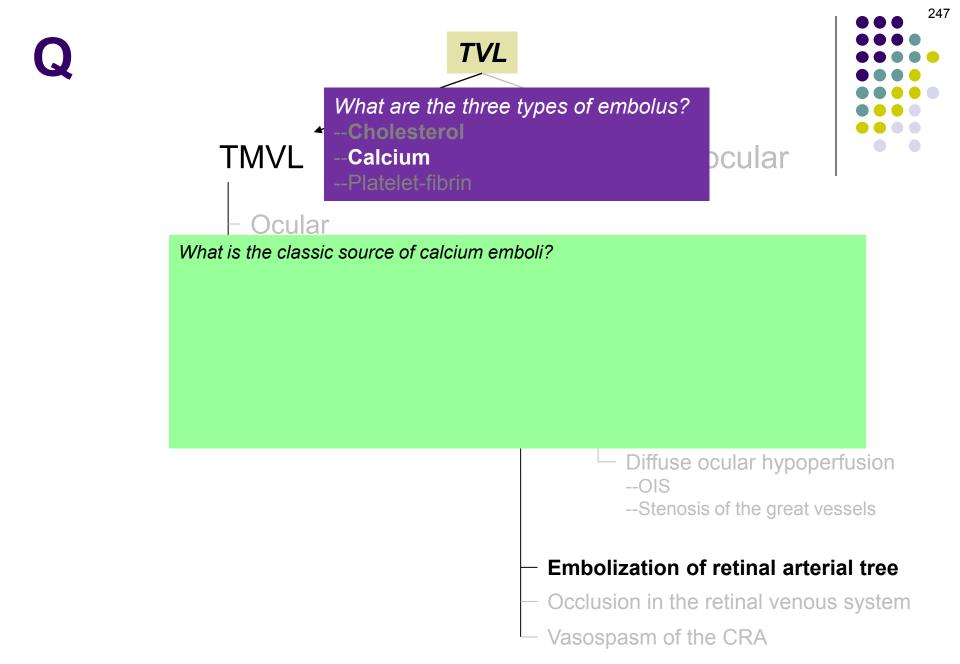
Where specifically in the carotid system are such plaques most likely to form? The bifurcation

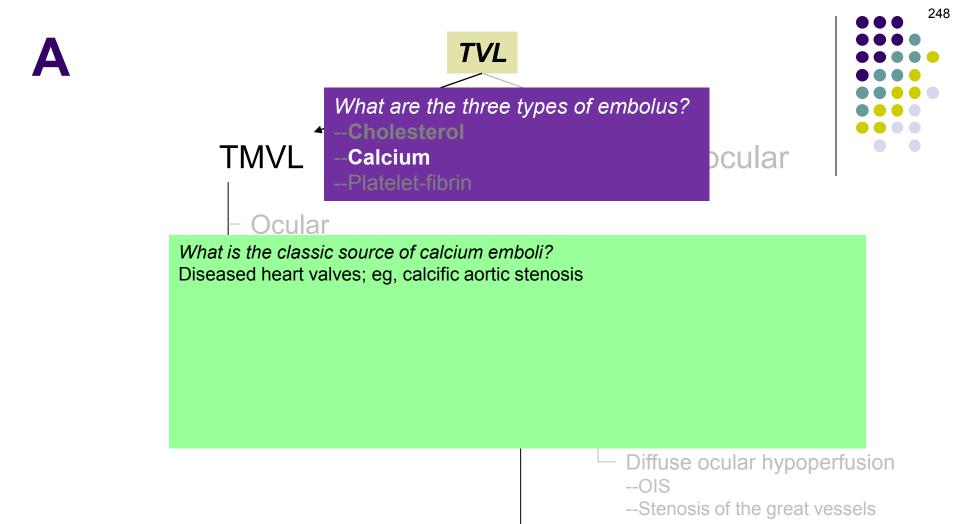
How stenosed does the carotid lumen have to be for emboli to occur?

Emboli can occur at any degree of stenosis (in contrast to global hypoperfusion conditions, eg, OIS)

What two characteristics of an atheromatous plaque increase the likelihood it will flick off emboli? If it is ulcerated and/or unstable

Embolization of retinal arterial tree





- Embolization of retinal arterial tree
- Occlusion in the retinal venous systemVasospasm of the CRA



What is the classic source of calcium emboli?
Diseased heart valves; eg, calcific aortic stenosis

Speaking of diseased heart valves: There is a particular condition/history—classic for leading to heart-valve disease—that, if mentioned, should clue you in that an embolus is calcific. What history?

Diffuse ocular hypoperfusion
 --OIS

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- --Stenosis of the great vessels
- **Embolization of retinal arterial tree**
- Occlusion in the retinal venous system

 Vasospasm of the CRA





What is the classic source of calcium emboli?
Diseased heart valves; eg, calcific aortic stenosis

Speaking of diseased heart valves: There is a particular condition/history—classic for leading to heart-valve disease—that, if mentioned, should clue you in that an embolus is calcific. What history?

Rheumatic heart disease

- Diffuse ocular hypoperfusion

250

- --OIS
- --Stenosis of the great vessels

Embolization of retinal arterial tree



What is the classic source of calcium emboli?
Diseased heart valves; eg, calcific aortic stenosis

What do calcium emboli look like on DFE?

Diffuse ocular hypoperfusion
 --OIS

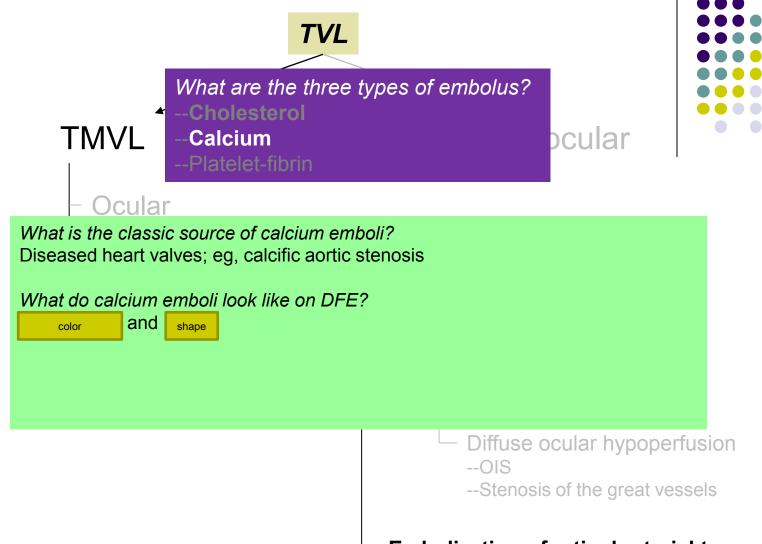
251

--Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system





Embolization of retinal arterial tree

252





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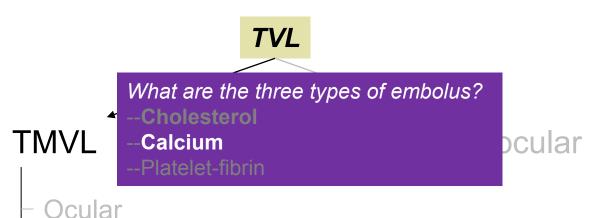
What is the classic source of calcium emboli?

Diseased heart valves; eg, calcific aortic stenosis

What do calcium emboli look like on DFE? Chalk-white and round

- Diffuse ocular hypoperfusion --OIS
- --Stenosis of the great vessels
- **Embolization of retinal arterial tree**
- Occlusion in the retinal venous system

 Vasospasm of the CRA



What is the classic source of calcium emboli?
Diseased heart valves; eg, calcific aortic stenosis

What do calcium emboli look like on DFE? Chalk-white and round

Do they tend to be larger, or smaller than Hollenhorst plaques?

- Diffuse ocular hypoperfusion

254

- --OIS
- --Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system





What is the classic source of calcium emboli?

Diseased heart valves; eg, calcific aortic stenosis

What do calcium emboli look like on DFE? Chalk-white and round

Do they tend to be larger, or smaller than Hollenhorst plaques? Larger. In fact, they tend to be so large as to not be able to pass farther along the arterial tree than the first bifurcation, ie, they often lodge at the ONH itself.

Diffuse ocular hypoperfusion
 --OIS

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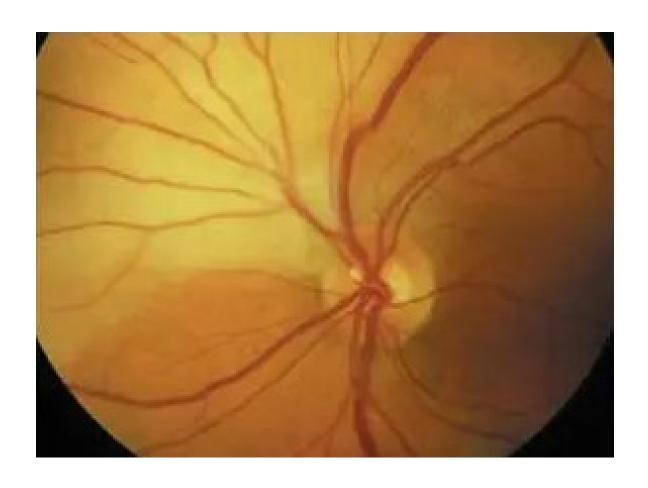
--Stenosis of the great vessels

- Embolization of retinal arterial tree

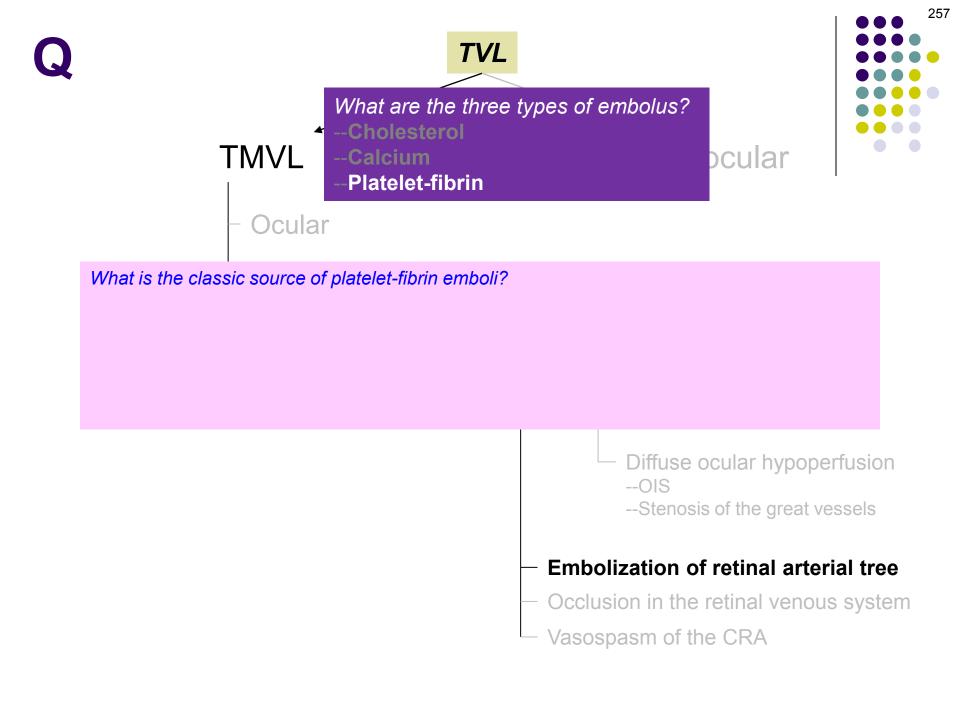
Occlusion in the retinal venous system

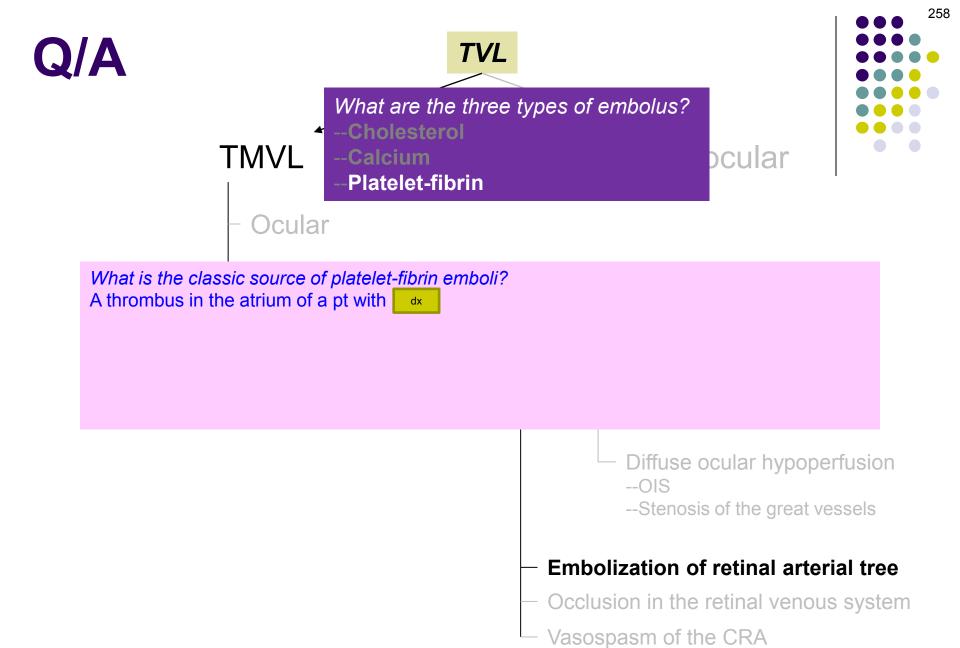
Vasospasm of the CRA

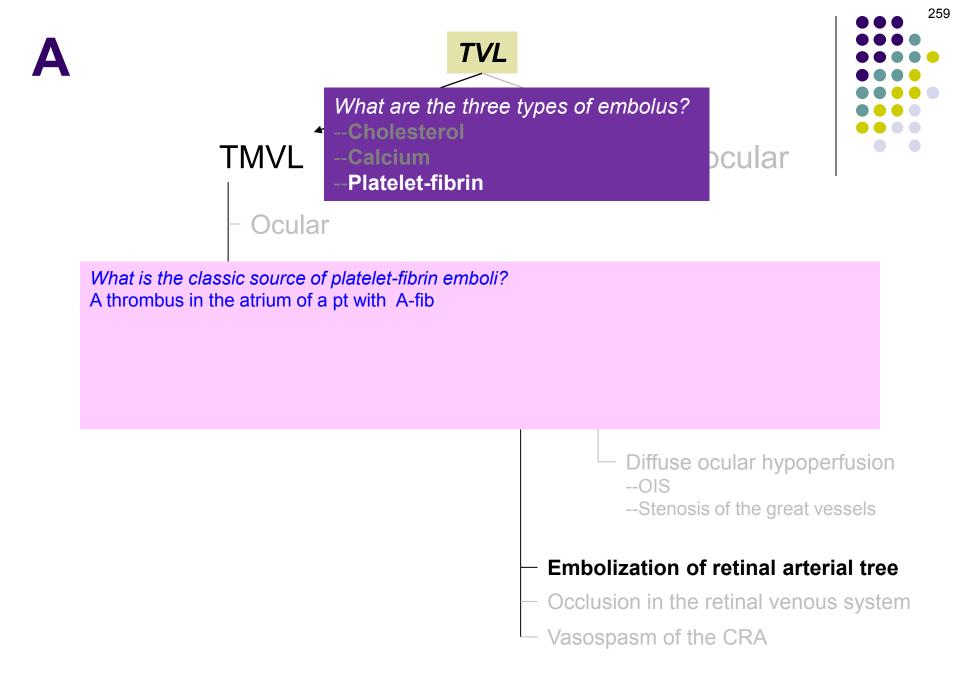


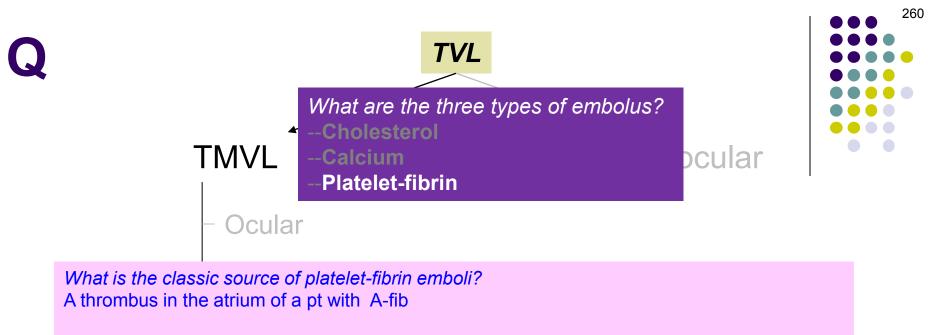


Calcific embolus with branch retinal artery occlusion







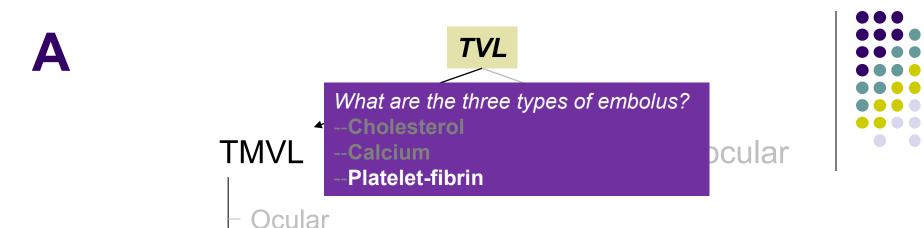


What do platelet-fibrin emboli look like on DFE?

- Diffuse ocular hypoperfusion --OIS
- --Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system



What is the classic source of platelet-fibrin emboli? A thrombus in the atrium of a pt with A-fib

What do platelet-fibrin emboli look like on DFE?

Unlike their calcific and cholesterol cousins, platelet-fibrin emboli are not compact structures—they tend to be elongated, filling a small section of an arteriole.

Diffuse ocular hypoperfusion --OIS

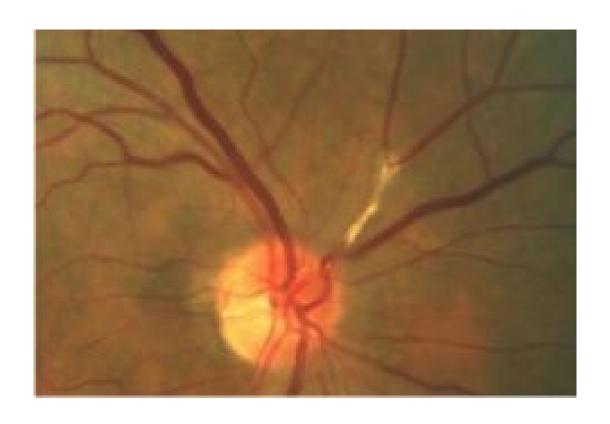
261

--Stenosis of the great vessels

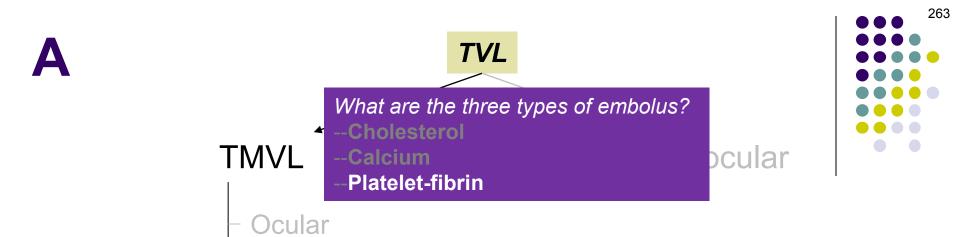
Embolization of retinal arterial tree

Occlusion in the retinal venous system





Platelet-fibrin embolus



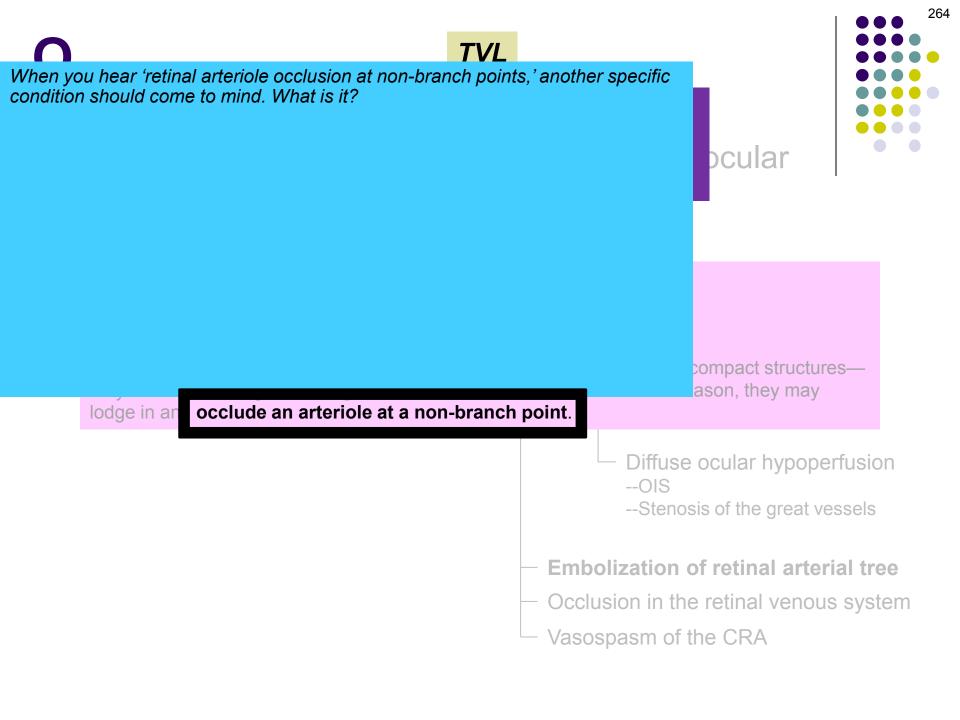
What is the classic source of platelet-fibrin emboli?
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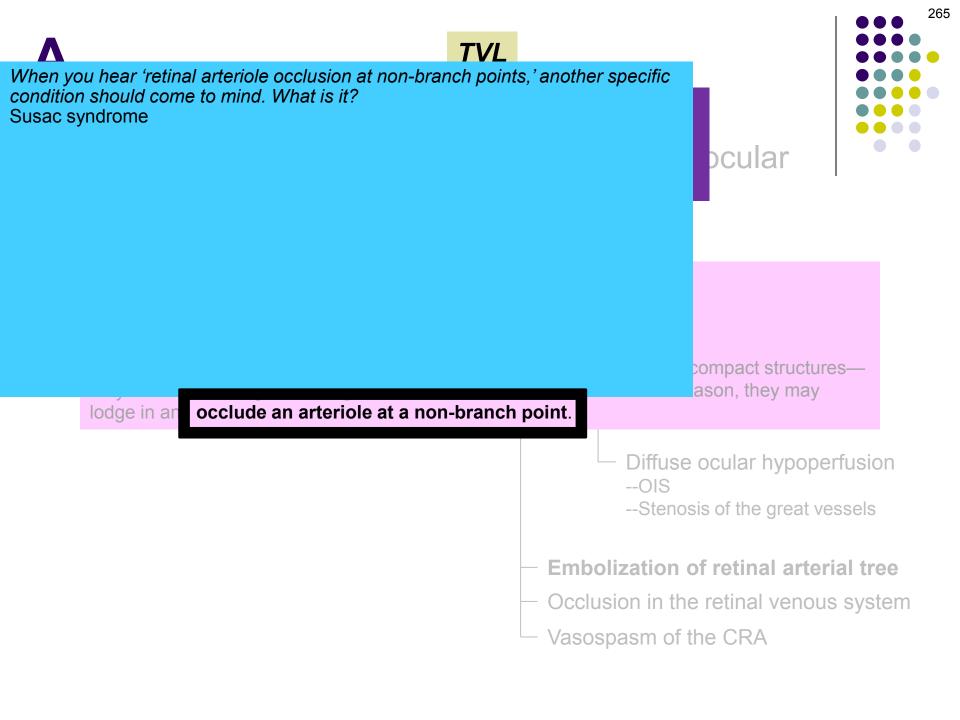
What do platelet-fibrin emboli look like on DFE?

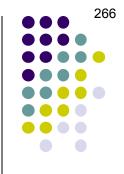
Unlike their calcific and cholesterol cousins, platelet-fibrin emboli are not compact structures—they tend to be elongated, filling a small section of an arteriole. For this reason, they may lodge in and occlude an arteriole at a non-branch point.*

Diffuse ocular hypoperfusion
--OIS
--Stenosis of the great vessels

- Embolization of retinal arterial tree
- Occlusion in the retinal venous system
- Vasospasm of the CRA

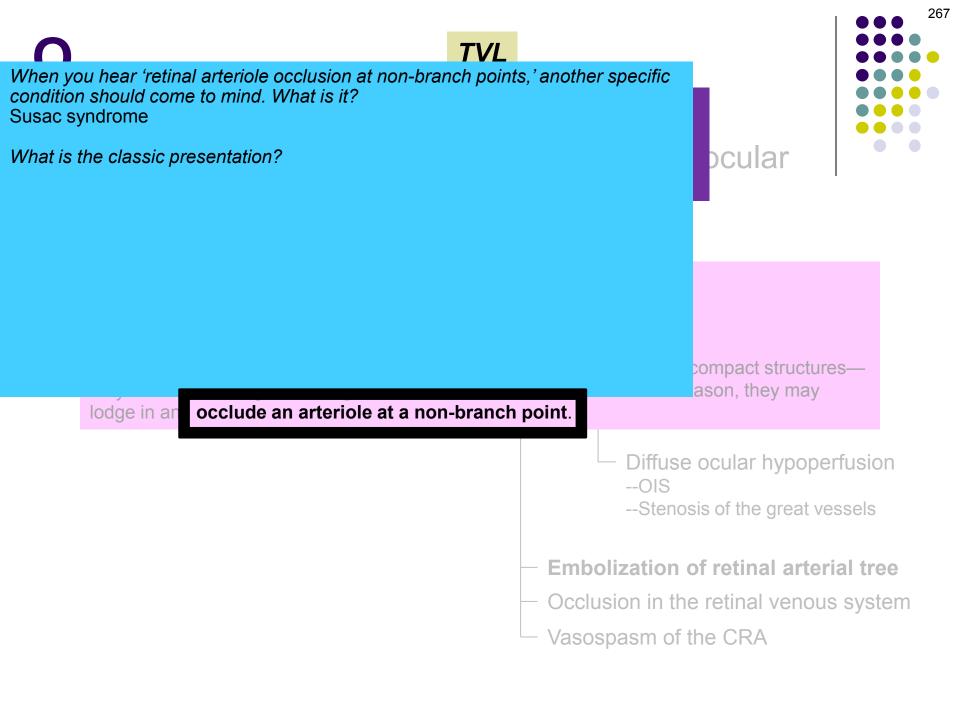


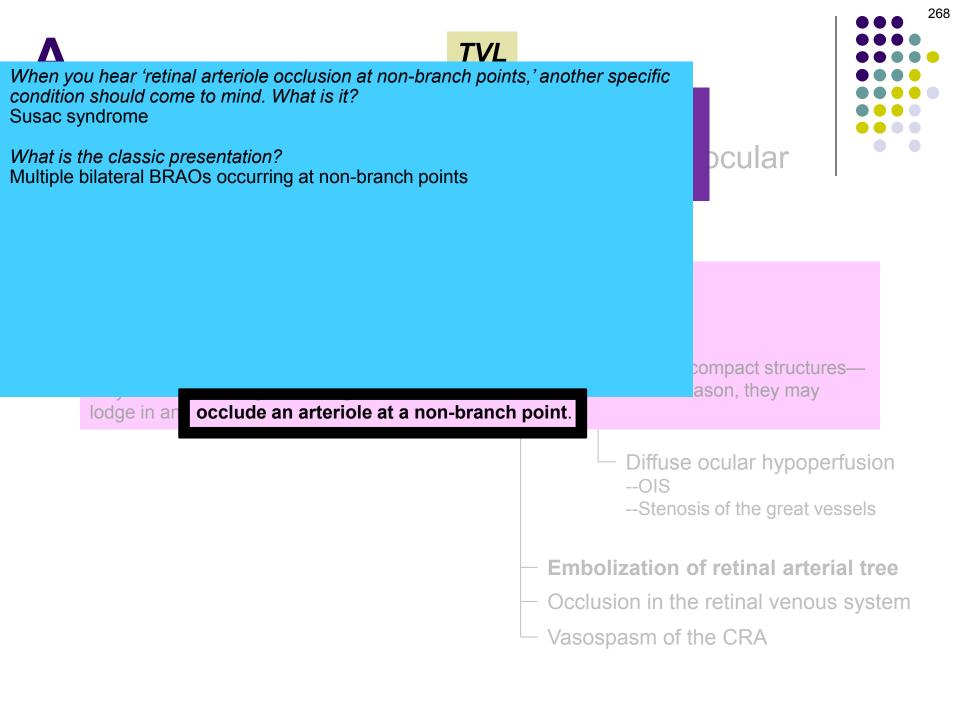




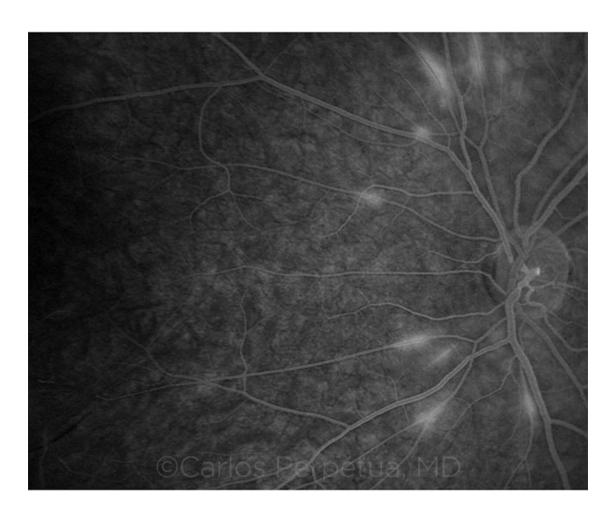


Susac syndrome. Note the area of infarct doesn't correspond to a branch-point blockage

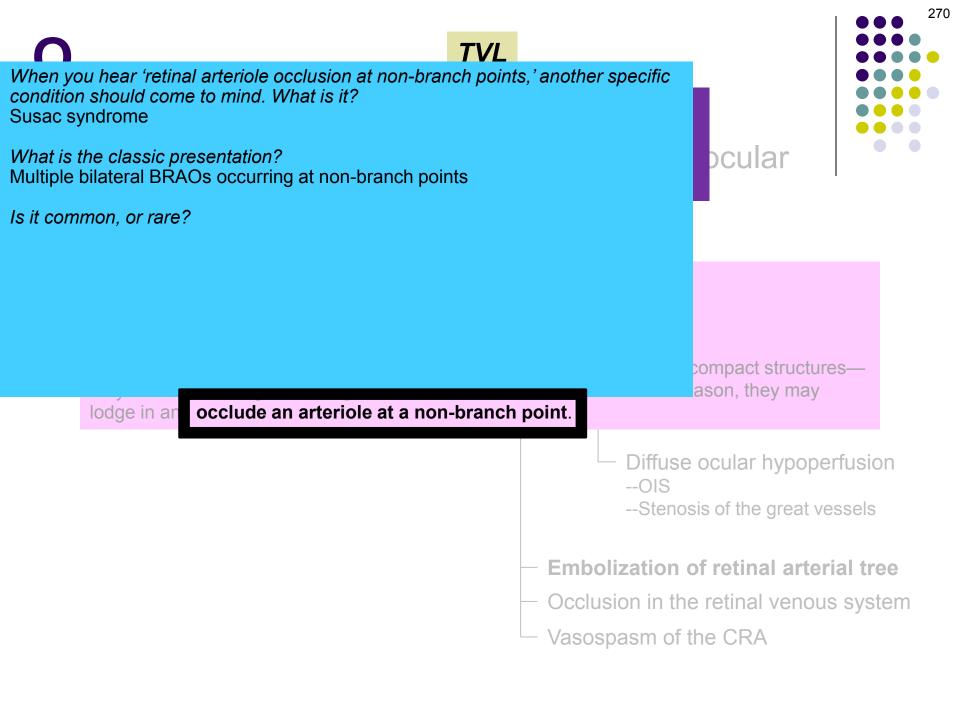


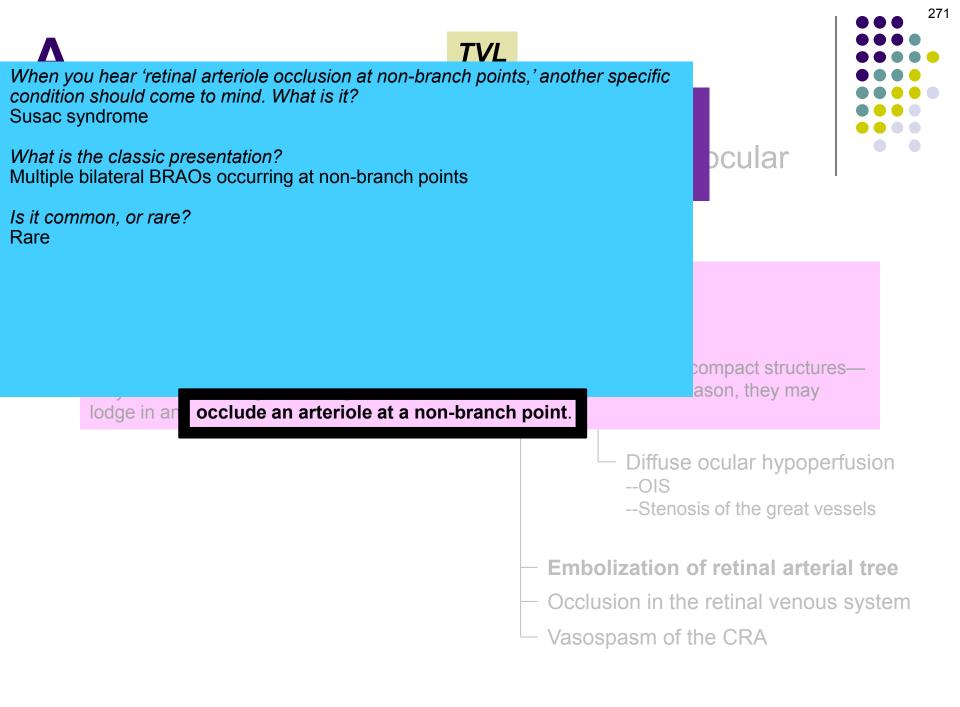


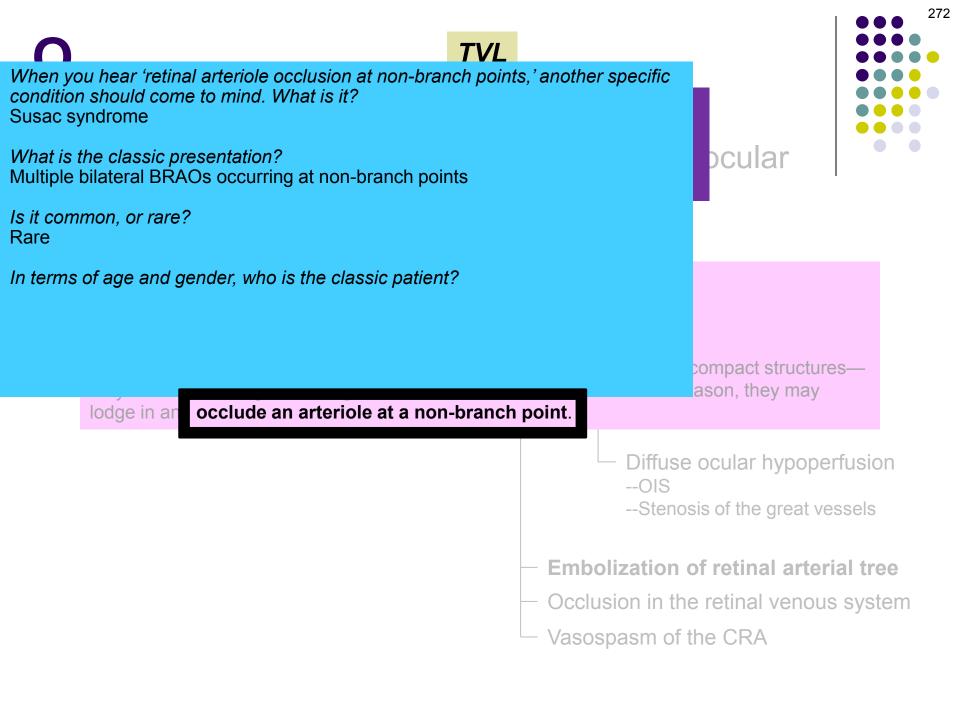


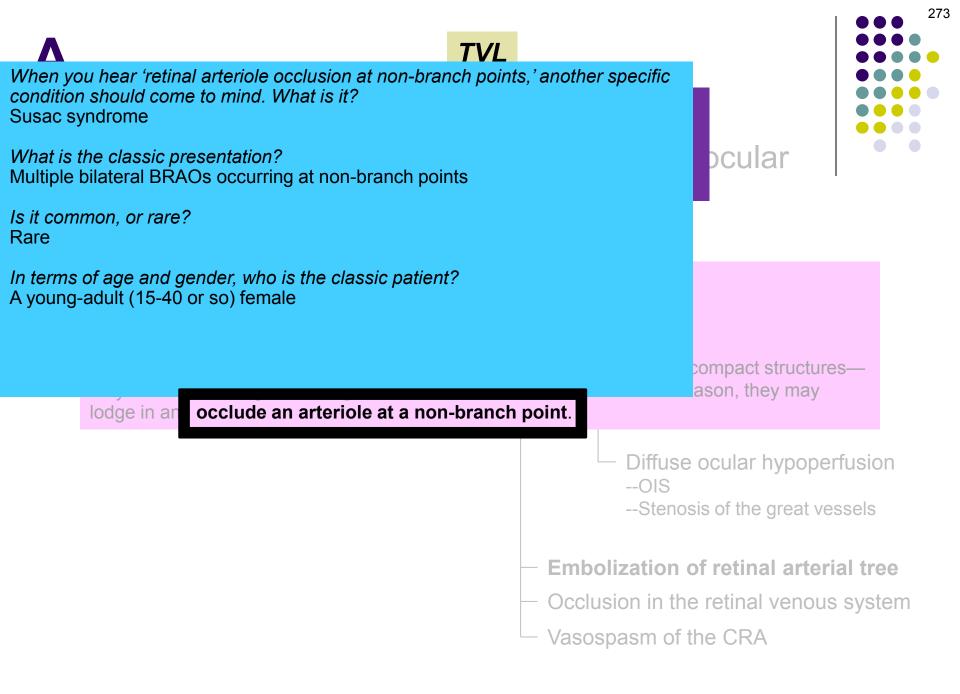


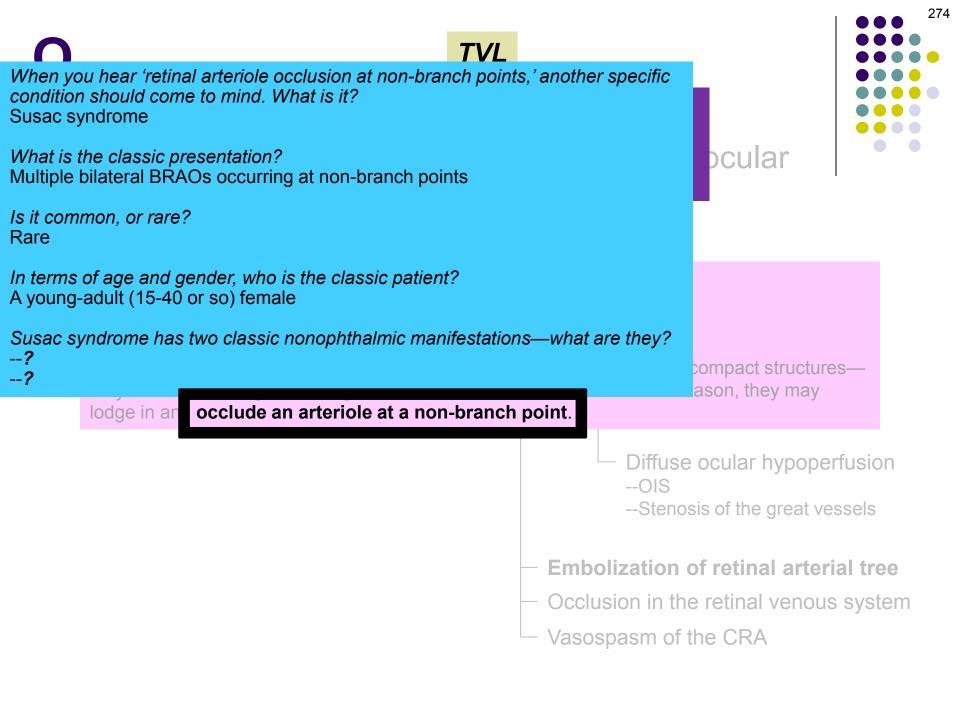
Susac syndrome. Note the multiple areas of arteriolar inflammation and blockage at non-branch points

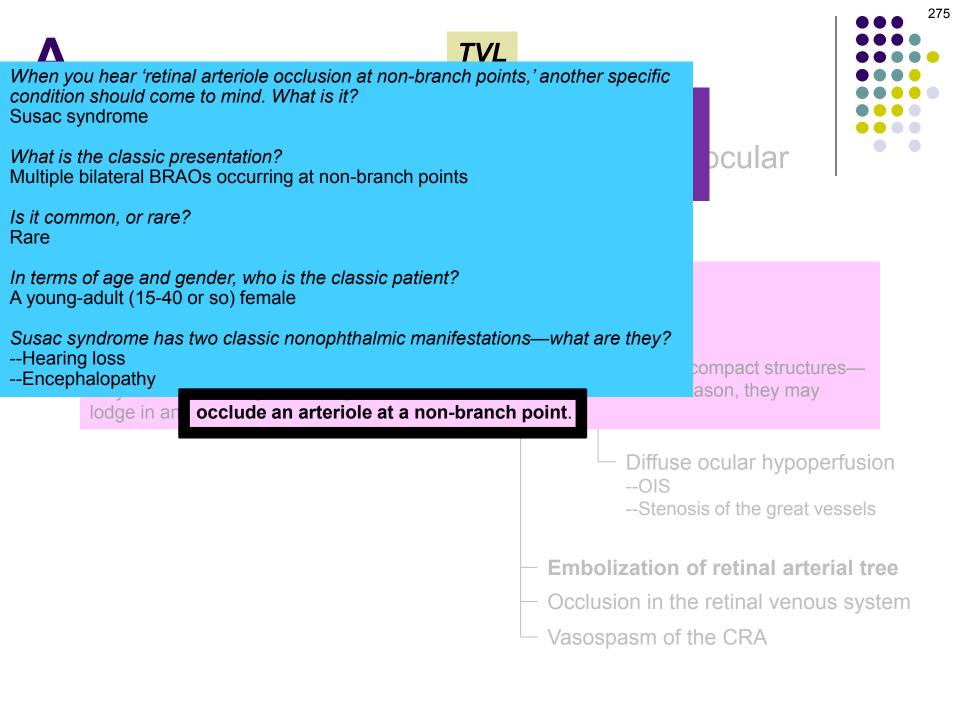


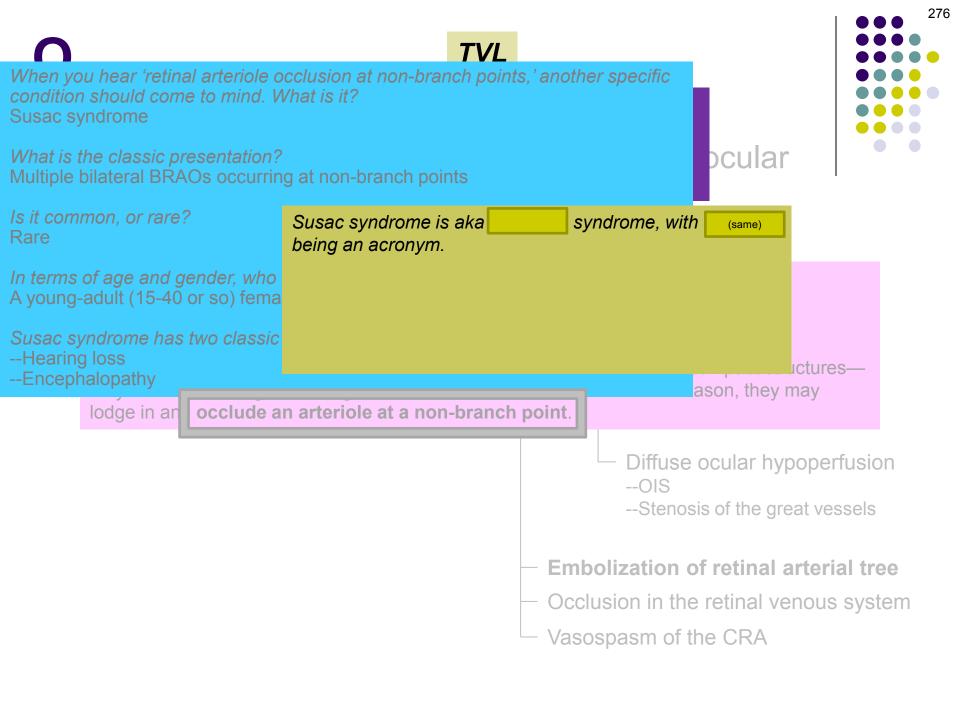


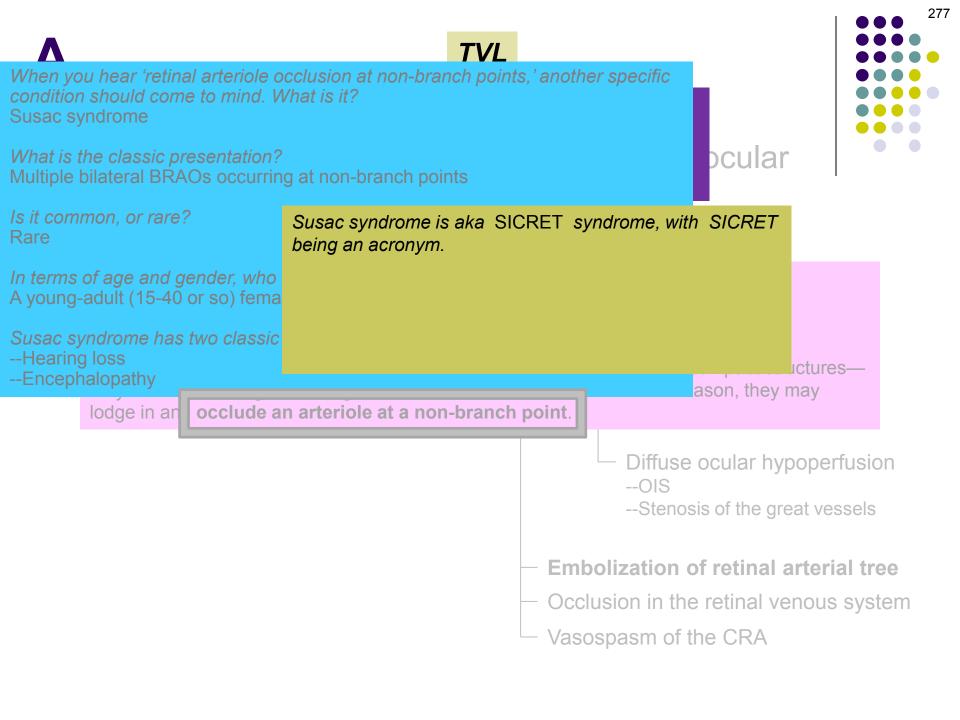


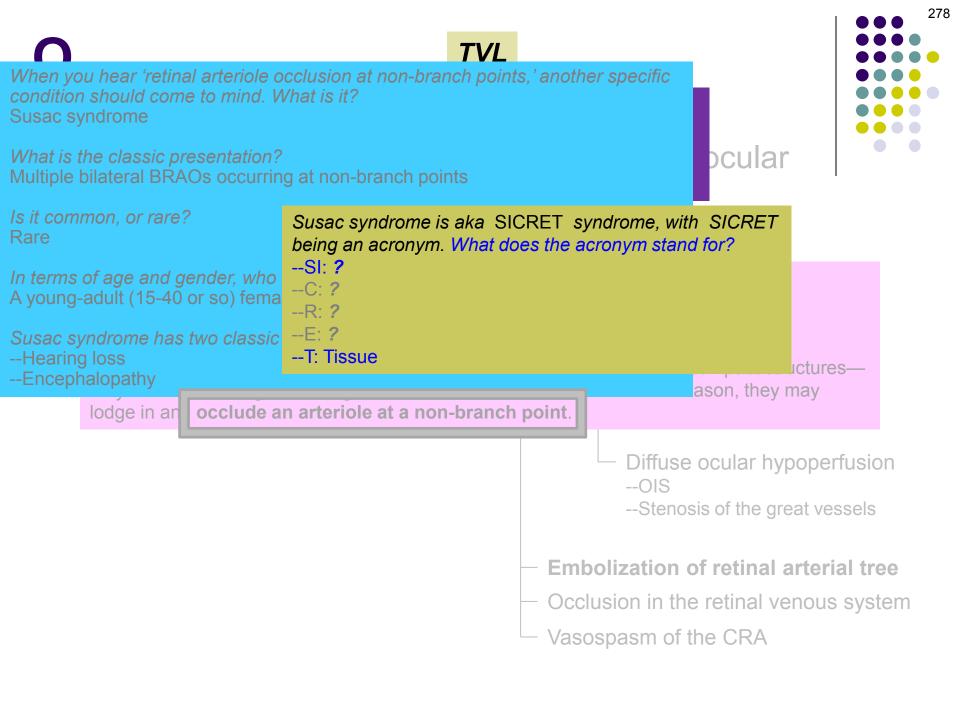


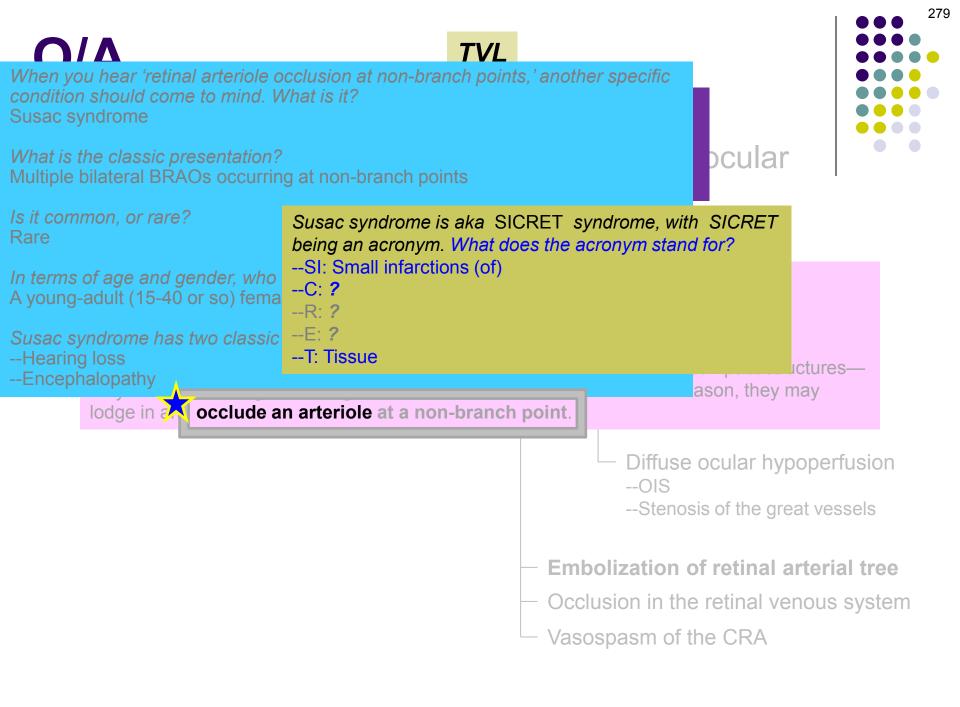


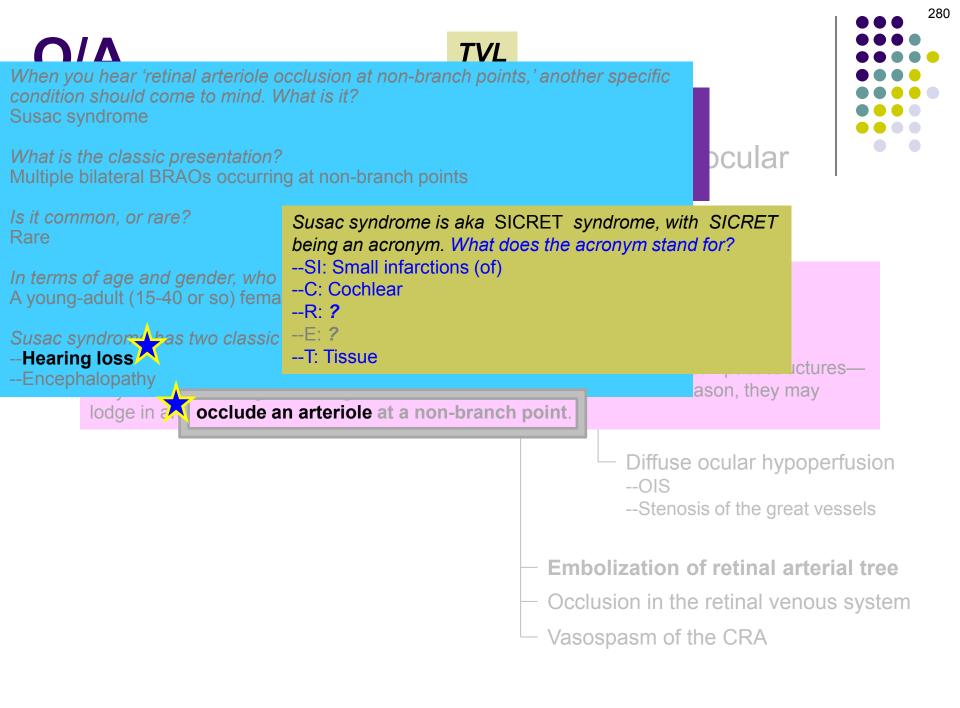


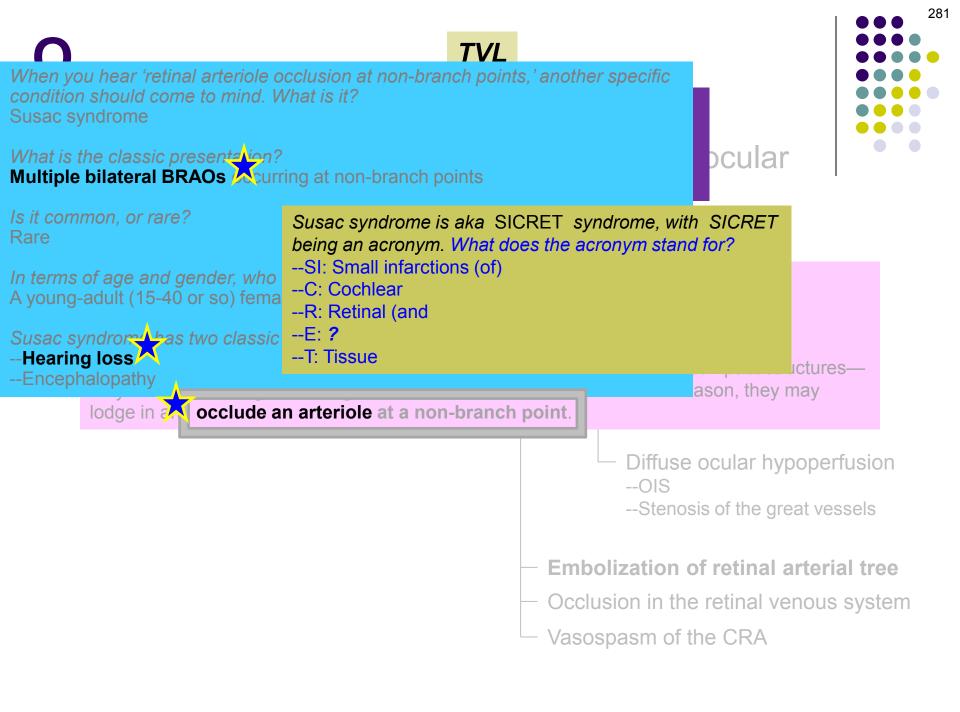


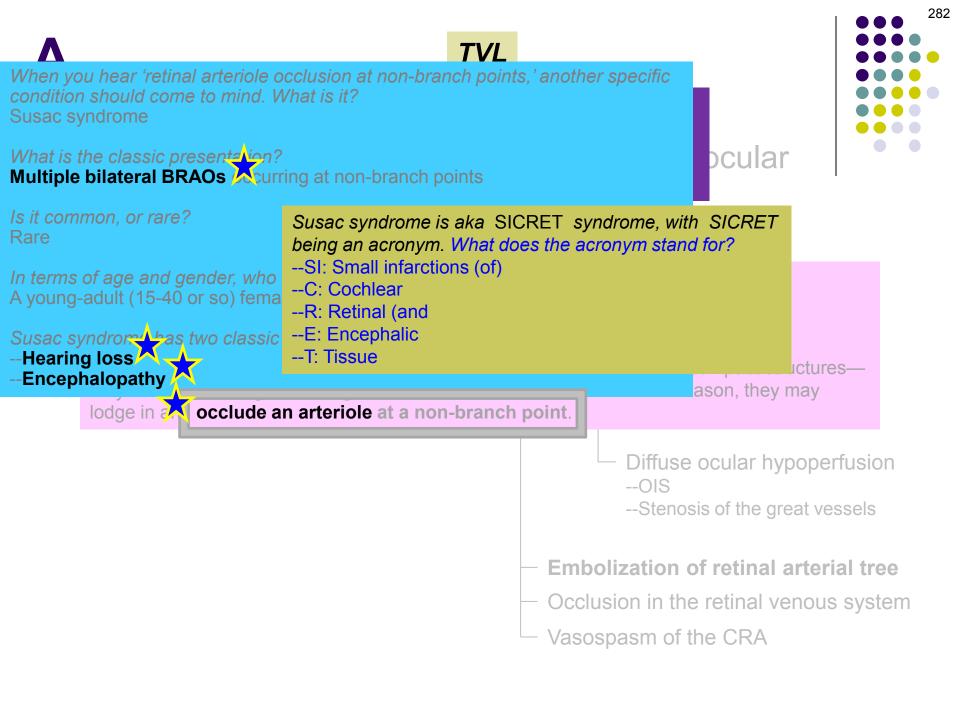












When you hear 'retinal arteriole occlusion at non-branch points,' another specific condition should come to mind. What is it?
Susac syndrome

What is the classic presentation?

Multiple bilateral BRAOs ocurring at non-branch points

ocular



*Is it common, or rare?*Rare

In terms of age and gender, who A young-adult (15-40 or so) fema

Susac syndrome is aka SICRET syndrome, with SICRET being an acronym. What does the acronym stand for?

- --SI: Small infarctions (of)
- --C: Cochlear
- --R: Retinal (and
- -- E: Encephalic

Susac syndrom has two classic

--Ence

For more on Susac syndrome, see slide-set R68

lodge in a occlude an arteriole at a non-branch point.

- Diffuse ocular hypoperfusion
- --OIS
- --Stenosis of the great vessels

Embolization of retinal arterial tree

- Occlusion in the retinal venous system
- Vasospasm of the CRA

What are the three types of embolus?

--Cholesterol

-- Calcium

TMVL

Platelet-fibrin

bcular

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Let's keep it for a minute. Clinically speaking, an embolus is an embolus, isn't it? Other than as a topic for torturing residents, does it really matter what sort of embolus is involved?

--Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system





What are the three types of embolus?

--Cholesterol

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TMVL

Platelet-fibrin

ocular



Let's keep it for a minute. Clinically speaking, an embolus is an embolus, isn't it? Other than as a topic for torturing residents, does it really matter what sort of embolus is involved? It actually does

--Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system



What are the three types of embolus?

--Cholesterol

-- Calcium

TMVL

-Platelet-fibrin

ocular

286

Let's keep it for a minute. Clinically speaking, an embolus is an embolus, isn't it? Other than as a topic for torturing residents, does it really matter what sort of embolus is involved? Why?

It actually does

--Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system





What are the three types of embolus?

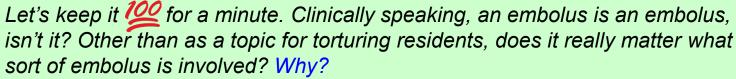
- --Cholesterol
- -- Calcium

TMVL

-Platelet-fibrin



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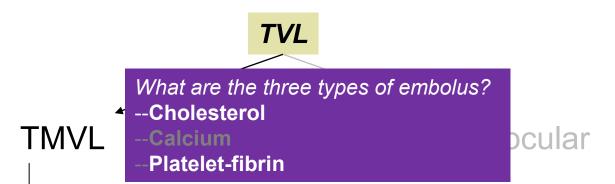


It actually does. Because medical management depends upon the sort of embolus one is dealing with.

--Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system





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It actually does. Because medical management depends upon the sort of embolus one is dealing with. In this regard, the *Neuro* book focuses on cholesterol and platelet-fibrin emboli:

--Cholesterol emboli, which most commonly arise from carotid dz, are managed with agents.

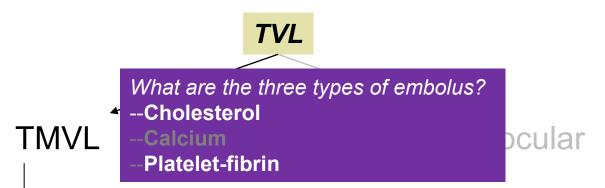
--Platelet-fibrin emboli

--Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system
Vasospasm of the CRA





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--Cholesterol emboli, which most commonly arise from carotid dz, are managed with antiplatelet agents.

--Platelet-fibrin emboli

--Stenosis of the great vessels

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Embolization of retinal arterial tree

What are the three types of embolus?

--Cholesterol

-- Calcium

TMVL

--Platelet-fibrin

bcular

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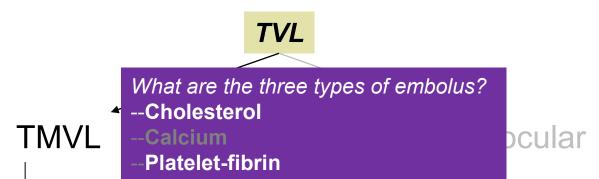
The book mentions several antiplatelet agents by name which ones?

--Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system







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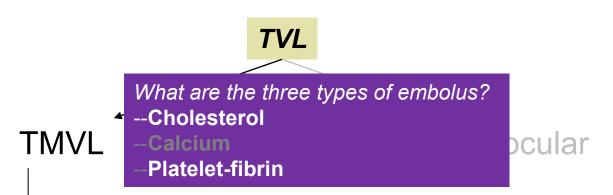
--Cholesterol emboli, which most commonly arise from carotid dz, are managed with antiplatelet agents.

The book mentions several antiplatelet agents by name—which ones?

- --Aspirin
- --Aspirin + dipyridamole
- --Clopidogrel

--Stenosis of the great vessels

Embolization of retinal arterial tree



It actually does. Because medical management depends upon the sort of embolus one is dealing with. In this regard, the *Neuro* book focuses on cholesterol and platelet-fibrin emboli:

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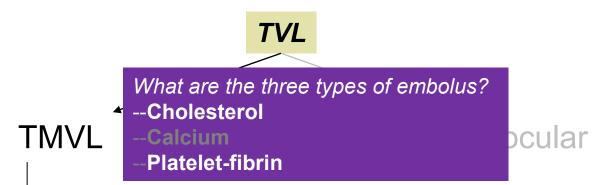
--Platelet-fibrin emboli

--Stenosis of the great vessels

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Factoid—no Q

Embolization of retinal arterial tree





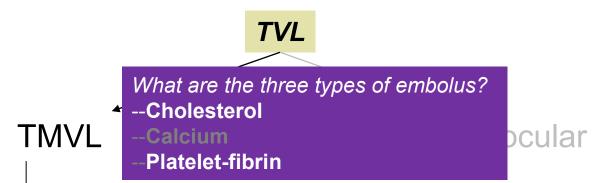
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- --Cholesterol emboli, which most commonly arise from carotid dz, are managed with antiplatelet agents. <u>In addition, vasculopathic risk factors must be optimized, and consideration given to whether CEA is indicated</u>.
- --Platelet-fibrin emboli, which usually arise from thrombi owing to AFib, are managed with and/or the so-called three words

--Stenosis of the great vessels

Embolization of retinal arterial tree







It actually does. Because medical management depends upon the sort of embolus one is dealing with. In this regard, the *Neuro* book focuses on cholesterol and platelet-fibrin emboli:

- --Cholesterol emboli, which most commonly arise from carotid dz, are managed with antiplatelet agents. <u>In addition, vasculopathic risk factors must be optimized, and consideration given to whether CEA is indicated</u>.
- --Platelet-fibrin emboli, which usually arise from thrombi owing to AFib, are managed with warfarin and/or the so-called direct oral anticoagulants (DOACs)

--Stenosis of the great vessels

Embolization of retinal arterial tree

What are the three types of embolus?

--Cholesterol

--Calcium

-Platelet-fibrin

bcular



Let's keep it for a minute. isn't it? Other than as a topic for sort of embolus is involved? We lt actually does. Because mediembolus one is dealing with. In cholesterol and platelet-fibrin e--Cholesterol emboli, which more with antiplatelet agents. In accoptimized, and consideration g--Platelet-fibrin emboli, which up to the consideration of the consideration of

TMVL

The book focuses on several DOACs—which ones?

-- (

--?

--?

managed with warfarin and/or the so-called direct oral anticoagulants (DOACs)

--Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system



What are the three types of embolus?

--Cholesterol

--Calcium

-Platelet-fibrin

ocular

296

Let's keep it for a minute. isn't it? Other than as a topic for sort of embolus is involved? We lit actually does. Because medi embolus one is dealing with. In cholesterol and platelet-fibrin endoptimized, and consideration generalized.

TMVL

The book focuses on several DOACs—which ones?

- --Apixaban
- --Rivaroxaban
- --Dagibatran

managed with warfarin and/or the so-called direct oral anticoagulants (DOACs)

--Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system

What are the three types of embolus?

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Platelet-fibrin

bcular



297

Let's keep it 100 for a minute. isn't it? Other than as a topic for sort of embolus is involved? W It actually does. Because medi embolus one is dealing with. In cholesterol and platelet-fibrin e --Cholesterol emboli, which mc --? with antiplatelet agents. In ad optimized, and consideration g --Platelet-fibrin emboli, which u

TMVL

The book focuses on several DOACs—which ones?

- --Apixaban
- --Rivaroxaban
- -- Dagibatran

What advantages do the DOACs enjoy c/w warfarin?

managed with warfarin and/or the so-called direct oral anticoagulants (DOACs)

--Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system





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TMVL

The book focuses on several DOACs—which ones?

- --Apixaban
- --Rivaroxaban
- -- Dagibatran

What advantages do the DOACs enjoy c/w warfarin?

- --Better safety profile
- --Do not require routine monitoring

managed with warfarin and/or the so-called direct oral anticoagulants (DOACs)

--Stenosis of the great vessels

bcular

Embolization of retinal arterial tree

Occlusion in the retinal venous system

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What advantages do the DOACs enjoy c/w warfarin?

- --Better safety profile
- -- Do not require routine monitoring

What is the main disadvantage of the DOACs c/w warfarin?

managed with warfarin and/or the so-called direct oral anticoagulants (DOACs)

--Stenosis of the great vessels

Embolization of retinal arterial tree

Occlusion in the retinal venous system



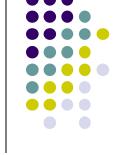


What are the three types of embolus?

--Cholesterol

-- Calcium

-Platelet-fibrin



300

Let's keep it for a minute. isn't it? Other than as a topic for sort of embolus is involved? We lt actually does. Because medi embolus one is dealing with. In cholesterol and platelet-fibrin e--Cholesterol emboli, which mo with antiplatelet agents. In accoptimized, and consideration g--Platelet-fibrin emboli, which up managed with warfarin and/or

TMVL

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managed with warfarin and/or the so-called direct oral anticoagulants (DOACs)

--Stenosis of the great vessels

bcular

Embolization of retinal arterial tree

Occlusion in the retinal venous system



In a pt with TMVL, what should push you to suspect an embolic cause?



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Embolization of retinal arterial tree

Occlusion in the retinal venous system

In a pt with TMVL, what should push you to suspect an embolic cause? Finding that you've ruled out ocular and orbital causes, as well as having concluded that the likelihood of is low

or

Embolization of retinal arterial tree



In a pt with TMVL, what should push you to suspect an embolic cause? Finding that you've ruled out ocular and orbital causes, as well as having concluded that the likelihood of GCA is low

Dr

Embolization of retinal arterial tree



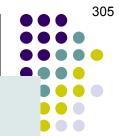
In a pt with TMVL, what should push you to suspect an embolic cause? Finding that you've ruled out ocular and orbital causes, as well as having concluded that the likelihood of GCA is low

OK, so I've concluded the acute case of TMVL sitting in front of me is likely embolic in origin. What now?

or

Embolization of retinal arterial tree



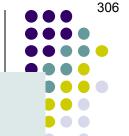


OK, so I've concluded the acute case of TMVL sitting in front of me is likely embolic in origin. What now?
Well, they need a workup

or

Embolization of retinal arterial tree





OK, so I've concluded the acute case of TMVL sitting in front of me is likely embolic in origin. What now?
Well, they need a workup

In a nutshell, what is the goal of the workup?

or

Embolization of retinal arterial tree



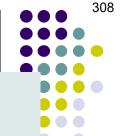


OK, so I've concluded the acute case of TMVL sitting in front of me is likely embolic in origin. What now? Well, they need a workup

In a nutshell, what is the goal of the workup? To identify the two words

Embolization of retinal arterial tree





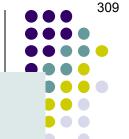
OK, so I've concluded the acute case of TMVL sitting in front of me is likely embolic in origin. What now? Well, they need a workup

In a nutshell, what is the goal of the workup? To identify the embolic source

or

Embolization of retinal arterial tree





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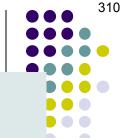
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Who should do the workup?

or

Embolization of retinal arterial tree





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Embolization of retinal arterial tree

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Embolization of retinal arterial tree





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You, and/or the pt's PCP via an outpt referral. Remember, a retinal TIA *is* a TIA. If a pt reported a recent two-minute spell of aphasia, would you refer them to their PCP for evaluation? (Please tell me you said no.) A retinal TIA is no different.

Embolization of retinal arterial tree

Occlusion in the retinal venous system Vasospasm of the CRA

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In a pt with TMVL, what should push you to suspect an embolic cause? Finding that you've ruled out ocular and orbital causes, as well as having concluded that the likelihood of GCA is low

OK, so I've concluded the acute case of TMVL sitting in front of me is likely embolic in origin. What now?
Well, they need a workup

identify the embolic source

How does one go about identifying the embolic source?

ise, the ER

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Embolization of retinal arterial tree

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Embolization of retinal arterial tree

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Well, they need a workup

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How does one go about identifying the embolic source? Well, recall that each embolus type is suggestive of a particular sort of pathology, which in turn is suggestive of particular locales at which the path might be found...

ise, the ER

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Embolization of retinal arterial tree

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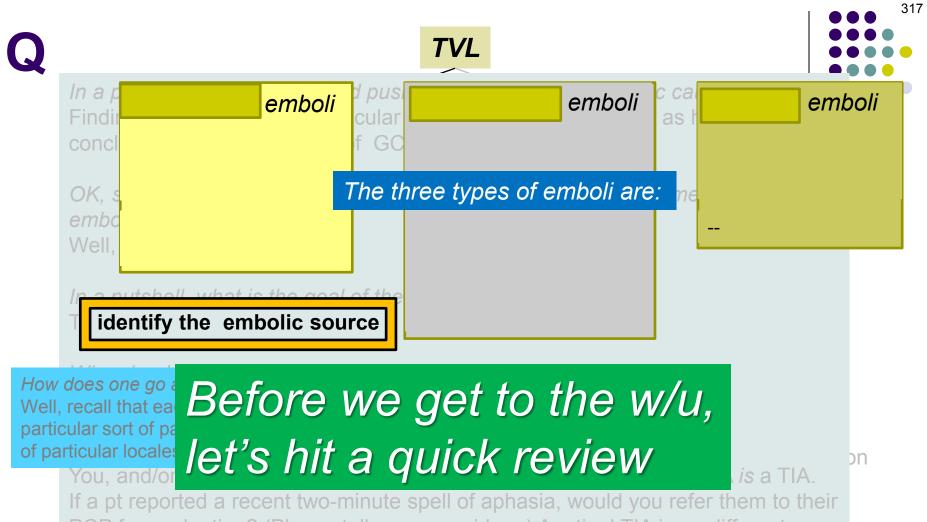
How does one go a particular sort of pa

Well, recall that ea Before we get to the w/u, of particular locales let's hit a quick review

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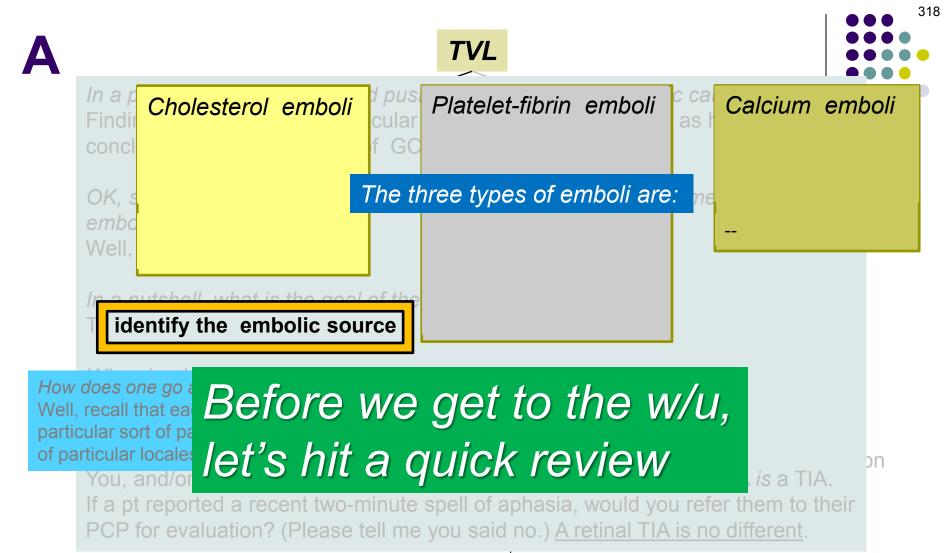
Embolization of retinal arterial tree

Occlusion in the retinal venous system



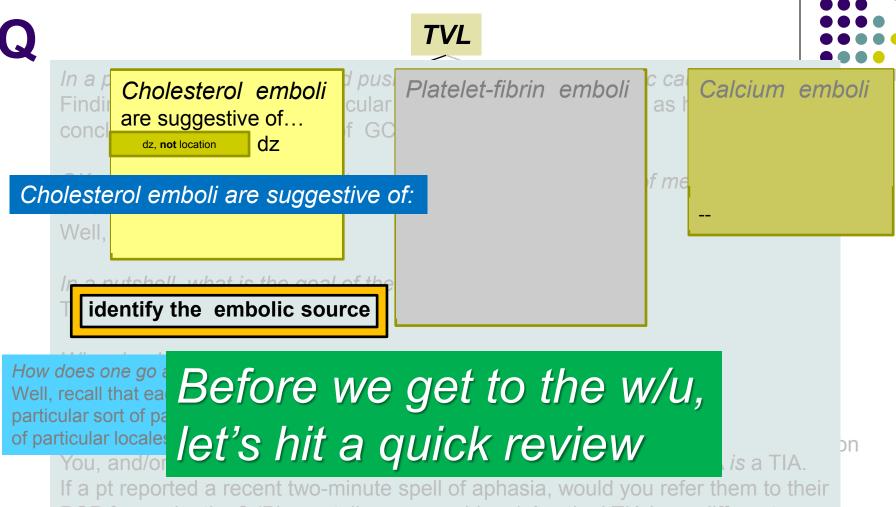
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- Embolization of retinal arterial tree



Embolization of retinal arterial tree

Occlusion in the retinal venous system

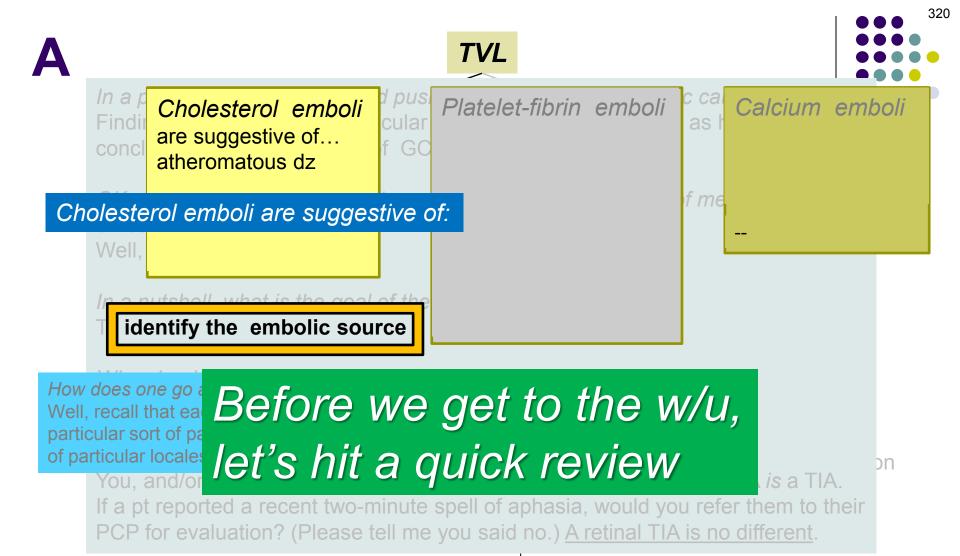


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Embolization of retinal arterial tree

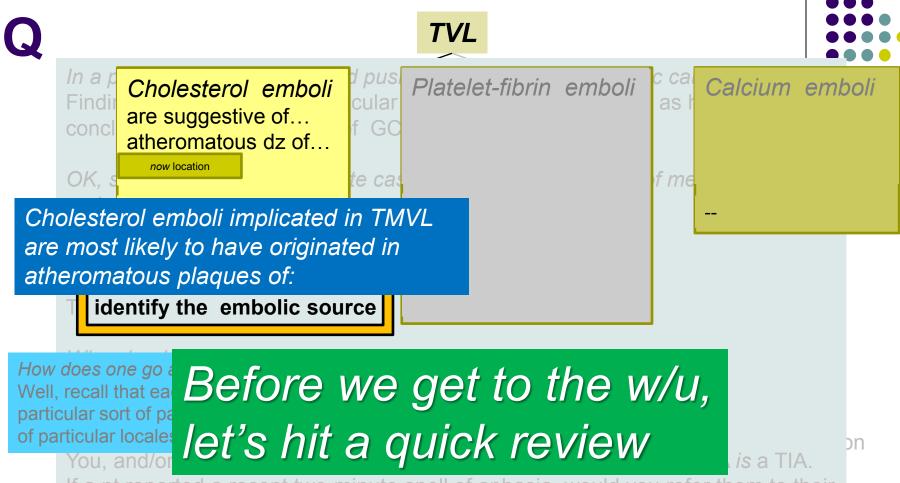
Occlusion in the retinal venous system Vasospasm of the CRA

319



Embolization of retinal arterial tree

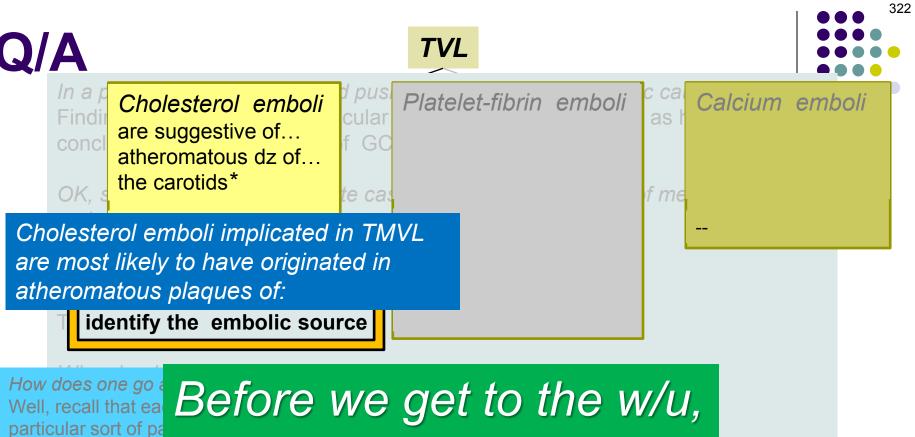
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- Embolization of retinal arterial tree

321



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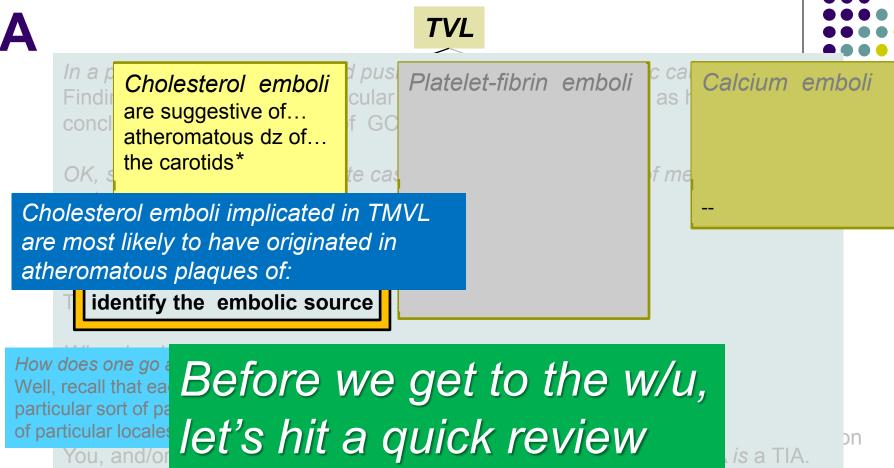
Embolization of retinal arterial tree

Occlusion in the retinal venous system Vasospasm of the CRA

*But shout-out the

two words

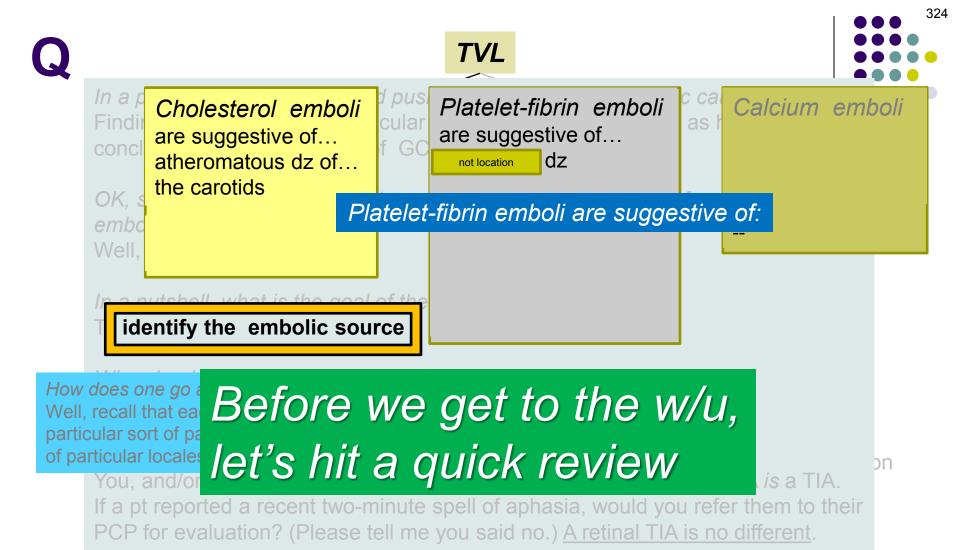
as well, remember



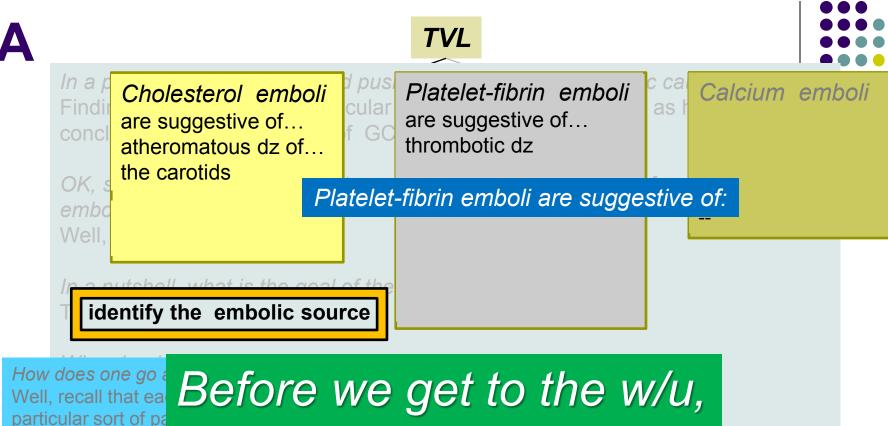
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- Embolization of retinal arterial tree

Occlusion in the retinal venous system Vasospasm of the CRA 323



Embolization of retinal arterial tree

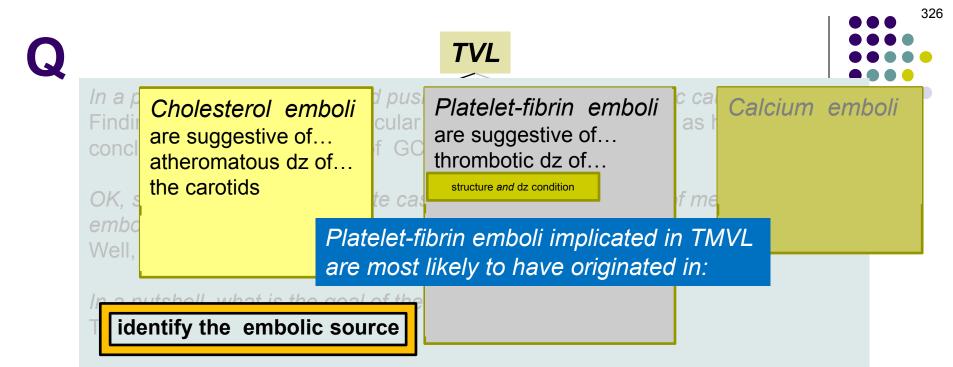


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Embolization of retinal arterial tree

325



How does one go a particular sort of pa

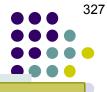
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Embolization of retinal arterial tree







Cholesterol emboli are suggestive of... atheromatous dz of... the carotids

Platelet-fibrin emboli are suggestive of... thrombotic dz of... the atria in AFib

Calcium emboli

Platelet-fibrin emboli implicated in TMVL are most likely to have originated in:

identify the embolic source

How does one go a particular sort of pa

embo

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Embolization of retinal arterial tree

f me





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Calcium emboli are suggestive of... dz

Calcific emboli are suggestive of:

identify the embolic source

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Embolization of retinal arterial tree

f me

Occlusion in the retinal venous system



d pusi



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identify the embolic source

Platelet-fibrin emboli are suggestive of... thrombotic dz of... the atria in AFib

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Calcific emboli are suggestive of:

How does one go a particular sort of pa

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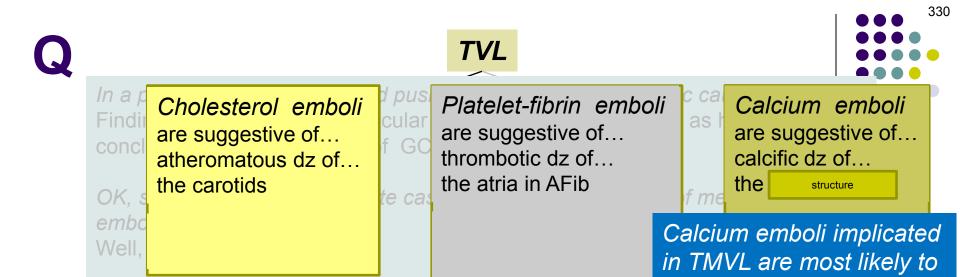
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Embolization of retinal arterial tree

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Occlusion in the retinal venous system



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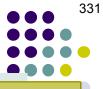
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Embolization of retinal arterial tree

have originated in:



d pusi



Cholesterol emboli are suggestive of... atheromatous dz of... the carotids

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Calcium emboli are suggestive of... calcific dz of... the heart valves

Calcium emboli implicated in TMVL are most likely to have originated in:

How does one go a particular sort of pa

embo

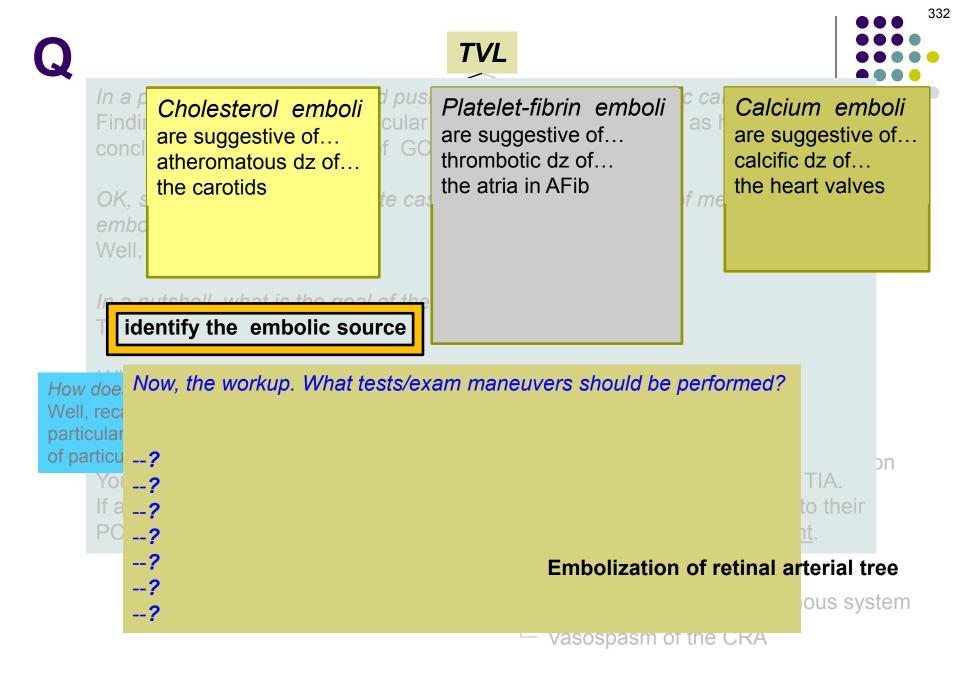
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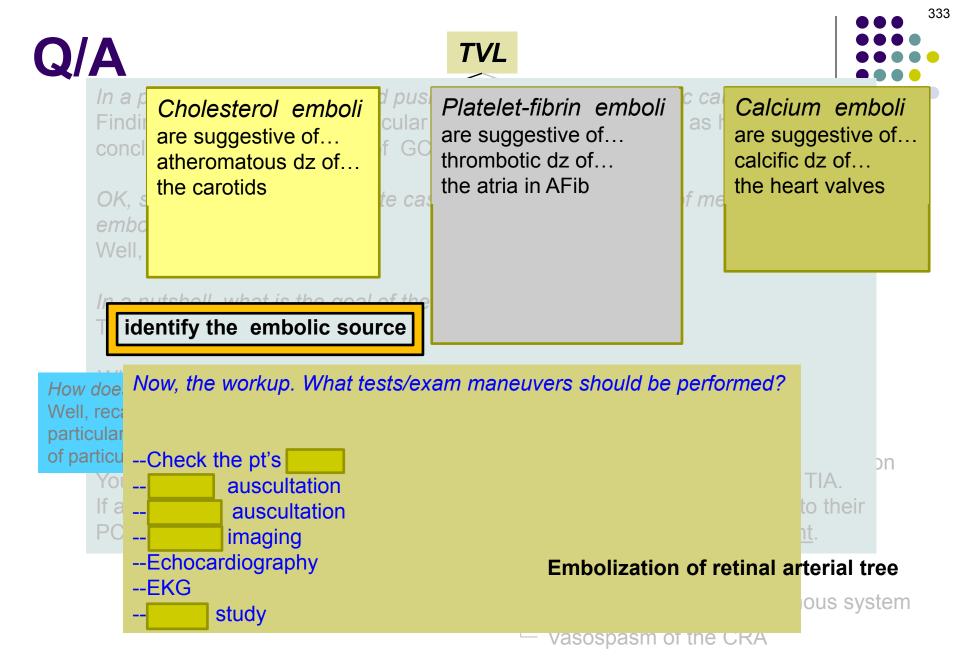
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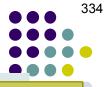
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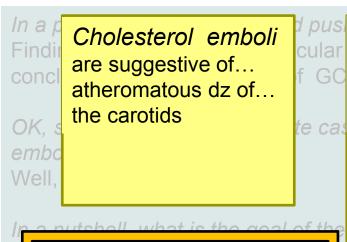
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Embolization of retinal arterial tree









Platelet-fibrin emboli are suggestive of... thrombotic dz of... the atria in AFib Calcium emboli are suggestive of... calcific dz of... the heart valves

identify the embolic source

How doe Well, recaparticular of particular

Now, the workup. What tests/exam maneuvers should be performed?

- of particu -- Check the pt's pulse
 - -- Carotid auscultation
 - -- Cardiac auscultation
 - PC -- Carotid imaging
 - -- Echocardiography
 - --EKG
 - --Holter study

TIA. to their <u>nt</u>.

Embolization of retinal arterial tree

ous system

on

d pusi



Cholesterol emboli are suggestive of... atheromatous dz of... the carotids embo Well.

Platelet-fibrin emboli are suggestive of... thrombotic dz of... the atria in AFib

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 - --Holter study

Note: Some of you no doubt came up with a study that's not on this list. If so, no worrieswe'll address that study shortly.

-- Another very important study

Vasospasm of the CRA

DN TIA.

to their

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bus system

If a --Carotid auscultation
PC --Carotid imaging
--Echocardiography

--EKG

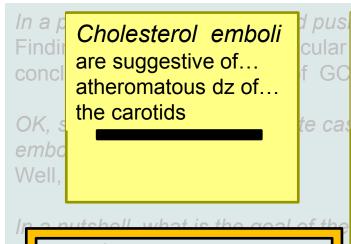
--Holter study

Embolization of retinal arterial tree

lous system







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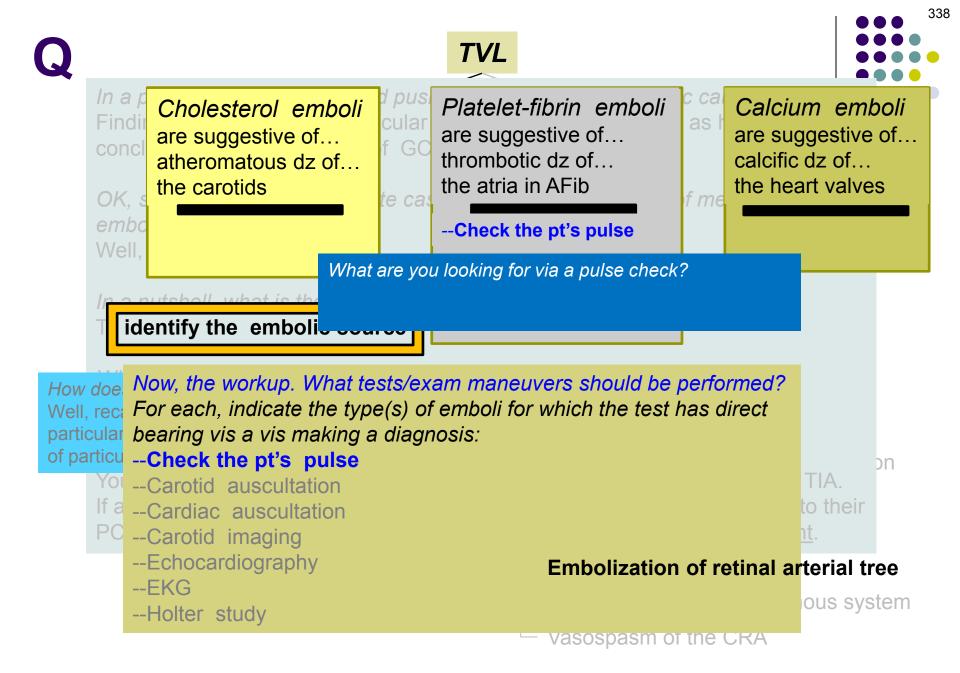
TIA. to their

f me

Embolization of retinal arterial tree

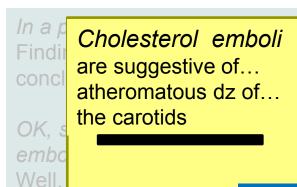
ous system

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Platelet-fibrin emboli are suggestive of... thrombotic dz of... the atria in AFib

-- Check the pt's pulse

Calcium emboli are suggestive of... calcific dz of... the heart valves

What are you looking for via a pulse check?

An irregularly irregular rhythm, which would increase (although not cinch) the likelihood that AFib is present

identify the emboli

How doe.

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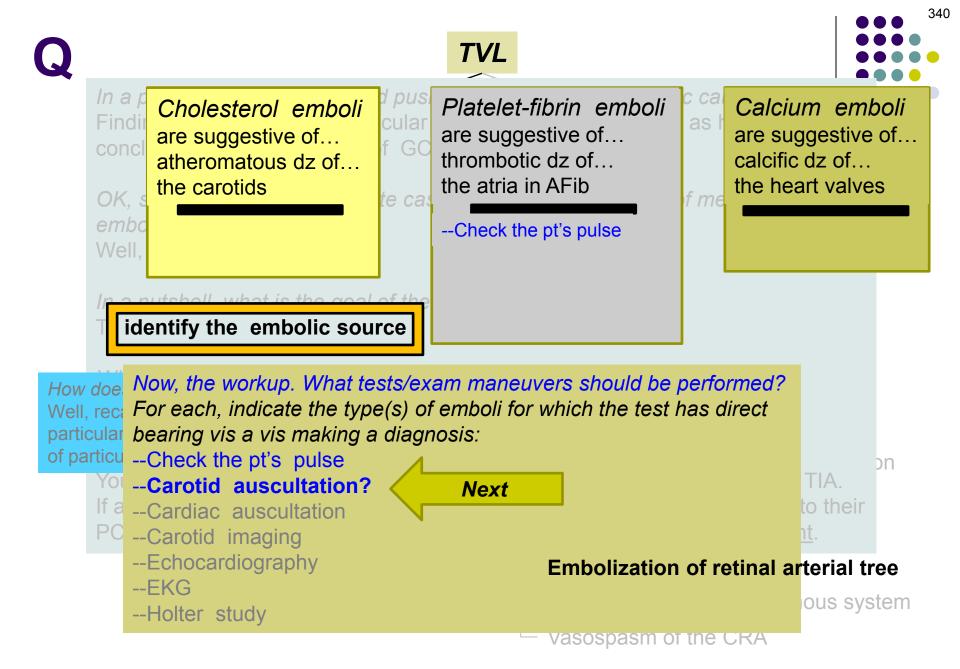
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Embolization of retinal arterial tree

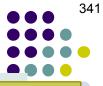
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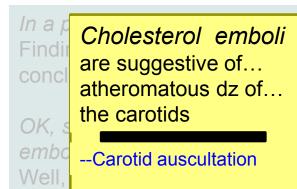
TIA.

on



d pusi





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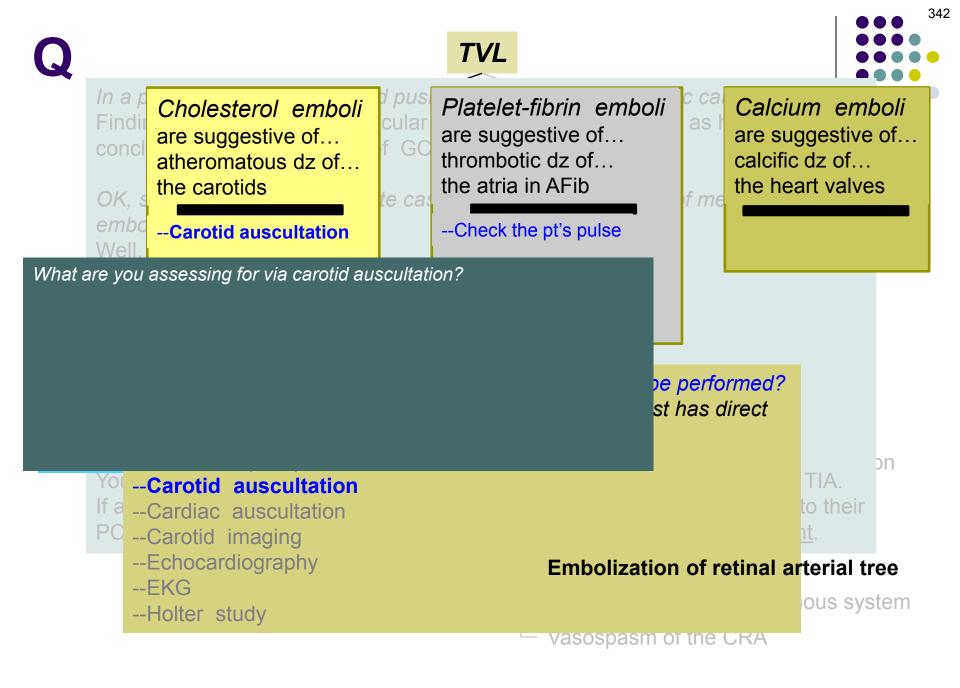
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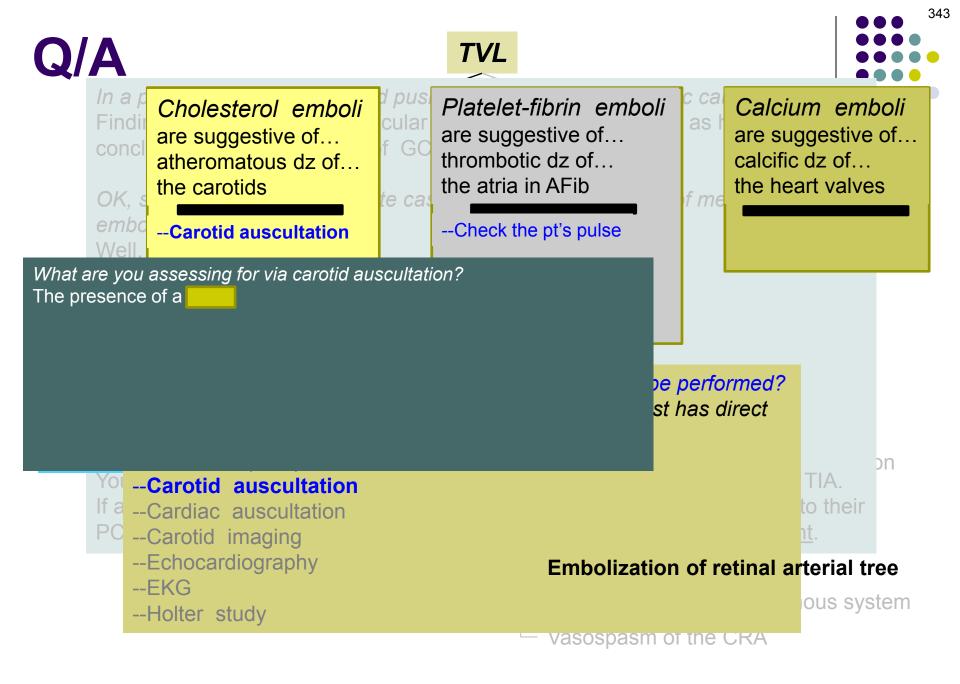
Embolization of retinal arterial tree

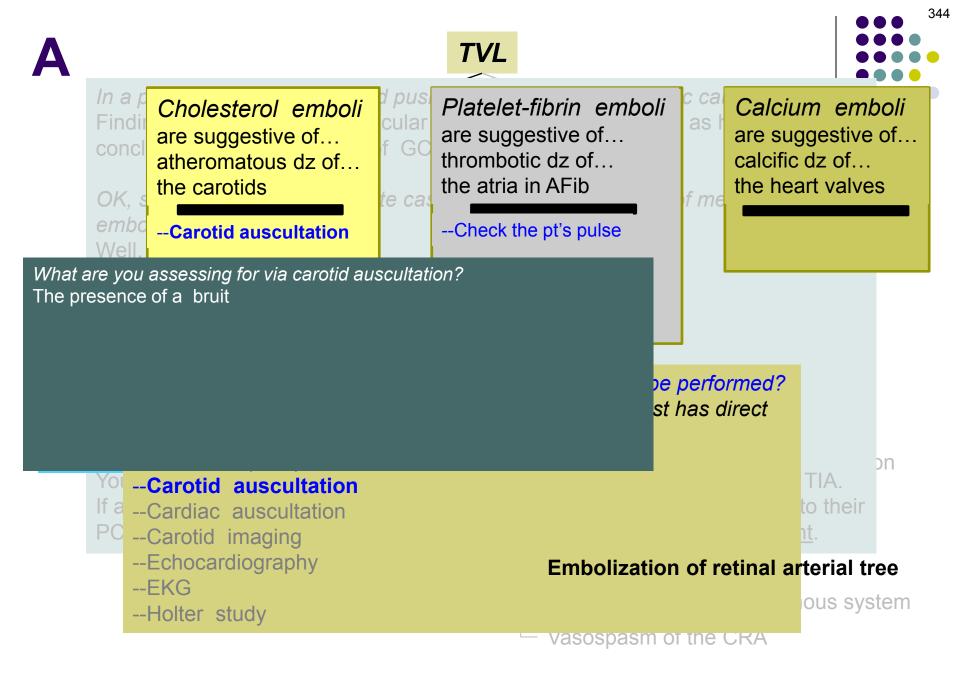
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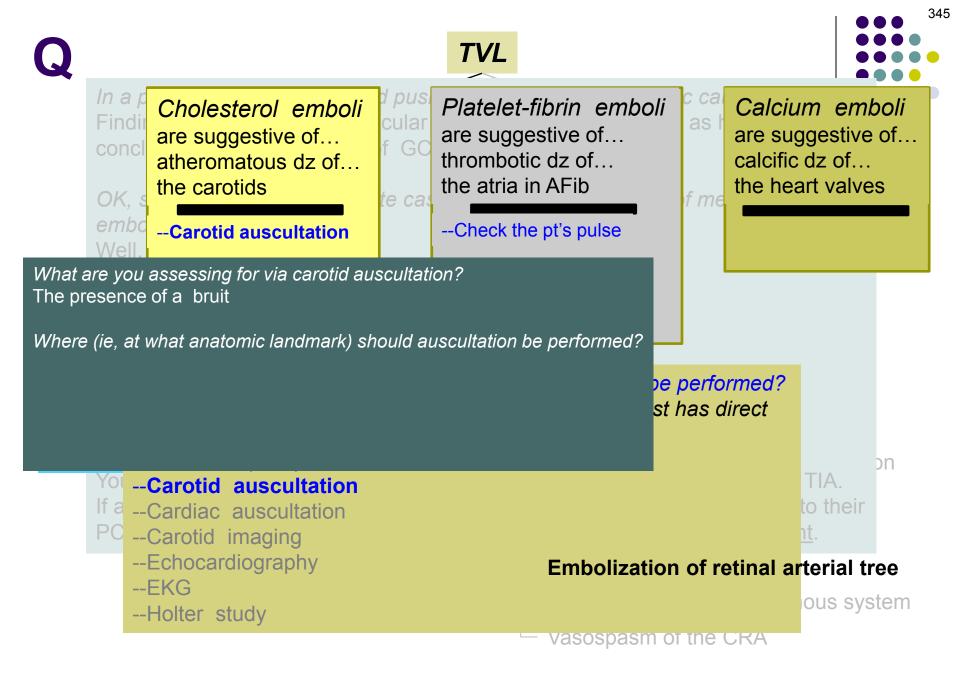
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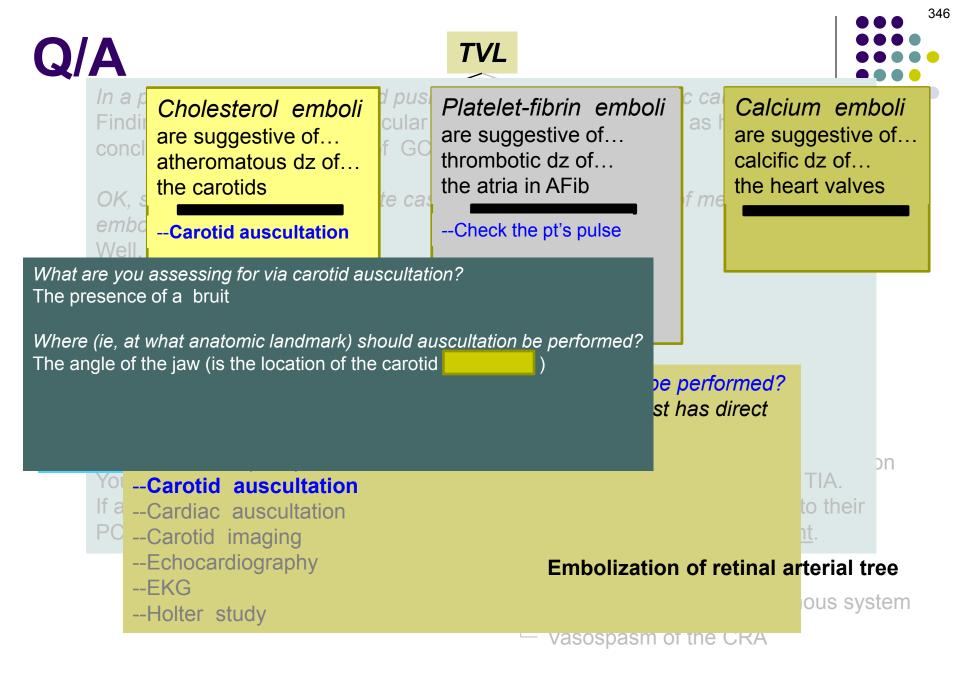
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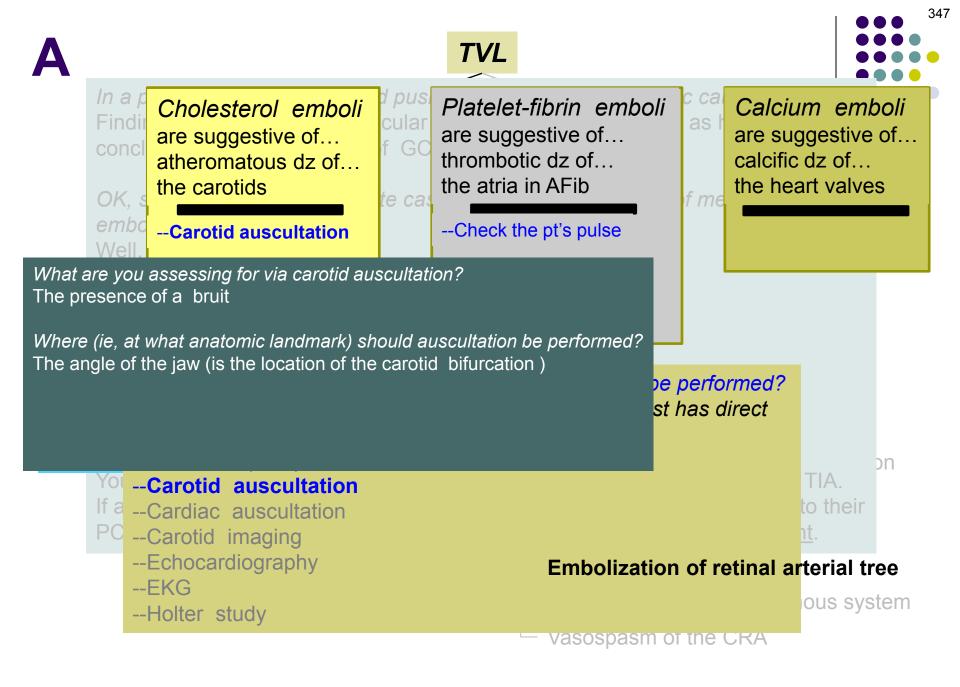


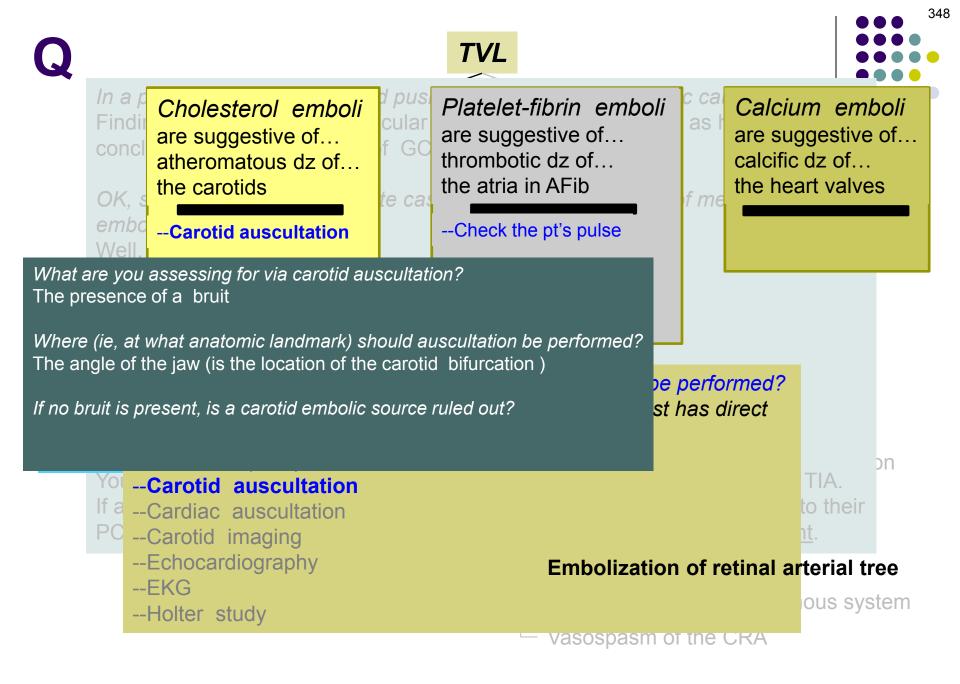


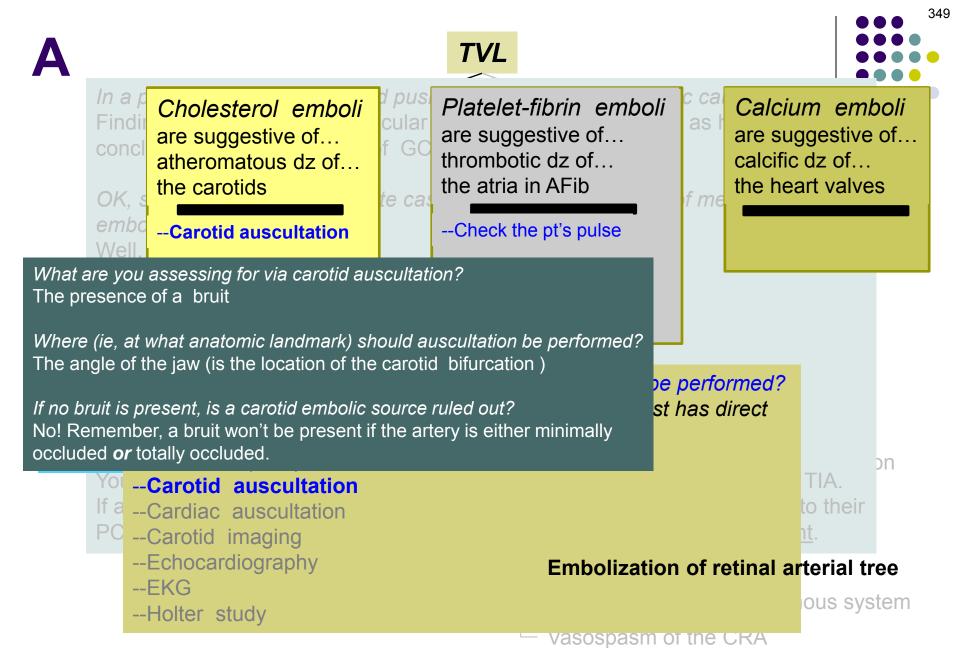


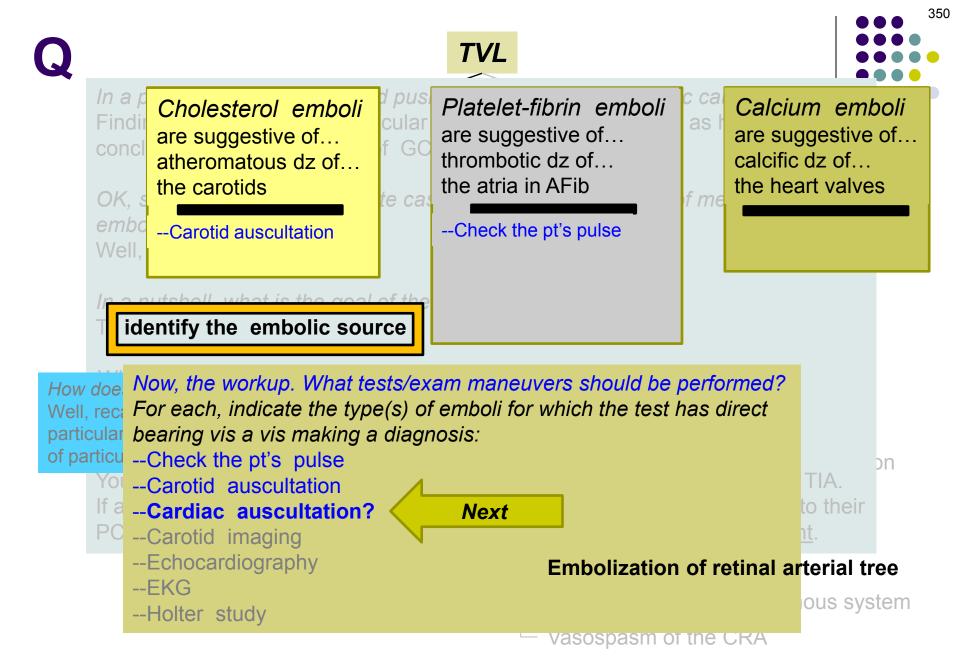








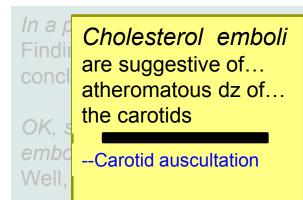






d pusi





Platelet-fibrin emboli are suggestive of... thrombotic dz of... the atria in AFib

- --Check the pt's pulse
- -- Cardiac auscultation

Calcium emboli are suggestive of... calcific dz of... the heart valves

-- Cardiac auscultation

TIA.

identify the embolic source

How doe.

Now, the workup. What tests/exam maneuvers should be performed? Well, rec: For each, indicate the type(s) of emboli for which the test has direct particular bearing vis a vis making a diagnosis:

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 - -- Carotid auscultation
 - -- Cardiac auscultation
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 - -- Echocardiography
 - --EKG
 - --Holter study

to their

f me

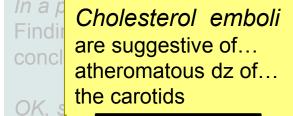
Embolization of retinal arterial tree

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d pusi





-- Carotid auscultation

identify the embolic source

Platelet-fibrin emboli are suggestive of... thrombotic dz of... the atria in AFib

- --Check the pt's pulse
- -- Cardiac auscultation

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- of particu -- Check the pt's pulse
 - -- Carotid auscultation
 - -- Cardiac auscultation
 - PC -- Carotid imaging?
 - -- Echocardiography
 - --EKG
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to their

f me

Embolization of retinal arterial tree

ous system

on

d pusi



Cholesterol emboli are suggestive of... atheromatous dz of... the carotids

- -- Carotid auscultation
- -- Carotid imaging

identify the embolic source

Platelet-fibrin emboli are suggestive of... thrombotic dz of... the atria in AFib

- --Check the pt's pulse
- -- Cardiac auscultation

Calcium emboli are suggestive of... calcific dz of... the heart valves

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TIA.

How doe.

embo

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- of particu -- Check the pt's pulse
 - -- Carotid auscultation
 - -- Cardiac auscultation
 - PO -- Carotid imaging
 - -- Echocardiography
 - --EKG
 - --Holter study

to their

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Embolization of retinal arterial tree

ous system

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--EKG

--Holter study

Embolization of retinal arterial tree

ous system

embo

TVL



conclusion are suggestive of...
atheromatous dz of...
the carotids

--Carotid auscultation

Well, -- Carotid imaging

Platelet-fibrin emboli are suggestive of... thrombotic dz of... the atria in AFib

--Check the pt's pulse

-- Cardiac auscultation

Calcium emboli are suggestive of... calcific dz of... the heart valves

-- Cardiac auscultation

How (ie, via what modality/modalities) should the carotids be imaged?

Ultrasound, MRA and CTA are all acceptable (although the *Neuro* book indicates MRA/CTA are preferred)

Well, rec: For each, indicate the type(s) of emboli for which the test has direct

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particular bearing vis a vis making a diagnosis:

of particu -- Check the pt's pulse

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If a -- Cardiac auscultation

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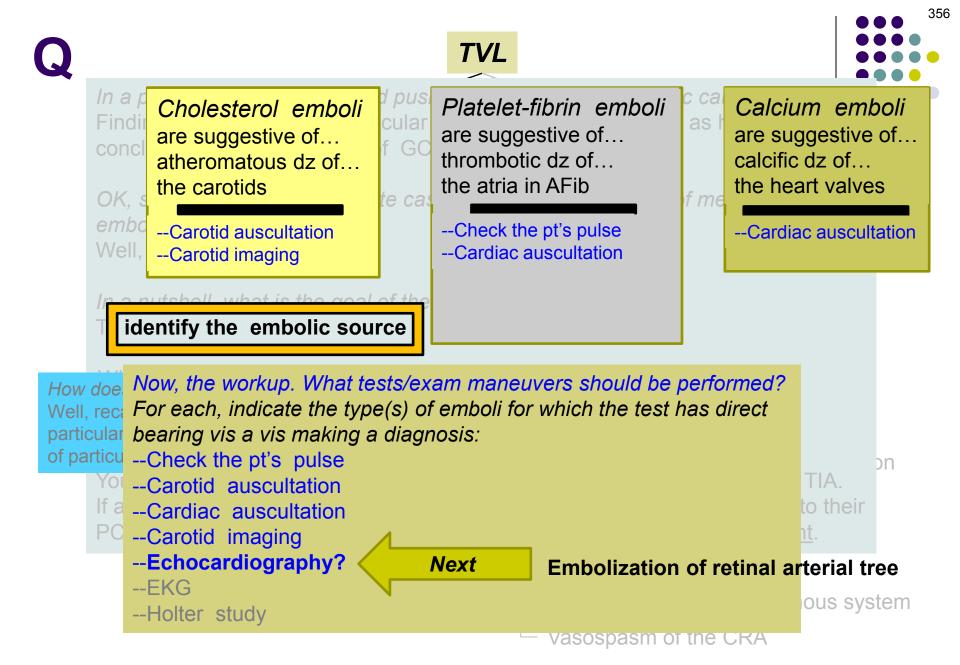
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Embolization of retinal arterial tree

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Cholesterol emboli Find are suggestive of... atheromatous dz of... the carotids

- -- Carotid auscultation
- -- Carotid imaging

identify the embolic source

Platelet-fibrin emboli are suggestive of... thrombotic dz of... the atria in AFib

- --Check the pt's pulse
- -- Cardiac auscultation
- --Echo

Calcium emboli are suggestive of... calcific dz of... the heart valves

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TIA.

--Echo

f me

How doe.

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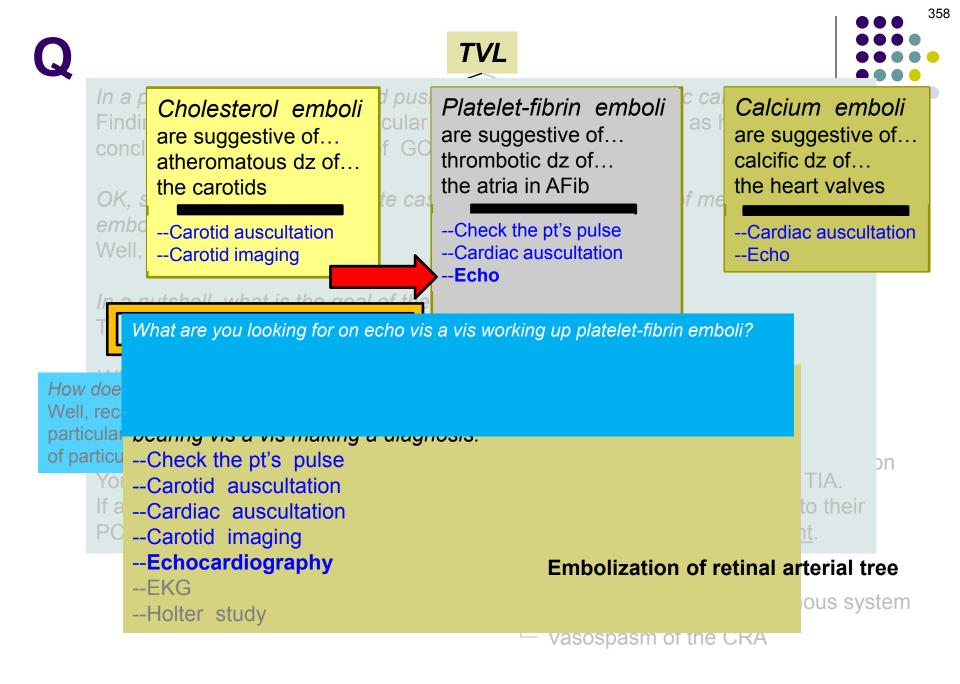
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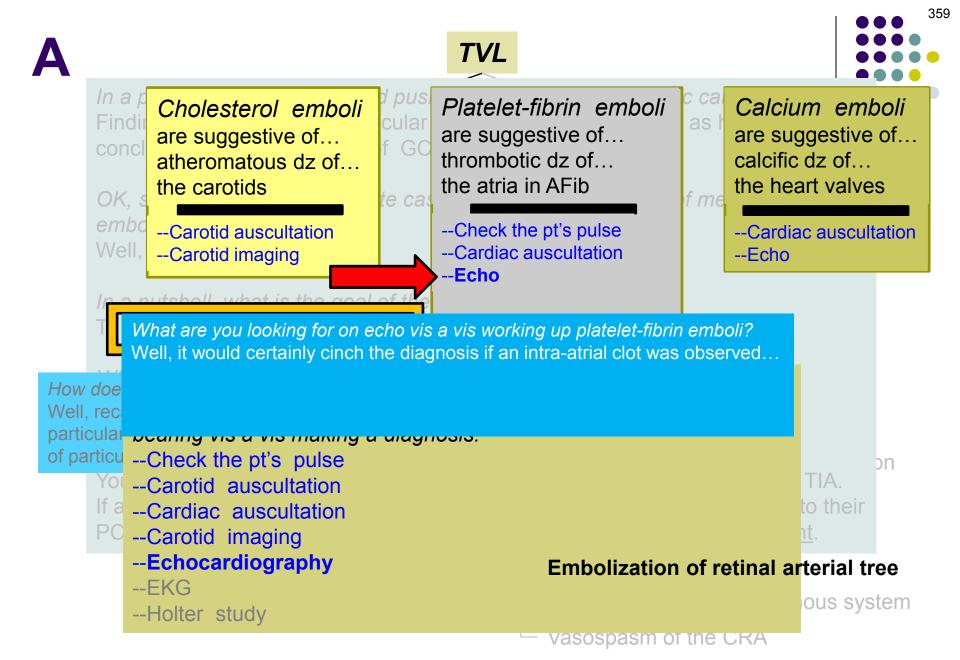
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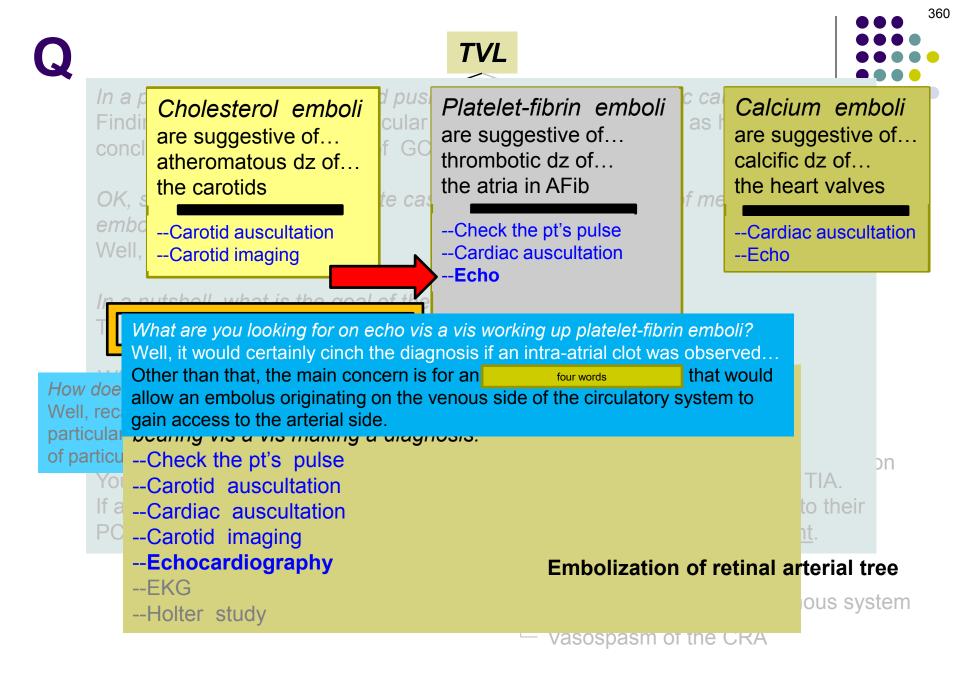
Embolization of retinal arterial tree

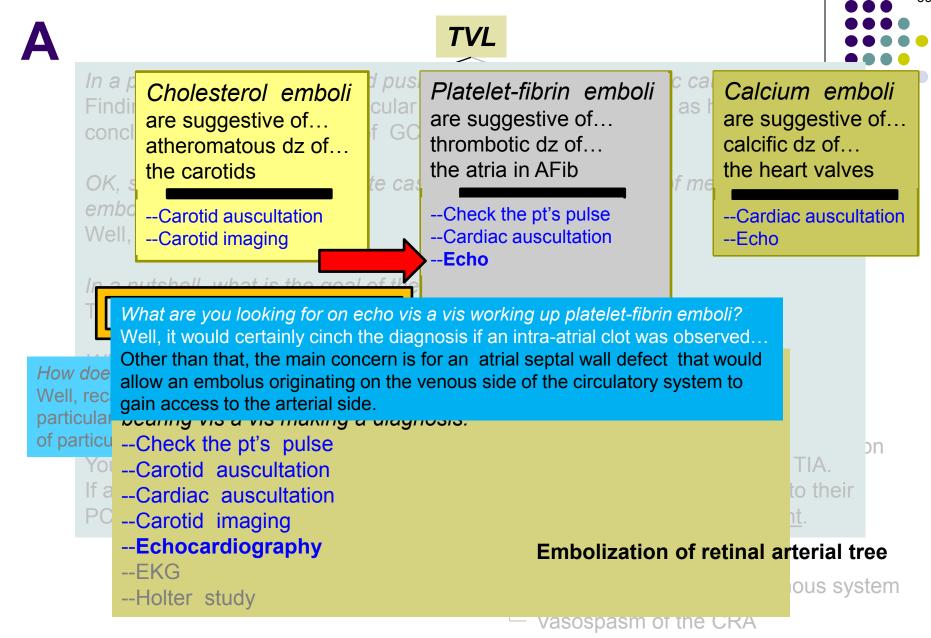
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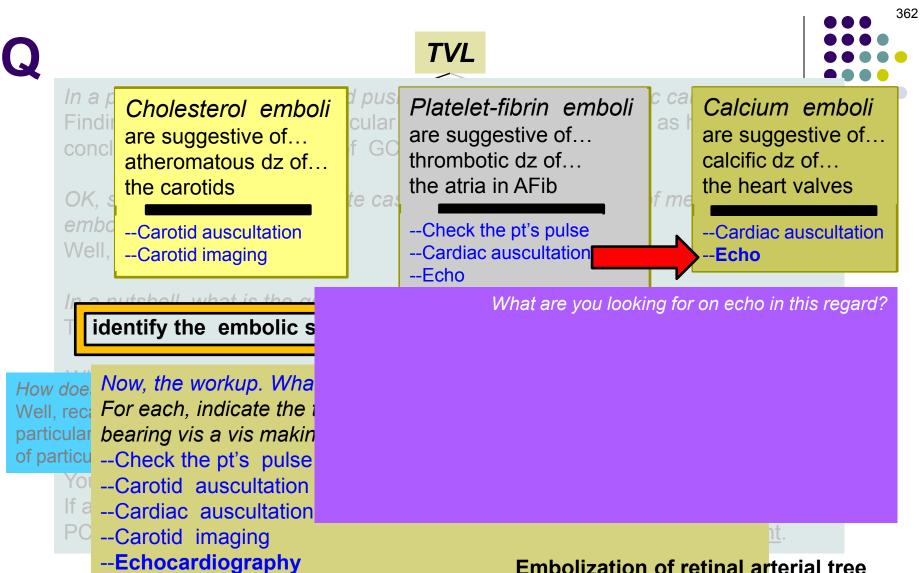
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--EKG

--Holter study

Embolization of retinal arterial tree

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Cholesterol emboli Find are suggestive of... atheromatous dz of... the carotids

-- Carotid auscultation

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-- Carotid imaging

Platelet-fibrin emboli are suggestive of... thrombotic dz of... the atria in AFib

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Calcium emboli are suggestive of... calcific dz of... the heart valves

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--Echo

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Now, the workup. Wha Well, rec: For each, indicate the particular bearing vis a vis makin

- of particu -- Check the pt's pulse
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 - -- Echocardiography
 - --EKG
 - --Holter study

What are you looking for on echo in this regard? Evidence of cardiac valvular dz

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Embolization of retinal arterial tree

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This exam goal may necessitate a modification in echo technique. What mod?

Embolization of retinal arterial tree

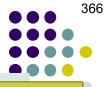
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Evidence of cardiac valvular dz

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What mod?

Employing a transesophageal (TEE) approach rather than the more commonly-employed transthoracic (TTE) approach

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Embolization of retinal arterial tree

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Employing a transesophageal (TEE) approach rather than the more commonly-employed transthoracic (TTE) approach

Why might a TEE be indicated?

Embolization of retinal arterial tree

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f me

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Why might a TEE be indicated?

Because TTE doesn't visualize the

two words

well

Embolization of retinal arterial tree

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> Why might a TEE be indicated? Because TTE doesn't visualize the cardiac valves well

> > **Embolization of retinal arterial tree**

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Next

Embolization of retinal arterial tree

Vasospasm of the CRA

ous system

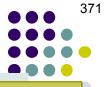
--Echocardiography

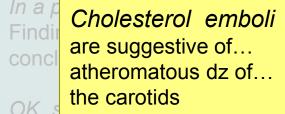
--EKG?

--Holter study

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- -- Carotid auscultation
- -- Carotid imaging

identify the embolic source

Platelet-fibrin emboli are suggestive of... thrombotic dz of... the atria in AFib

- --Check the pt's pulse
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Calcium emboli are suggestive of... calcific dz of... the heart valves

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TIA.

--Echo

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Well.

Now, the workup. What tests/exam maneuvers should be performed? Well, rec: For each, indicate the type(s) of emboli for which the test has direct particular bearing vis a vis making a diagnosis:

- of particu -- Check the pt's pulse
 - -- Carotid auscultation
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 - --Echocardiography
 - --EKG
 - --Holter study

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Embolization of retinal arterial tree

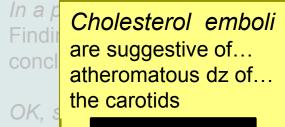
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Embolization of retinal arterial tree

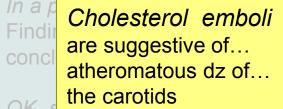
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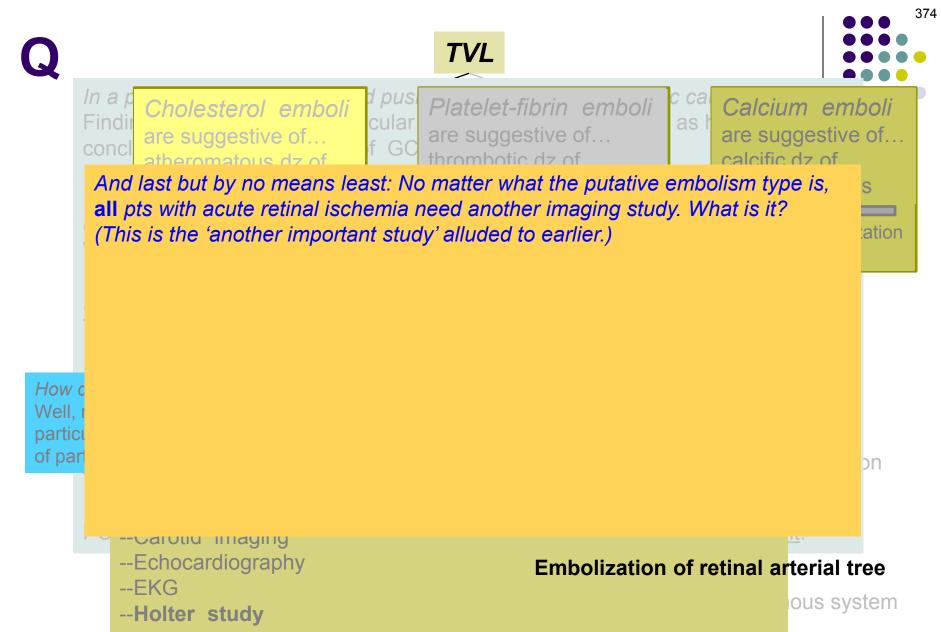
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Embolization of retinal arterial tree

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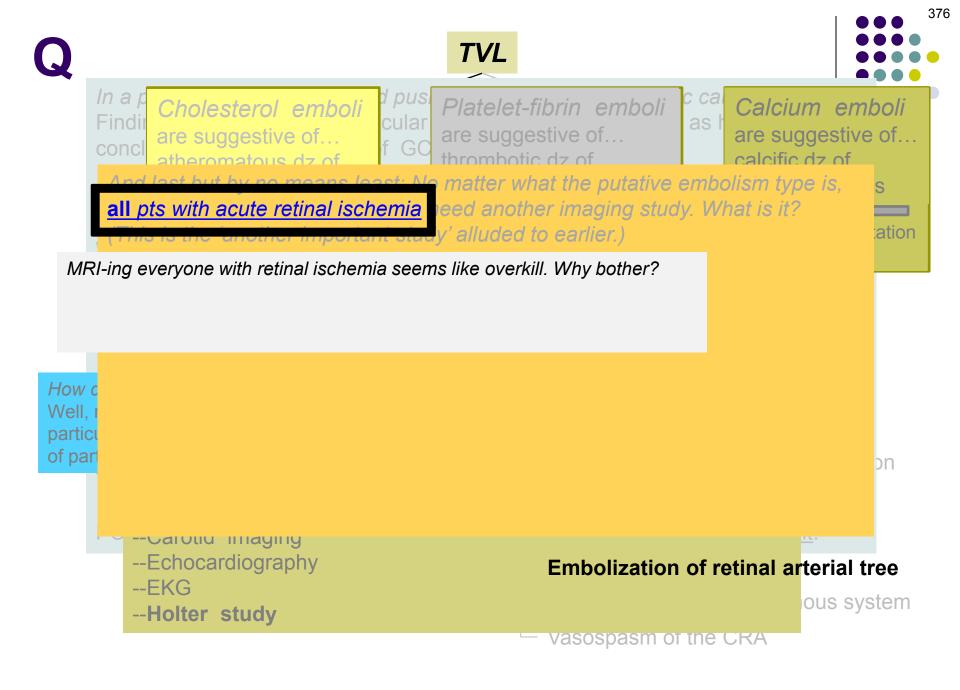


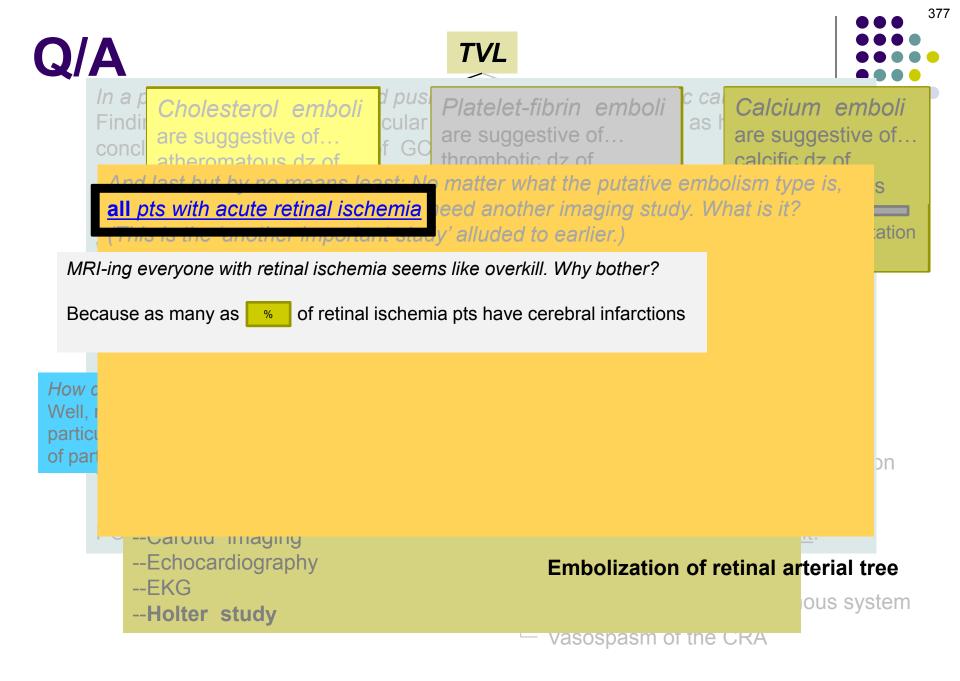
- -- Echocardiography
- --EKG
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Embolization of retinal arterial tree

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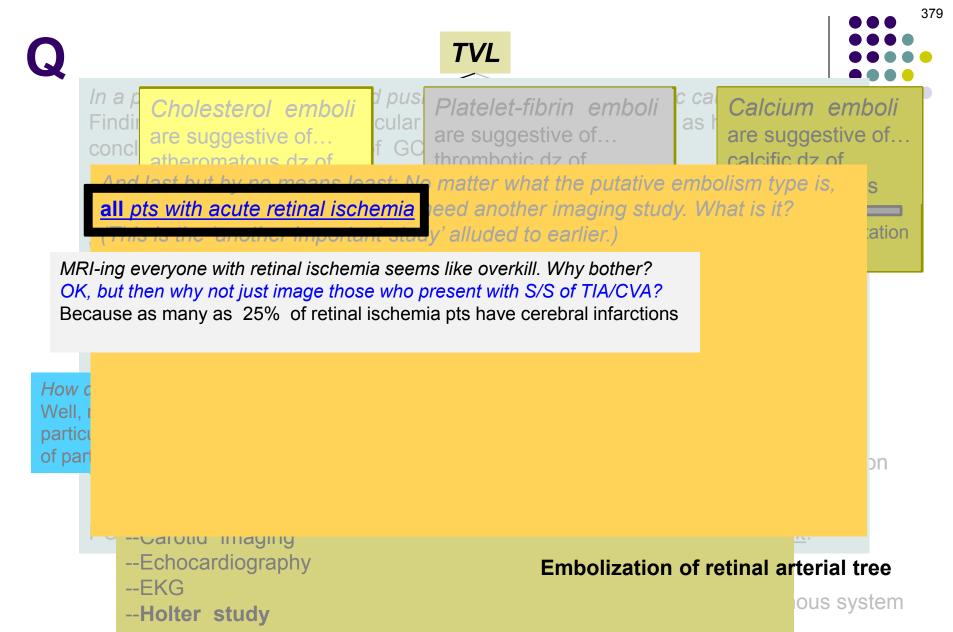
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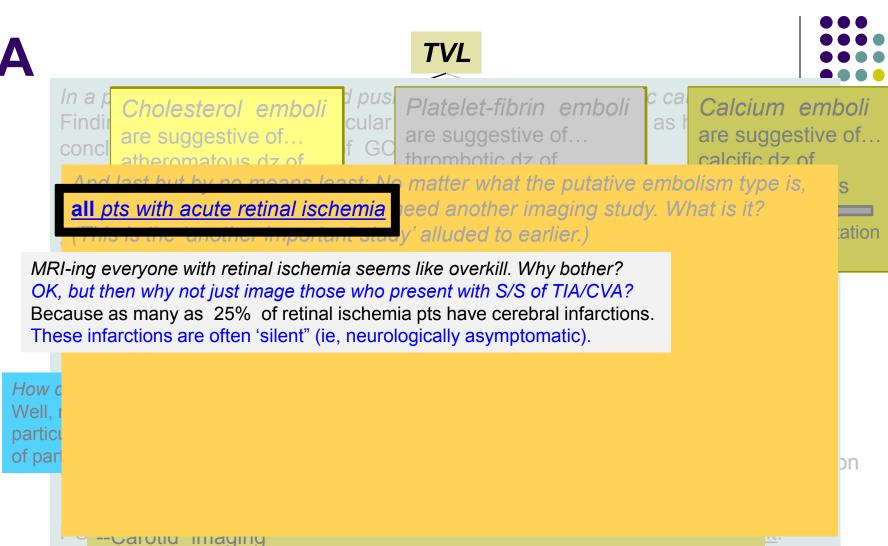




--Holter study

ous system





--Echocardiography
--EKG
--Holter study

Embolization of retinal arterial tree

ous system

380

-- Carollo Imaging

- -- Echocardiography
- --EKG
- --Holter study

Embolization of retinal arterial tree

ous system

381





Cholesterol emboli are suggestive of...

Platelet-fibrin embolication are suggestive of...

are suggestive of...

And last but by no means least: No matter what the putative embolism type is, all pts with acute retinal ischemia need another imaging study. What is it? (This is the 'another important study' alluded to earlier.)

MRI

There's a particular MRI sequence the Neuro book stresses must be obtained—what is it?

Diffusion-weighted imaging (DWI)

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-- Carollo Illiayiliy

- -- Echocardiography
- --EKG
- --Holter study

Embolization of retinal arterial tree

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--EKG

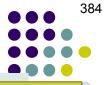
--Holter study

Embolization of retinal arterial tree

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383





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Why this particular study?

It is especially good for revealing brain infarctions

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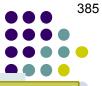
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Embolization of retinal arterial tree

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Well, reparticulation

Why this particular study?

It is especially good for revealing brain infarctions

If DWI reveals acute infarction, what should be done?

-- Carollo Illiayiliy

- -- Echocardiography
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Embolization of retinal arterial tree

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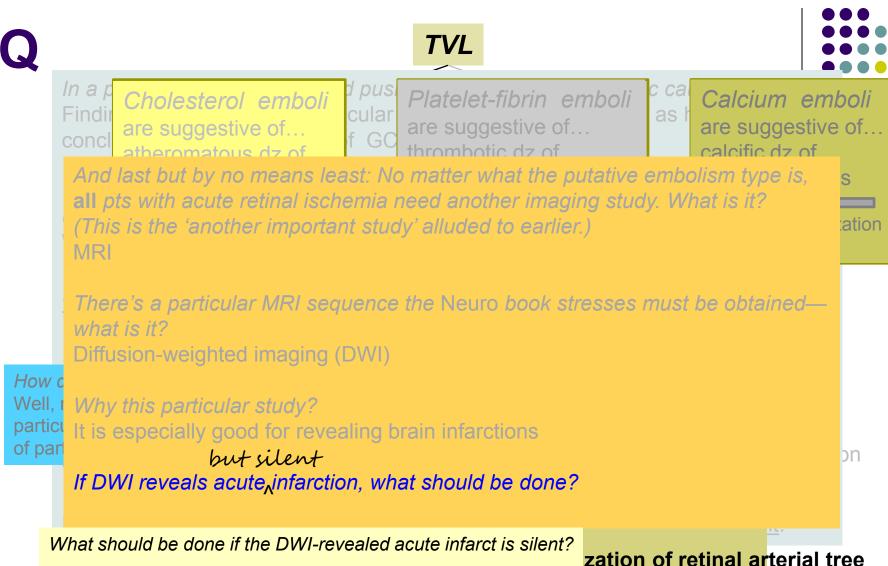
It is especially good for revealing brain infarctions

If DWI reveals acute infarction, what should be done? The pt should be admitted to the Stroke service

- --Caroud imaying
- -- Echocardiography
- --EKG
- --Holter study

Embolization of retinal arterial tree

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--Holter study







DN

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cular are suggestive of...

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Why this particular study?

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but silent

If DWI reveals acute infarction, what should be done?

The pt should be admitted to the Stroke service

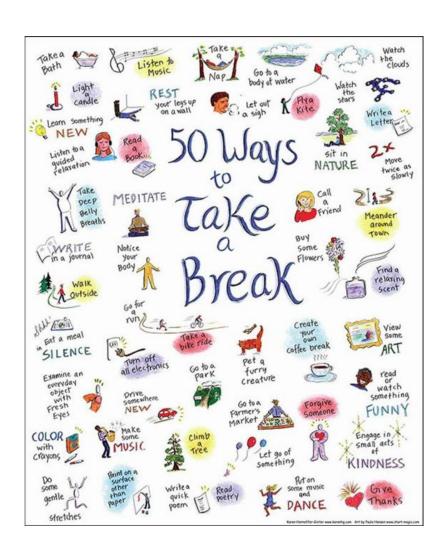
What should be done if the DWI-revealed acute infarct is silent?

Makes no difference—the pt should still be admitted

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--Holter study

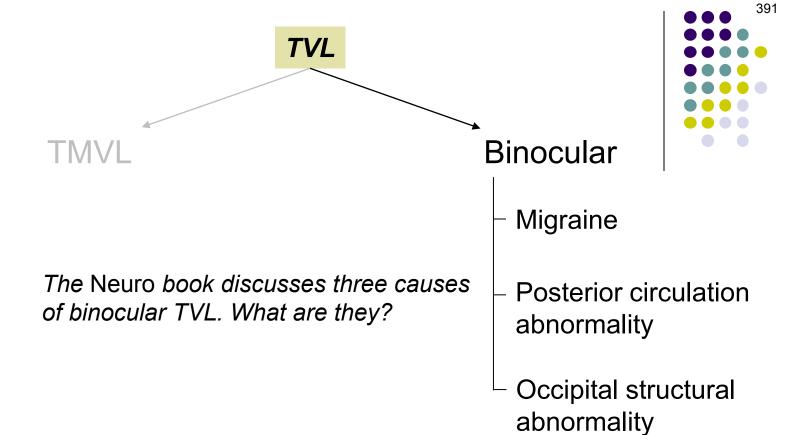


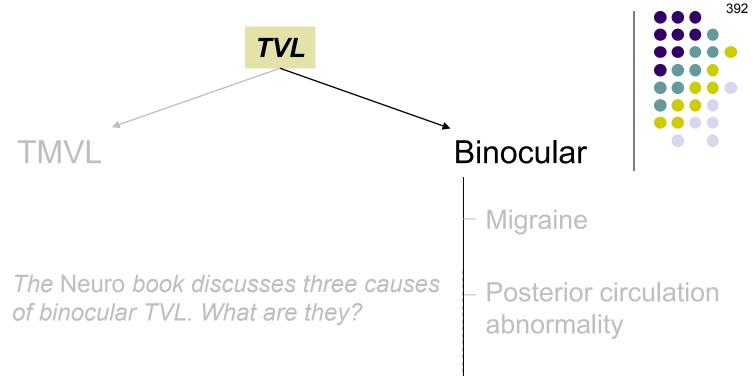








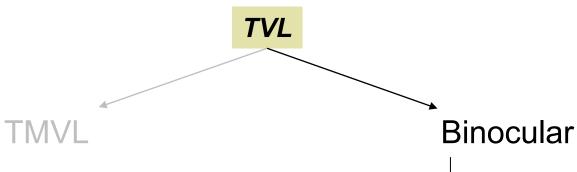




Actually, the book does touch upon a fourth cause—what is it?

 Occipital structural abnormality

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393

Migraine

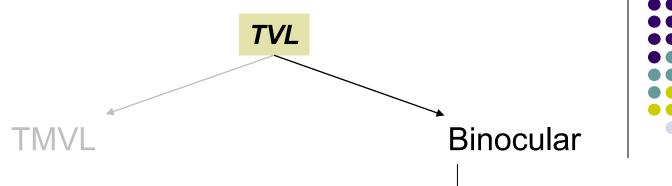
The Neuro book discusses three causes of binocular TVL. What are they?

Posterior circulation abnormality

Occipital structural abnormality

Occipital seizures

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Are occipital seizures a common cause of binocular TVL?

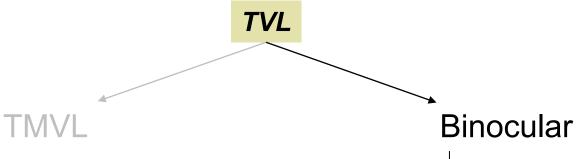
Migraine

Posterior circulation abnormality

394

Occipital structural abnormality

· Occipital seizures



395

Migraine

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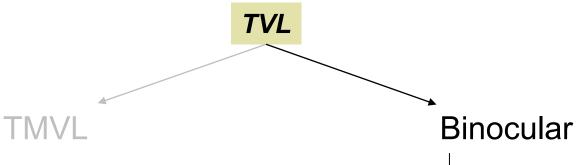
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Are occipital seizures a common cause of binocular TVL? No—they are "very uncommon" to quote the *Neuro* book



396

Migraine

Posterior circulation abnormality

Occipital structural abnormality

· Occipital seizures

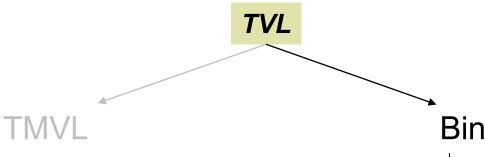
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How long does seizure-induced TVL last?





397

Binocular

Migraine

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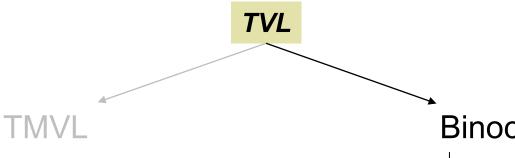
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398

Binocular

Migraine

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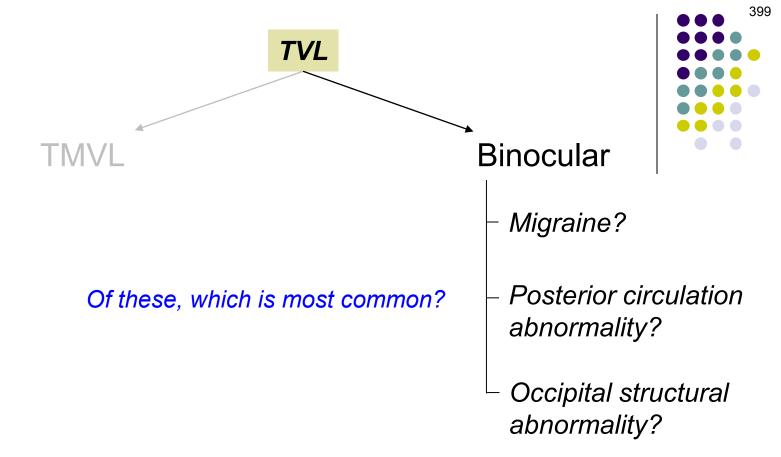
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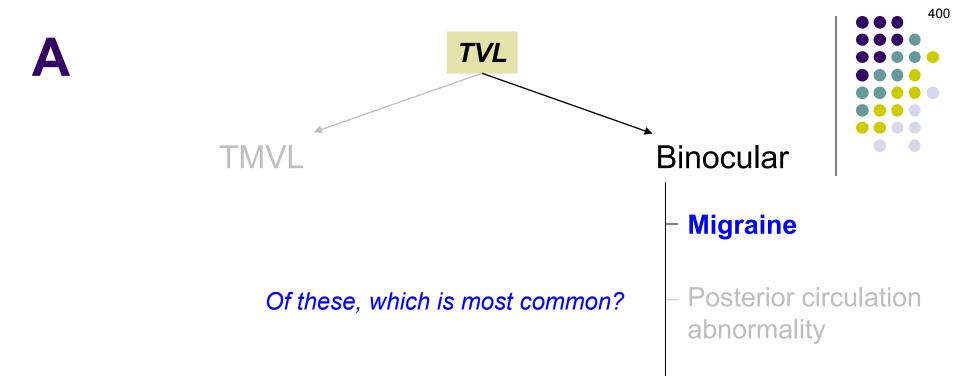
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How long does seizure-induced TVL last? Seconds, usually (an important diagnostic consideration)

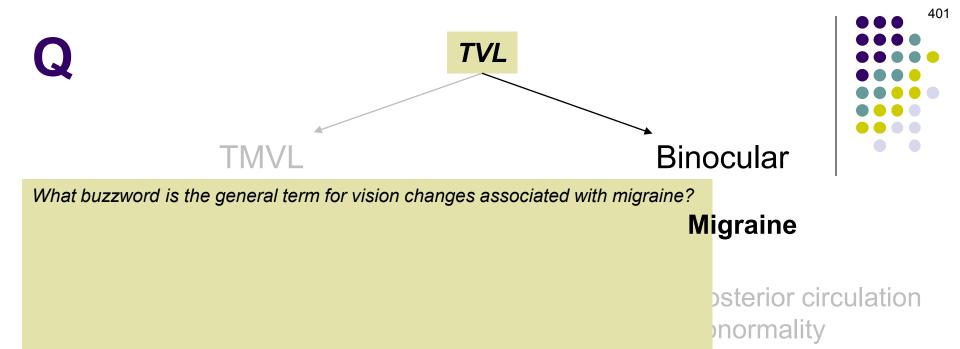






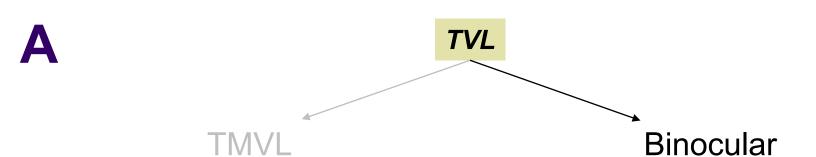
Occipital structural

abnormality



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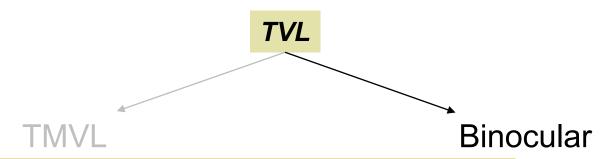
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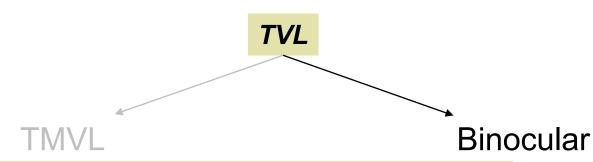


Does migraine aura precede, or follow the migraine HA itself?

Migraine

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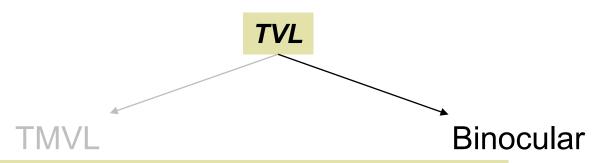


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Migraine

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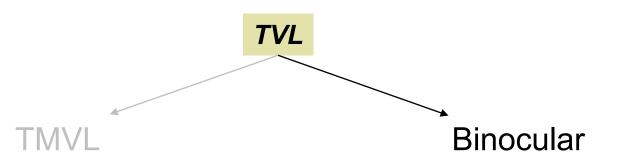
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Is aura always followed by a HA?

Migraine

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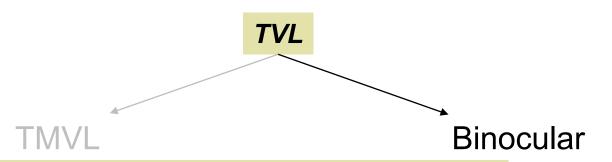
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Is aura always followed by a HA?

No, some pts have what are called weird word migraines in which they get an aura but no subsequent HA

osterior circulation onormality







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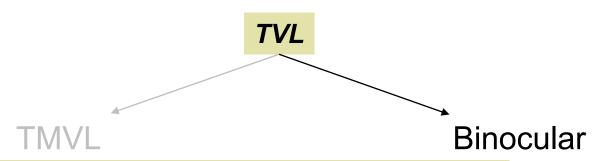
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Migraine

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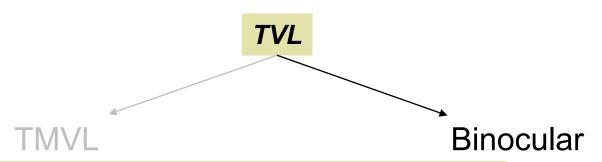
Does migraine aura precede, or follow the migraine HA itself? Precede

What is the classic form of bilateral vision loss 2ndry to migraine?

Migraine

osterior circulation normality







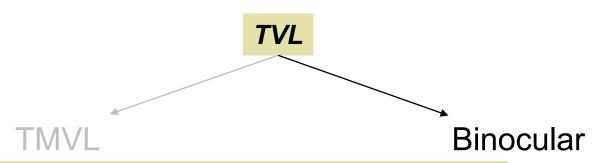
Does migraine aura precede, or follow the migraine HA itself? Precede

What is the classic form of bilateral vision loss 2ndry to migraine? Homonymous hemianopia

Migraine

osterior circulation normality







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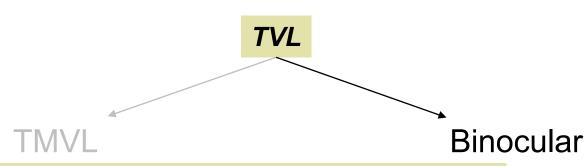
Homonymous hemianopia

Migraine is a recurrent condition. Is the same hemifield always involved?

Migraine

osterior circulation normality







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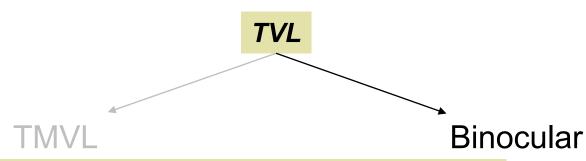
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Migraine is a recurrent condition. Is the same hemifield always involved? No—in fact, if only one hemifield is involved over and over again, the migraine dx should be questioned

Migraine

osterior circulation normality







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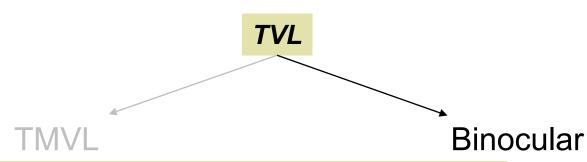
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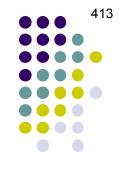
In such cases, what sort of condition rises to the top of the DDx?

Migraine

osterior circulation normality







Does migraine aura precede, or follow the migraine HA itself? Precede

What is the classic form of bilateral vision loss 2ndry to migraine?

Homonymous hemianopia

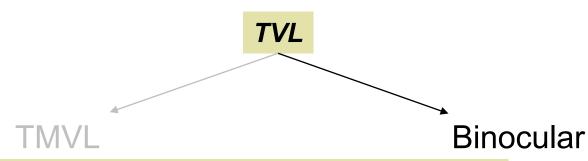
Migraine is a recurrent condition. Is the same hemifield always involved? No—in fact, if only one hemifield is involved over and over again, the migraine dx should be questioned

In such cases, what sort of condition rises to the top of the DDx? Occipital structural abnormalities, eg, AVM; tumor

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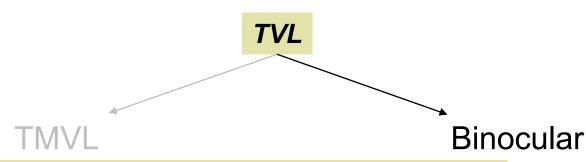
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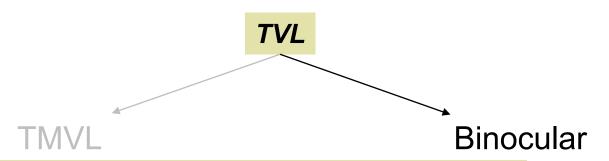
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Q





What buzzword is the general term for vision changes associated with migraine?

'Aura'

Migraine

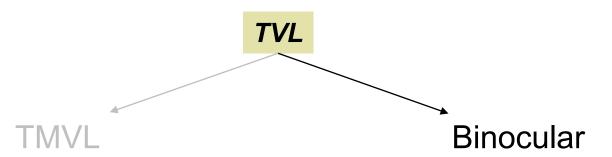
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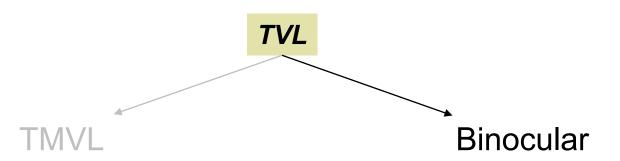
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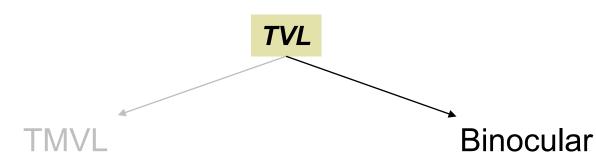


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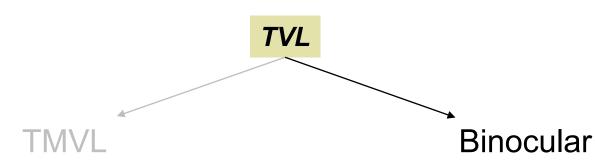
terior circulation ormality

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What term is often used to describe the geometric quality of these scintillations?









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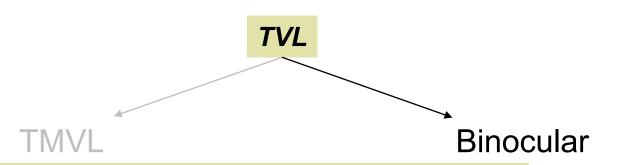
sterior circulation ormality

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What term is often used to describe the geometric quality of these scintillations?

'Fortification spectrum'





421

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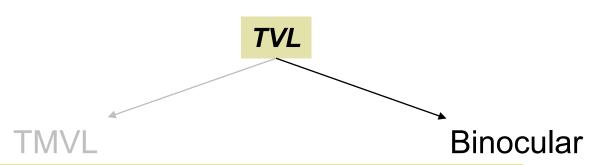
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Note: Fortification spectra are closely associated with migraines (as they should be). However, **any** occipital-based cause of TVL can present with fortification spectra.



422

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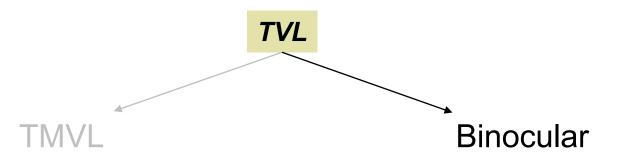
Occipital structural abnormality

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'Fortification spectrum'

Note: Fortification spectra are closely associated with migraines (as they should be). However, **any** occipital-based cause of TVL can present with fortification spectra. So when you hear *fortification spectra*, you mos def should think migraine first—but keep occipital circulatory and structural issues in the back of your mind.







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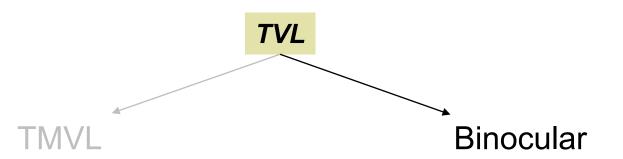
unit of time

, and then begins to slowly fade.

terior circulation ormality

al structural Next question







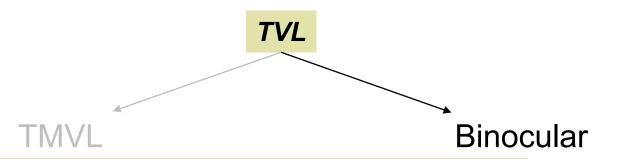
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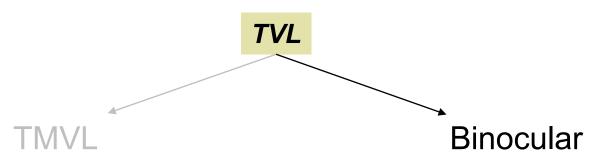
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terior circulation ormality



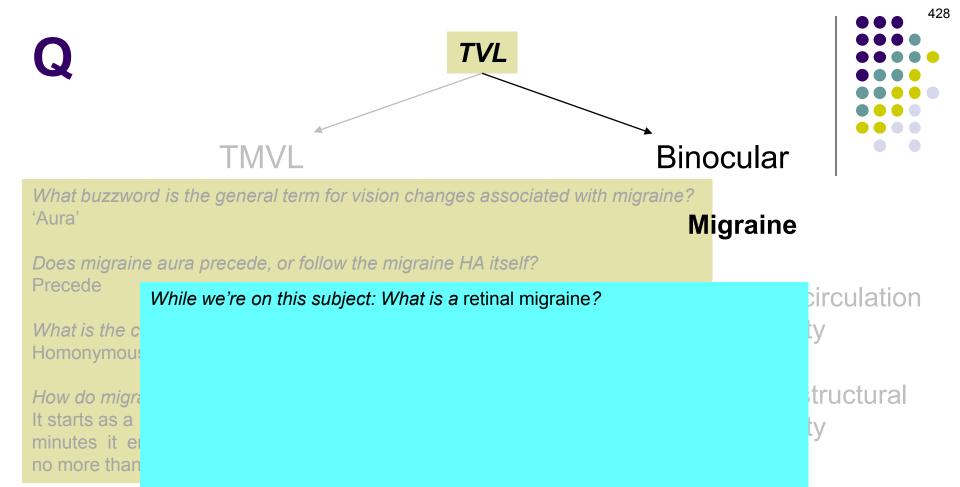


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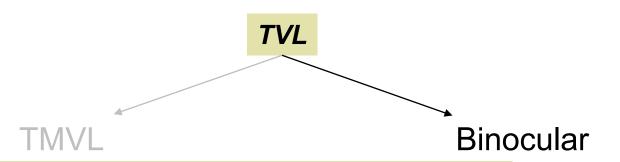




Visual aura of migraine. A, The aura commonly begins with a small scotoma near fixation that gradually expands into the peripheral vision (B–C) and then breaks up (D). The times shown represent minutes from the onset of the visual aura.









Migraine

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Precede

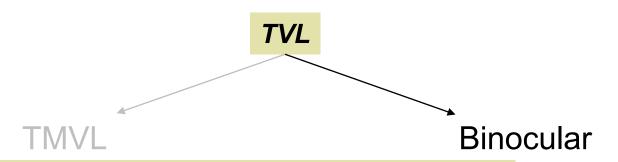
What is the c

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It is the same as a garden-variety migraine-with-aura, with one huge difference—the aura is confined to one as opposed to one

circulation ty

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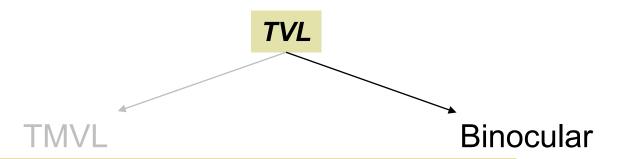
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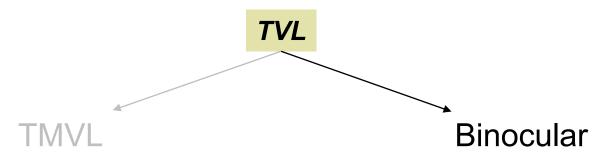
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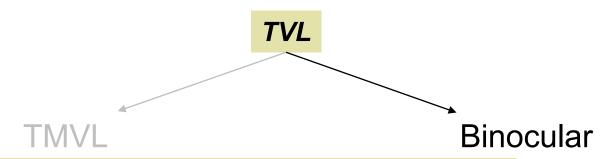
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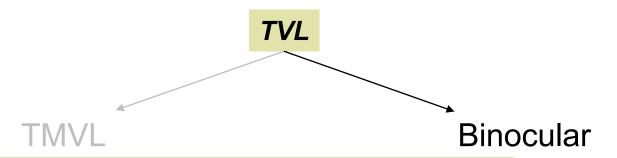
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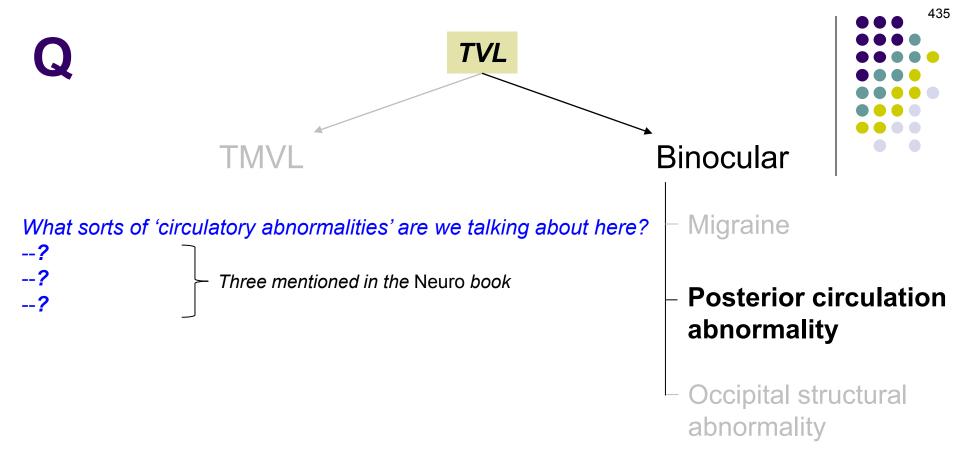
Most likely, it's migraine-with-aura for which the pt has (mis)identified their bilateral hemifield loss as monocular (as we mentioned they are wont to do)

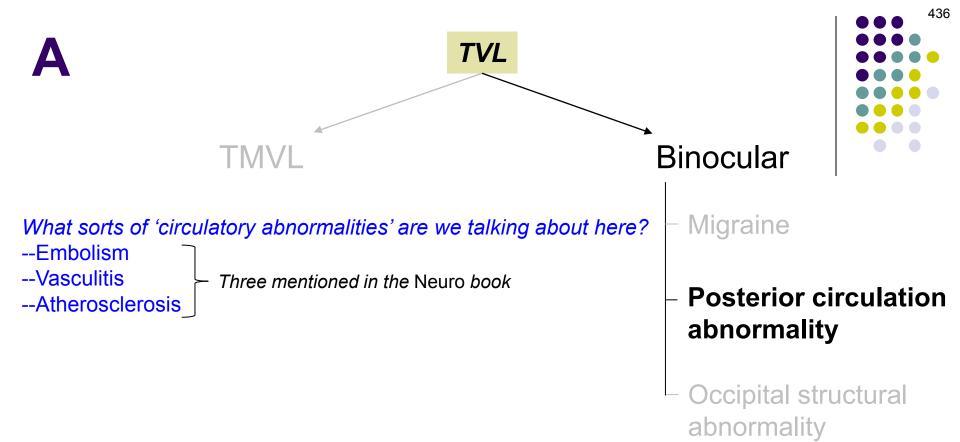
circulation

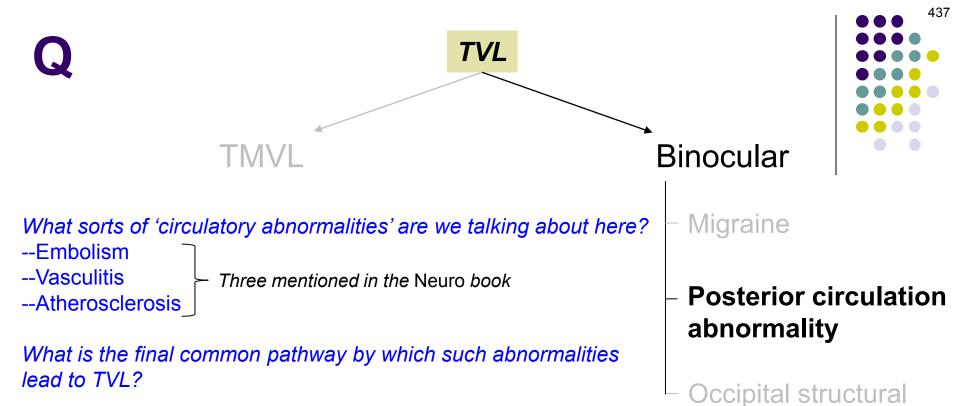
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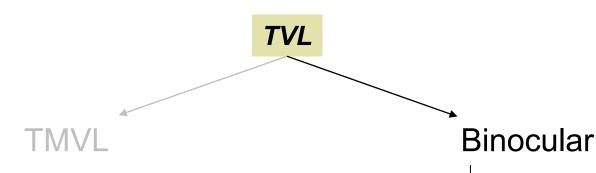






abnormality







What sorts of 'circulatory abnormalities' are we talking about here?

- --Embolism
- --Vasculitis

Three mentioned in the Neuro book

--Atherosclerosis

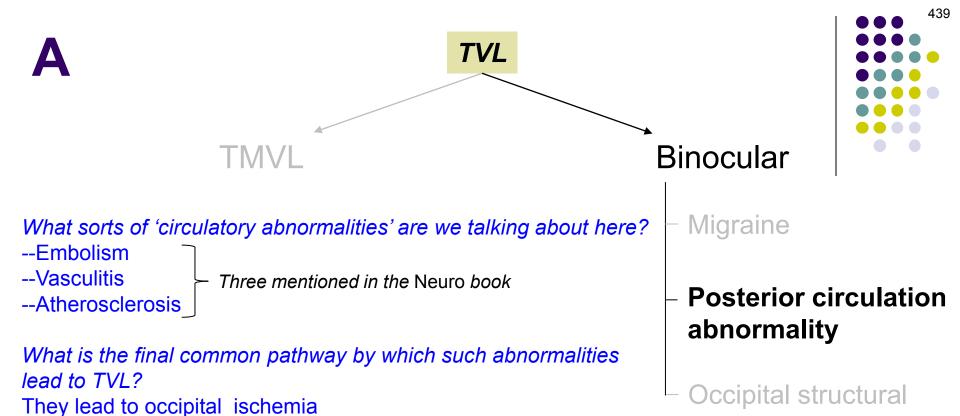
What is the final common pathway by which such abnormalities lead to TVL?

They lead to occipital

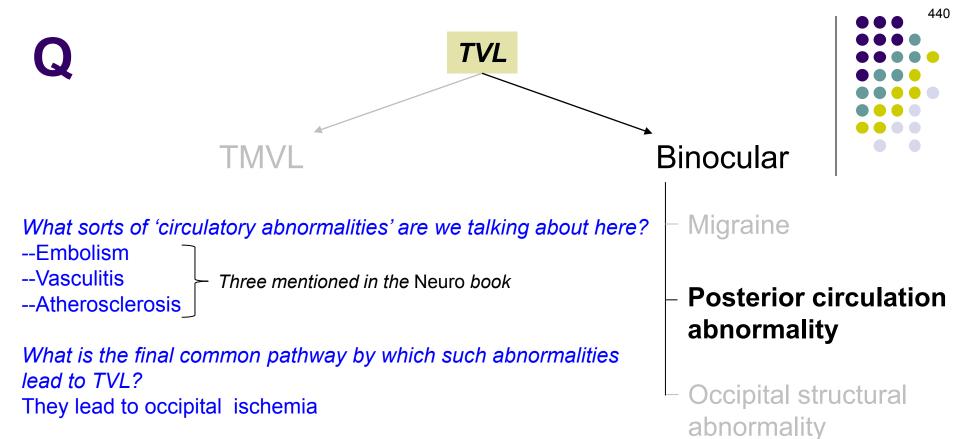
Migraine

Posterior circulation abnormality

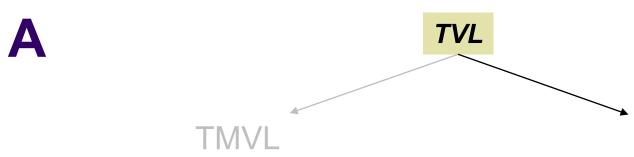
 Occipital structural abnormality



abnormality



Are these associated with HA?





Binocular

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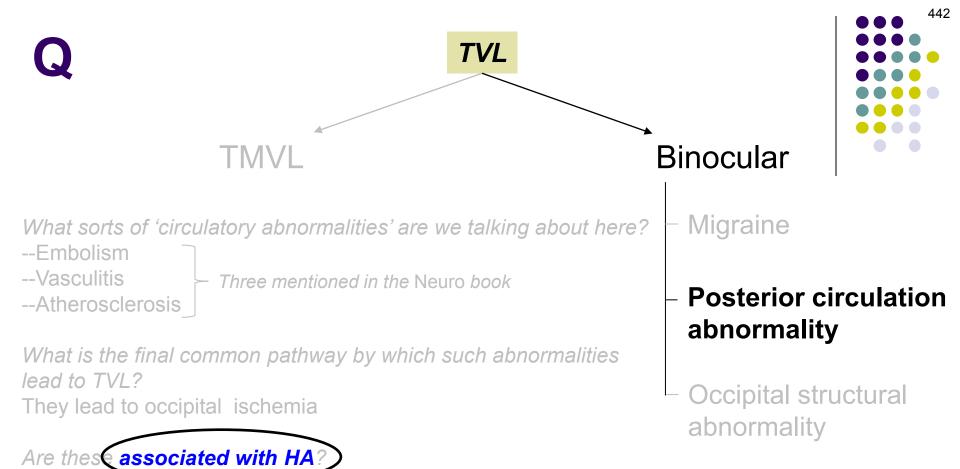
They lead to occipital ischemia

Are these associated with HA? Yes

Migraine

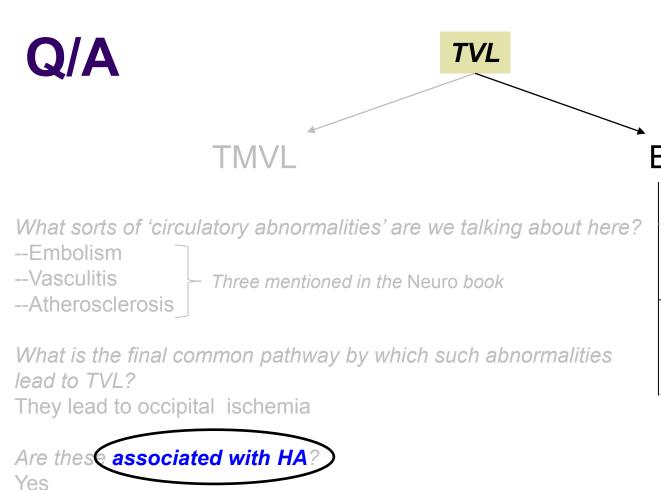
Posterior circulation abnormality

Occipital structural abnormality



HA 2ndry to these ischemic events...Where does it tend to localize?

Yes



HA 2ndry to these ischemic events...Where does it tend to localize?

In the

region

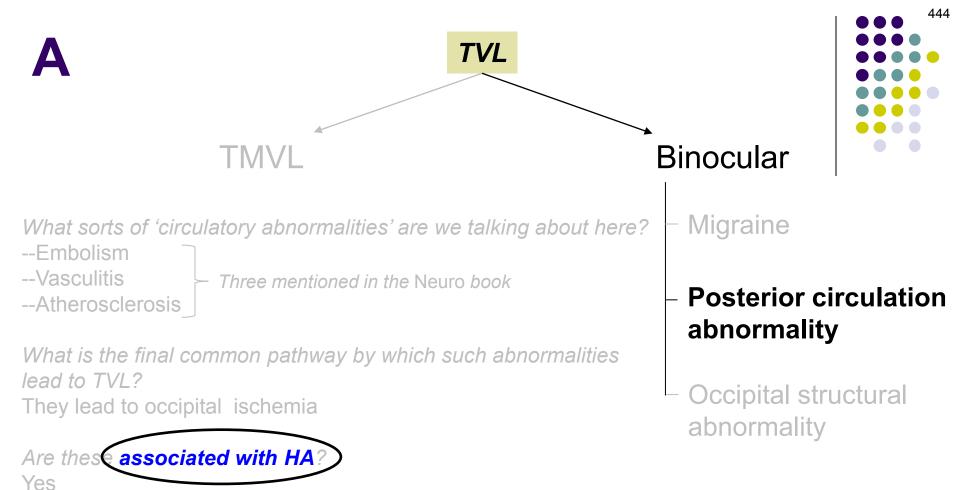
Binocular

- Migraine

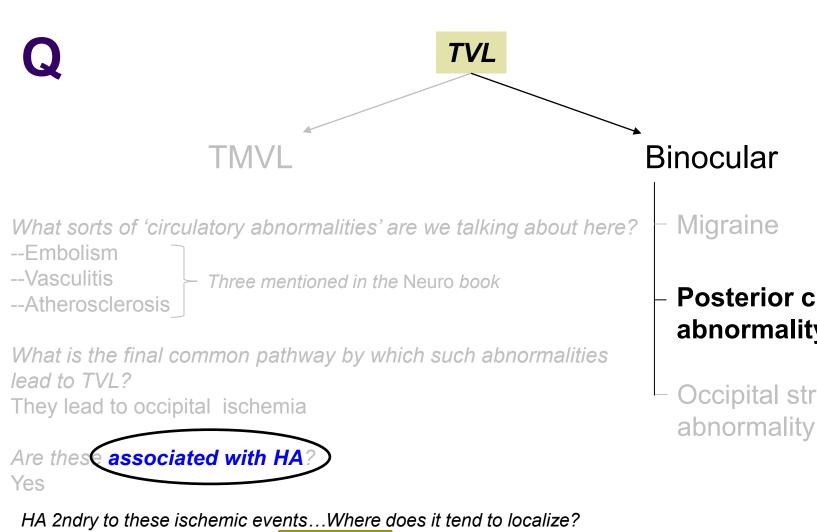
- Posterior circulation abnormality

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 Occipital structural abnormality



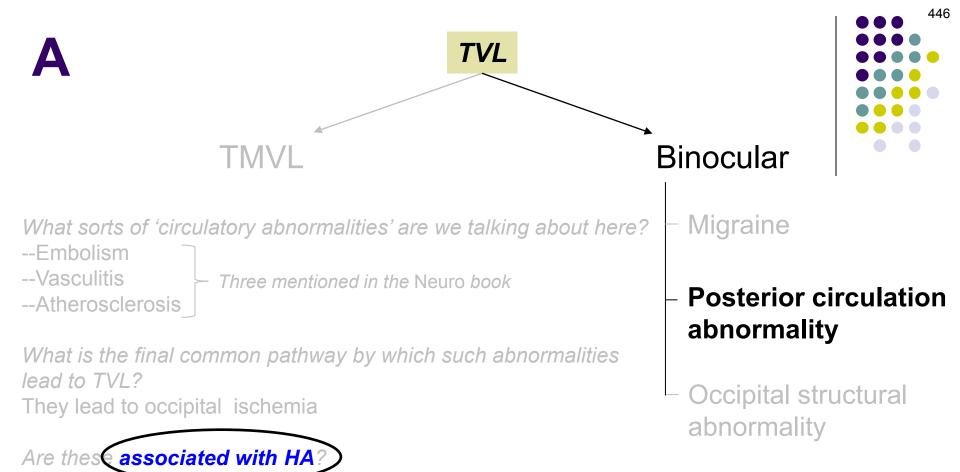
HA 2ndry to these ischemic events...Where does it tend to localize? In the brow region



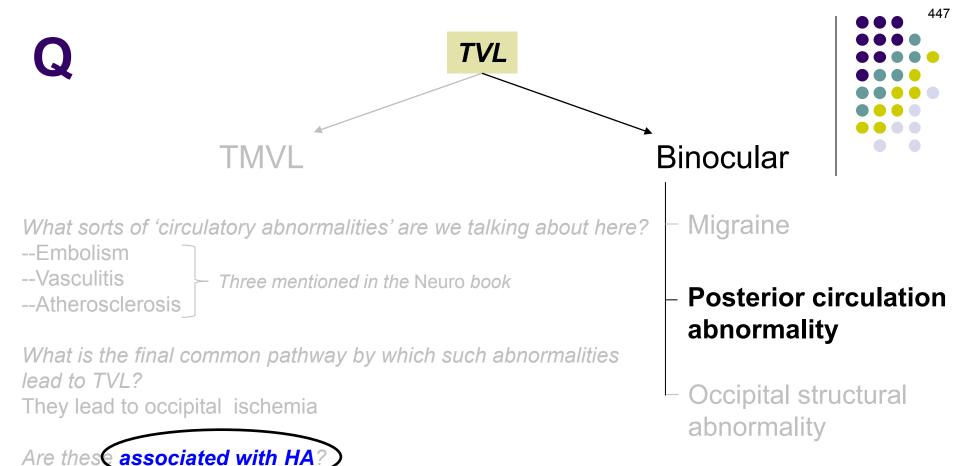
In the brow region on the side psi-v contralateral to the hemianopia

Binocular Migraine **Posterior circulation** abnormality Occipital structural

445

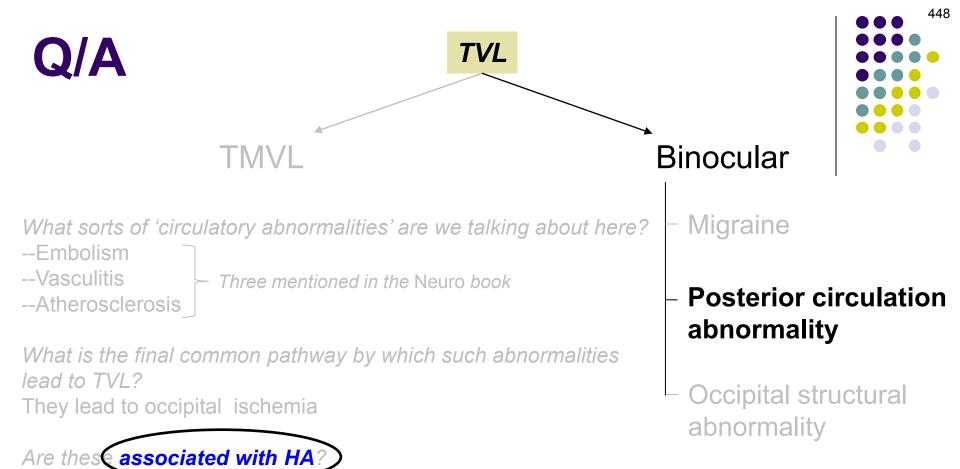


Yes



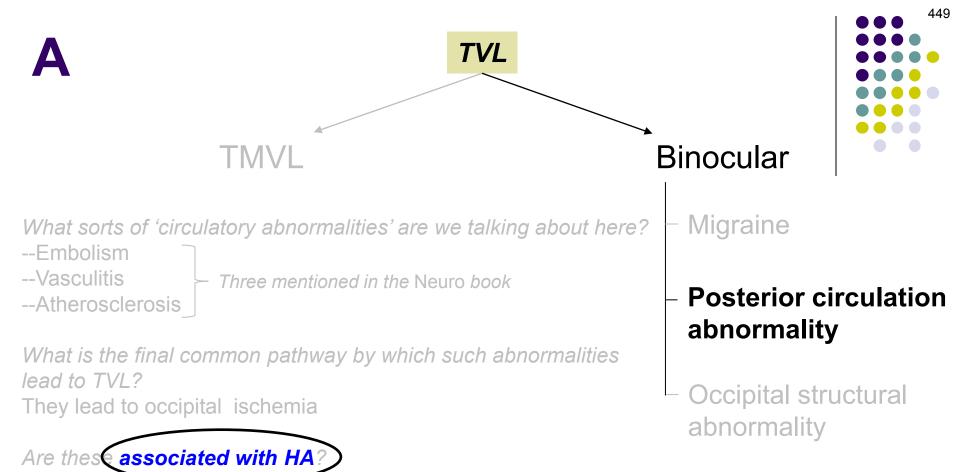
Yes

The HA of these events differ in an important respect from that of migraine-with-aura—what is it?



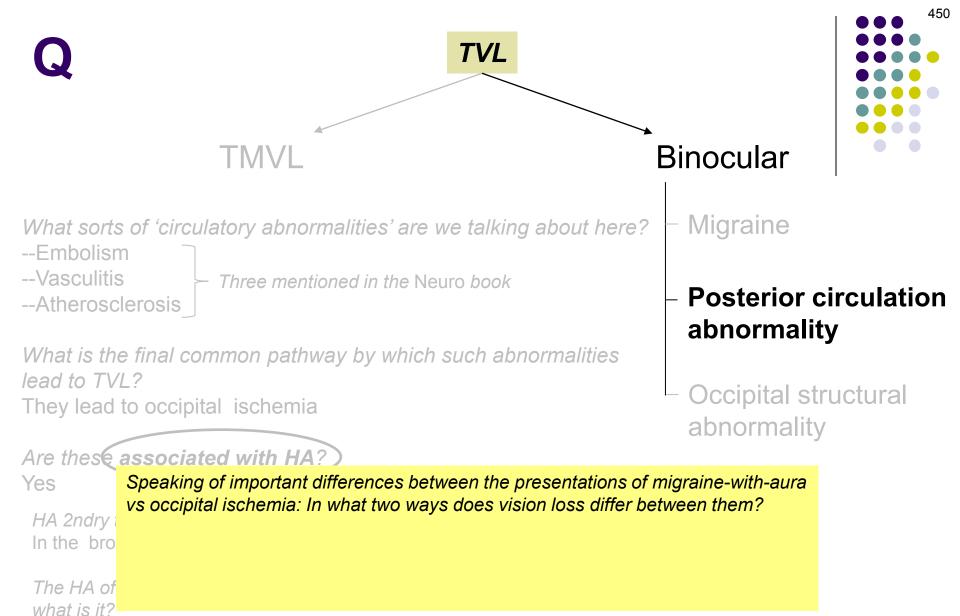
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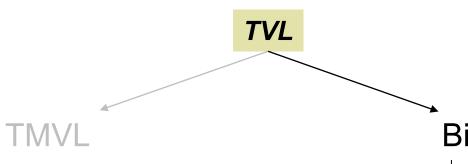


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Binocular

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- --Vasculitis

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What is the final common pathway by which such abnormalities lead to TVL?

They lead to occipital ischemia

Migraine

Posterior circulation abnormality

Occipital structural abnormality

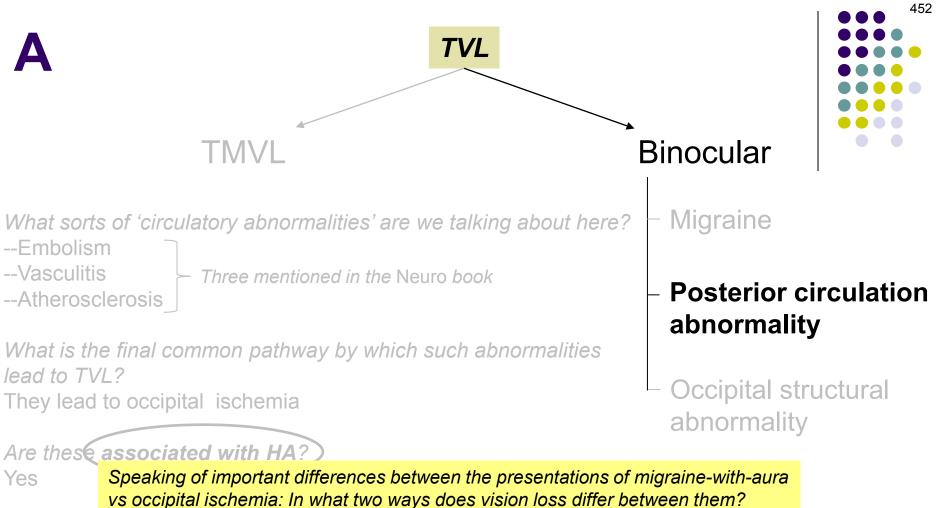
Are these associated with HA?

Yes

Speaking of important differences between the presentations of migraine-with-aura vs occipital ischemia: In what two ways does vision loss differ between them? --The onset of vision loss in occipital ischemia is...

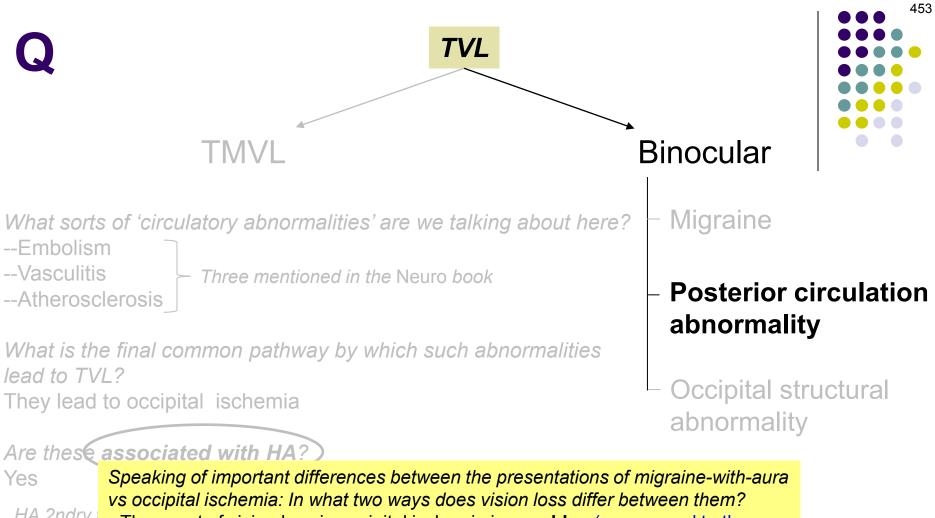
HA 2ndry In the bro

The HA of what is it?



HA 2ndry In the bro --The onset of vision loss in occipital ischemia is...sudden (as opposed to the gradual onset characteristic of migraine-with-aura)

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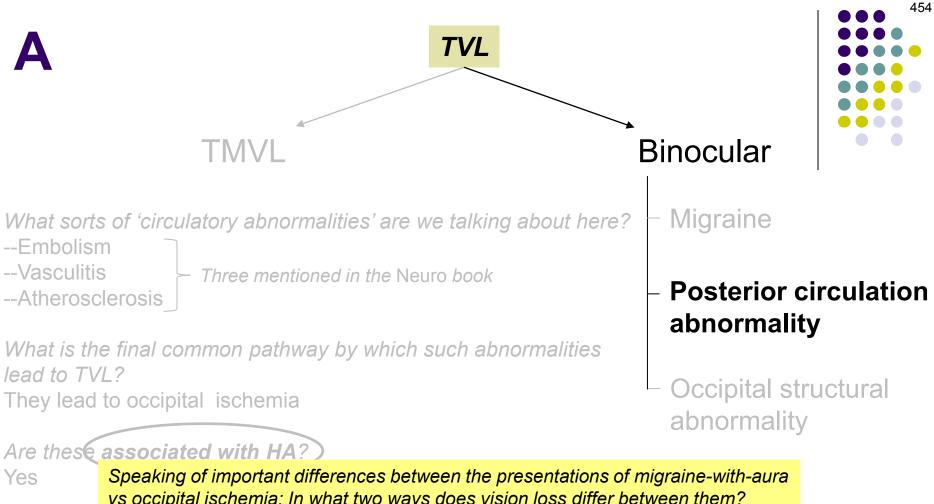


HA 2ndry In the bro

--The onset of vision loss in occipital ischemia is...sudden (as opposed to the gradual onset characteristic of migraine-with-aura)

--The duration of vision loss in occipital ischemia is...

The HA of what is it?



vs occipital ischemia: In what two ways does vision loss differ between them?

HA 2ndry In the bro

--The onset of vision loss in occipital ischemia is...**sudden** (as opposed to the gradual onset characteristic of migraine-with-aura)

-- The duration of vision loss in occipital ischemia is... brief (just a few minutes, as opposed to the 30-60 minutes typical of migraine-with-aura)

The HA of what is it?