Uses of Fundus Autofluorescence

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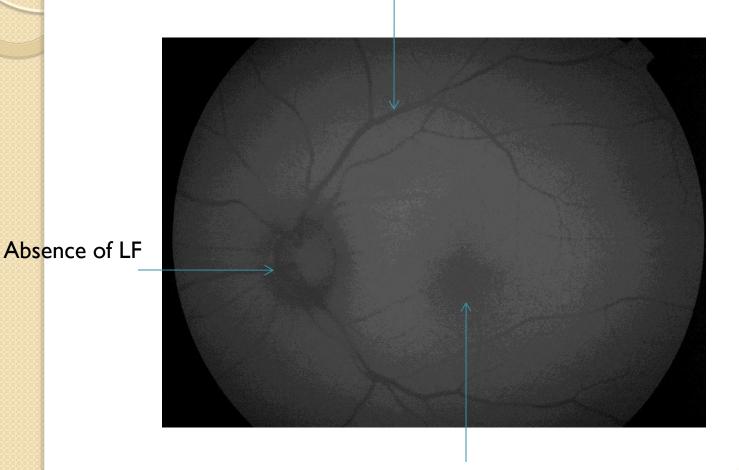


Introduction

- Fundus Autofluorescence (FAF) is an imaging technique for the health of retinal pigment epithelium (RPE)
- Lipofuscin (LF) accumulation in RPE cells results in hyperautofluorescence
- LF is by product of photoreceptor metabolism. Normally gets cleared -Excessive accumulation of LF occurs in ARMD, retinal disease and various retinal dystrophies such as Bests, Stargardts, RP.
- Atrophy or destruction of RPE causes hypoautofluorescence

Normal Fundus Autofluorescence

FAF blocked by blood column



Absorption by macular pigments – lutein and zeamnthin

 FAF is a very simple, fast and non invasive technique, to provide additional information about retinal disease

FAF has been very useful

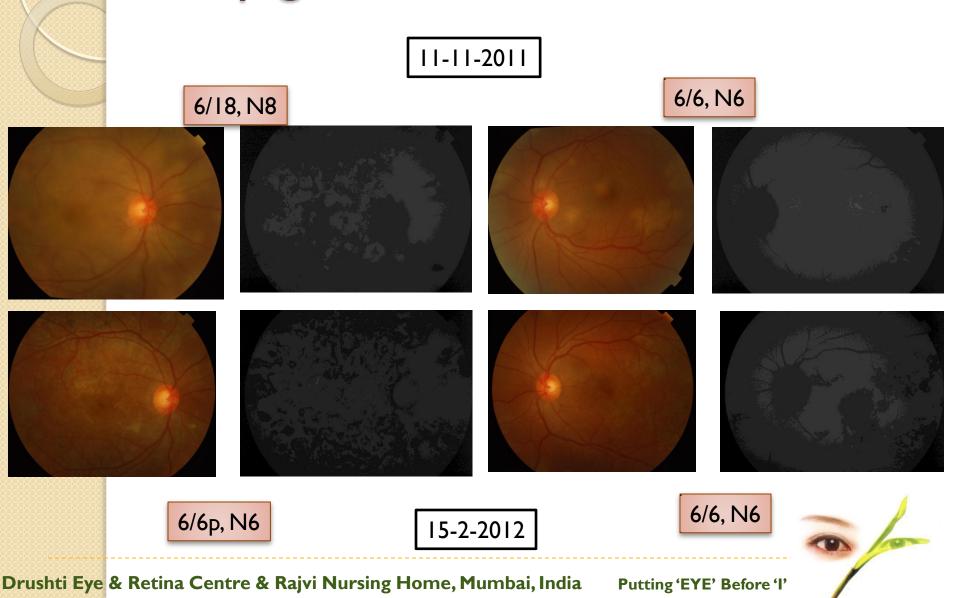
- To confirm the diagnosis
- To monitor patient and decide further treatment
- To follow up and see disease progression over years

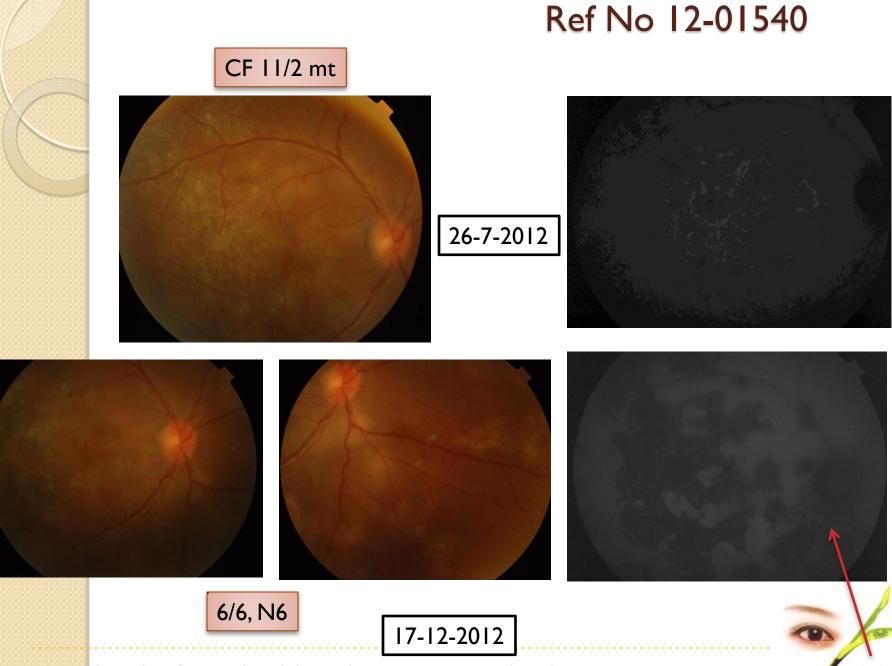
Images captured by Topcon fundus camera

FAF IN CHOROIDITIS

Serpiginous Choroiditis

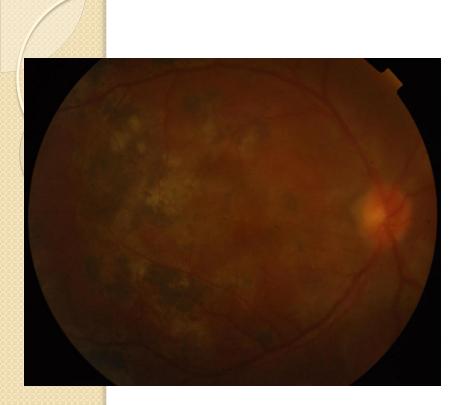
Ref no 11-02302





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Putting 'EYE' Before 'l'





7-1-2013

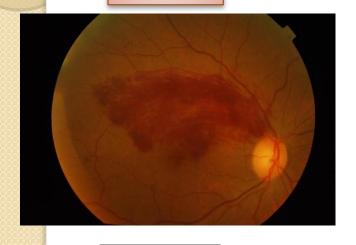


EFFECT OF LASER PHOTOCOAGULATION ON RPE

Ref No 11-01383

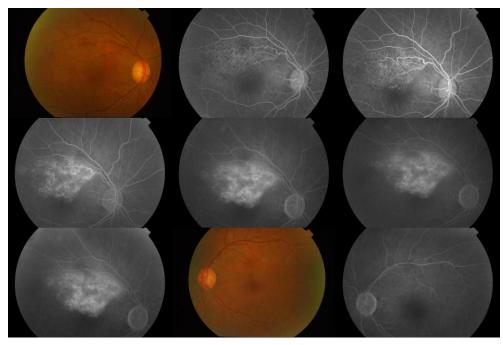
55 / F with superotemporal BRVO

6/24, N36



26-7-2011

oct



- 4 Anti vegf injections
- Laser on I/II/II
- Ozurdex on 13/3/12

10-12-2011

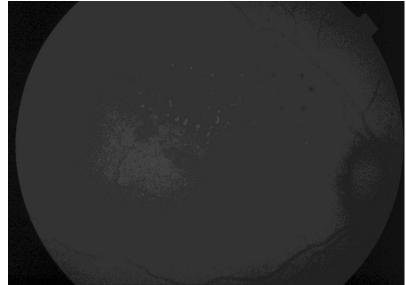


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Further received focal laser on 5-11-12





21-11-12

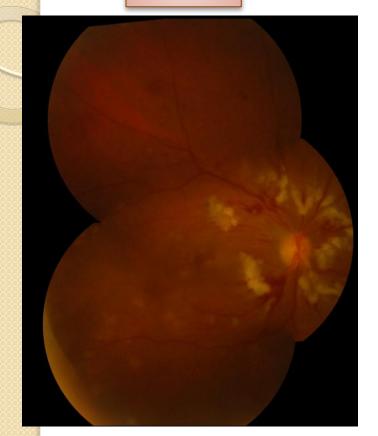


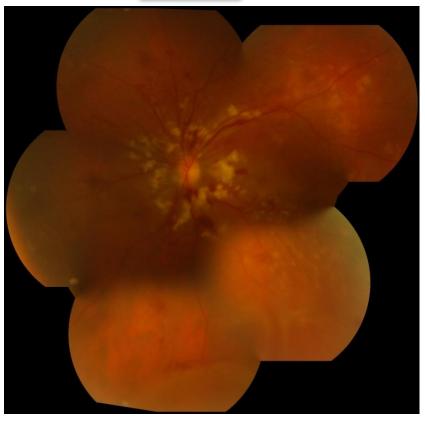
FAF HELPS TO CONFIRM THE DIAGNOSIS

Ref no 13-00331

6/18, N36







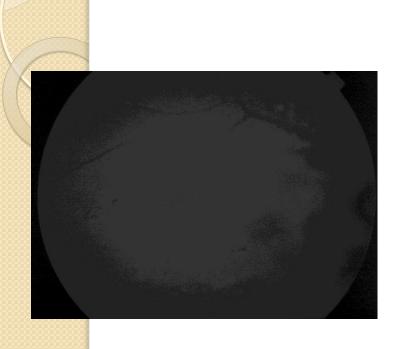
? / M drop in vision X 10 days L > R, Not known diabetic or hypertensive

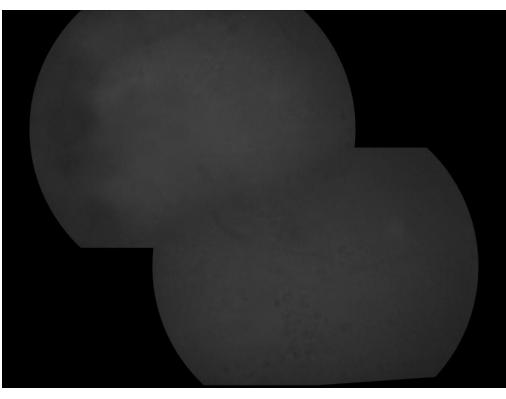
DD of retinal hemorrhages -

- Diabetic retinopathy,
- hypertensive retinopathy
- B/L CRVO
- Vasculitis

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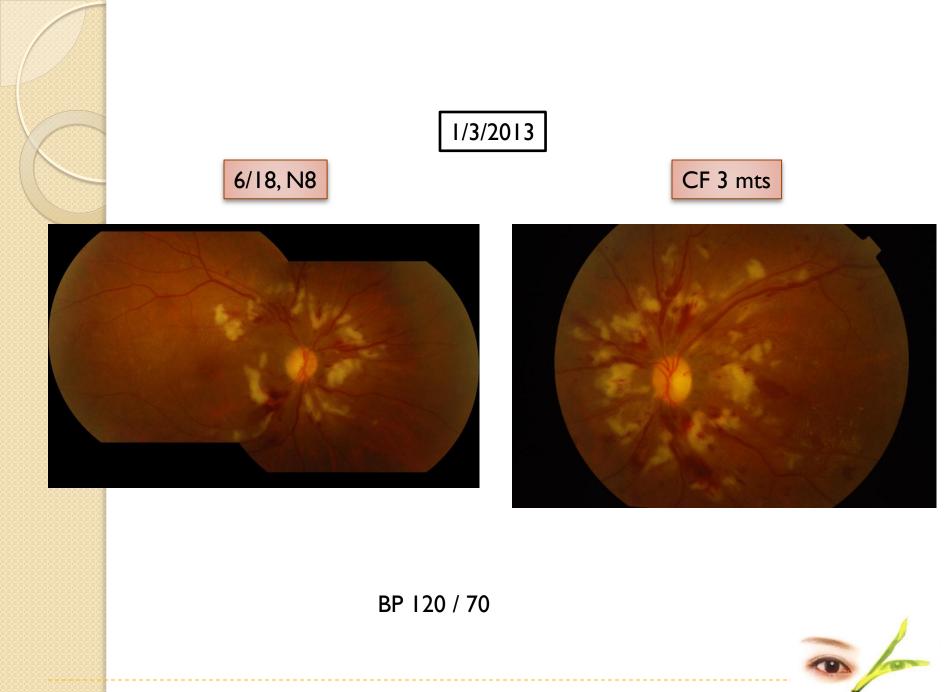




ELSCHNIG SPOTS

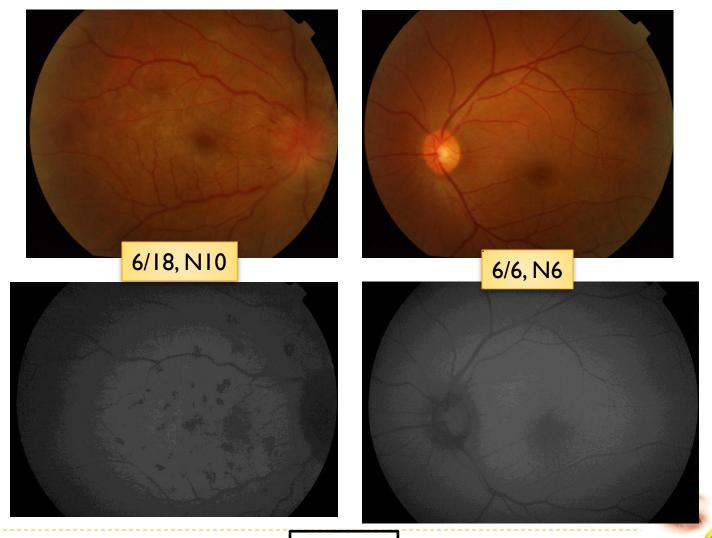
BP - 200/130 !!!





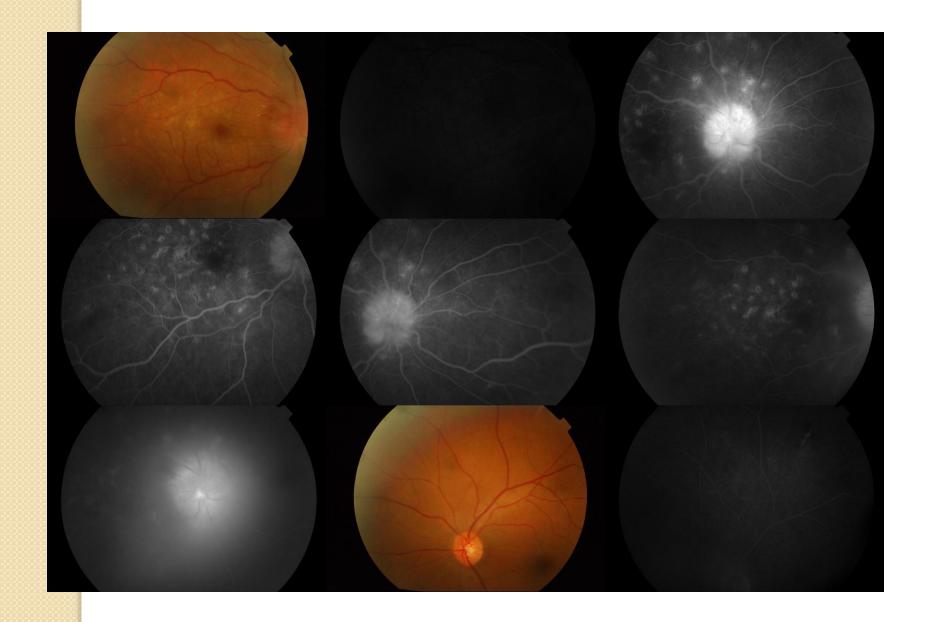
Ref No 14-01427

Blurred vision right eye since 4 months



Drushti Eye & keloaiaguinal&kasps เจการัพg Hom 5-9-2014 hdia

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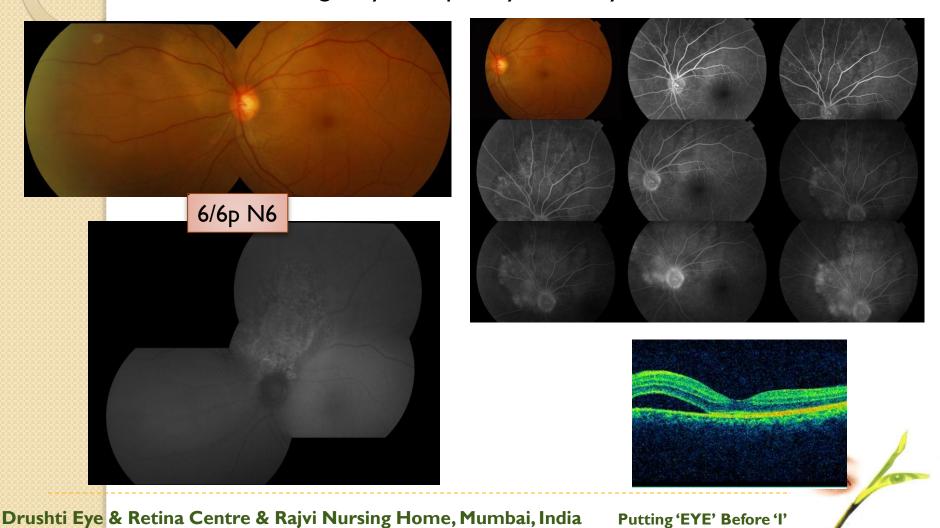


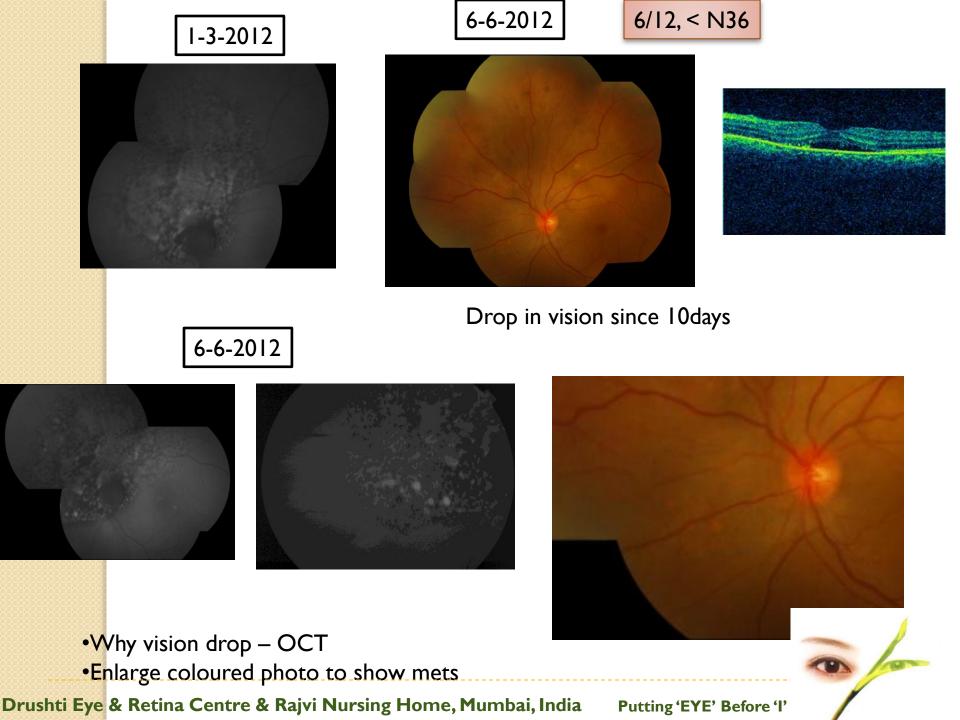
FAF IN CHOROIDAL METASTASIS

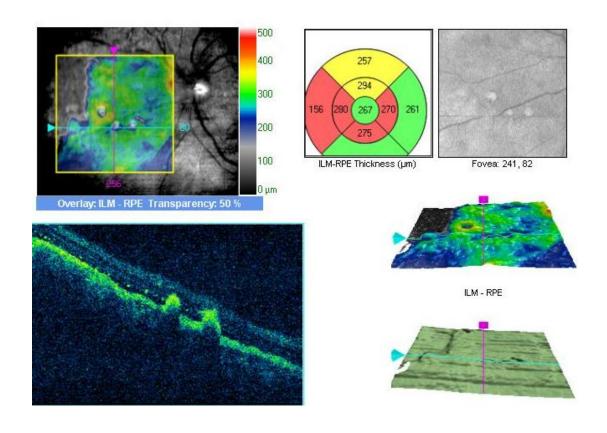
Ref No 11-02710

Putting 'EYE' Before 'l'

- ? / F, h/o breast ca on treatment
- Blurred vision right eye temporally X 10 days





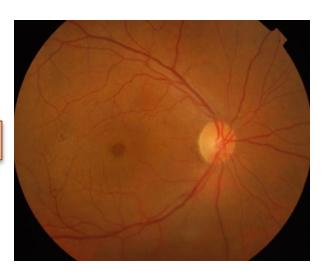


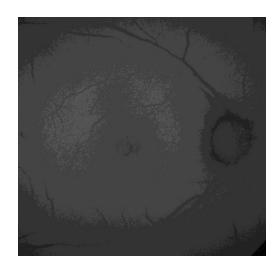
FAF in Macular Hole

Recent onset



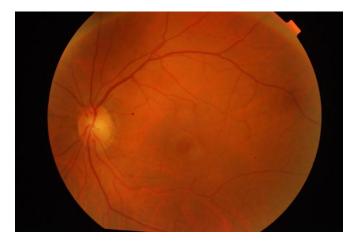
VA: 6/36p, N36

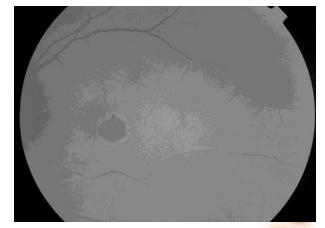




Ref No 14-01043

VA: CF I mt



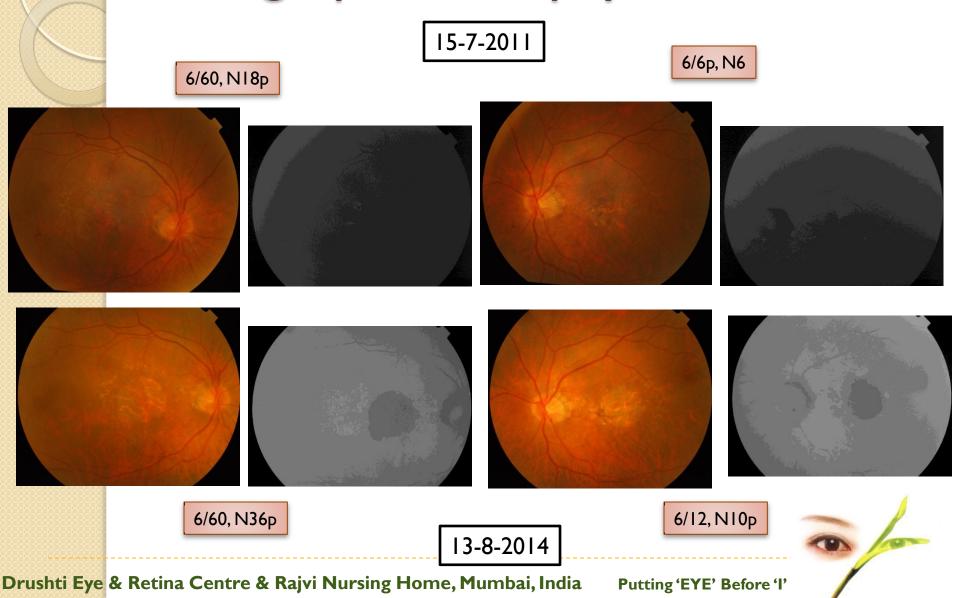


FAF IN ARMD



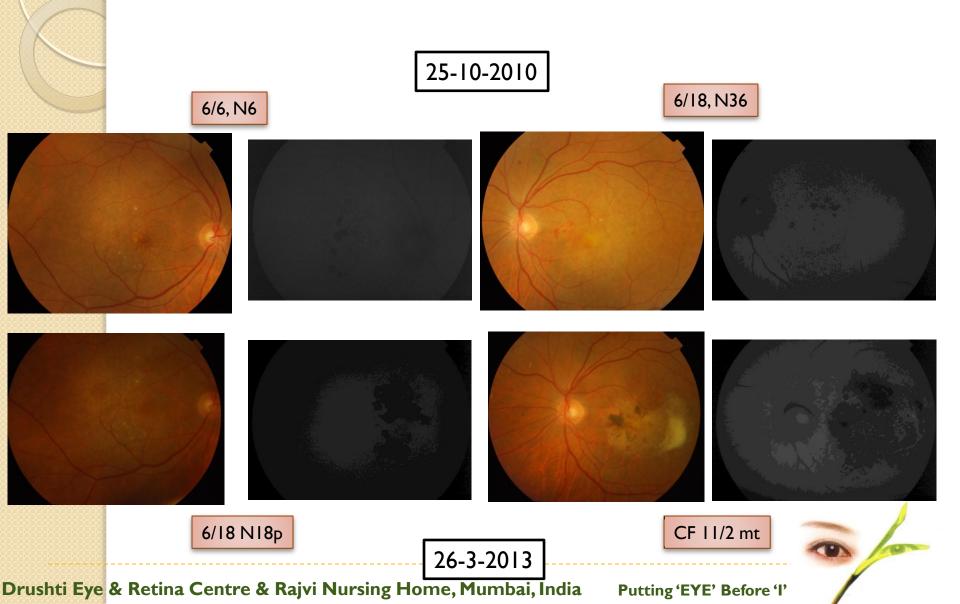
Geographic Atrophy

Ref No 11-01524



Wet ARMD

Ref No 10-00148



Idiopathic Parafoveal Telangiectasia

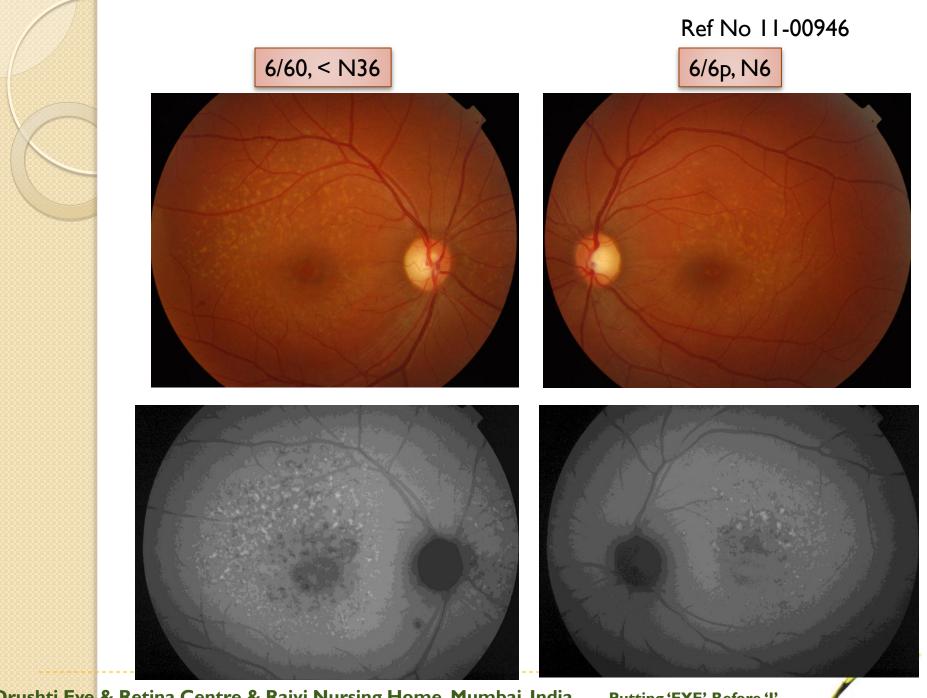
Ref No 07-01159 19-12-2007 6/9p, N8p 6/12, N12 6/36, N18 6/36, NIO 31-7-2014

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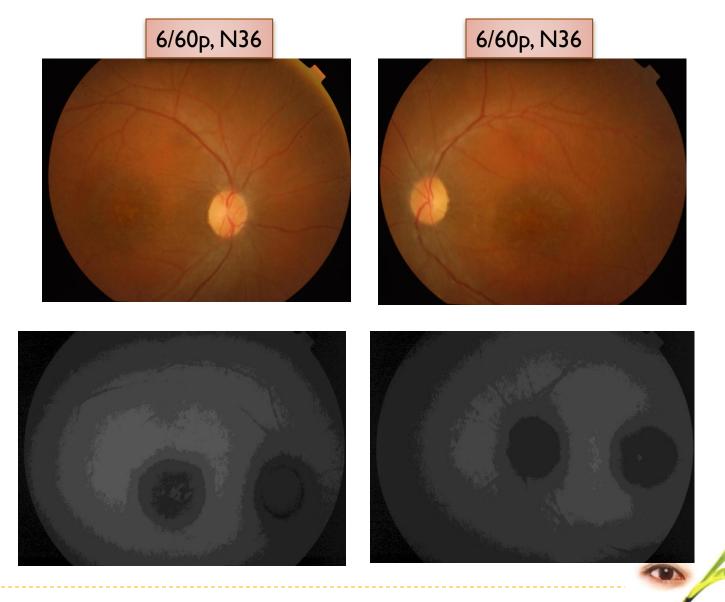
FAF IN RETINAL DYSTROPHIES



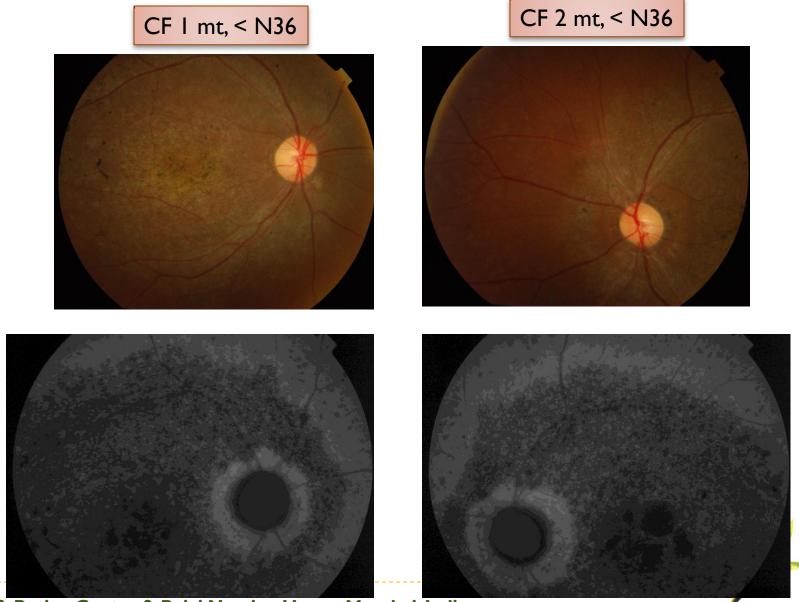


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Ref No 11-02522



Ref No 11-00497



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CONCLUSION



