

The Best Way to Manage the Case: Who Said it Best?
2 Hours TQ Outline



Diana L. Shechtman OD, FAAO

- PREVIOUS AD Board
 - Astellas
- PREVIOUS Speaker
 - Astella, Zeiss, Optos

1

Best way to manage this case

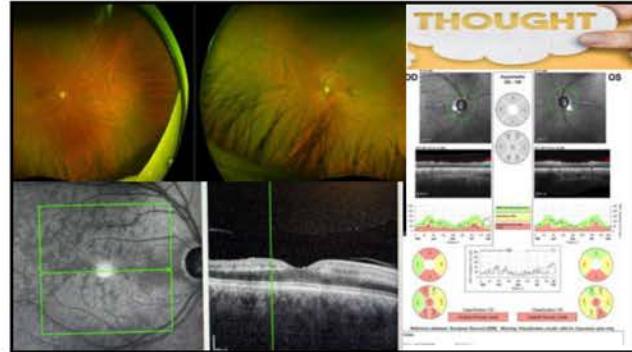
— **WHO SAID IT?**

2

57yo OTHERWISE HEALTHY HISPANIC MALE

- CC: blurred vision for few month but worse last week
 - Feels OD is just **NOT right**
 - Referred by PCP to evaluate cataracts
- BCVA 20/20 OD, OS
- IOP 23, 24 mmHg
- CF, Pupils, EOM: unremarkable
- SLE: **TRNS**
- FHx: Dad has glaucoma
- PMHx: just saw pcp
 - all annual exams UNREMARKABLE

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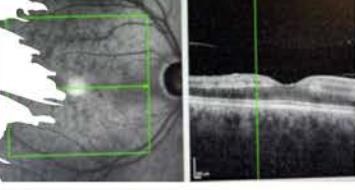


THOUGHT

Left: Fundus photo of the retina showing a bright, well-defined lesion. Right: Another fundus photo showing a similar lesion.

Bottom: A series of diagnostic images including OCT scans and corresponding graphs. The graphs show various parameters such as macular thickness, central retinal thickness, and macular volume.

4





• YES... he had **GLAUCOMA**

- Treated w
 - Latanoprost
 - Alphagan
- but he ALSO had ____?
- MANAGEMENT?

5



TODAY

PAMM may be a sign of a secondary underlying condition

- ER → workup to rule out cardiovascular conditions & possible stroke
 - Similar to RAO; requires MRI/MRA, Carotid Dopplers and echocardiogram, labs, etc



6

CONCLUSION

IMPRESSION:

- 1. No acute intracranial findings.
- 2. Focal area of FLAIR hyperintensity signal in the periventricular and subcortical white matter, most likely representing chronic small vessel ischemic disease.
- 3. MRI Orbit.
- 4. Suggestion of bilateral optic nerve atrophy. No abnormal optic nerve signal or enhancement.
- 5. MRA neck.
- 6. Normal MR angiogram of the neck. No evidence of high-grade stenosis or aneurysmal dilation.
- 7. MRA Brain.
- 8. Normal MR angiogram of the brain. No evidence of intracranial aneurysm or significant vascular stenosis.



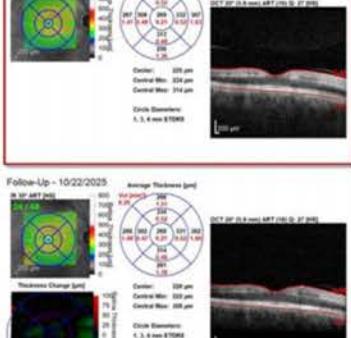
Prevention of Brain stroke

- Echo REVEALED **Perforated foramen ovale** - congenital opening in wall b/t upper atrium
- PFO may be associated with a higher risk of stroke, particularly paradoxical embolism → blood clot from VENOUS travel to ARTERIAL → leading to **cryptogenic strokes (strokes with NO identifiable cause)**
- PFO can lead to PAMM by allowing blood clot occlusion + ischemia in the capillaries

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1 week follow up

- Symptoms improve
- OCT shows improvement



Follow-Up - 10/22/2025

Average Thickness (μm)

Circle	Thickness (μm)
Outer	225
Outer Min	220
Outer Max	230
Center	214
Center Min	204
Center Max	224
Inner	205
Inner Min	195
Inner Max	215

Thickness Change (μm)

Circle	Thickness Change (μm)
Outer	10
Outer Min	10
Outer Max	10
Center	10
Center Min	10
Center Max	10
Inner	10
Inner Min	10
Inner Max	10

Circle Diameter: 1, 1.4 mm ETDRS

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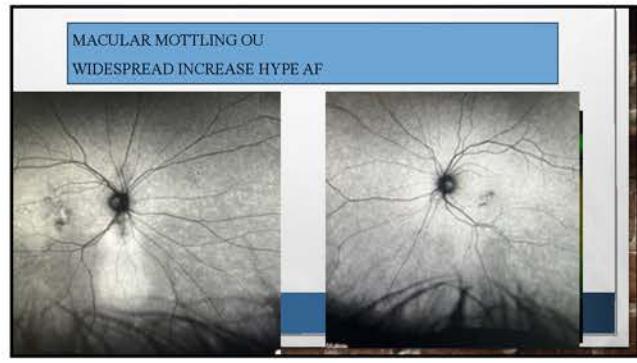
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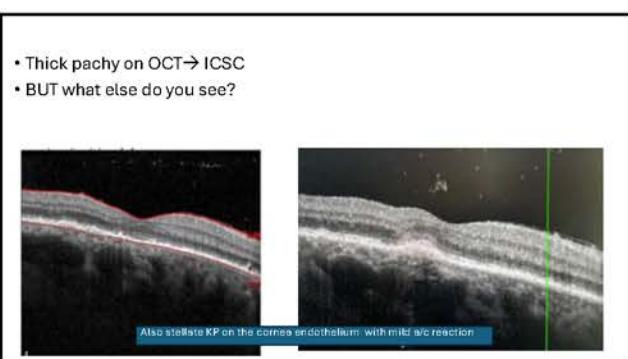
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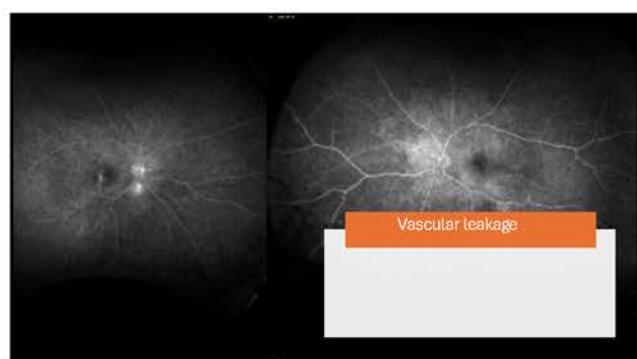
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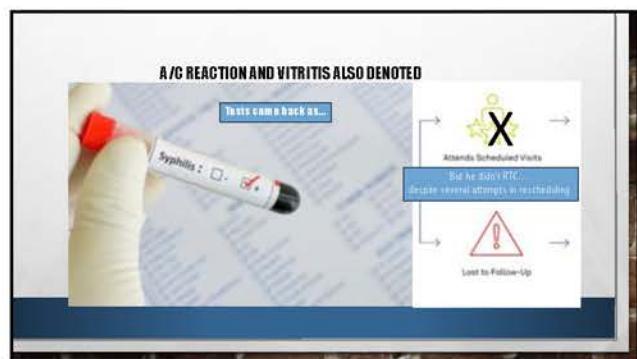
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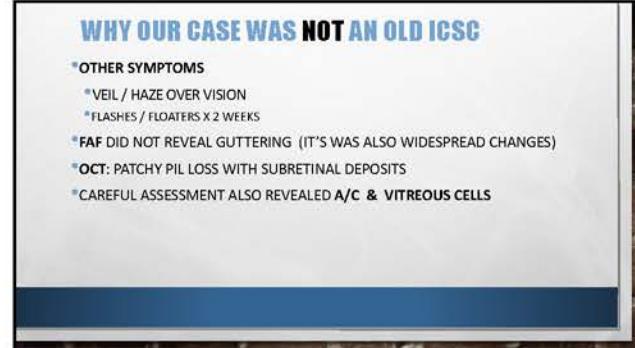
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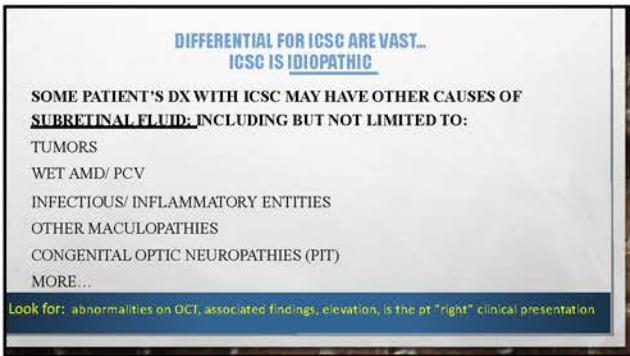
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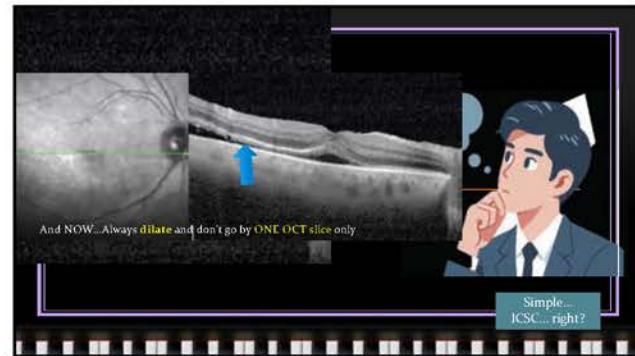
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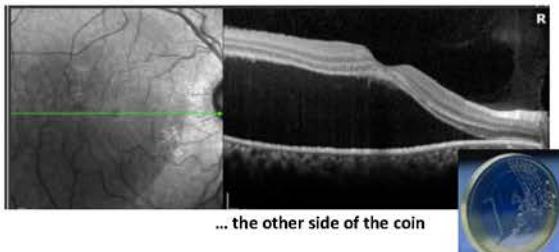


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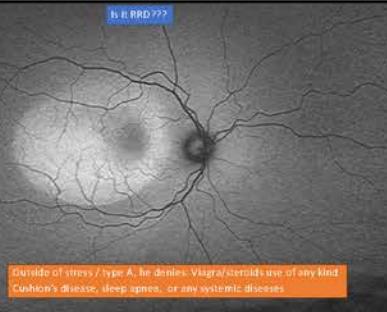


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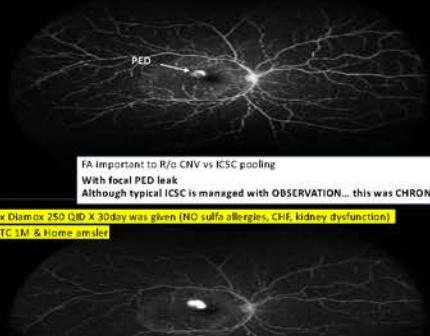
42 AM Decreased vision over 6 weeks
20/200 refer for mac off RD



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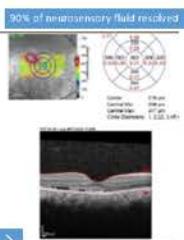
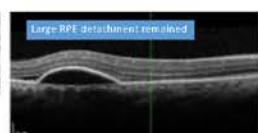
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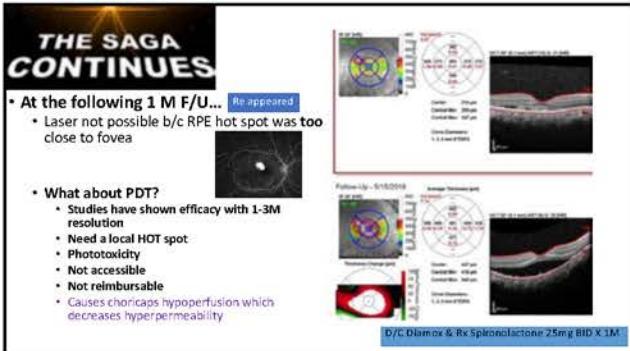
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At 1M

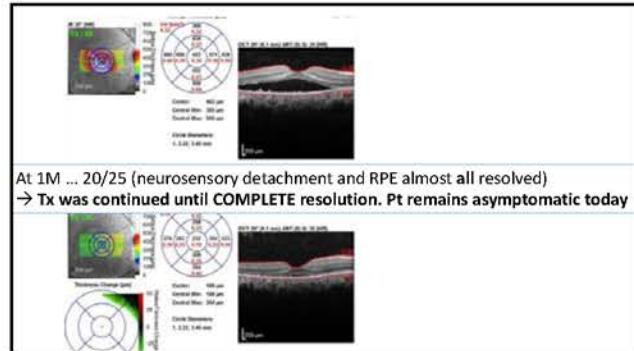
• 20/40



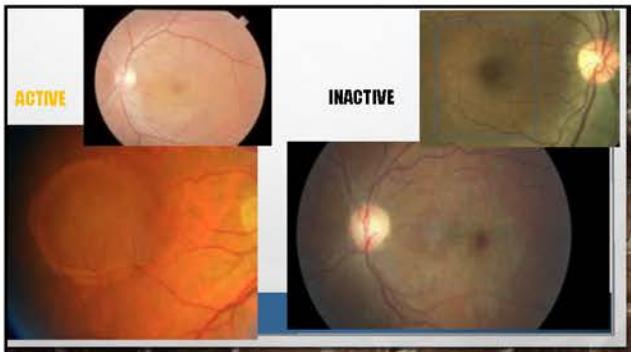
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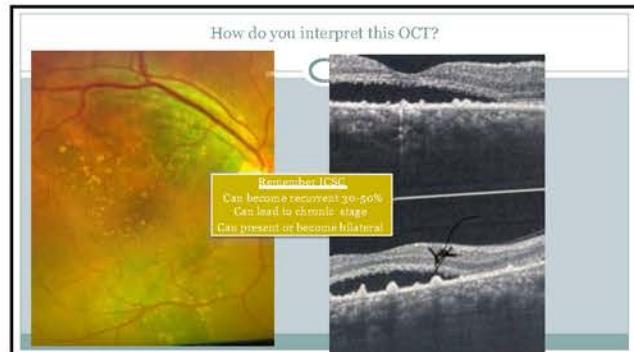
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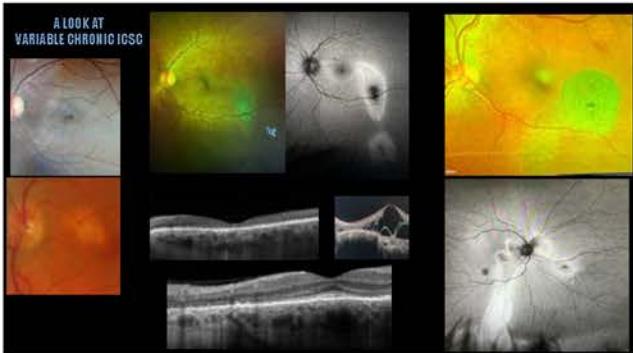
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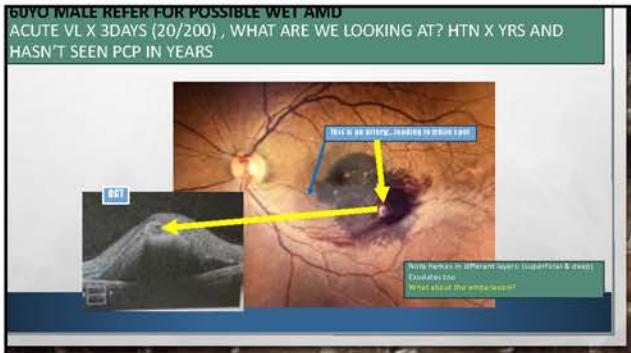
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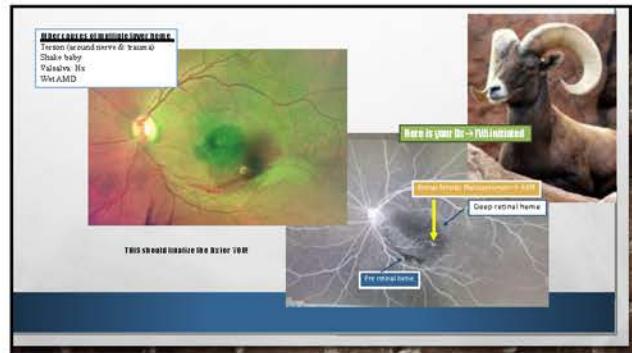
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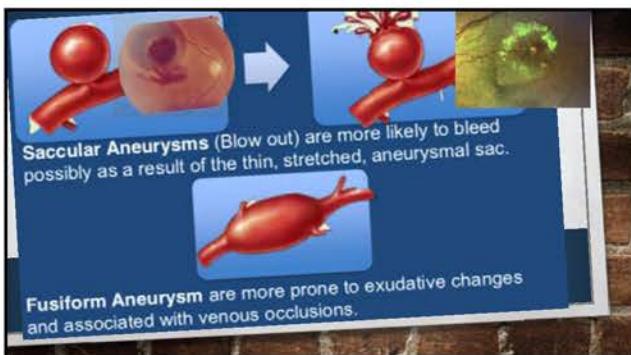
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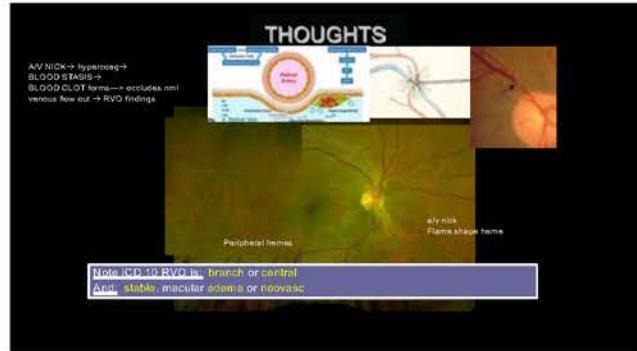
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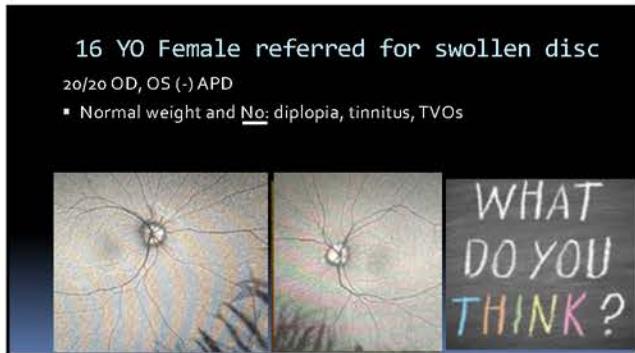
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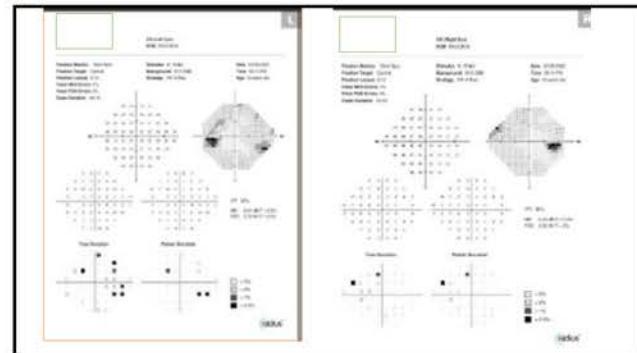
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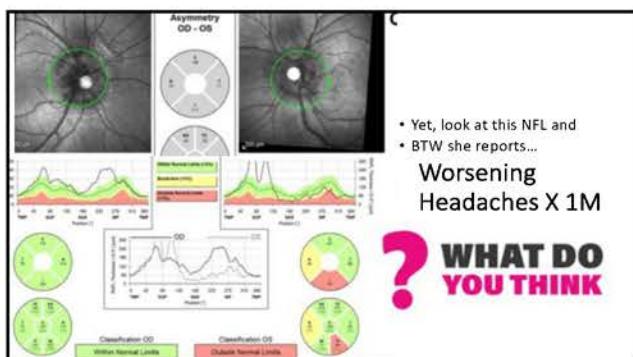
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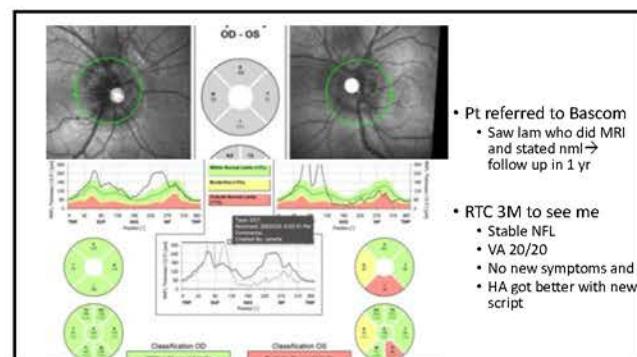
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#1 cause of Pseudopapilledema- ONHD

- ◆ Look for **anomalous branching of retinal vessels**
- ◆ CUPLESS
 - ◆ Drusen fills it in
 - > NOTE that with increase papilledema the disc will get smaller (but that's more adv stage 3-5)
 - ◆ No vessel obscuration
 - > Note with early papilledema, there may not be vessel obscuration
 - ◆ +SVP is a good thing

ONHD may be associated with:
Glaucoma, NFLD, VFD, TVoT, hemer, CNV, dr...
...it is not without its complications

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BURIED DRUSEN

Dark rim
No visible drusen
Younger pt

Yellow look
Visible older pt

Superficial ONHD may be enhance with RF

The margin will still look ELEVATED in ONHD, but NOT obscuration of vessels at the rim
NOTE: CUPLESS disc, ALL vessels seem to come from center with some anomalous trifurcation

and krim can also help enhance ONHD

50

ONHD look

VFD can occur

51

NON ONHD: Pseudopapilledema

- ◆ Crowded/small
 - ◆ Hyperope (< 1.5 dics area)
- ◆ Myopic disc: **Tilt/oblique**
 - > Swelling usually sectoral: nasal > +/- pale temporal

Small disc
NFLA may show blurring

Myopic displacement

Tilt has conneopia look

Tilt/oblique "D-shape" insertion
With small inferior vessels

FPA tilt
Note tilt NFL on OCT

All have small cups

Look: severe BUT there is NO vessel obscuration

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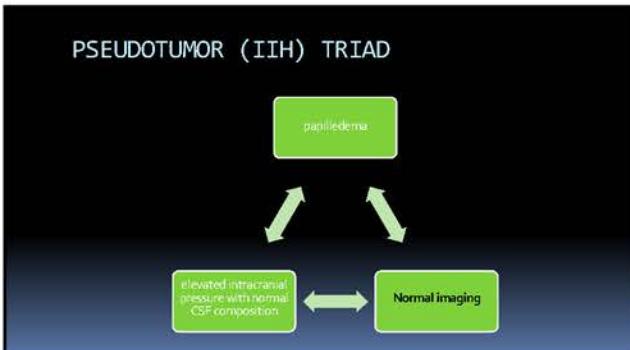
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Pt referred for MRI to ER; it was done and found to be UNREMARKABLE but...

I spoke with pcp and sent to ER, person who did her mri told her to find a real doctor and said they didn't see anything. I just wanted to make sure I'm not crazy before I call the pcp back, although how can that be anything but edema

- Just because MRI unremarkable does NOT mean they don't have papilledema... only means they don't have a TUMOR!

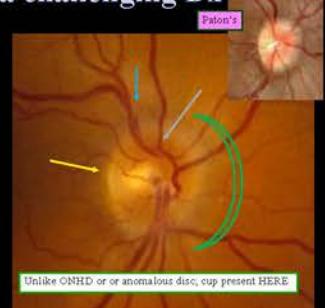
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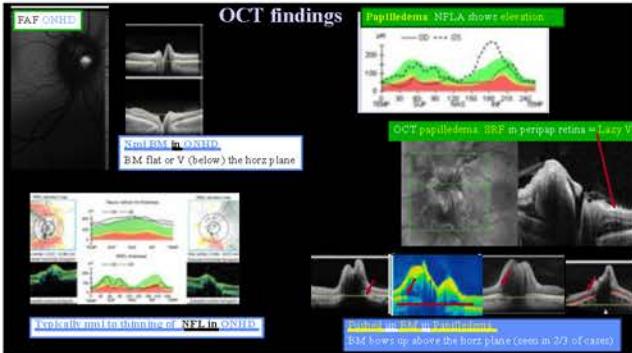
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Early papilledema is a challenging Dx

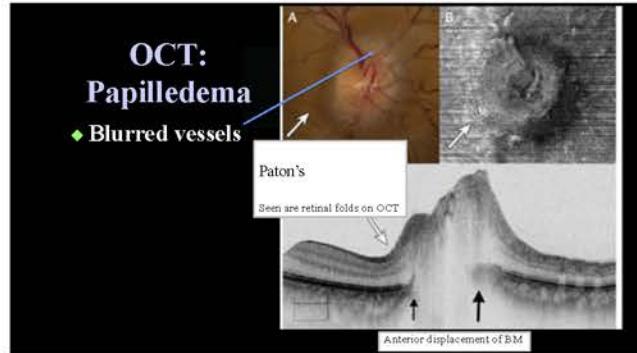
- ◆ C-shape feathery (halo) border
 - NFL swells sup/inf 1st
 - Temporal **not** affected
- ◆ Look for striation on retina
 - But vessels not obscure
- ◆ SVP (-)



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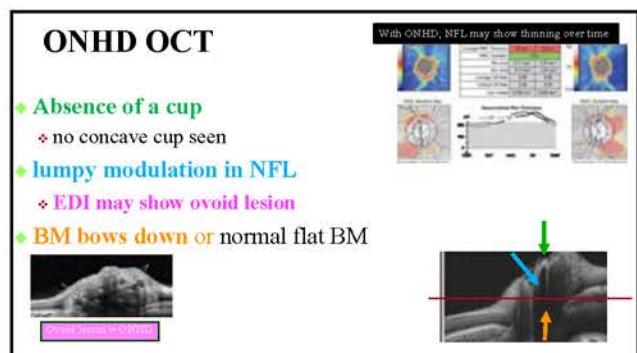
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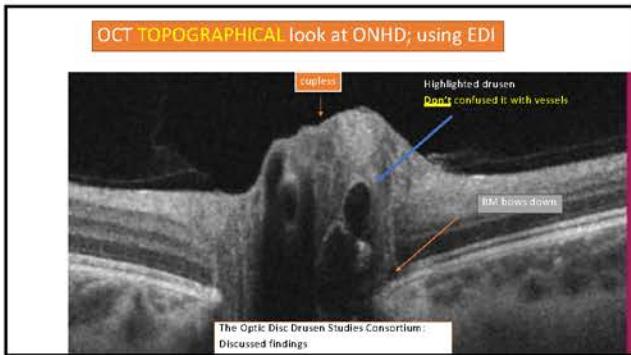
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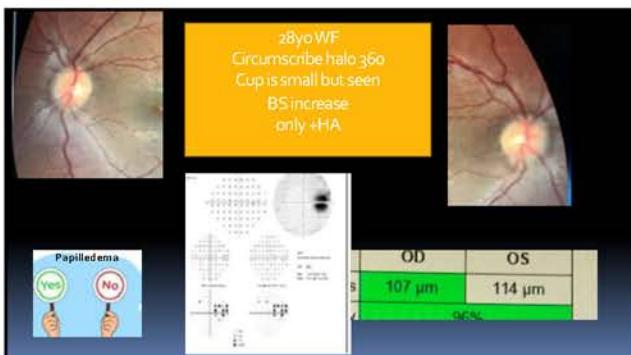
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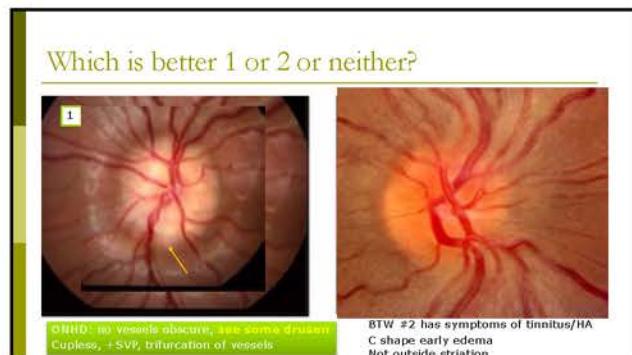
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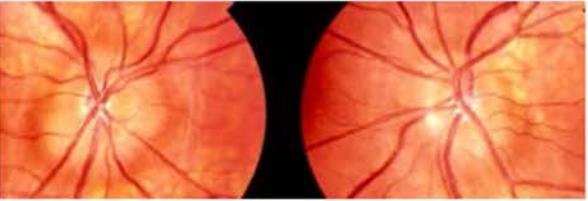


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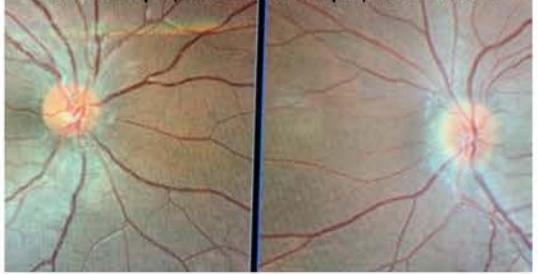
Are you worried: 9 yo



BTW (+) SVP
 Cupless, no vessels obscure, asymptomatic

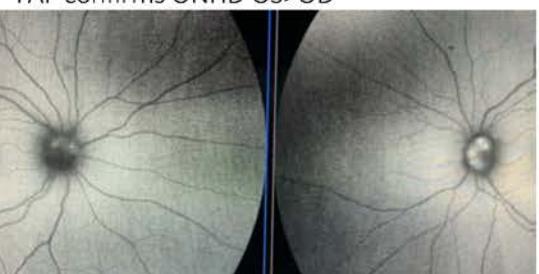
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23 YO with HA/slightly overweight
Pseudopapilledema or papilledema ?



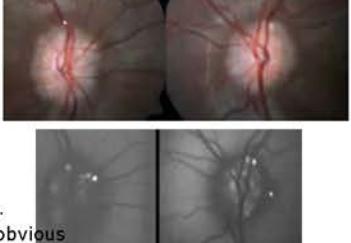
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FAF confirms ONHD OS>OD



68

Papilledema or ONHD?



And now...
 This was obvious

69



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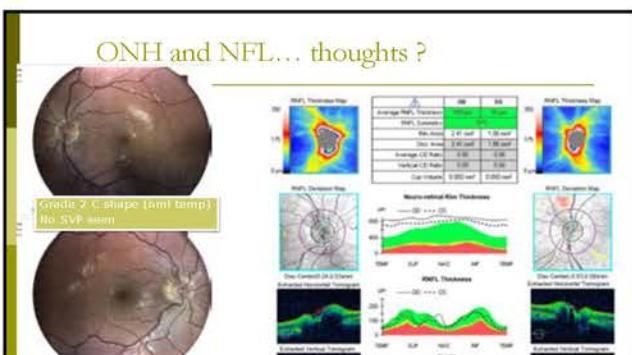
33 yo female

□ FLD referral

□ Medical history

- Back surgery 1.5 years ago
- Occasional headaches; they were worse before
- Hx of tinnitus no longer
- No TVO no diplopia
 - CT: EP
- Lost 60 lbs in a year

71



72

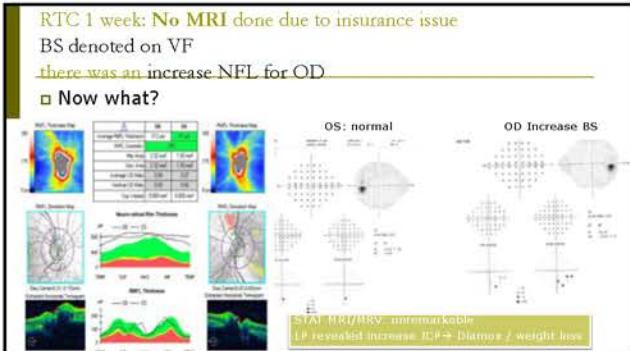
More info

□ Pt has neurologist who is managing and has ordered MRI and MRA

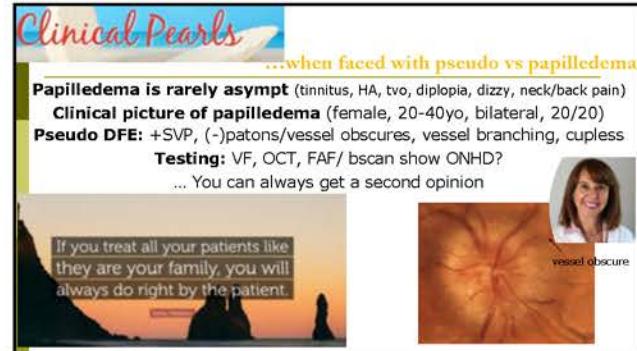
- I had pt come back in 1 week to assure DX and management w neurologist



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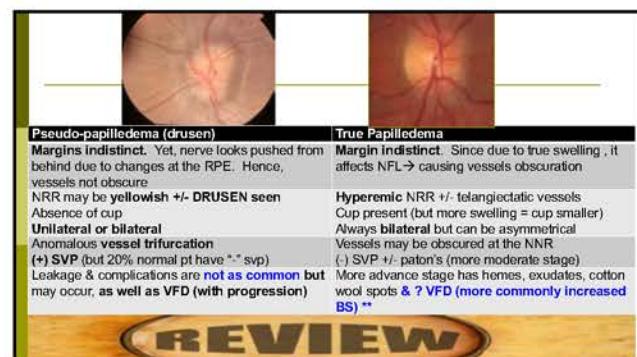
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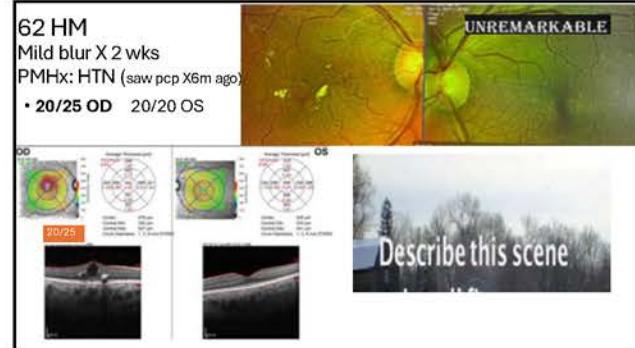
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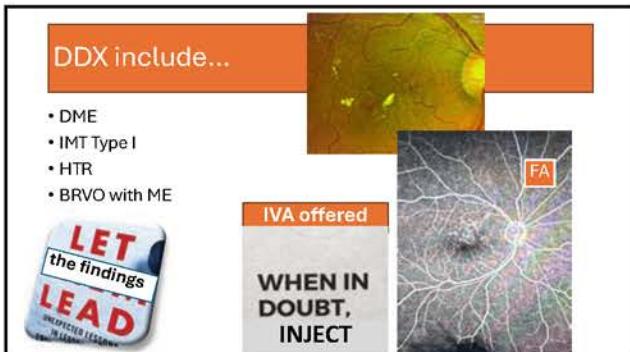
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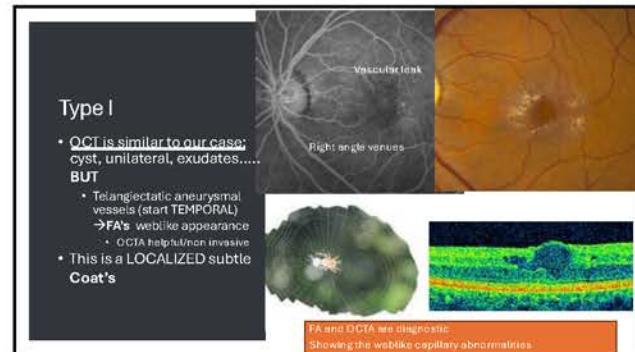
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	<p>Is it just a scar?</p> <p>58 Haitian female</p> <ul style="list-style-type: none">• CC: Decreased vision OS x several months• PMHx:<ul style="list-style-type: none">• DM X 5-7 yrs• HTN X 5-7 yrs• Meds:<ul style="list-style-type: none">• Insulin• CAI	
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	<p>Examination</p> <ul style="list-style-type: none">➢ EVA: 20/25 OD 20/50 OS➢ Pupils: equal, round & reactive OU, (-) APD➢ SLE:<ul style="list-style-type: none">➢ (-) NVI OU➢ Mild NS OU	
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So what do you think?

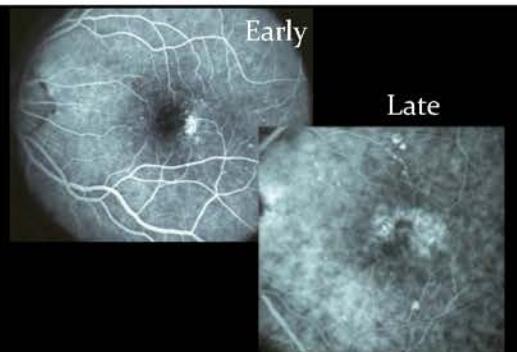
- A. Dystrophy
- B. Bilateral traumatic maculopathies
- C. Idiopathic macular telangiectasia
- D. Age-related macular degeneration



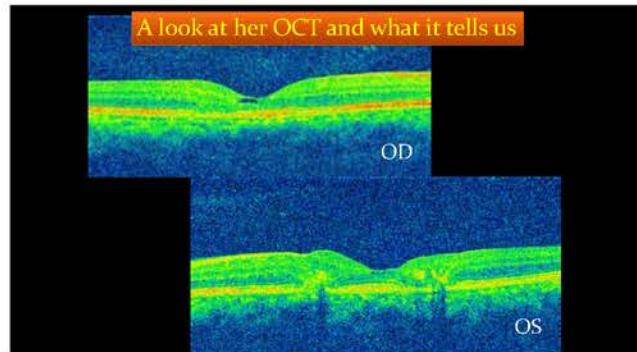
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What test can help confirm
the Dx?

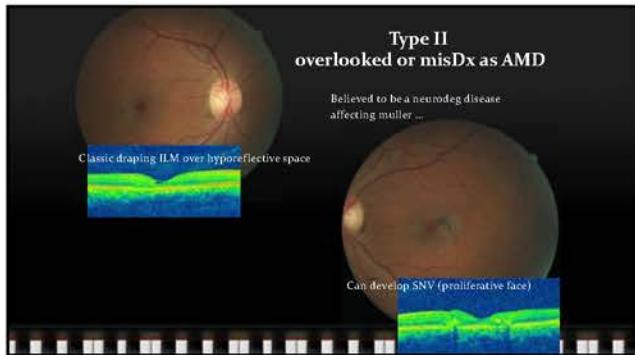
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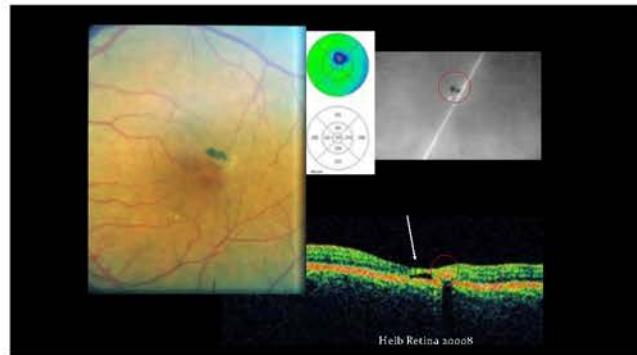
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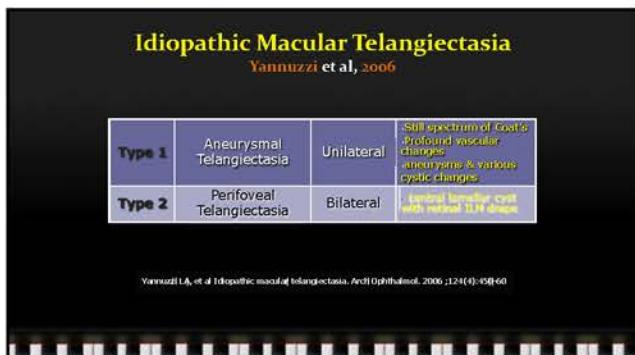
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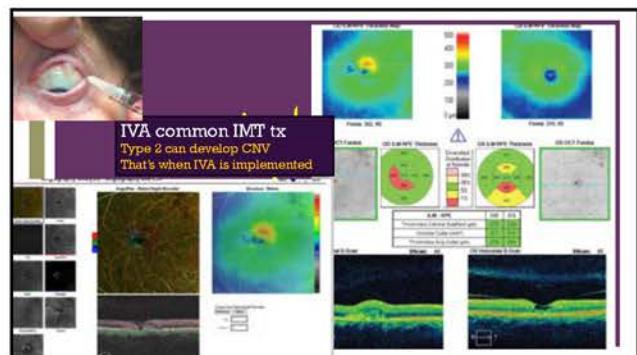
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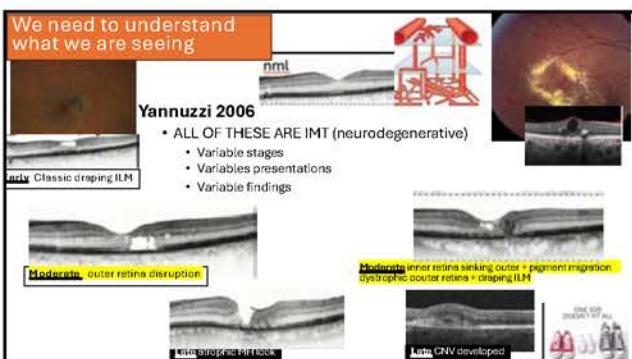
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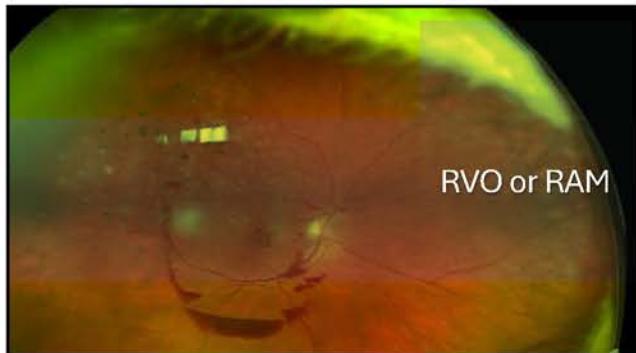
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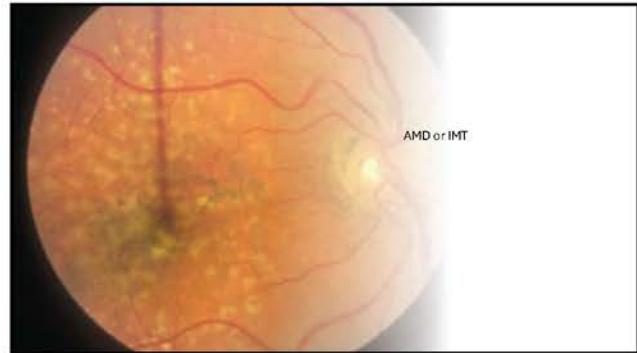
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Quiz better 1 or 2 or neither?

Two fundus photographs labeled 1 and 2. Photograph 1 shows a fundus image with a small yellow lesion. Photograph 2 shows a fundus image with a large, well-defined yellow lesion. Below the images is the text "And #2 has symptoms".

105

Are you worried: 9 yo

Two fundus photographs of a 9-year-old patient. The text "Are you worried: 9 yo" is at the top. Below the images is the text "□ And they have (+) SVP".

106

Are you worried: 28 normal weight

Hx of headaches



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