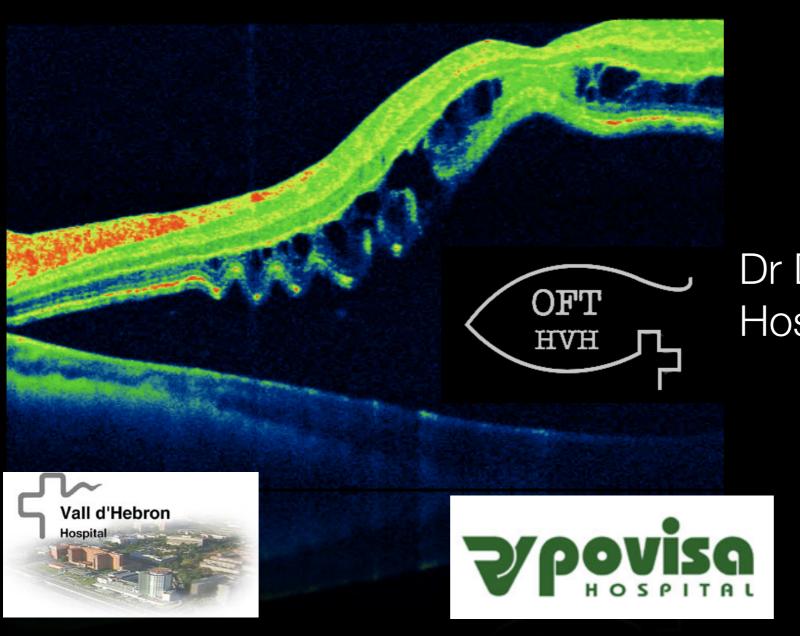
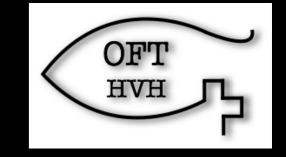
OCT MACULAR EN DRR CORRELACIÓN ANATÓMICA Y FUNCIONAL



Dr Daniel Velázquez Villoria Hospital Povisa

2º curso SGO 2016



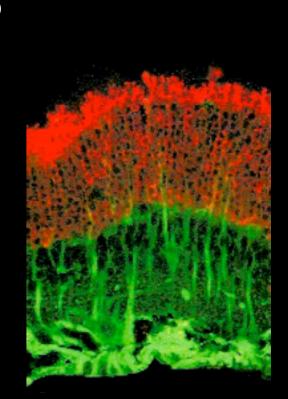
Introducción

Introducción - Justificación

- Afectación macular en DRR
 - •Factor predictivo de BCVA final¹⁻².
 - DRR mácula on: probabilidad AV >20/50 80-87%
 - DRR mácula off: probabilidad AV >20/50 30-40%

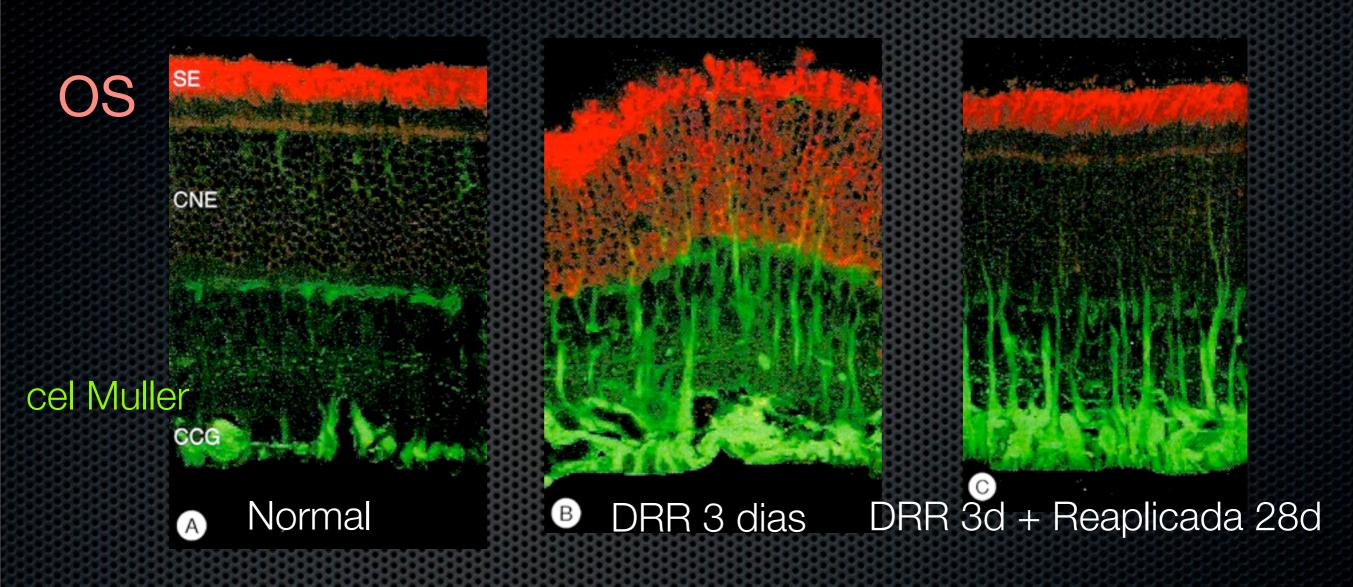
A pesar del éxito anatómico, no es posible predecir el resultado funcional cuando se afecta la mácula.

Cambios celulares y funcionales reversibles / irreversibles en fóvea.



1. Tani P. et al. RRD without macular involvement treated with scleral buckling. Am J Ophthalmol 1980 2. Wilkinson CP. Visual results following scleral buckling for retinal detachments sparing the macula. Retina 1981

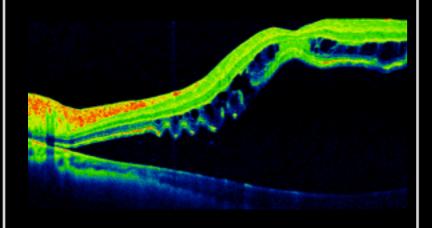
Cambios celulares tras Reaplicación retiniana



- 1. Regeneración segmentos externos de fotoR
- 2. Reducción apoptosis FotoR
- 3. Reducción replicación cel no neuronales

Estudios OCT - correlación estructura y función visual: Discrepancias entre artículos

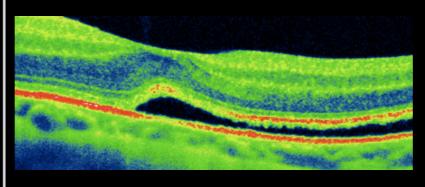
OCT preoperatorio:



- Hagimura (2000)
- Leclaire (2006)
- Cho (2012)
- Joe (2013)

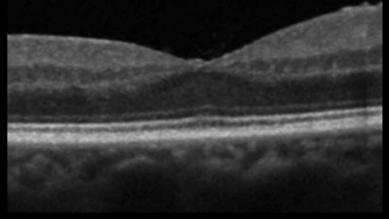
OCT postoperatorio

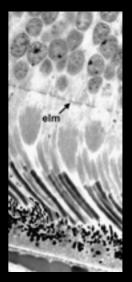
Fluido Subfoveal

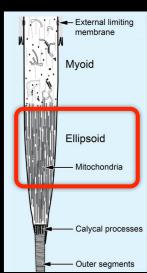


- Haguimura (2000)
- Wolfensberger (2002)

Lineashiperreflectivas



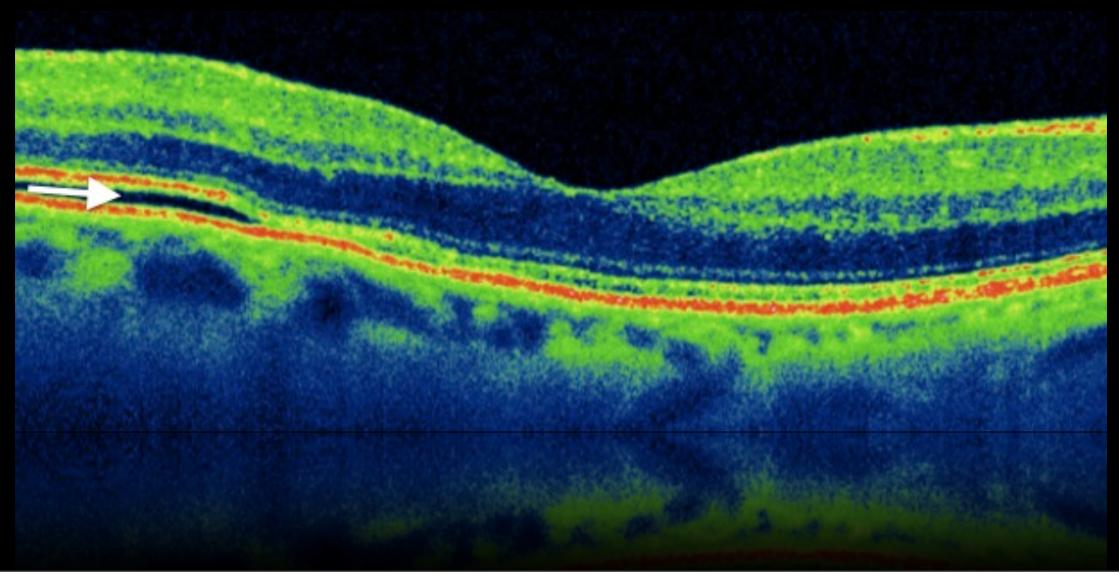




- Shoket (2006)
- Wakabayashi y Tano (2009)

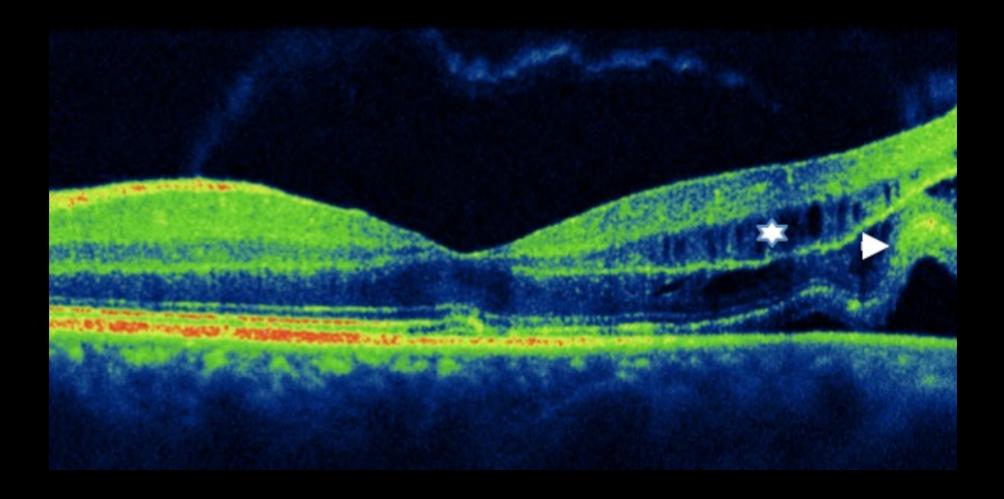
OCT preoperatorio:

- Secuencia cronológica: DNS, ORC, Quistes intrarretinianos
- Altura DRR a nivel macular



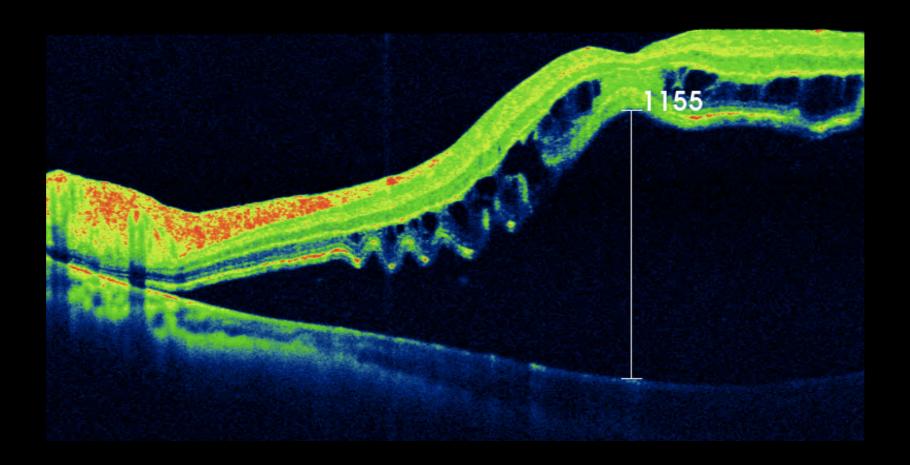
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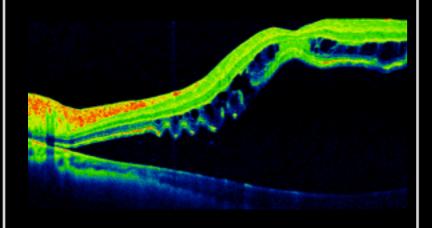
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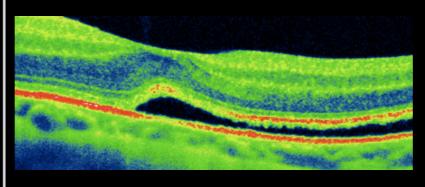
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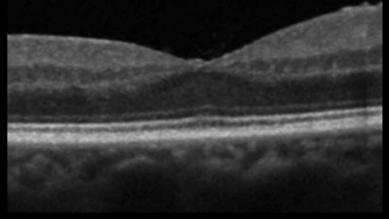
OCT postoperatorio

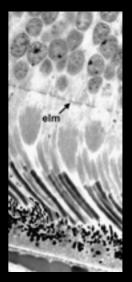
Fluido Subfoveal

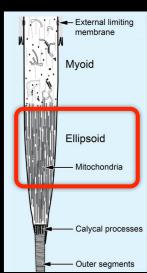


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Lineashiperreflectivas

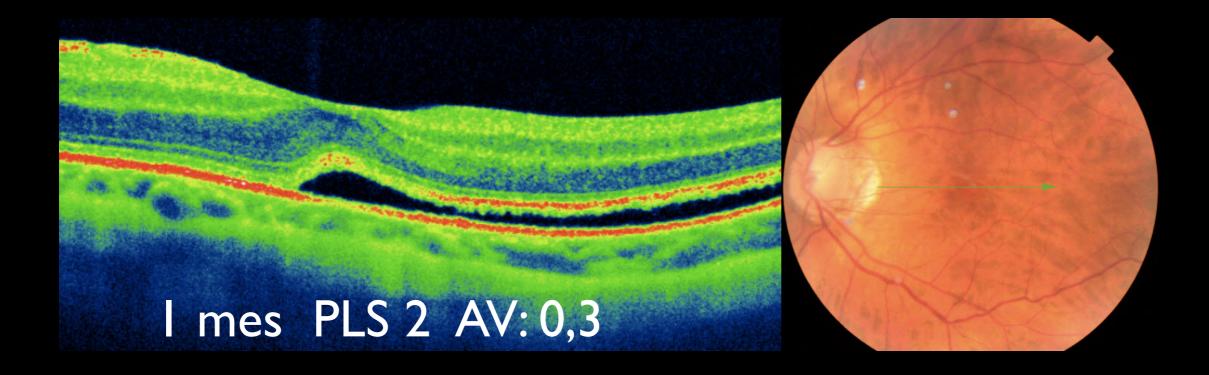




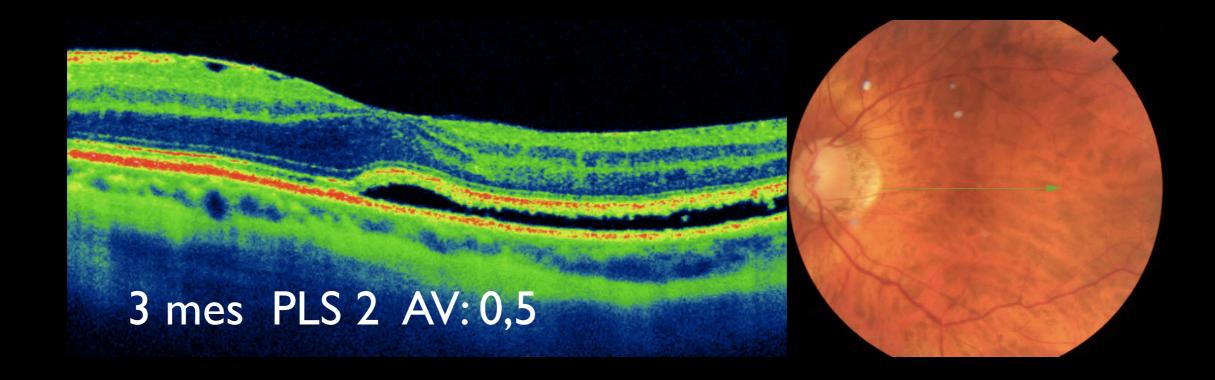


- Shoket (2006)
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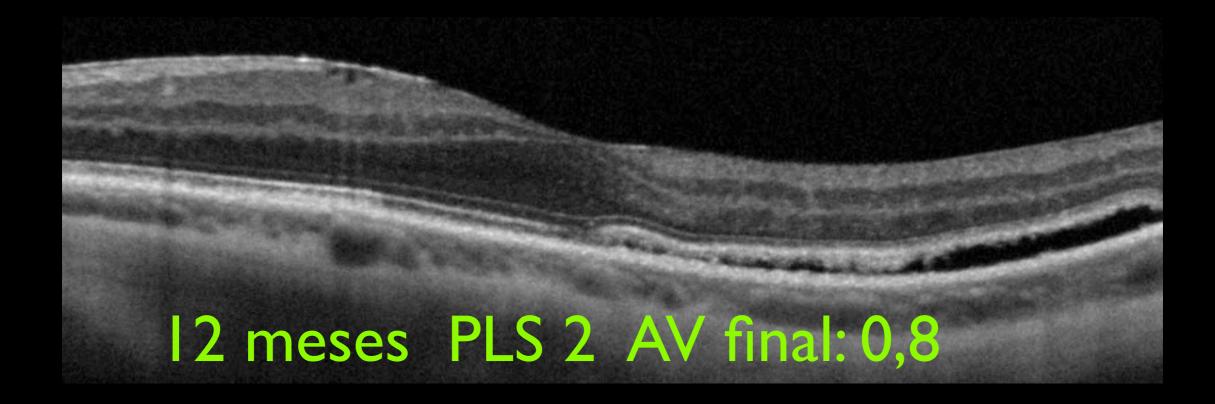
Fluido Subfoveal persistente



Fluido Subfoveal persistente

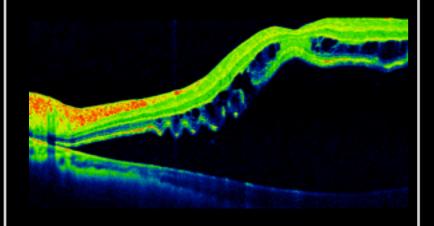


Fluido Subfoveal persistente



Estudios OCT - correlación estructura y función visual: Discrepancias entre artículos

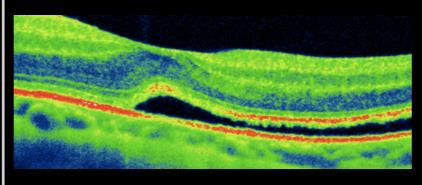
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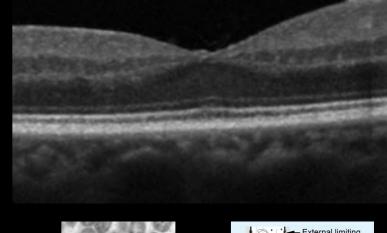
OCT postoperatorio

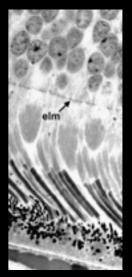
Fluido Subfoveal

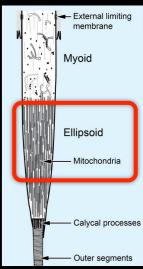


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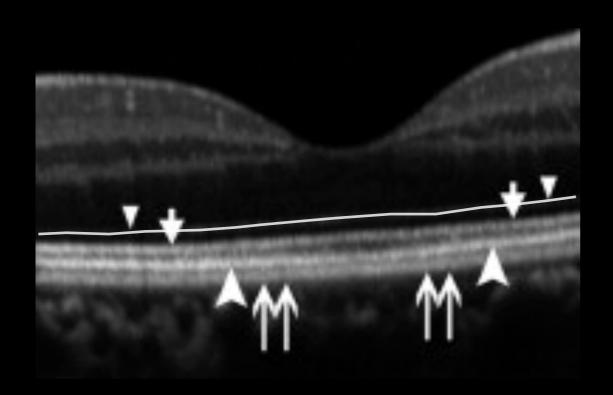
Lineashiperreflectivas



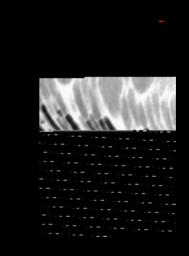


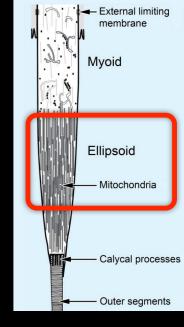


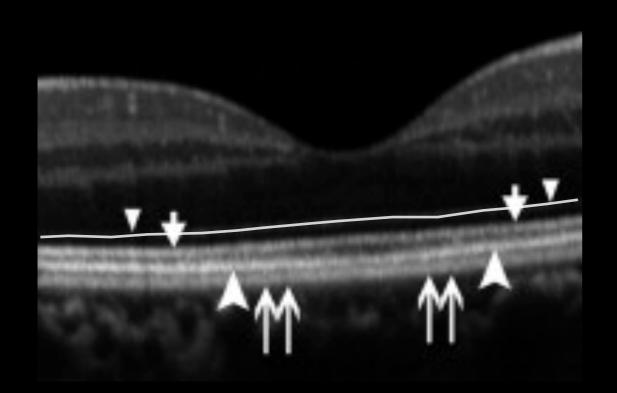
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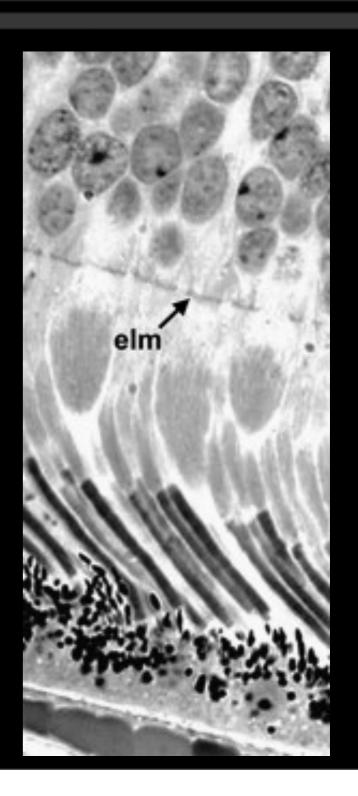
- Lineashiperreflectivas
- 1 banda: MLE: complejos de unión céls. Muller y fotoR
- 2 banda: región Elipsoide del IS
- 3 banda: Contact Cylinder
- 4 banda: EPR +/- Mb Bruch

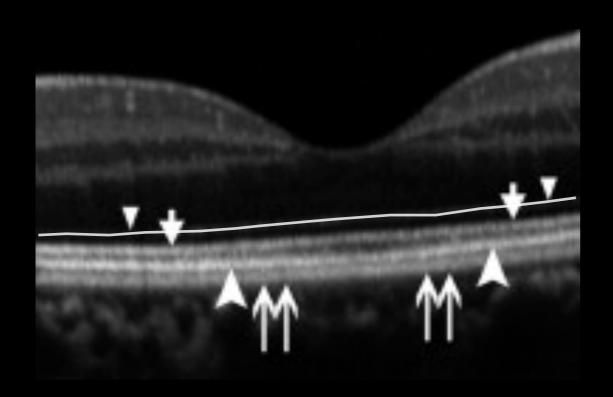




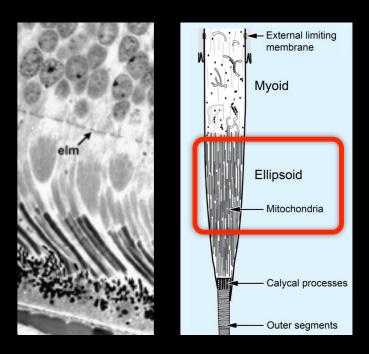


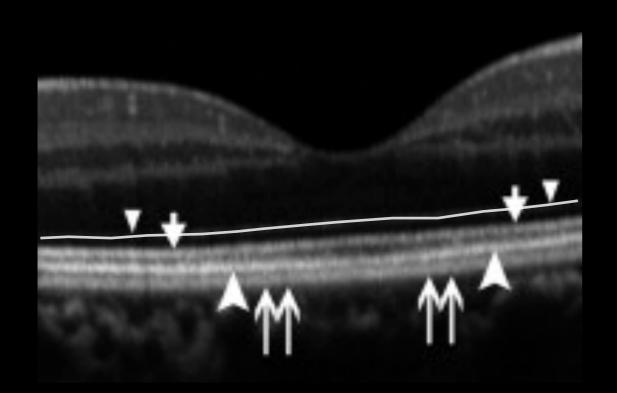
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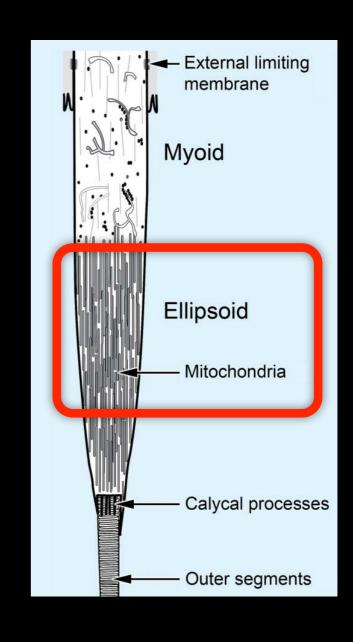


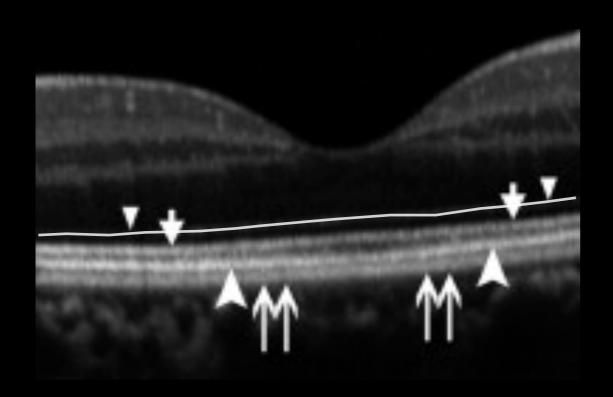
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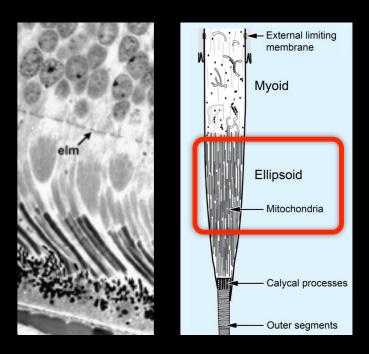


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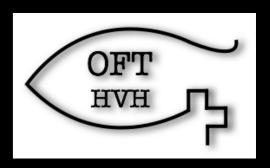


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Estudio HVH

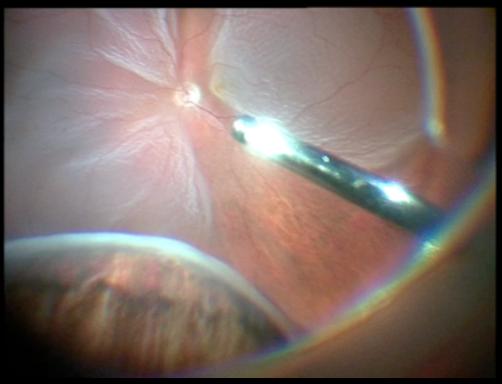


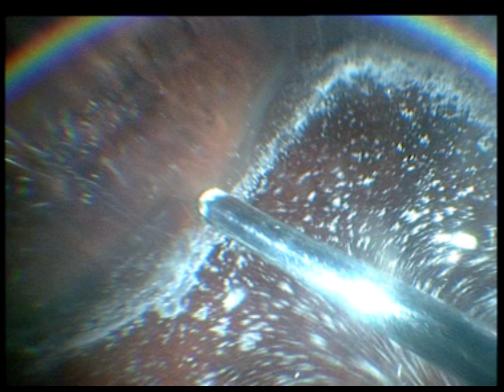


Material y Métodos

- Prospectivo. 12 meses
 - Criterios Inclusión
 - DRR primario intervenidos de VPP sin cirugía escleral + taponamiento gas
- Criterios Exclusión
 - DRR crónico (>30 días)
 - PVR grado ≥ C

Inclusión 104 pacientes DRR mácula off DMD: 10,8 días



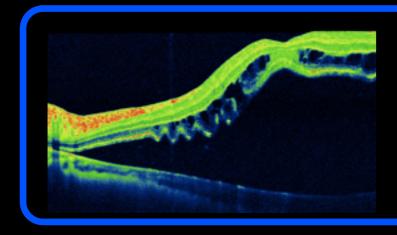


Diseño

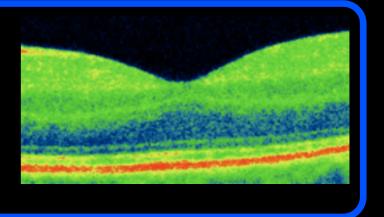
PREOPERATORIO

OCT PREOPERATORIO POSTOPERATORIO

OCT
POSTOPERATORIO:
1MES; 3 MESES;
6 MESES; 12 MESES



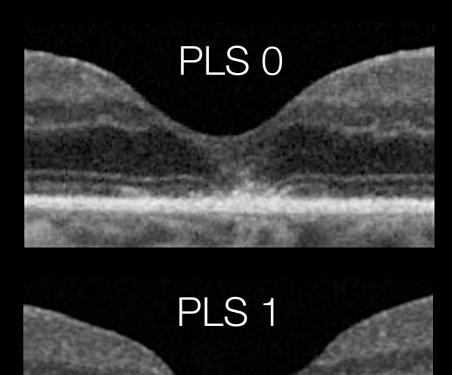
OCT SD

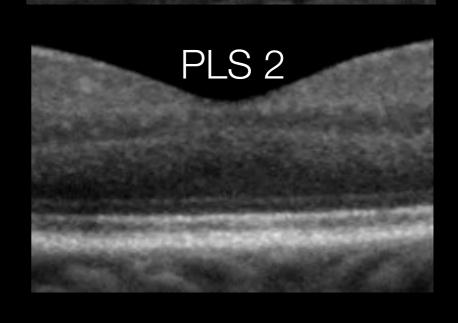


Evaluación resultados: 2 observadores independientes

PLS: Photoreceptor Layer Status

PLS	MLE	Elipsoides
O	Alterada	Alterada
1	Íntegra	Alterada
2	Íntegra	Íntegra

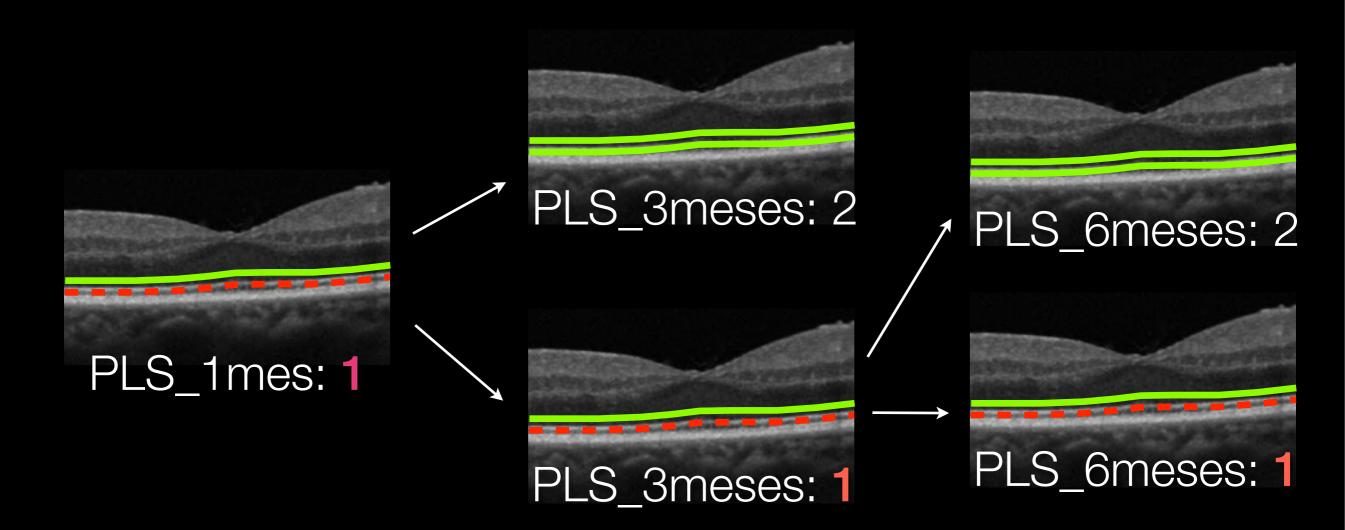




Wakabayashi, Tano. Foveal Microstructure and Visual Acuity after RRD Repair. Ophthalmology 2009

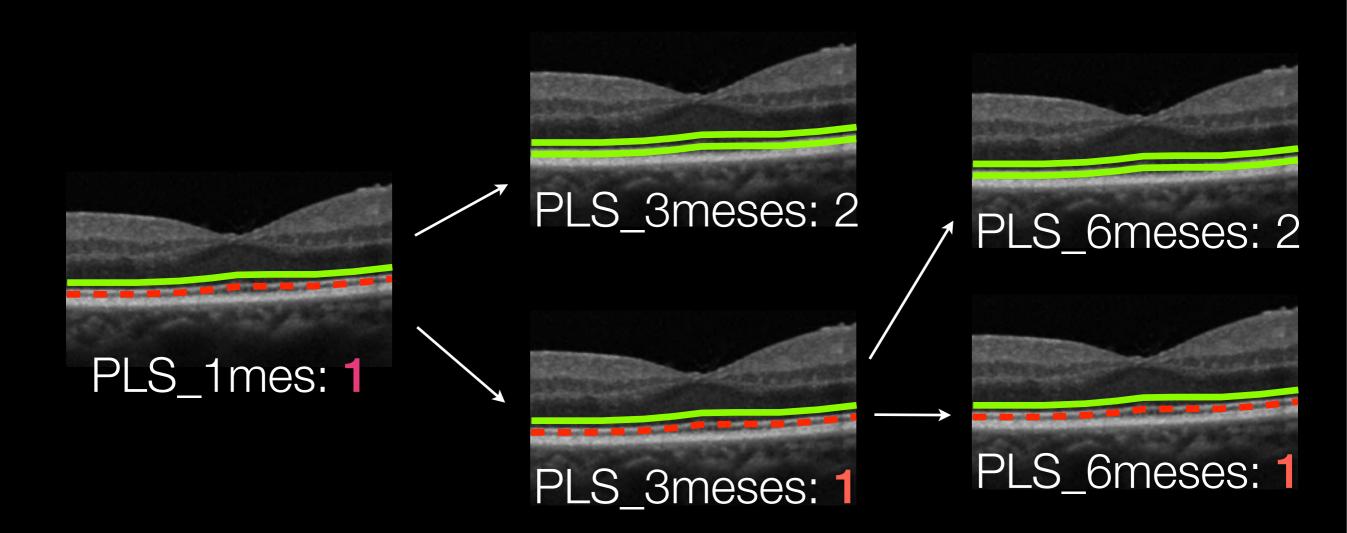
ESTUDIO PROSPECTIVO

PLS	MLE	Elipsoides
0	Alterada	Alterada
1	Íntegra	Alterada
2	Íntegra	Íntegra



ESTUDIO PROSPECTIVO

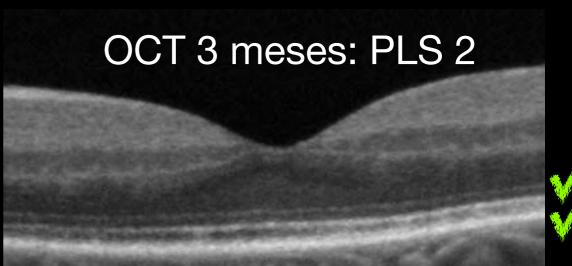
PLS	MLE	Elipsoides
0	Alterada	Alterada
1	Íntegra	Alterada
2	Íntegra	Íntegra



VELOCIDAD RESTAURACIÓN PLS

Caso 1

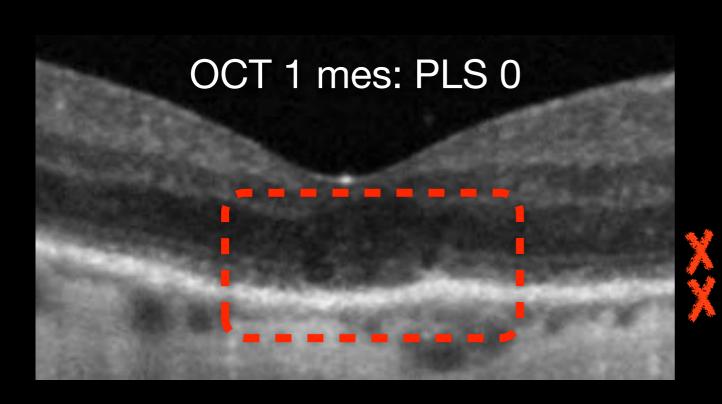
OCT 1 mes: PLS 2



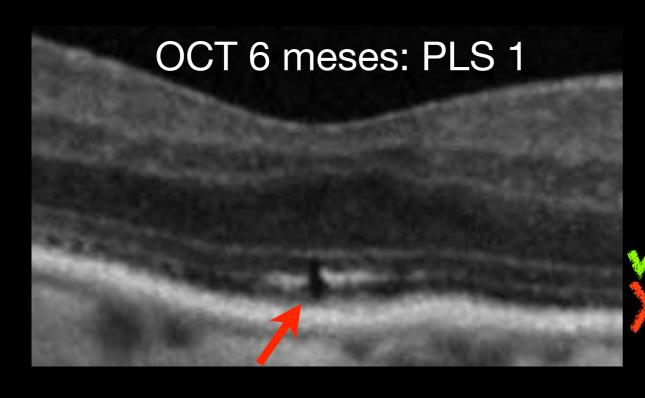
OCT 6 meses: PLS 2

PLS	MLE	Elipsoides
O	Alterada	Alterada
1	Íntegra	Alterada
2	Íntegra	Íntegra

Caso 2



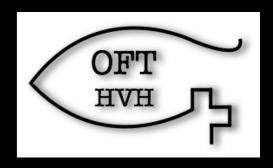




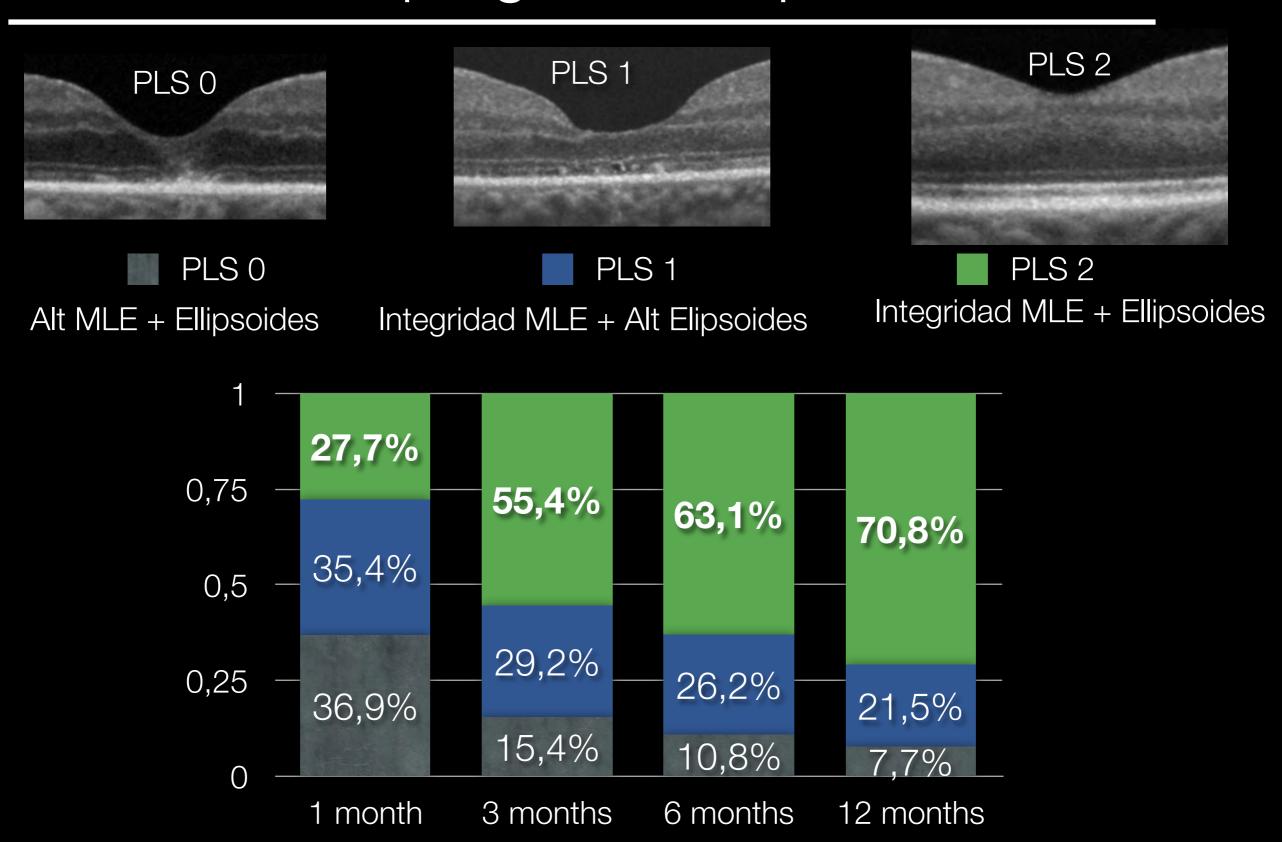


Resultados

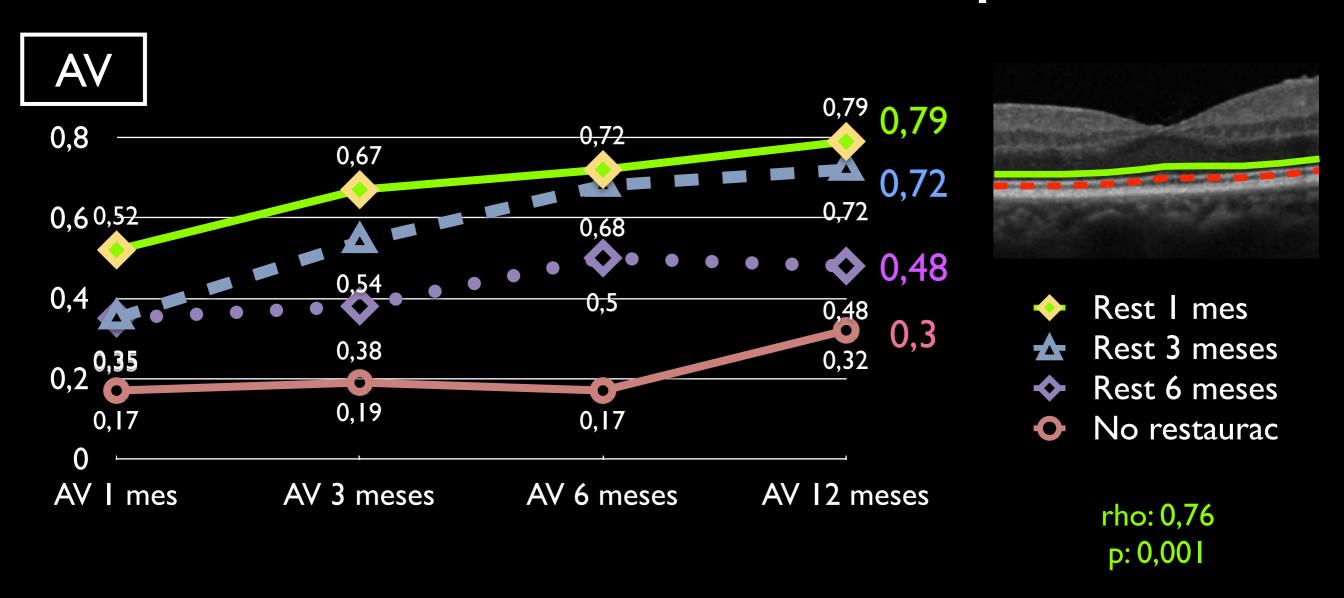




Restauración progresiva Ellipsoides



Velocidad restauración Elipsoides



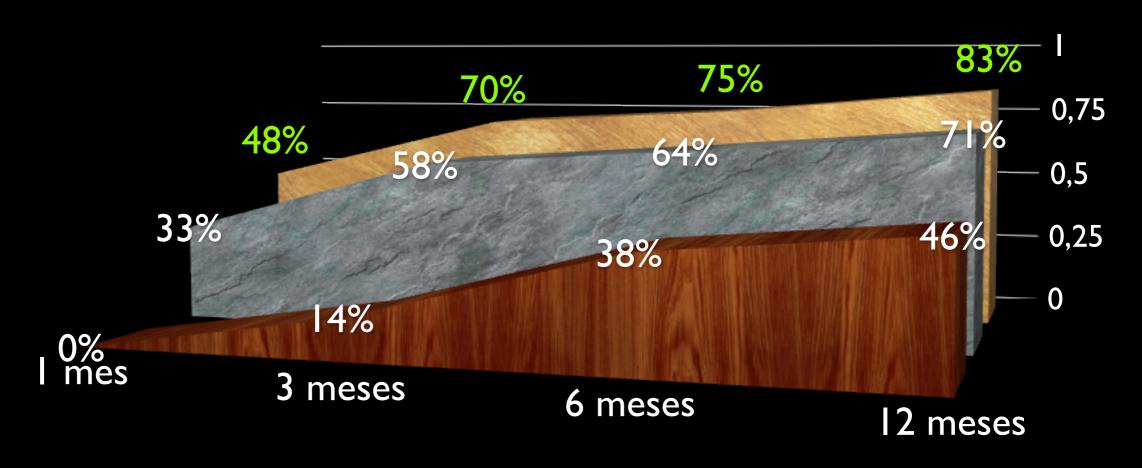
Correlación: Velocidad de restauración de líneas hiperreflectivas y AV final

Correlación: Duración DRR - Restauración Elipsoides

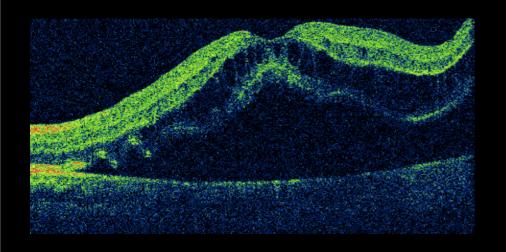
Duración DRR

- > 14 días
- 7 14 días
- ≤7 días

% casos Restauración Elipsoides

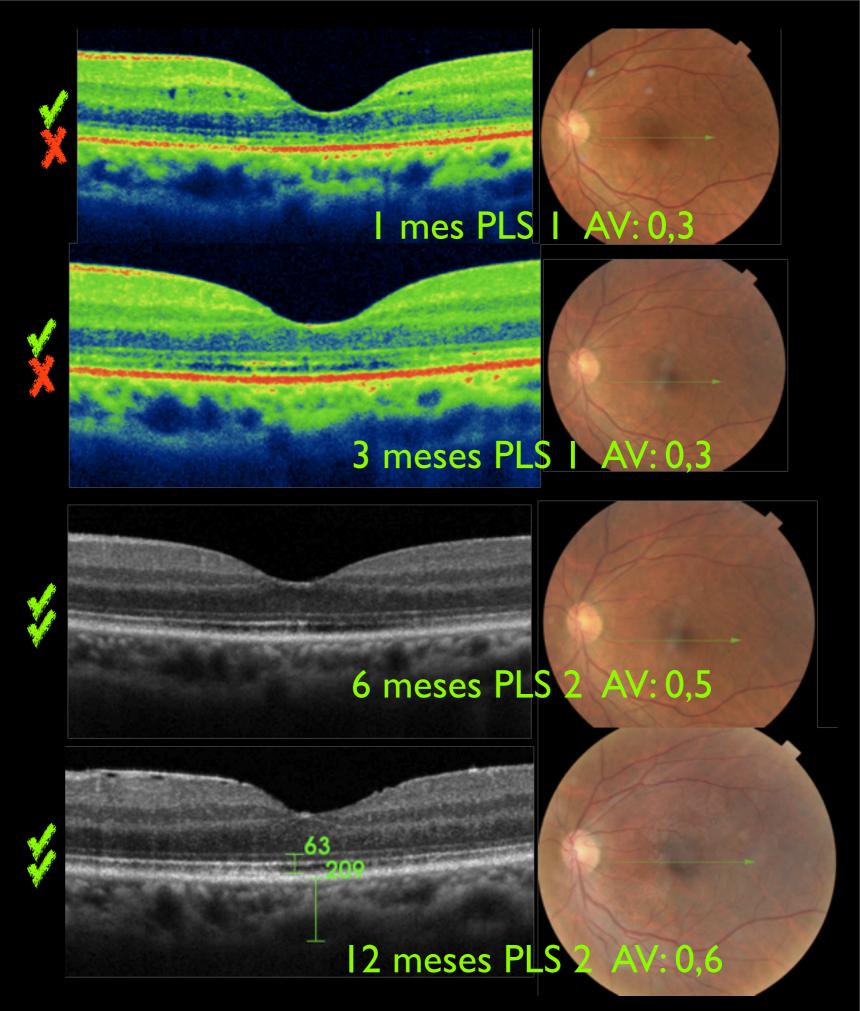


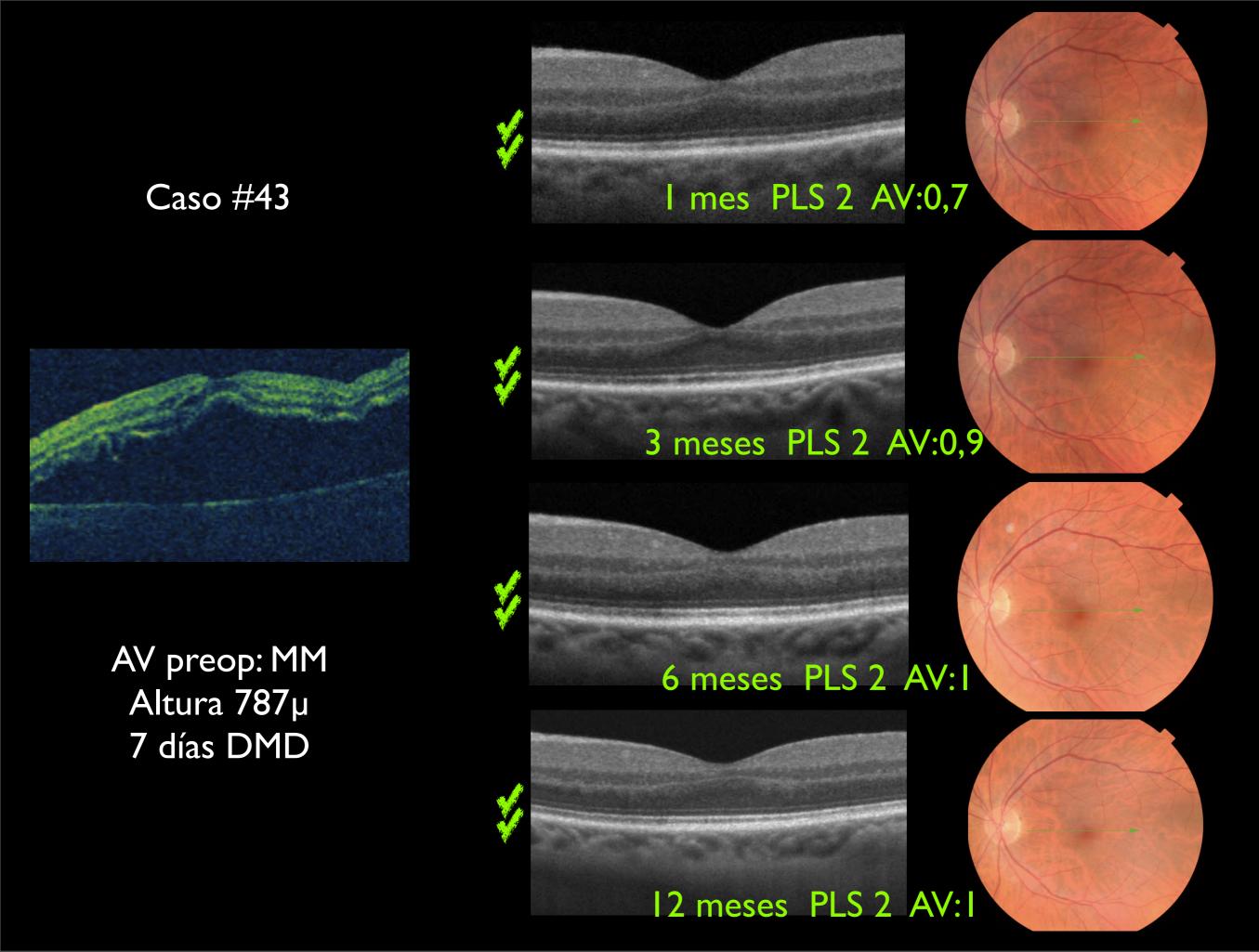
Caso #30





AV preop: CD Altura 627µ 16 días DMD





Discusión: Reflexión: Qué valor tienen hallazgos OCT?

- Hallazgos estructurales No justifican enteramente la recuperación funcional
 - Retina estructura neural compleja altamente organizada.
 - Remodelación neuronal: no estudiado por OCT

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- Hallazgos estructurales No justifican enteramente la recuperación funcional
 - Retina estructura neural compleja altamente organizada.
 - Remodelación neuronal: no estudiado por OCT
- Papel Relevante

a nadie le asombraría que una estructura basalmente alterada y desorganizada no funcionase correctamente...



GRACIAS POR SU ATENCIÓN

dvelazquez@povisa.es





