

APAOS Meeting-EVRS Symposium-
Guangzhou 2015

SURGERY FOR NANOPHTHALMUS RELATED RETINAL DETACHMENT



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TURKEY



Pathophysiology

Mechanism of exudative RD

- Abnormally thick sclera (glycosaminoglycans)
- Increased resistance to transscleral outflow
- Compress vortex veins,
- Congestion of choroidal veins
- Exudative RD

Gass JDM

- Unsuccessful Vortex Vein Decompression surgery!
- Serous RD resolved in spite of the rupture of vortex vein during vortex vein decompression
- “Subretinal fluid is absorbed by transscleral way, not through vortex veins.”

Solution

- Scleral thinning surgeries!
- Scleral window surgery
- Partial sclerectomy
- 4 quadrant

Johnson MW and Gass JDM.
Surgical management of the idiopathic uveal effusion syndrome.
Ophthalmology, 1990; 97: 998.

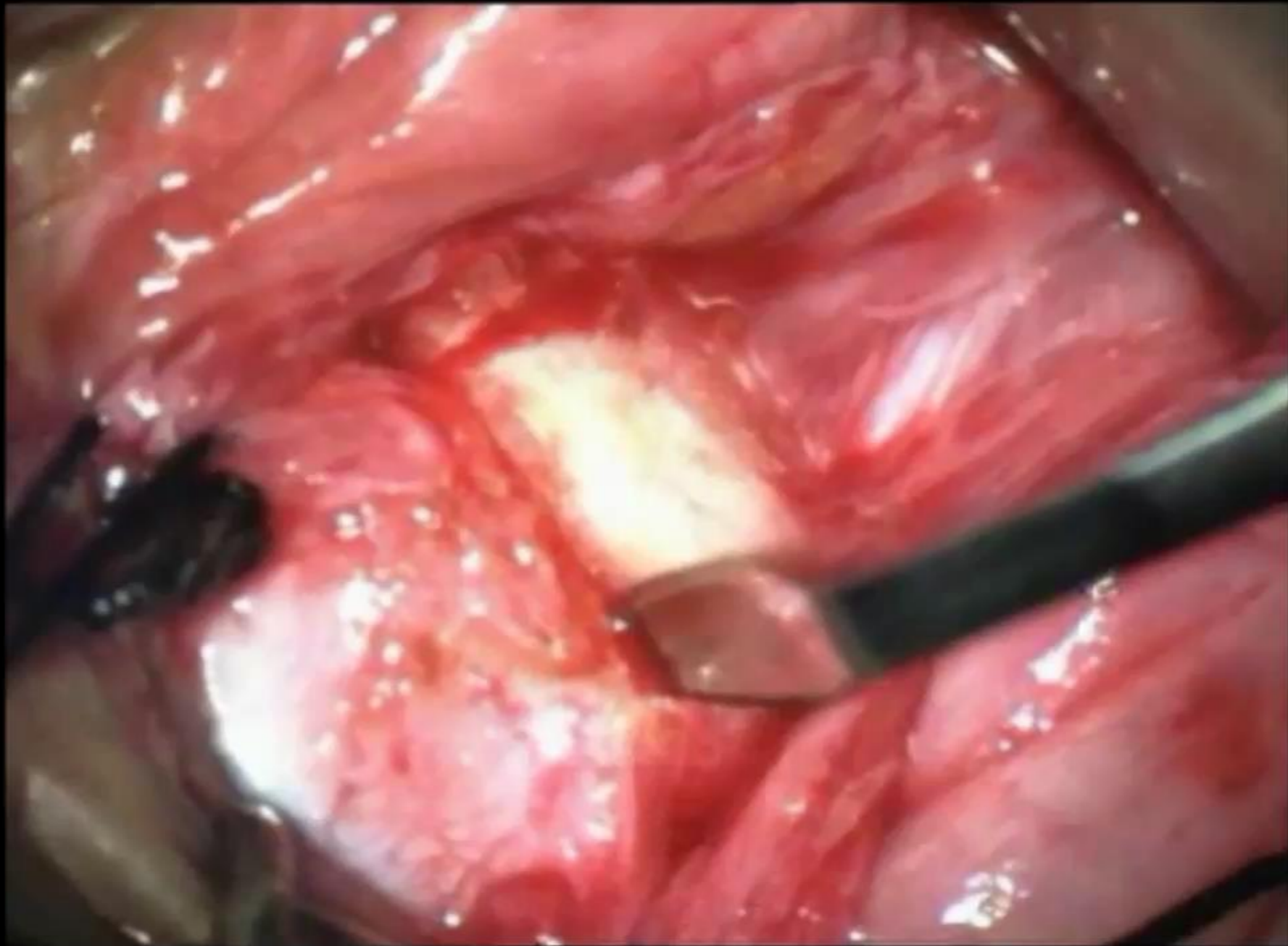
Patients

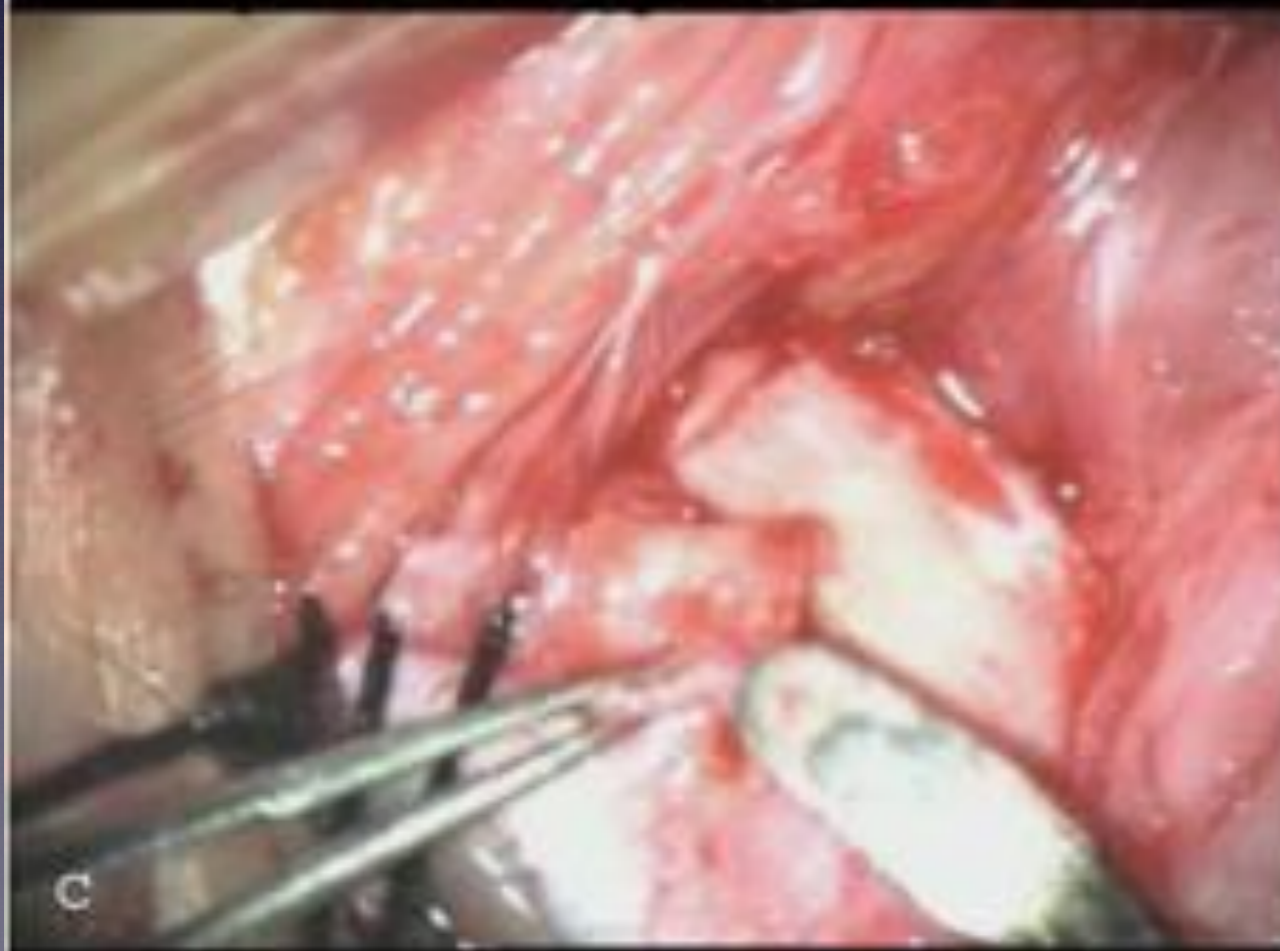
- 10 eyes of 7 patients
- 2 patients with bilateral exudative RD
- 1 with bilat. macular RD + peripheral pigmentary retinopathy

Surgical Method

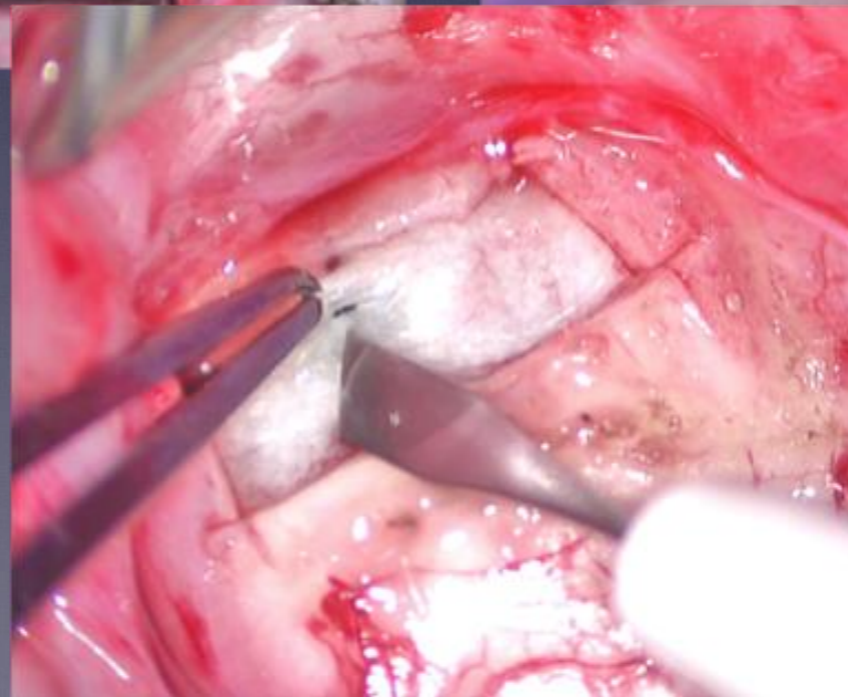
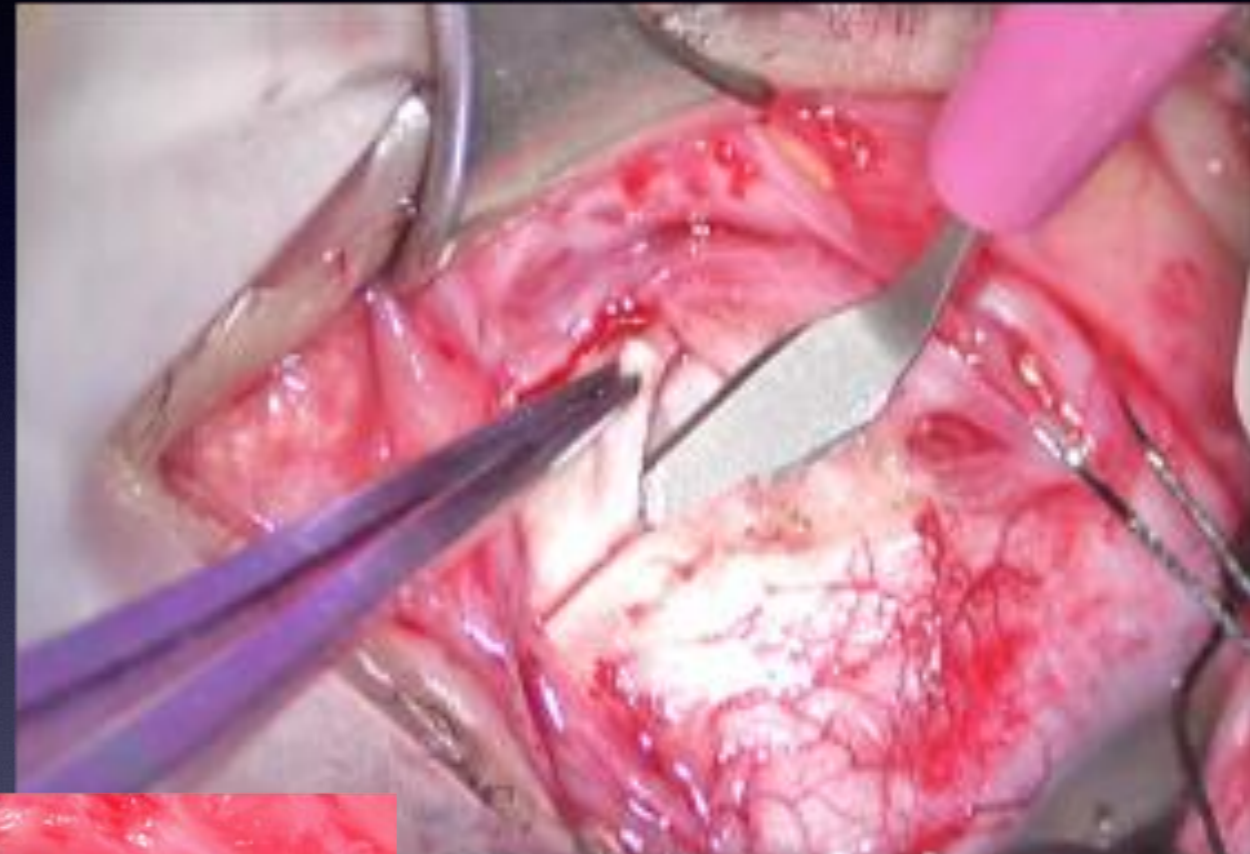
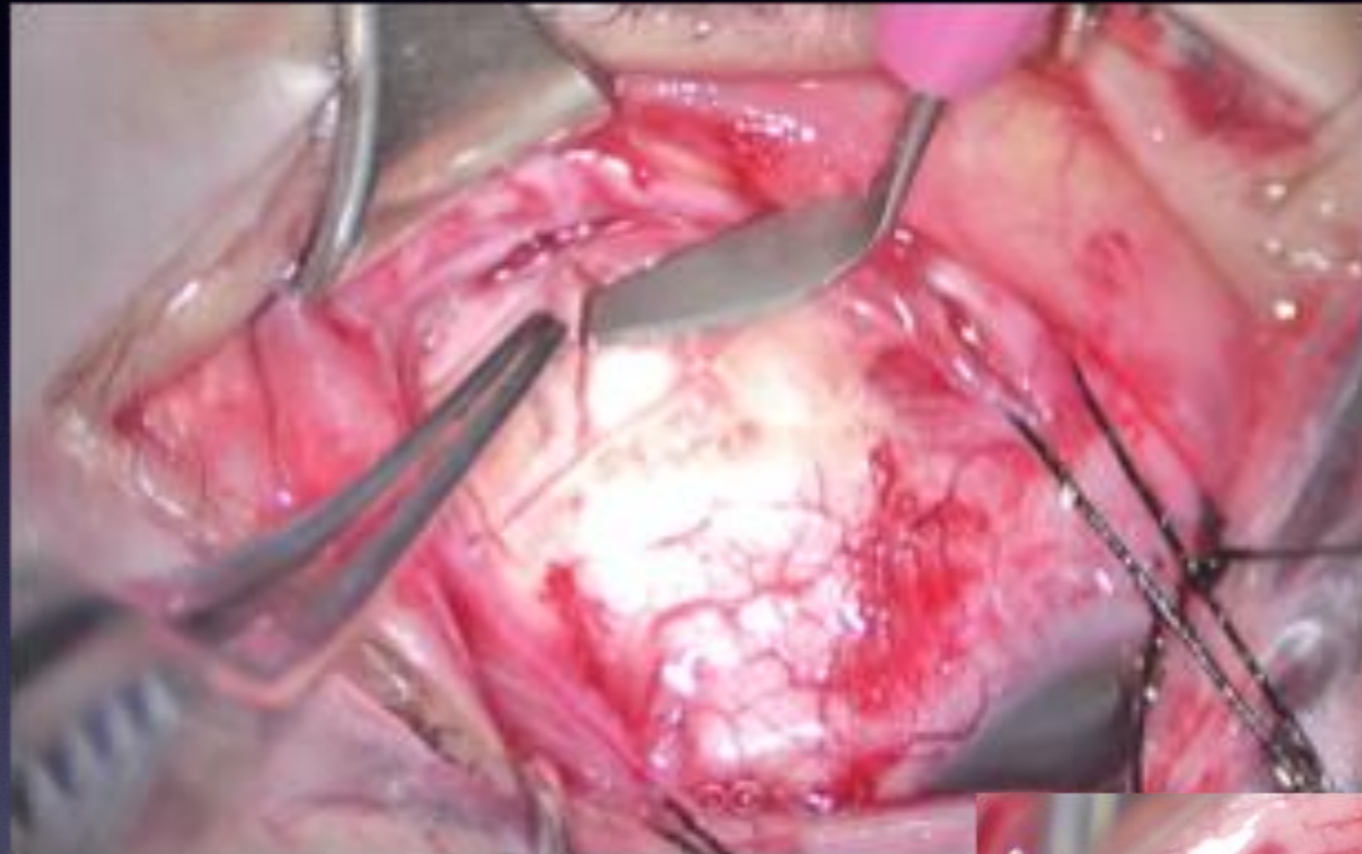
- 4 quadrant sclerectomy: 8 eyes
- 2 quadrant sclerectomy: 2 eyes

4-Quadrant Partial Sclerectomy





2-Quadrant (inferior) Partial Sclerectomy



Results

Case #	Eye	Axial Length (mm)	Age	Pre-operative BCVA	Final BCVA	Peripheral/Macular RD	Reattachme nt
1	OD	13.3	24	20/400	20/100	Peripheral	(+)
	OS	12.8	26	20/200	20/100	Peripheral	(+)
2	OS	14.0	26	20/400	20/100	Peripheral	(+)
3	OD	16.5	24	20/200	20/100	Peripheral	(+)
	OS	16.5	24	20/200	20/100	Peripheral	(+)
4	OD	16	48	HM	20/100	Peripheral	(+)
5	OD	16	14	20/400	20/200	Macular	Recurrence
	OS	16	14	20/400	20/200	Macular	Recurrence
6	OD	16	21	CF (1m)	CF (2m)	Peripheral	(+/-)
7	OD	17	51	CF1M	20/60	<u>Retina+choroidal</u>	(+)

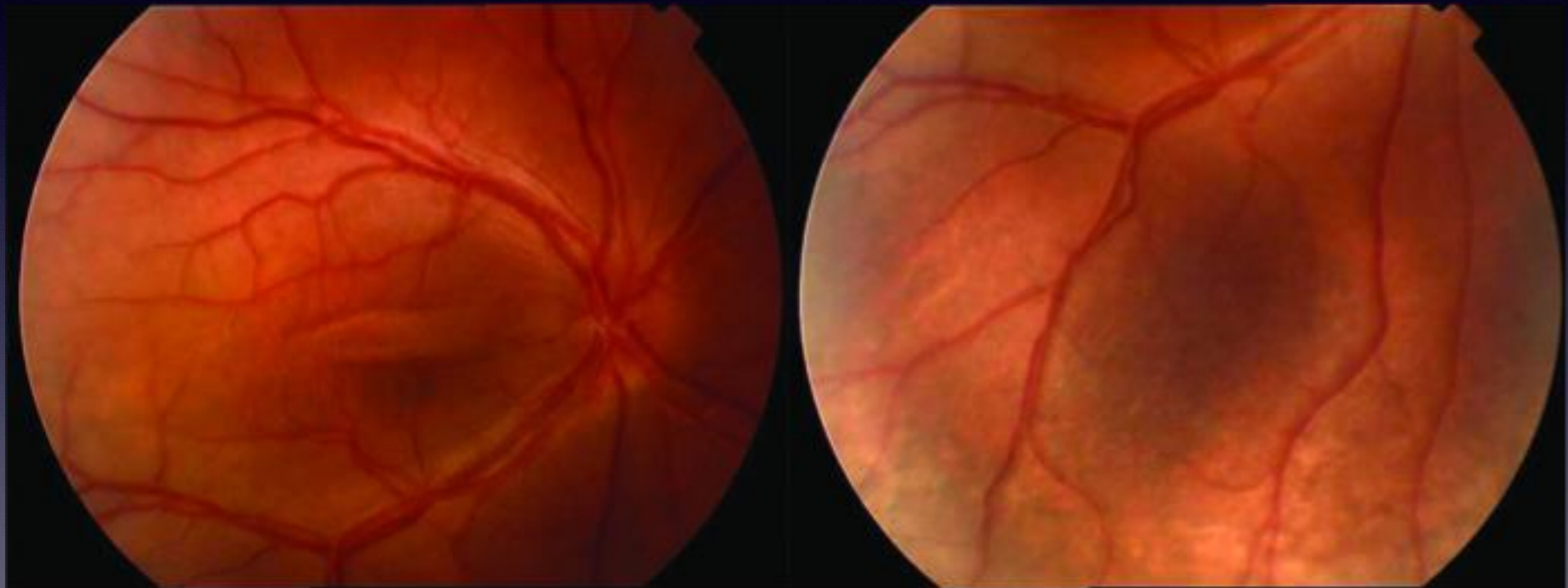
24-y-old male,

Peripheral exudative RD & Macular folds OU
Bullous inferior detachment (OD)

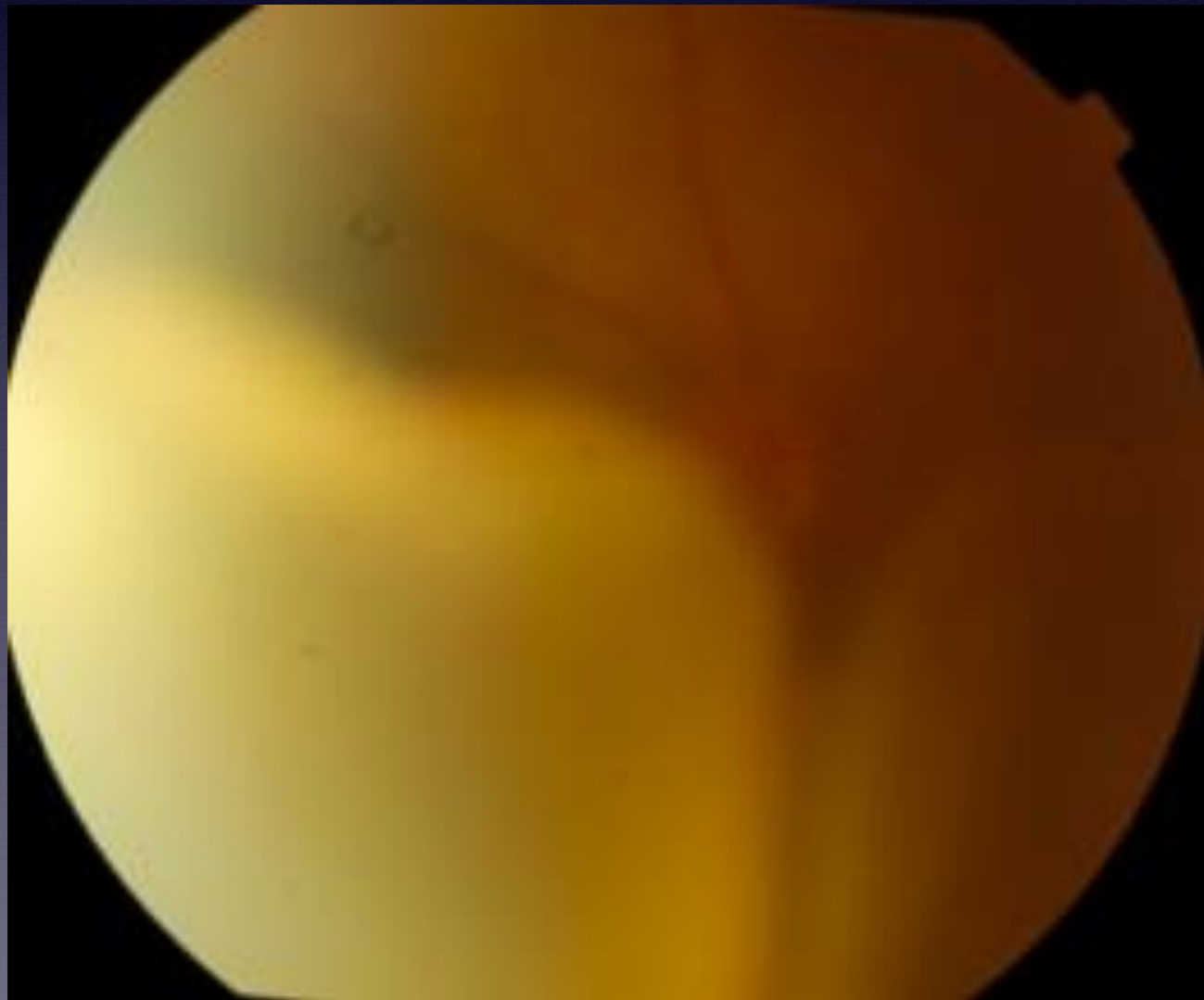


BCVA: 20/200 (+16.0D) OU AL: 17.5mm OU

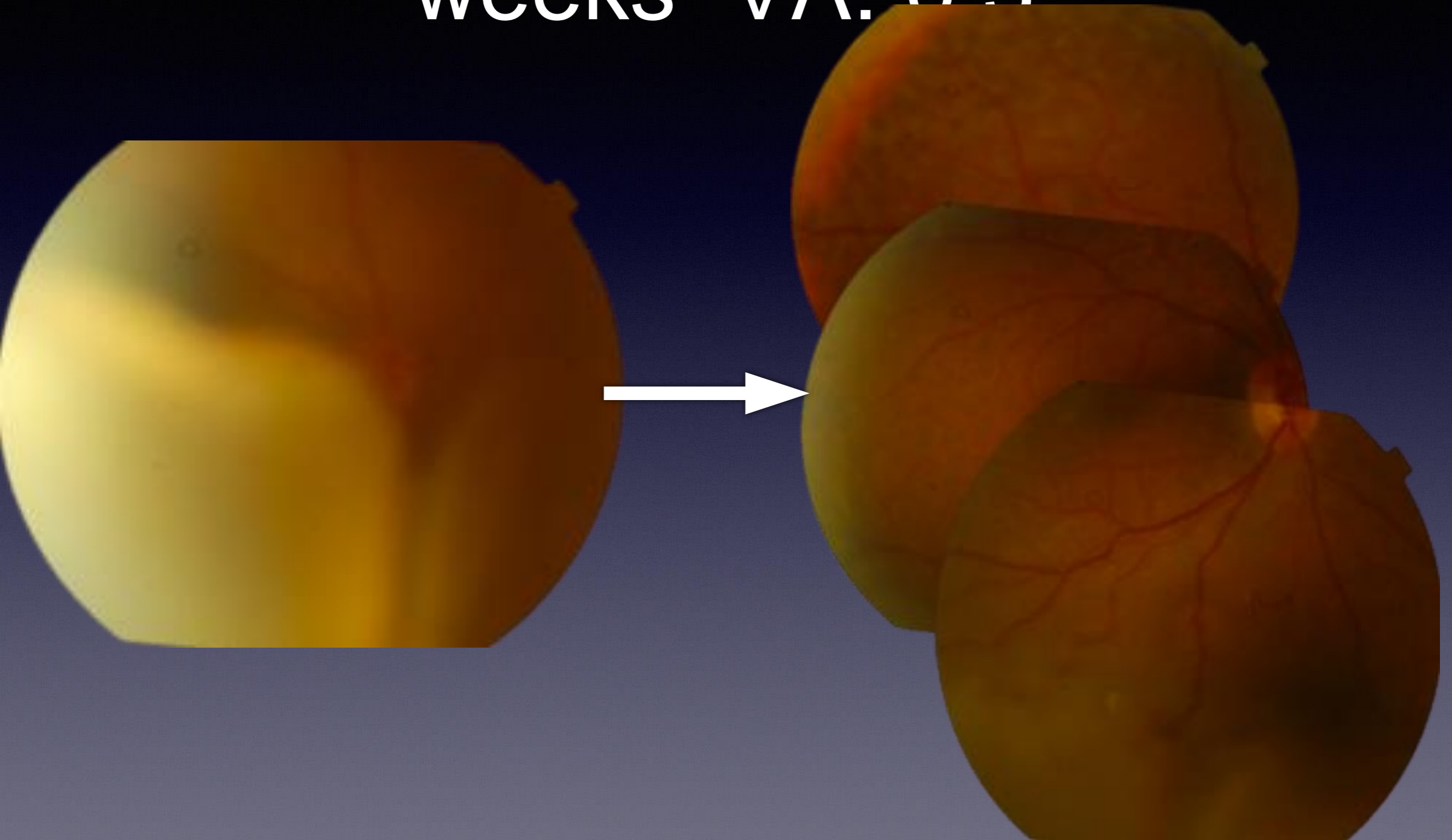
4 quadrant scleral window
surgery:
Complete Resolution: 2 weeks



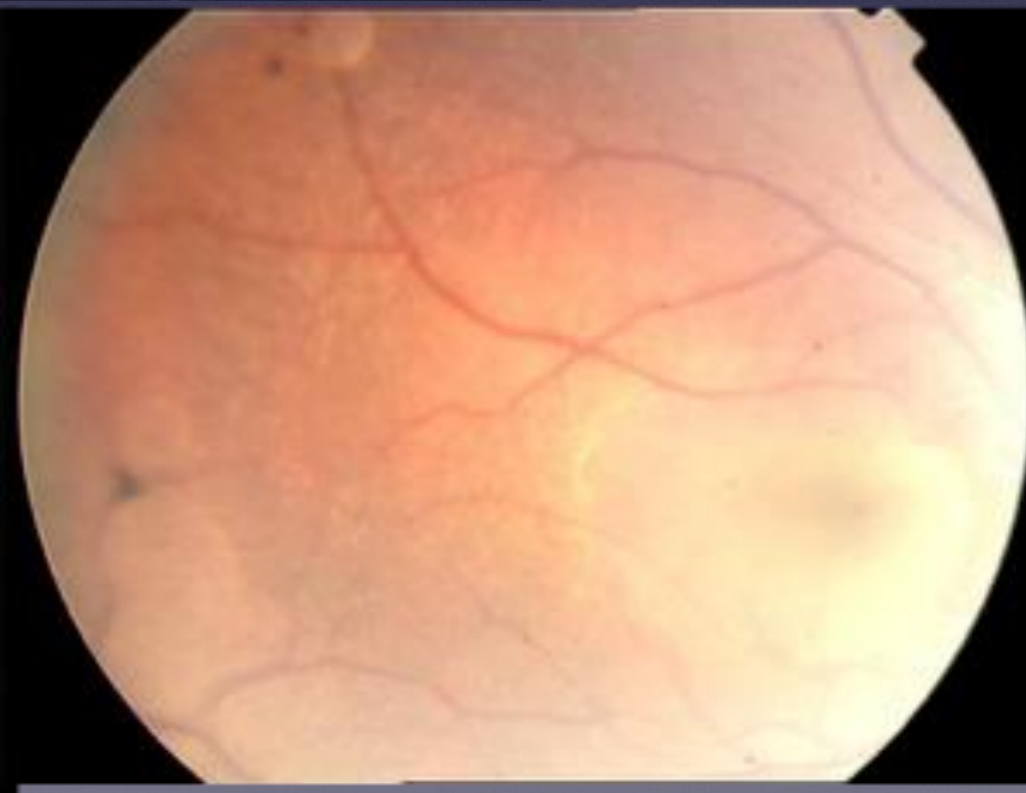
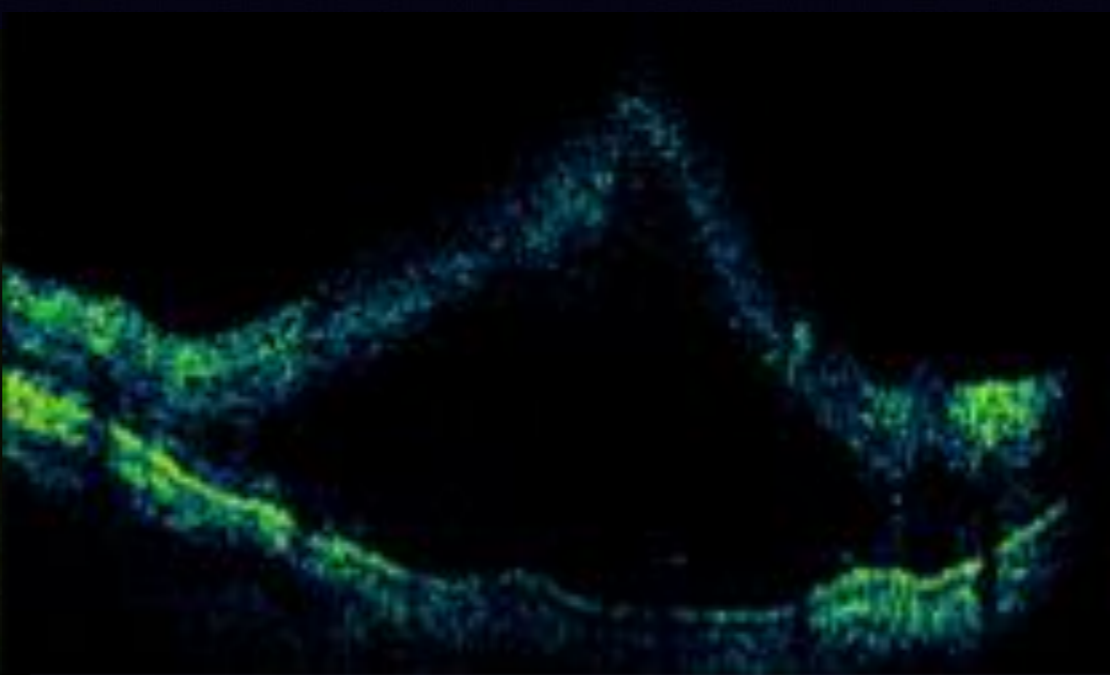
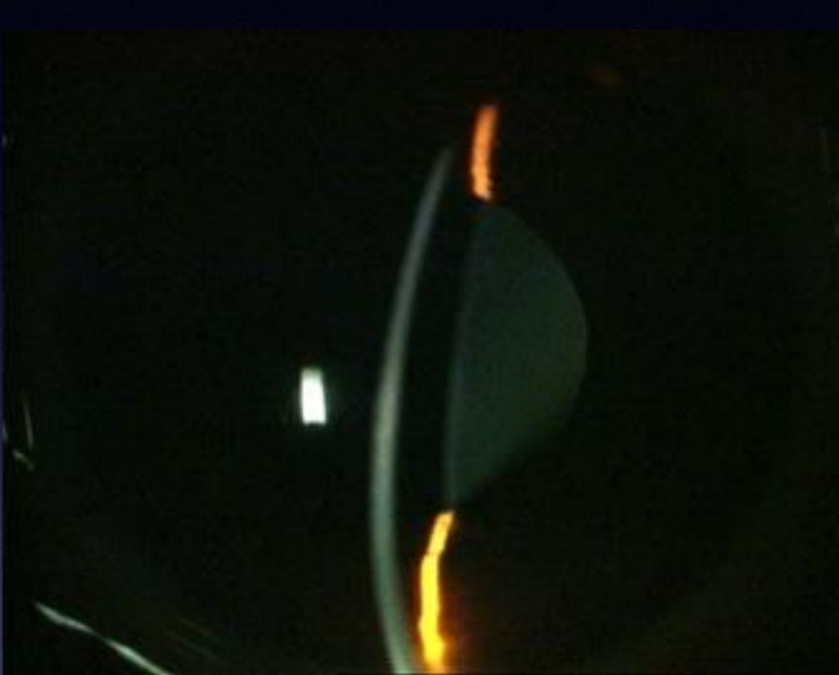
51 y, ♀, unilat visual loss (RE), red eye
VA: CF 1m, choroidal + ret. detachment
AL. 17.1mm,



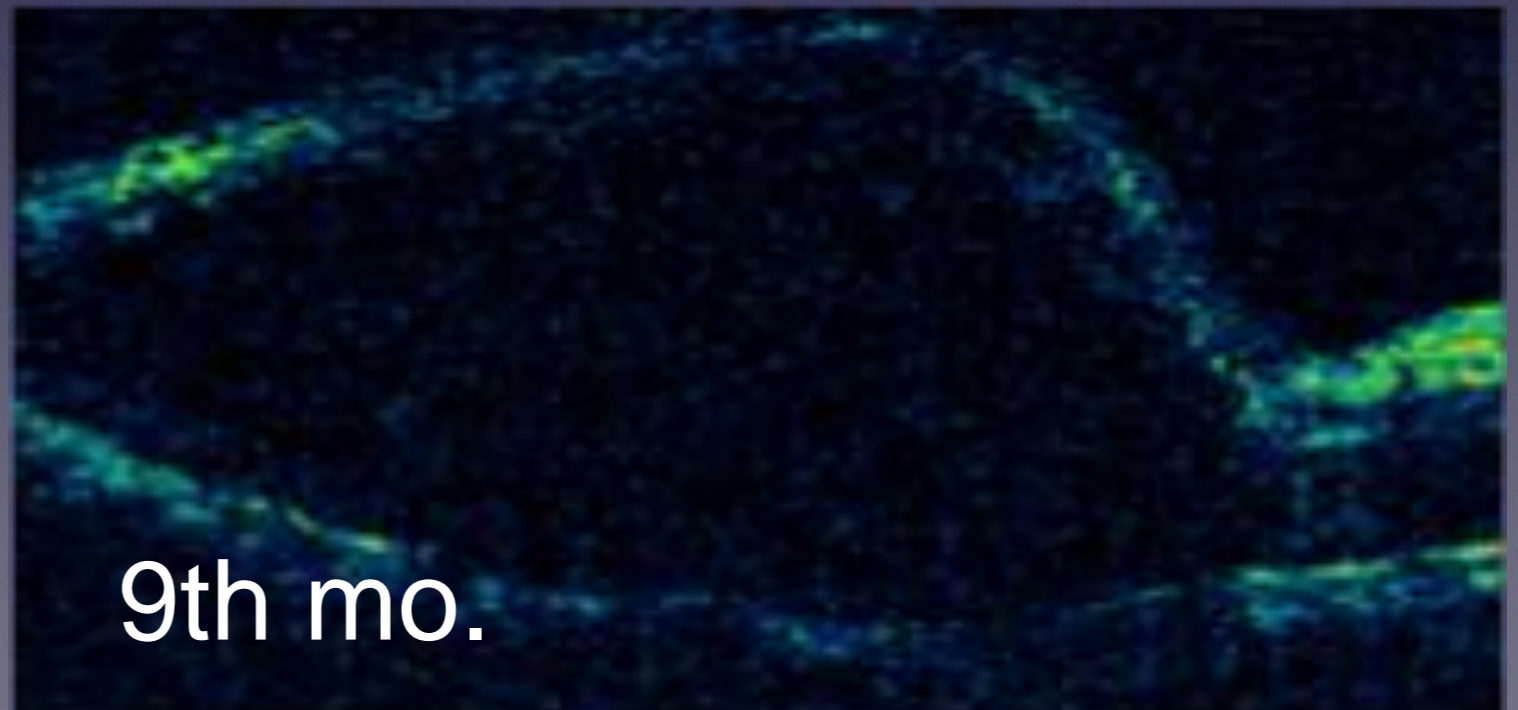
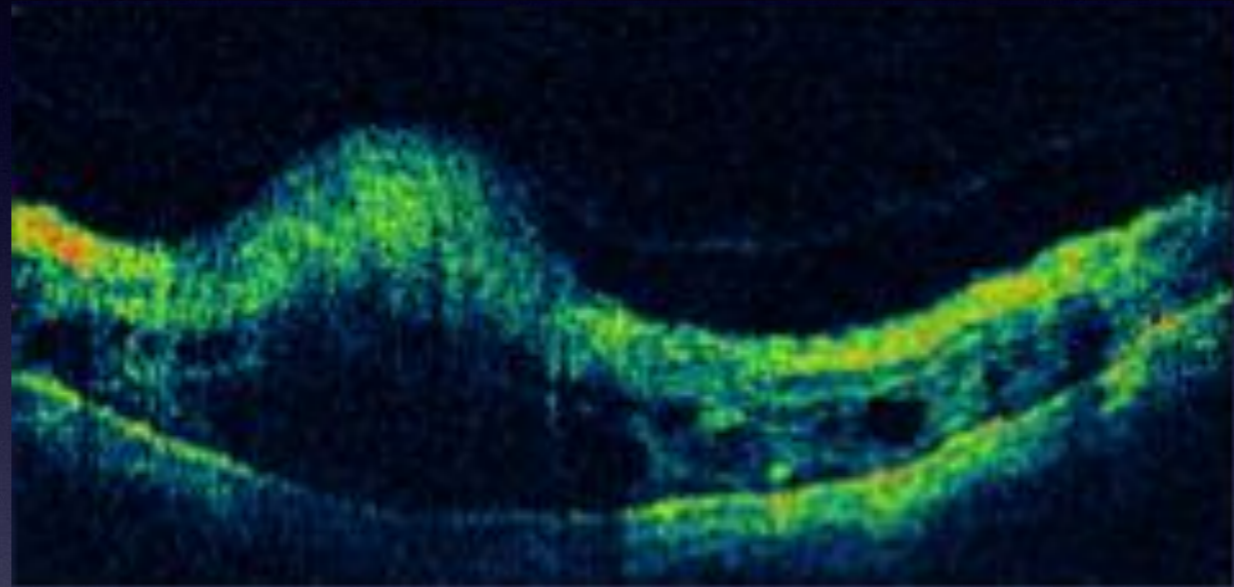
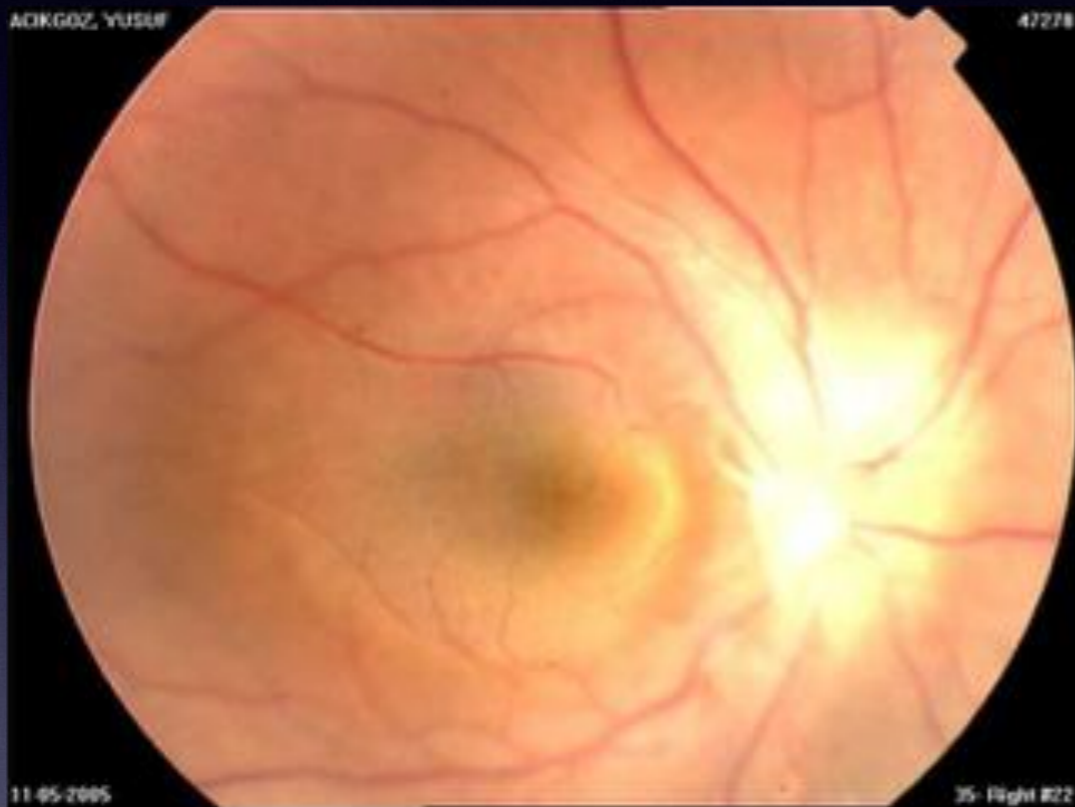
2-quadrant surgery: Postop 2
weeks VA: 0.3



15, ♂, AL: 16mm, Serous macular detachment, peripheral pigmentary retinopathy



Postop 5th month



9th mo.

Conclusions

- Scleral thinning surgeries are effective for treatment of exudative RD in Nanophthalmos cases.
- 2-quadrant surgery seems as effective as 4-quadrant surgery
- Adequate healthy RPE!

15th EVRS Meeting

September 12-14, 2015

Scuola Grande di San Rocco

VENICE – ITALY

MY WAY IN COMPLICATED /
RARE SITUATIONS

CENTRAL SEROUS
CHORIORETINOPATHY



Thank you
謝謝

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