

Where Did the Ellipsoid Go??



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Financial Disclosure

- None for the subject matter
- Dr Wu has received lecture fees from
 - Bayer
 - Quantel Medical

JCA

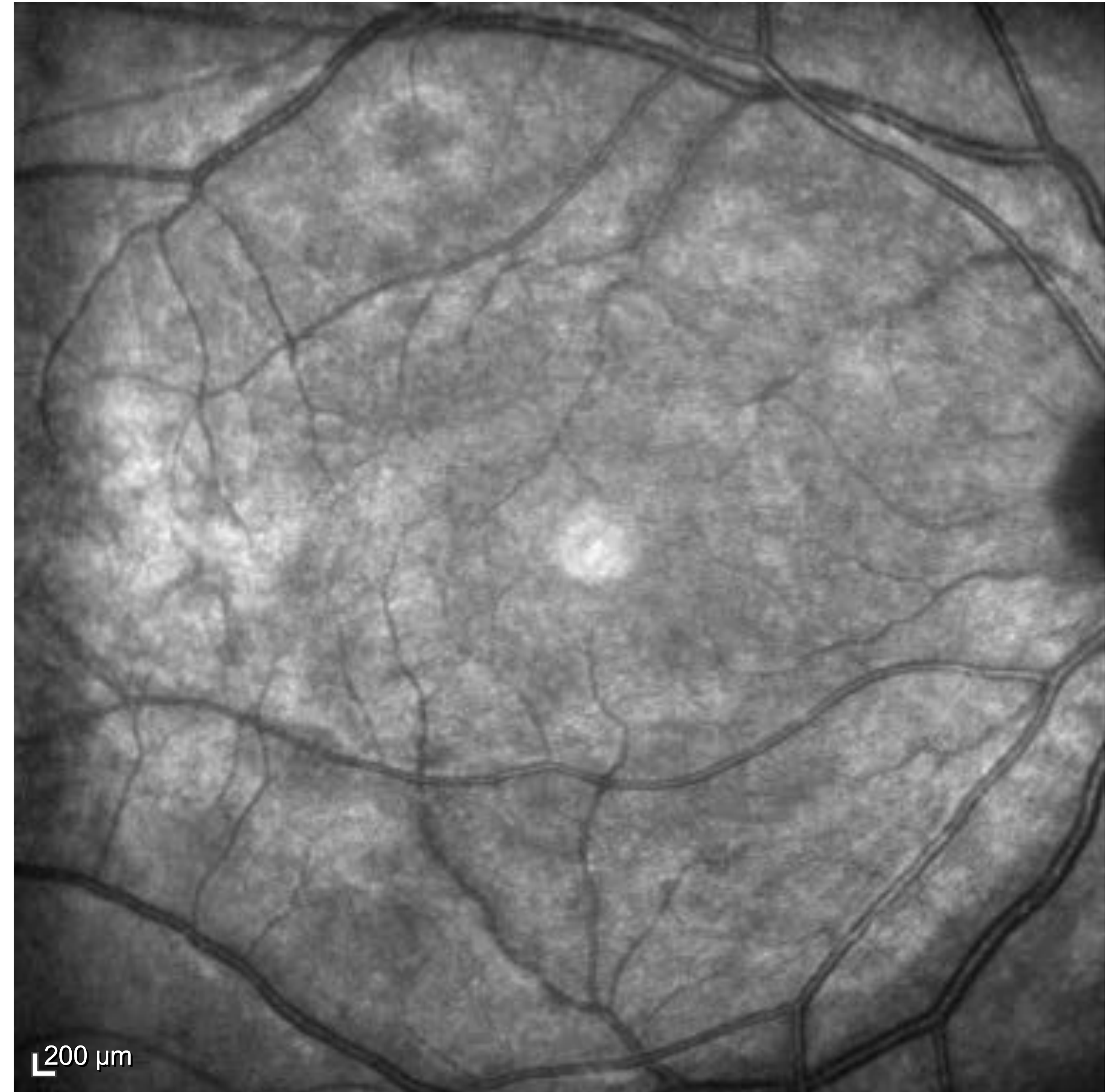
- 26 yo healthy male complains of a sudden decrease in visual acuity of his OS for 3 days
- 20/25 and CF
- SLE unremarkable

MultiColor 30° ART [HS]

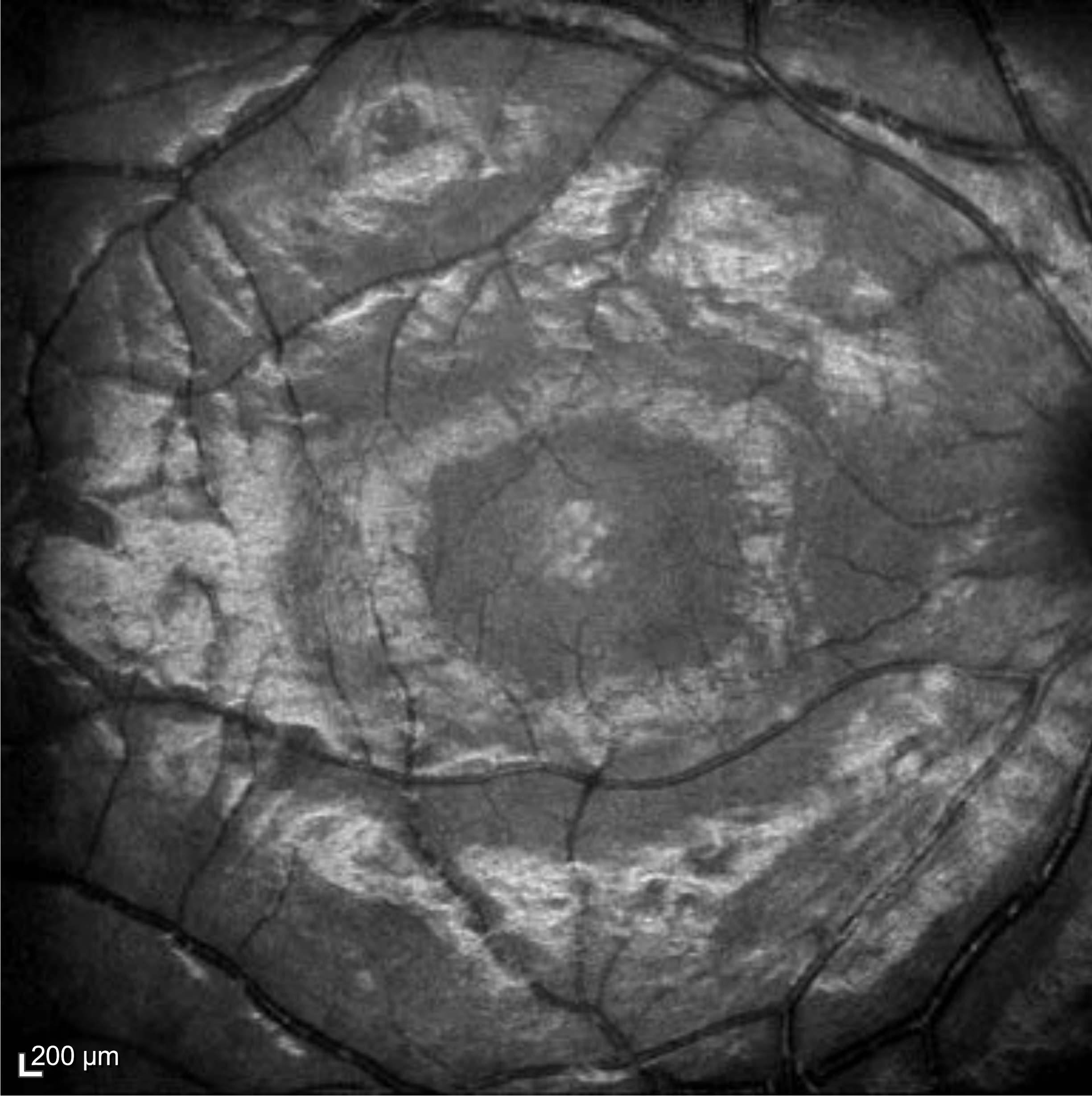


Color Balance: Standard

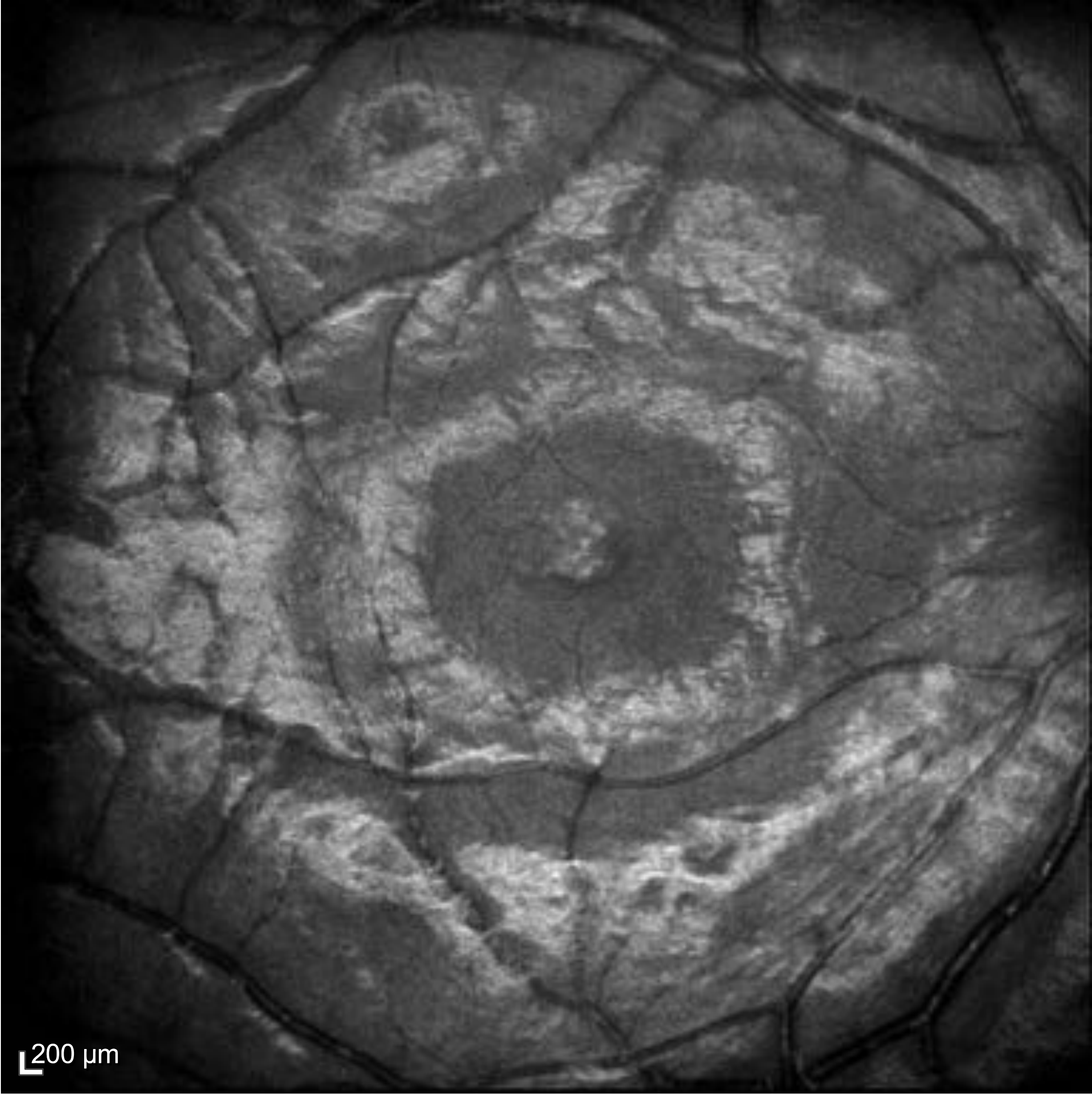
Infrared Reflectance



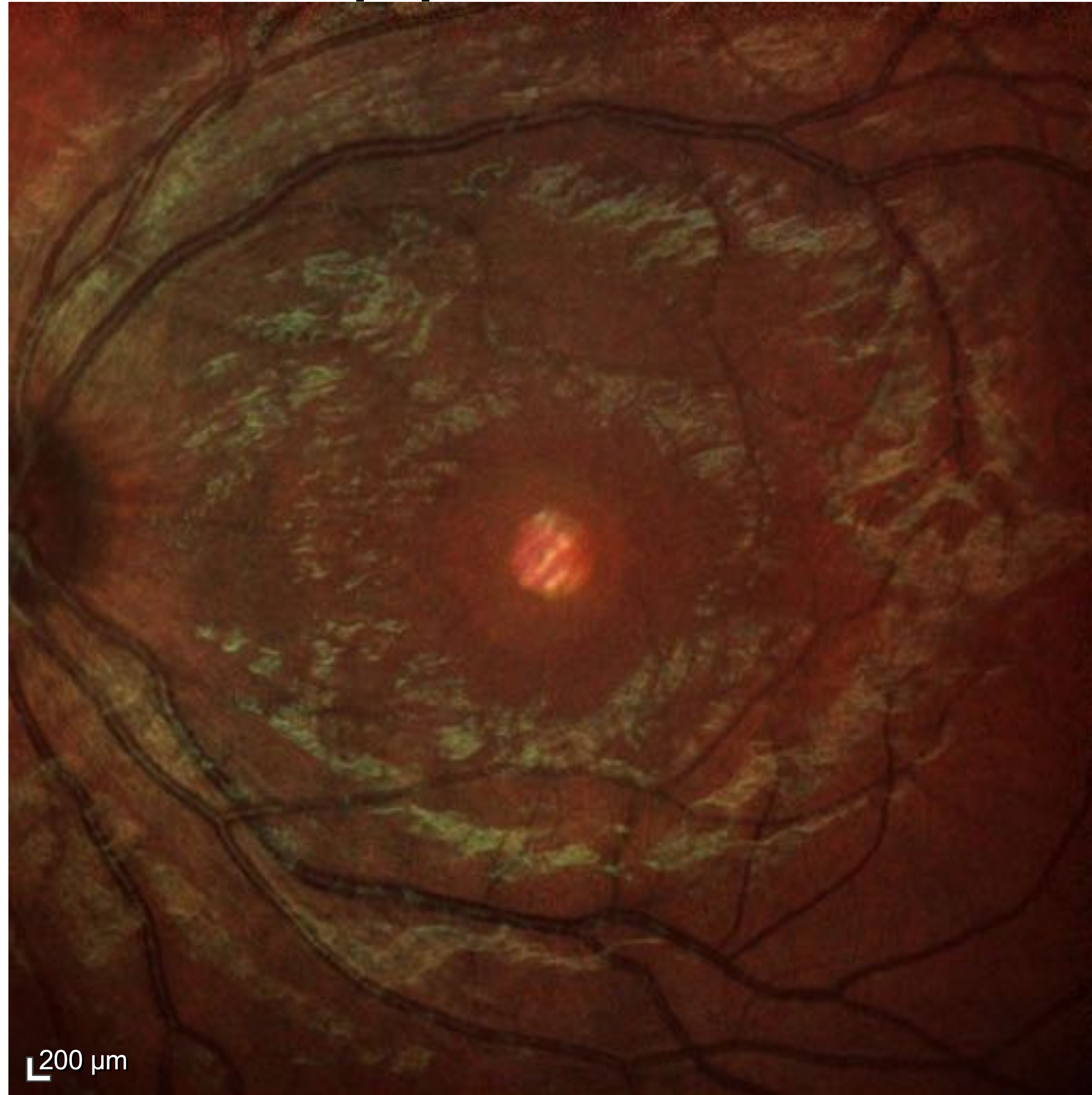
Green Reflectance



Blue Reflectance



MultiColor 30° ART [HR]



Color Balance: Standard

Infrared Reflectance



Green Reflectance



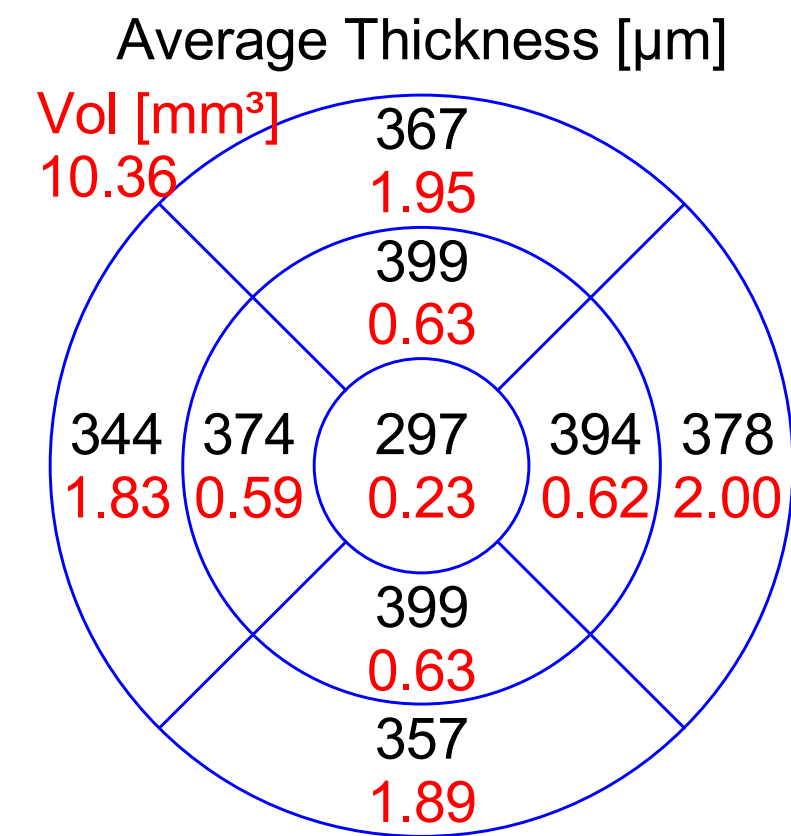
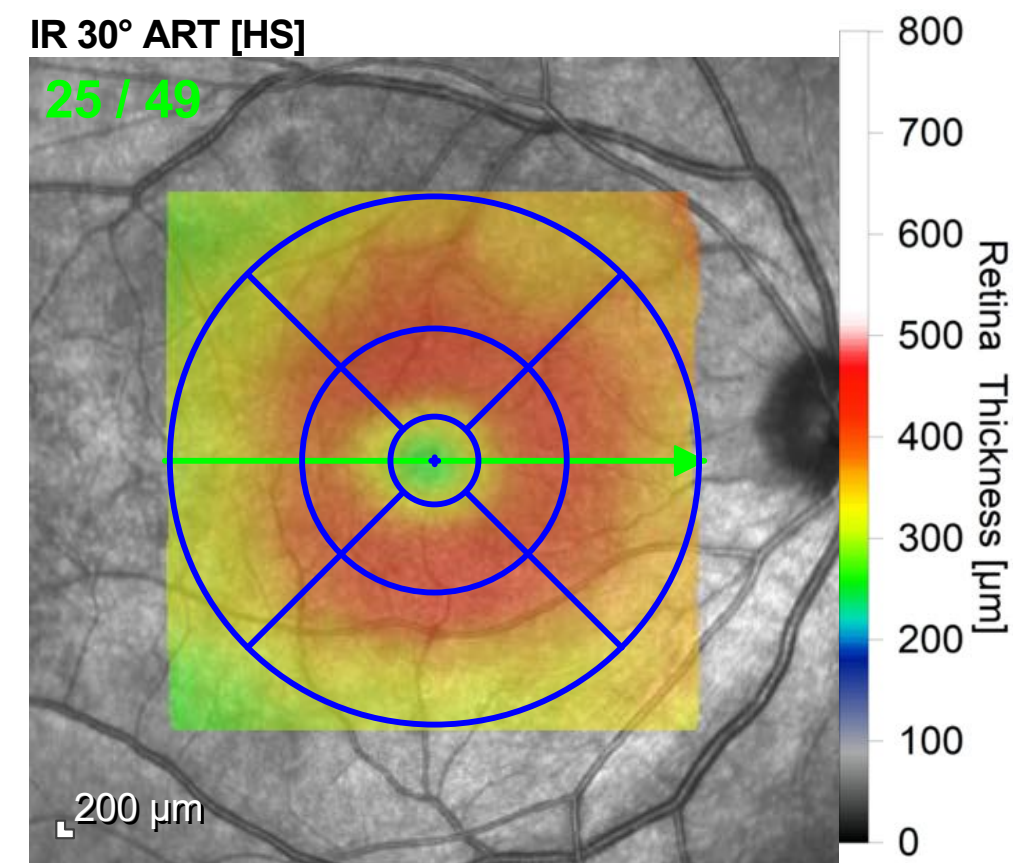
Blue Reflectance



OD

IR 30° ART [HS]

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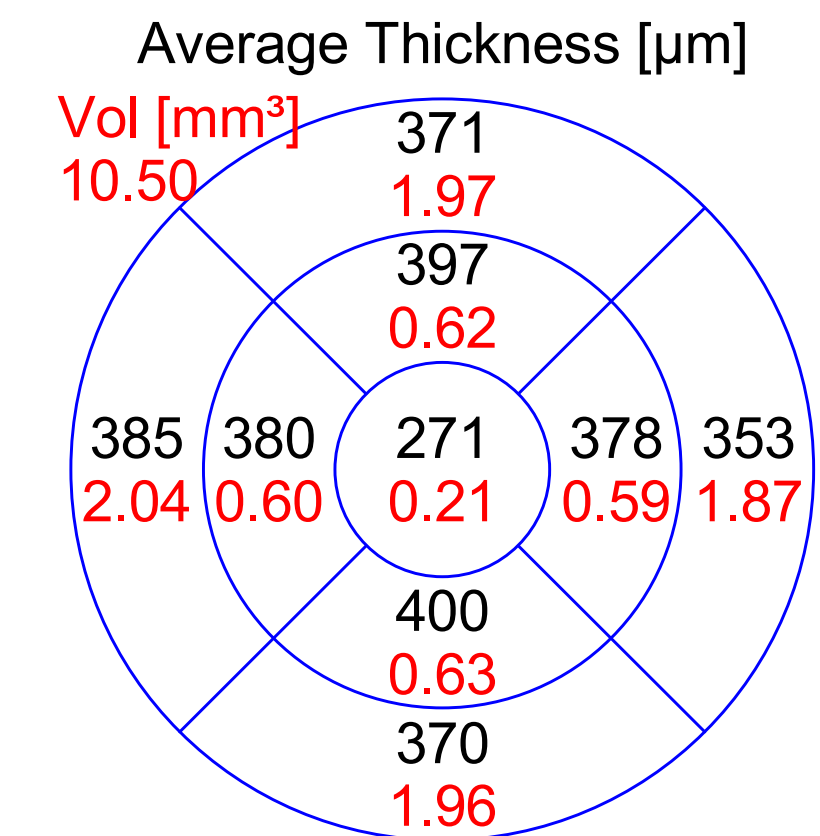
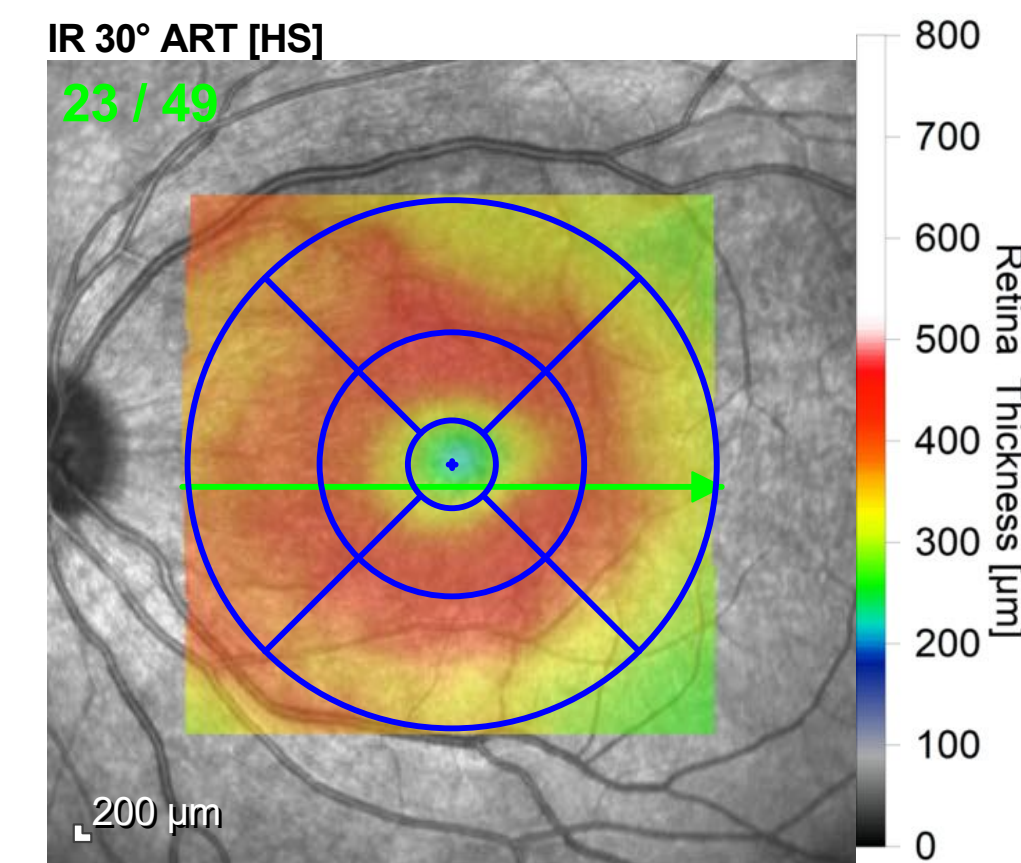


Center: 259 μm
Central Min: 257 μm
Central Max: 336 μm
Circle Diameters: 1, 3, 6 mm ETDRS

OS

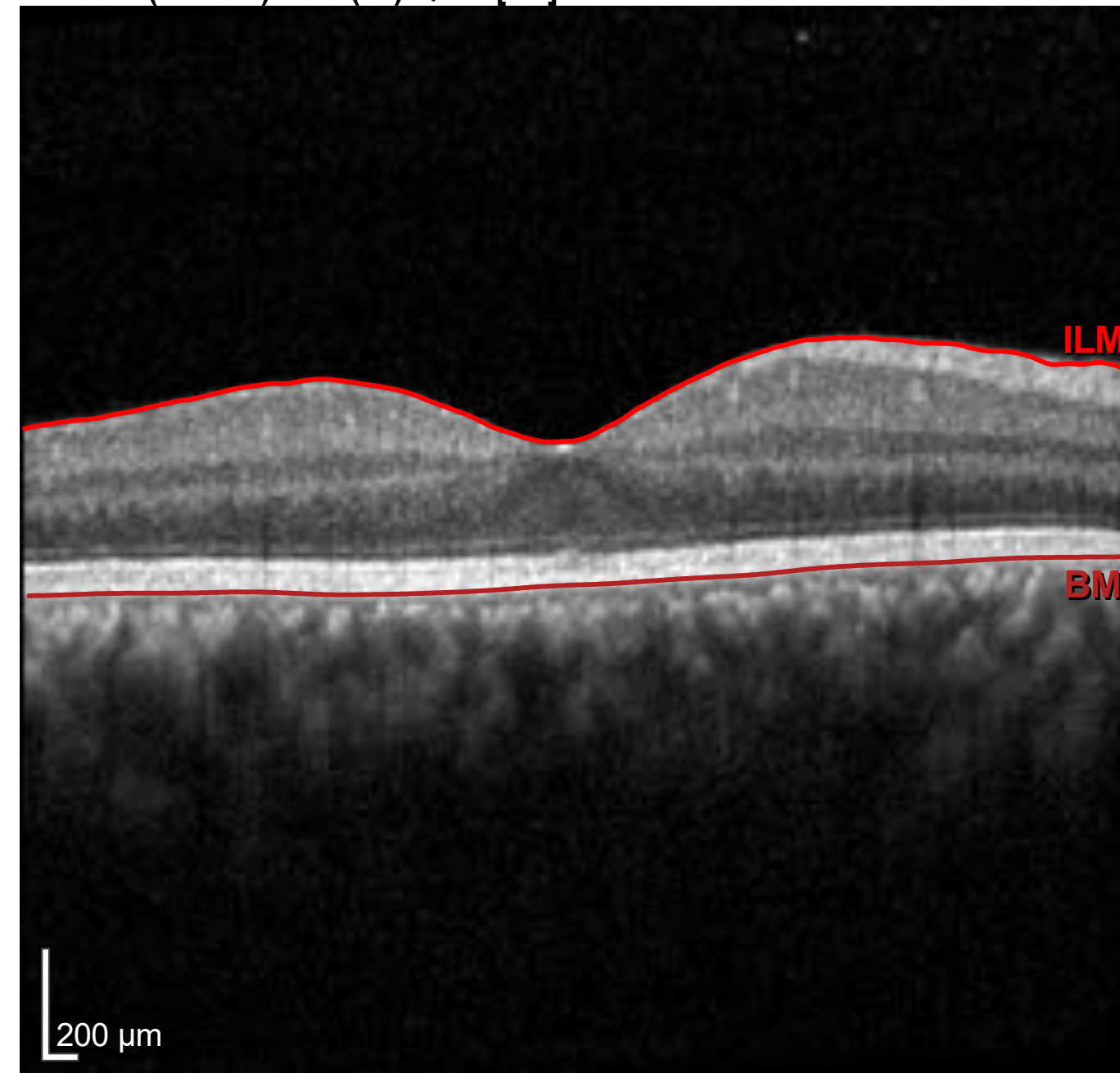
IR 30° ART [HS]

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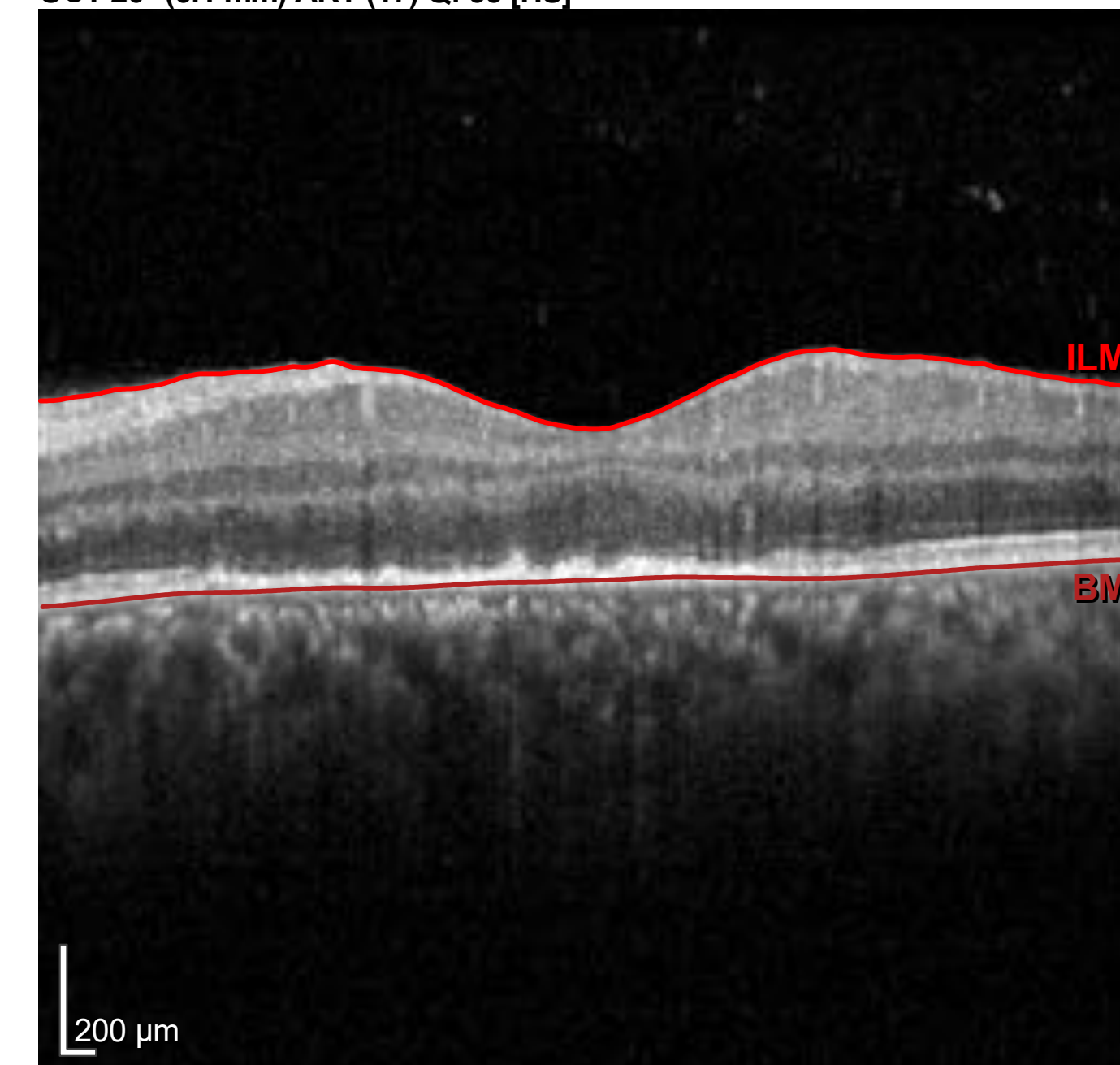


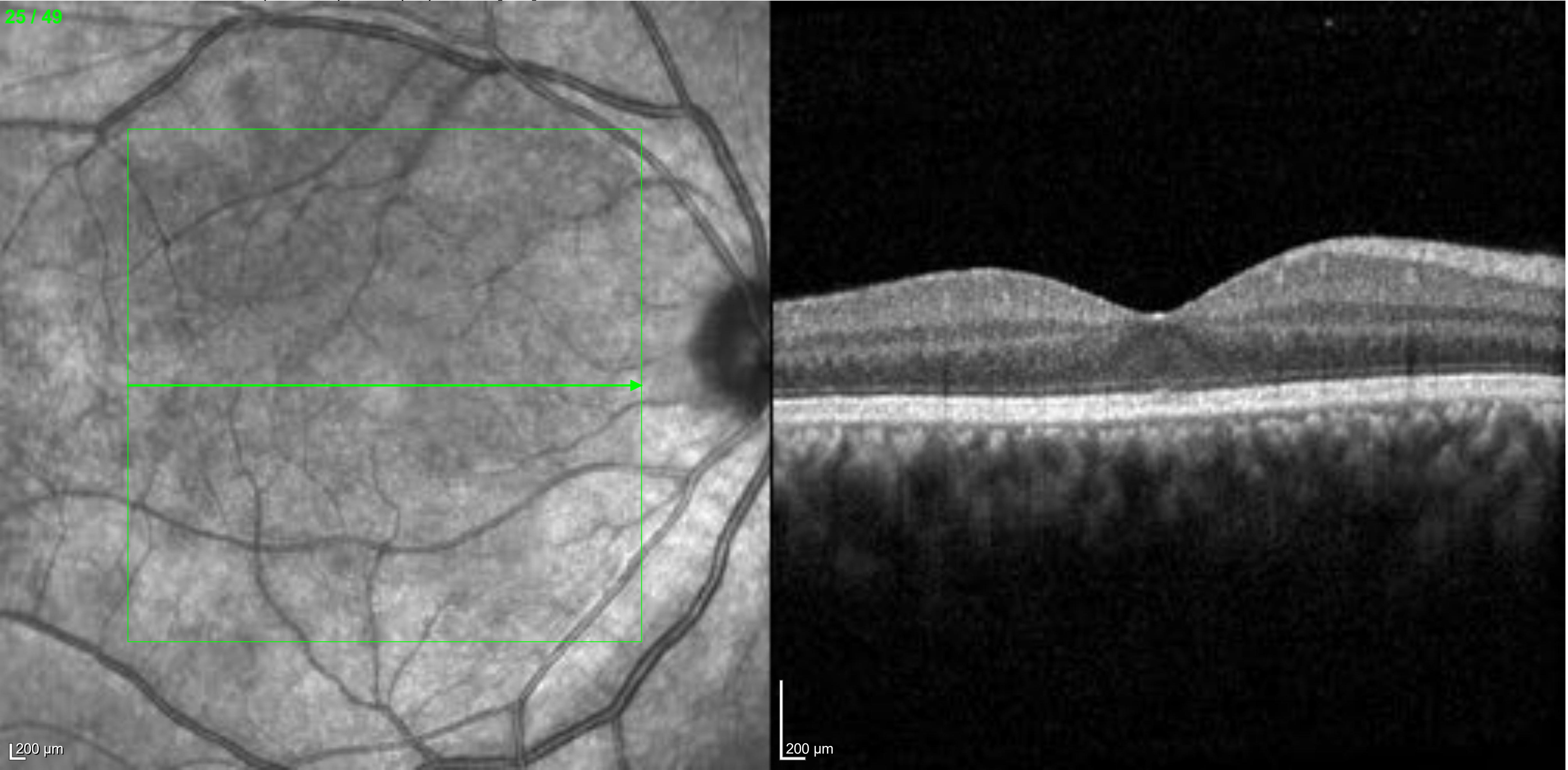
Center: 228 μm
Central Min: 223 μm
Central Max: 322 μm
Circle Diameters: 1, 3, 6 mm ETDRS

OCT 20° (6.1 mm) ART (15) Q: 33 [HS]



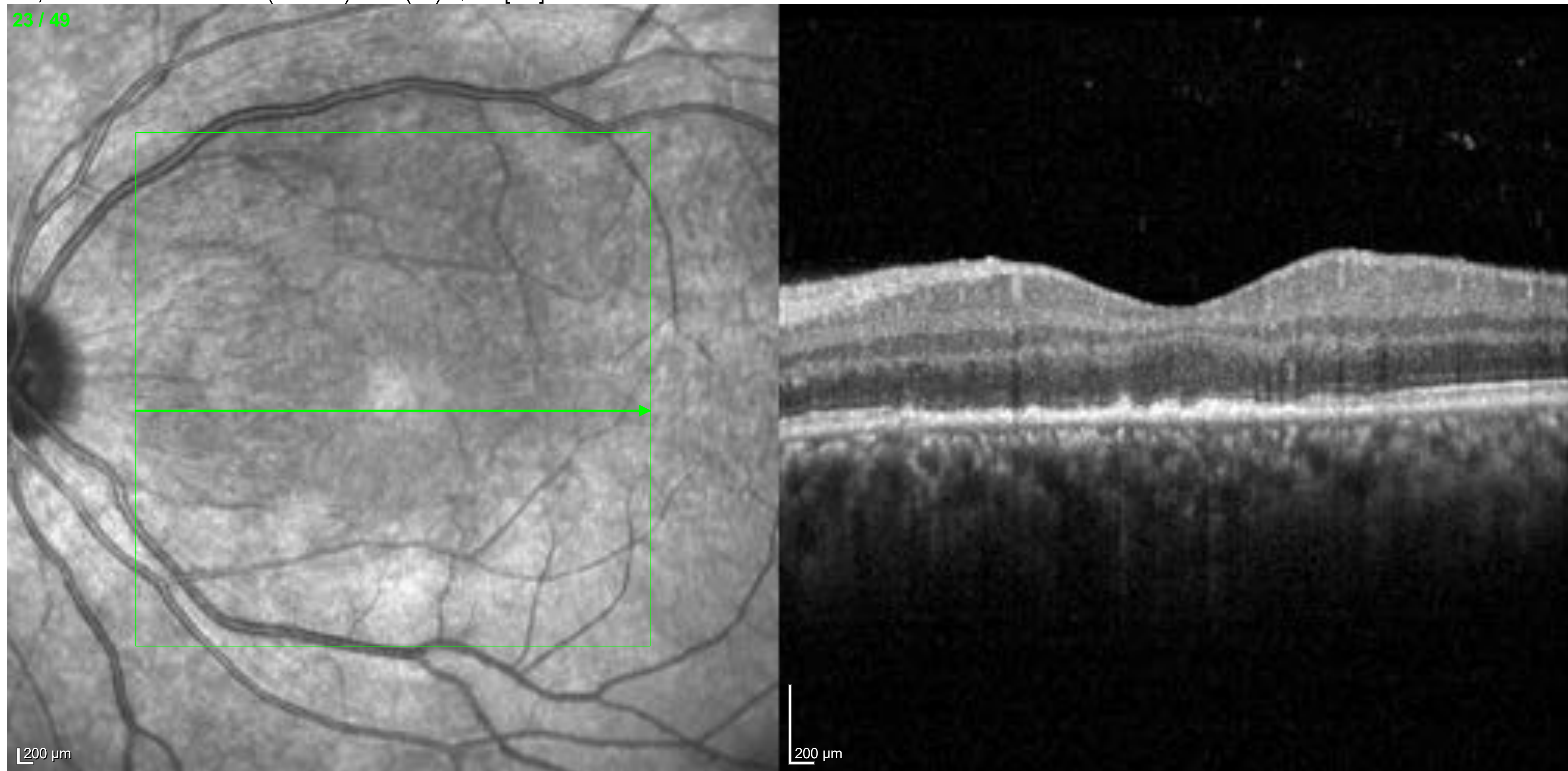
OCT 20° (6.1 mm) ART (17) Q: 33 [HS]





OS, IR 30° ART + OCT 20° (6.1 mm) ART (17) Q: 33 [HS]

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- Dx???
- Management??

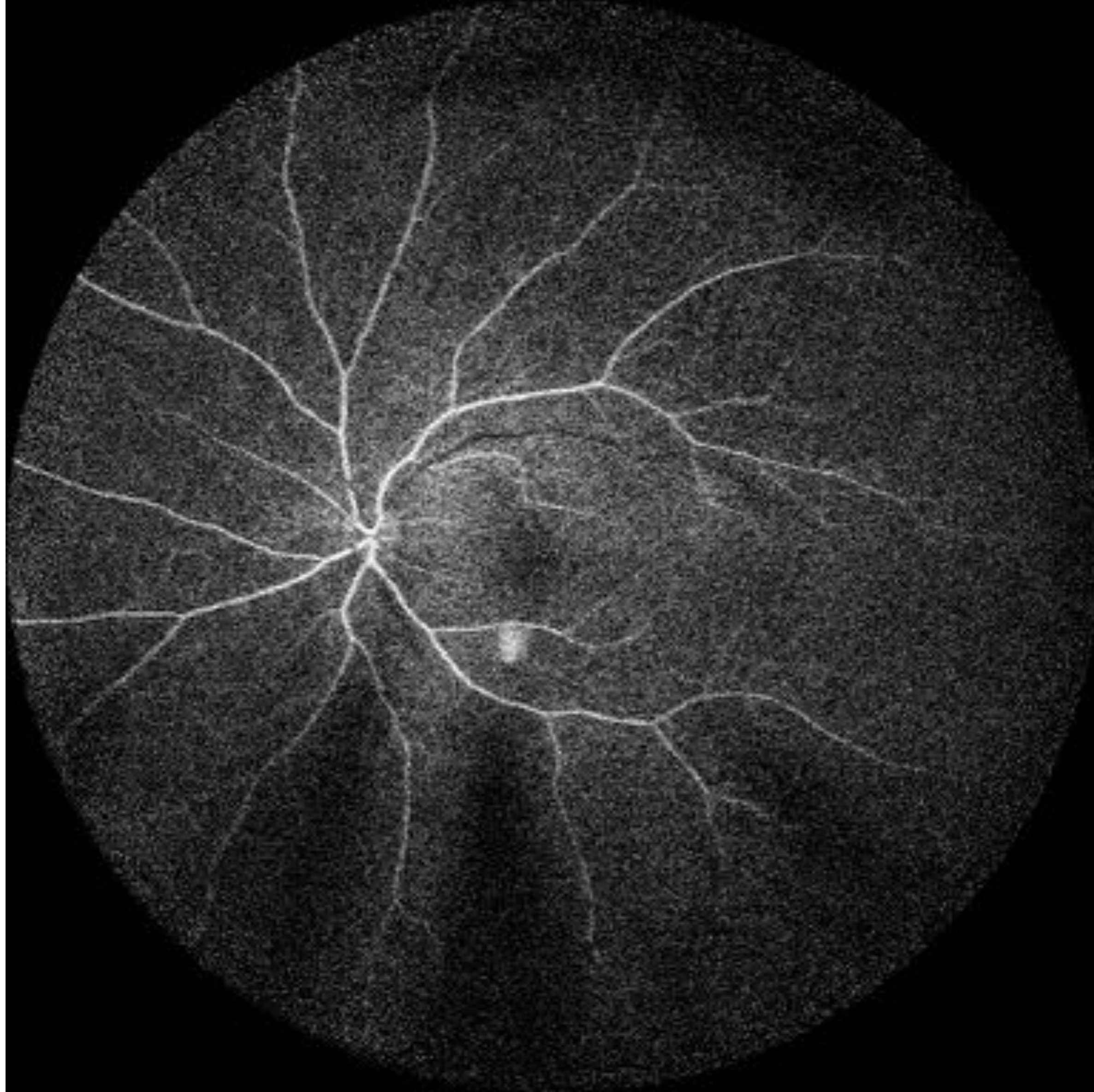
BAF 55° ART [HS]



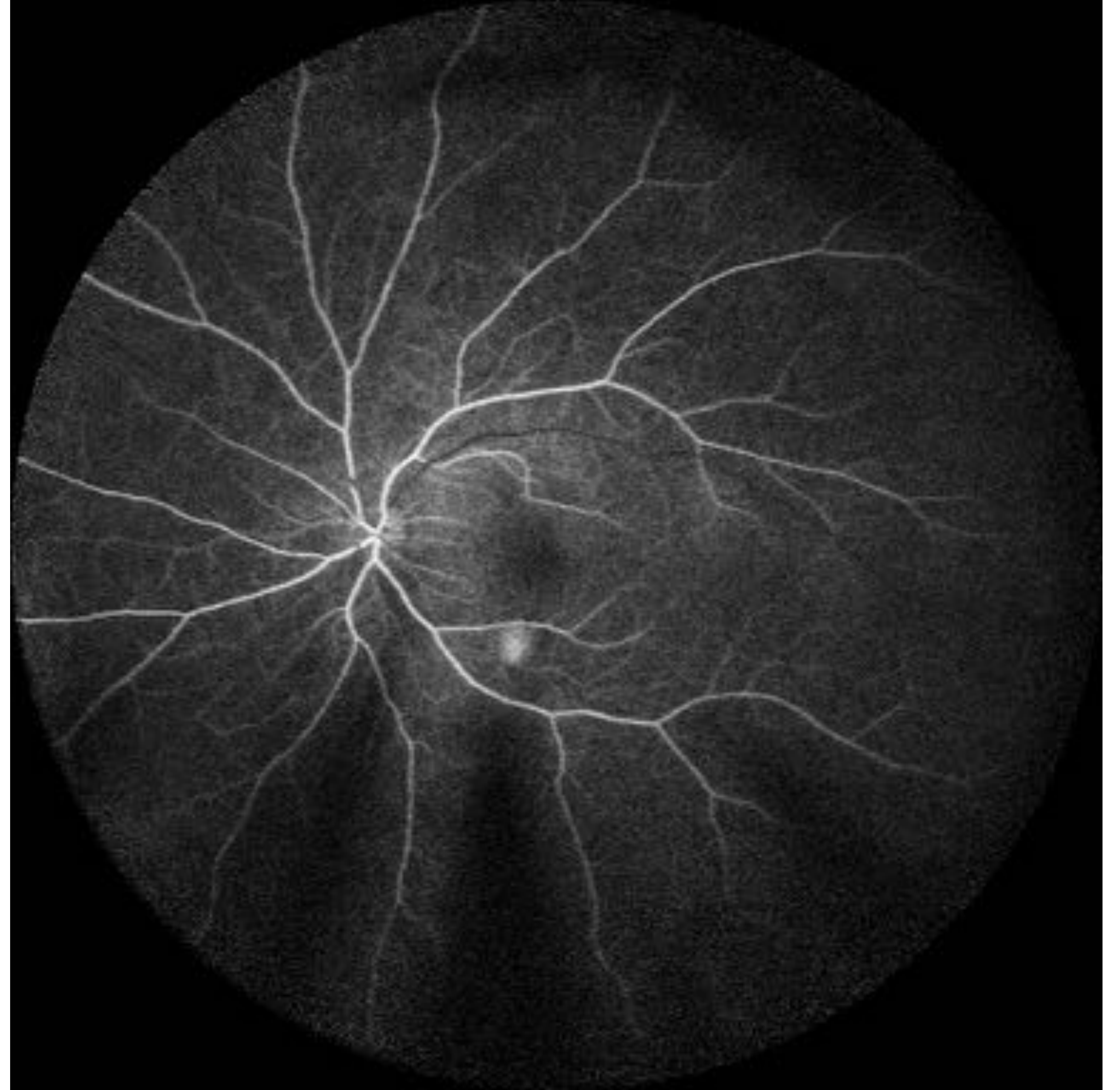
BAF 30° ART [HS]



FA 0:18.04 102°ART [HS]



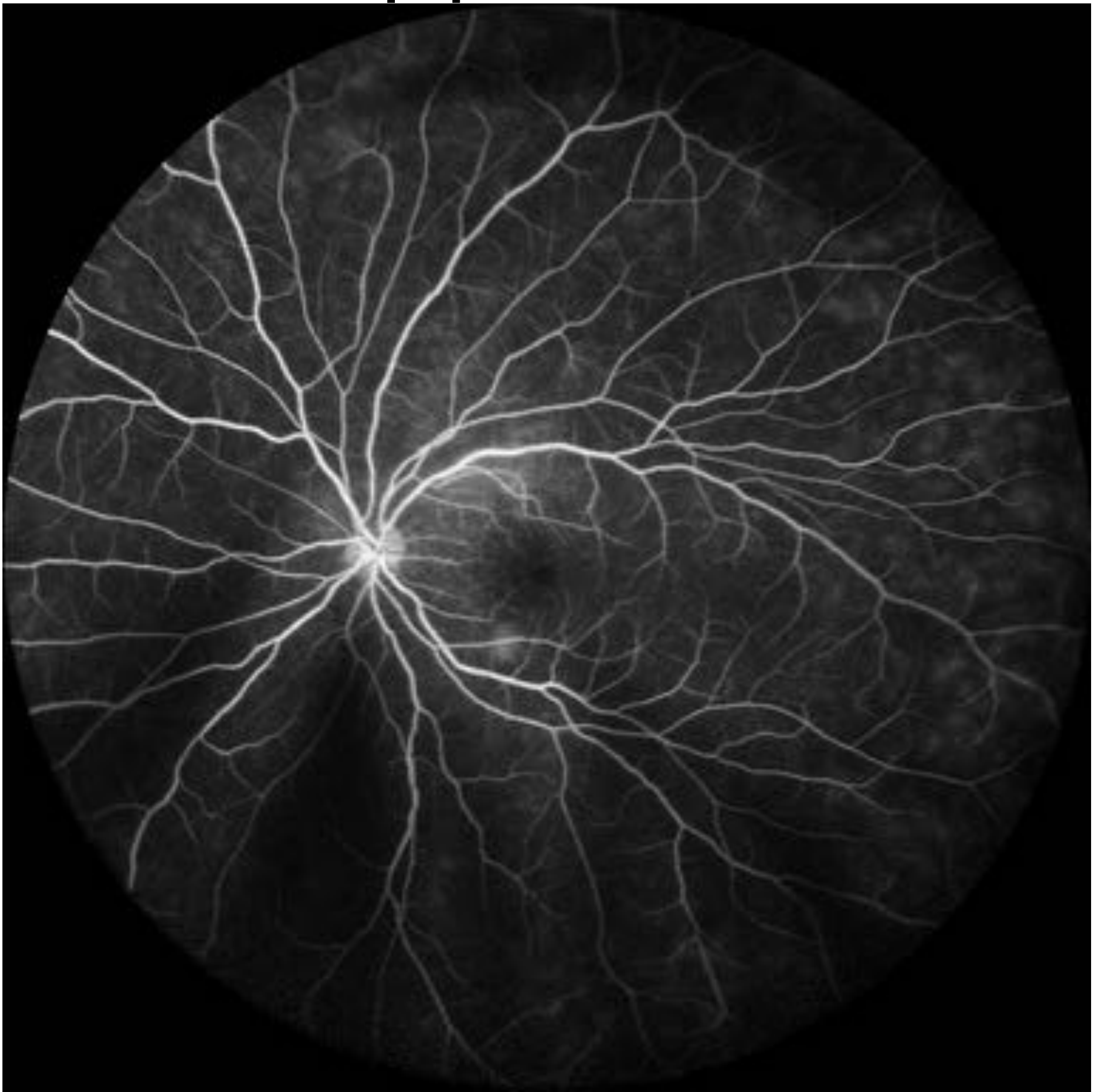
FA 0:18.96 102°ART [HS]



FA 0:24.81 102°ART [HS]



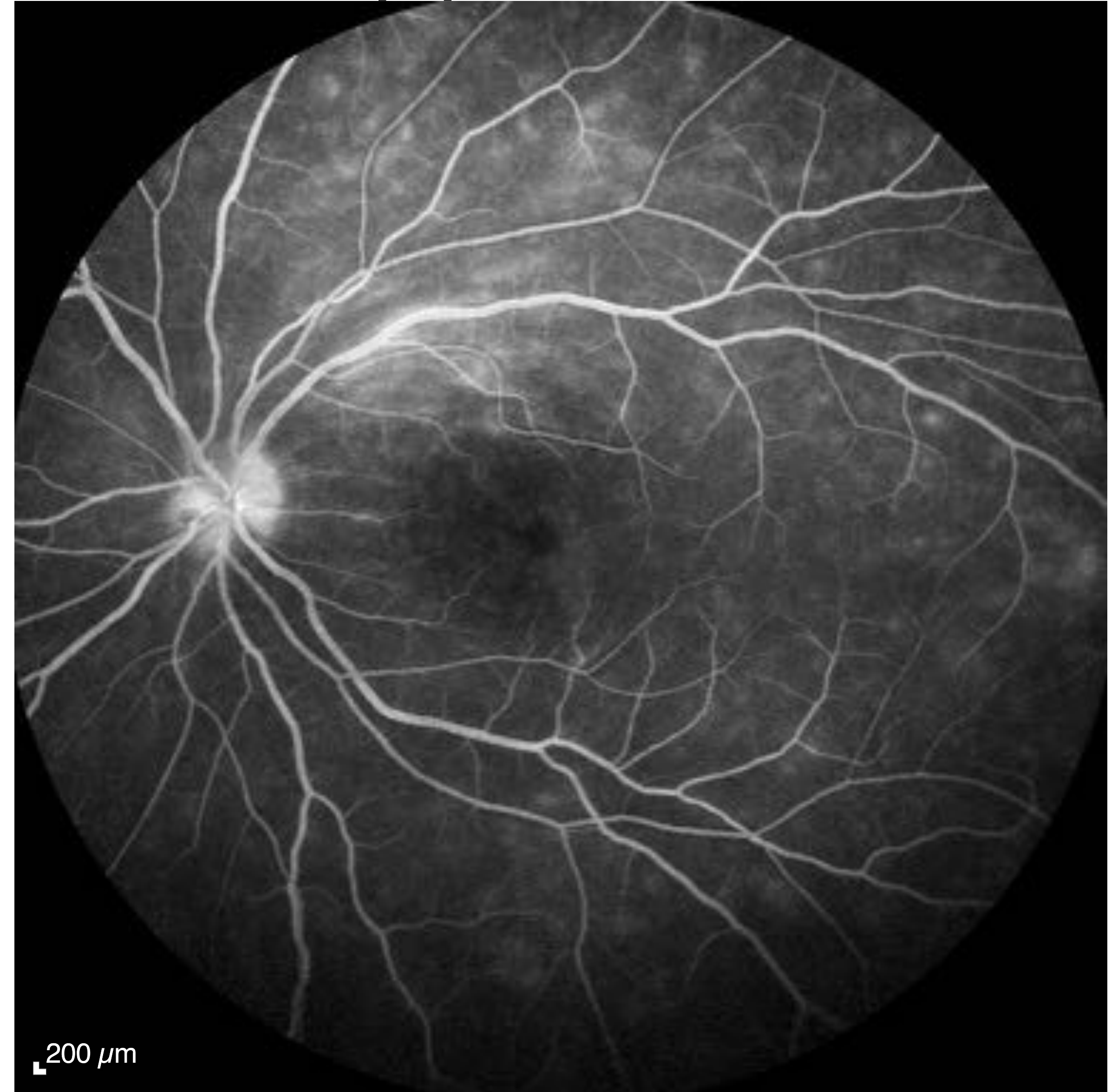
FA 1:14.53 102°ART [HS]



FA 4:13.96 55° ART [HS]



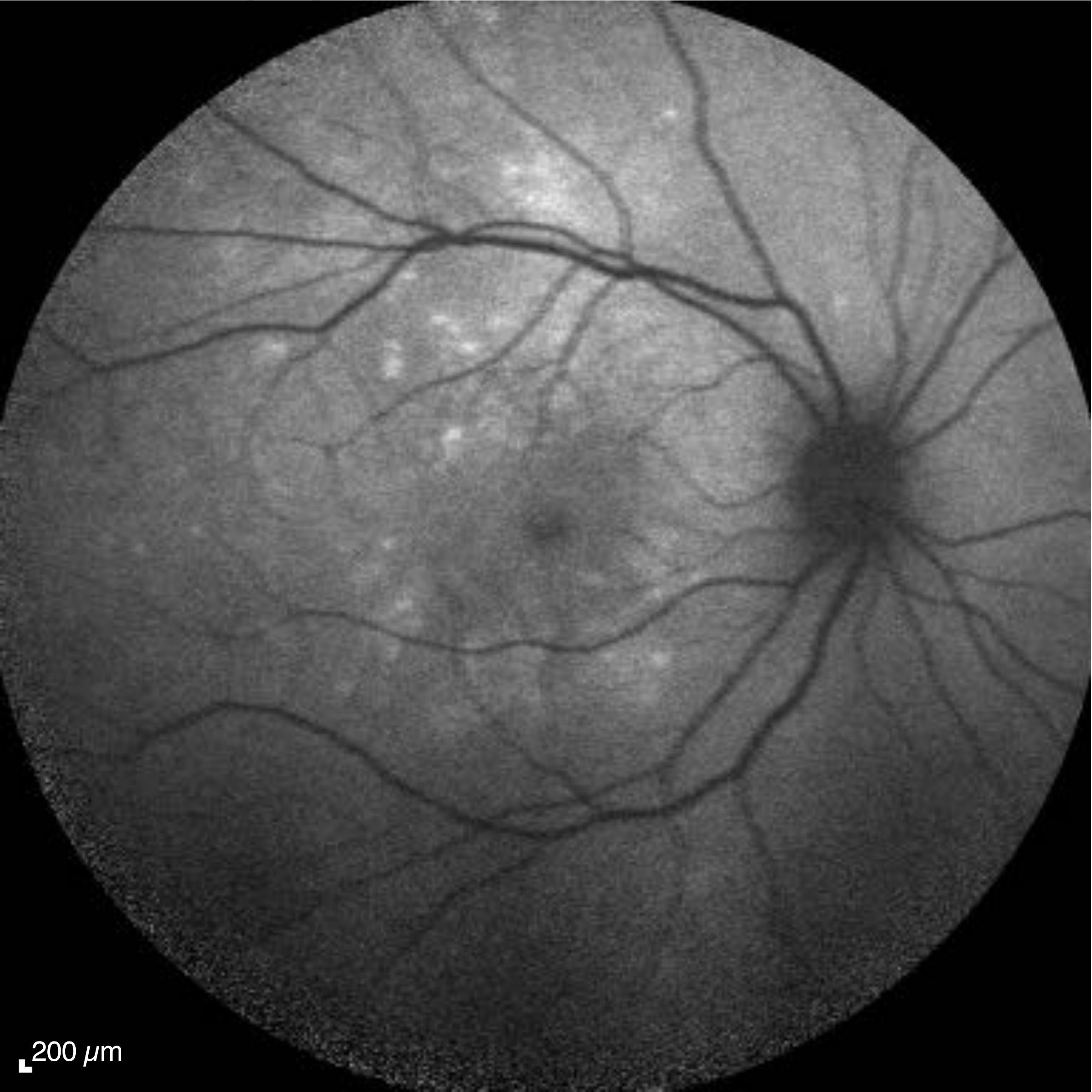
FA 5:01.42 55° ART [HS]



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- And now?

BAF 55°ART [HS]



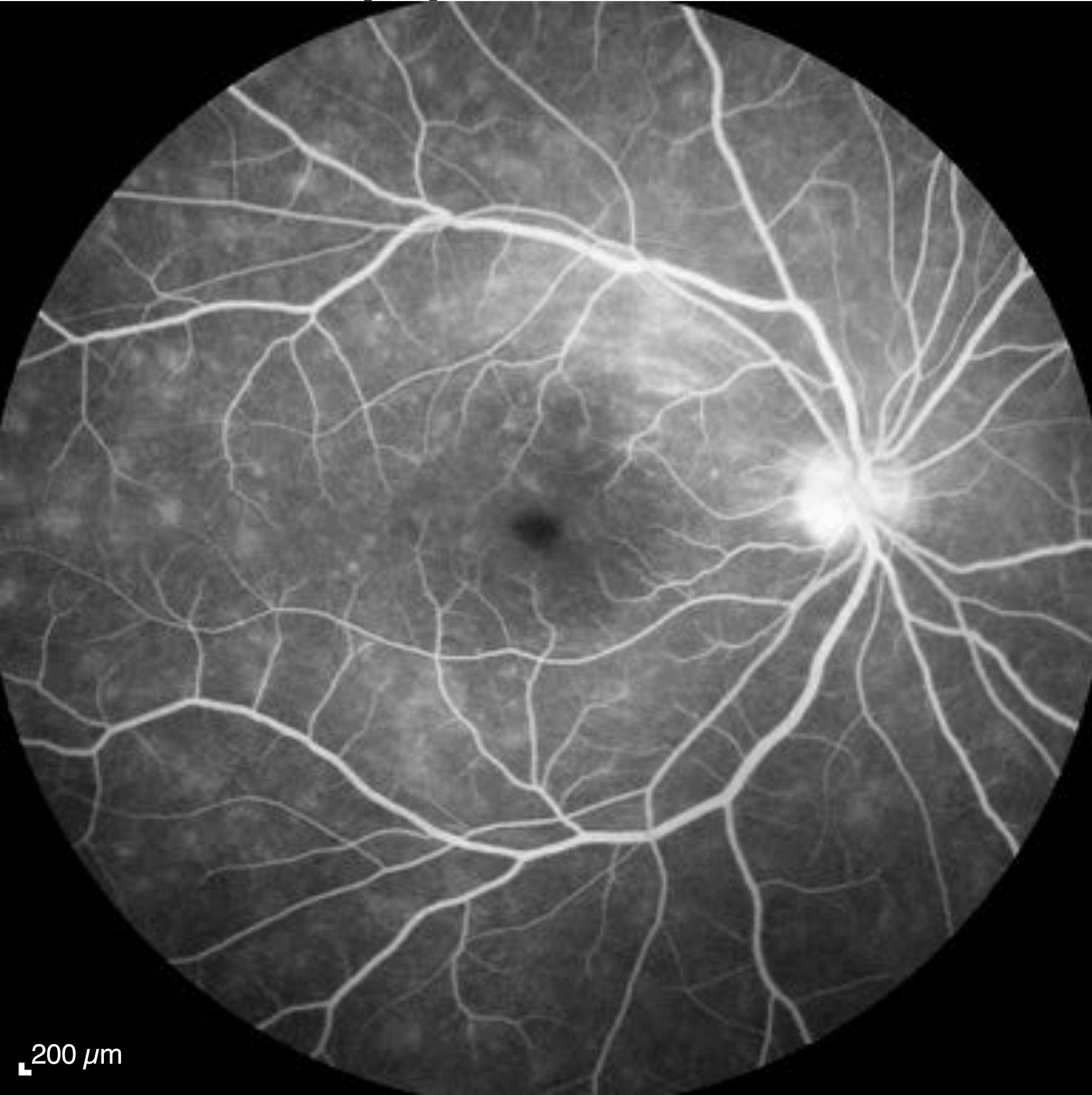
BAF 30°ART [HS]



FA 0:48.98 102° ART [HS]



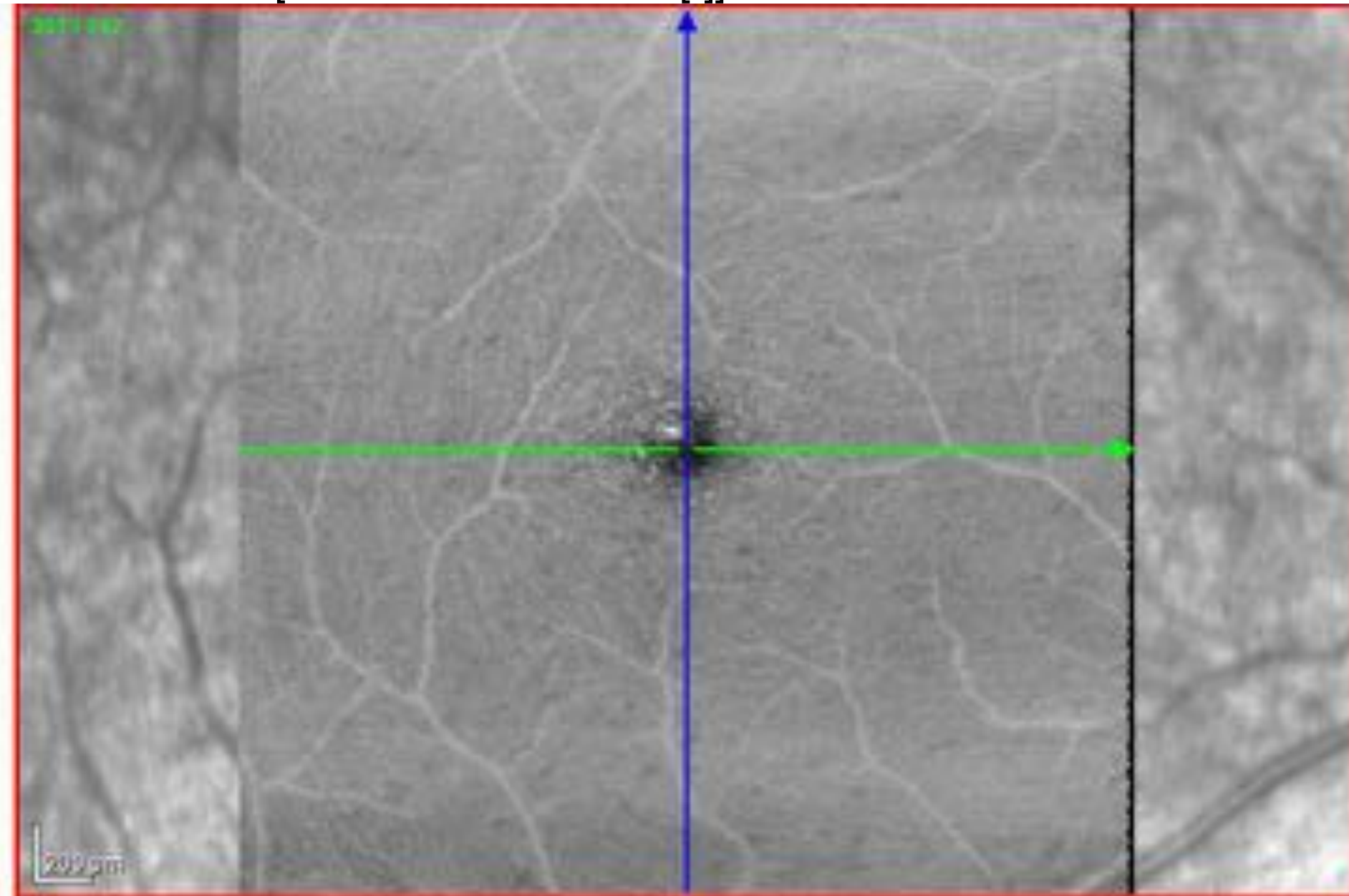
FA 4:44.34 55° ART [HS]



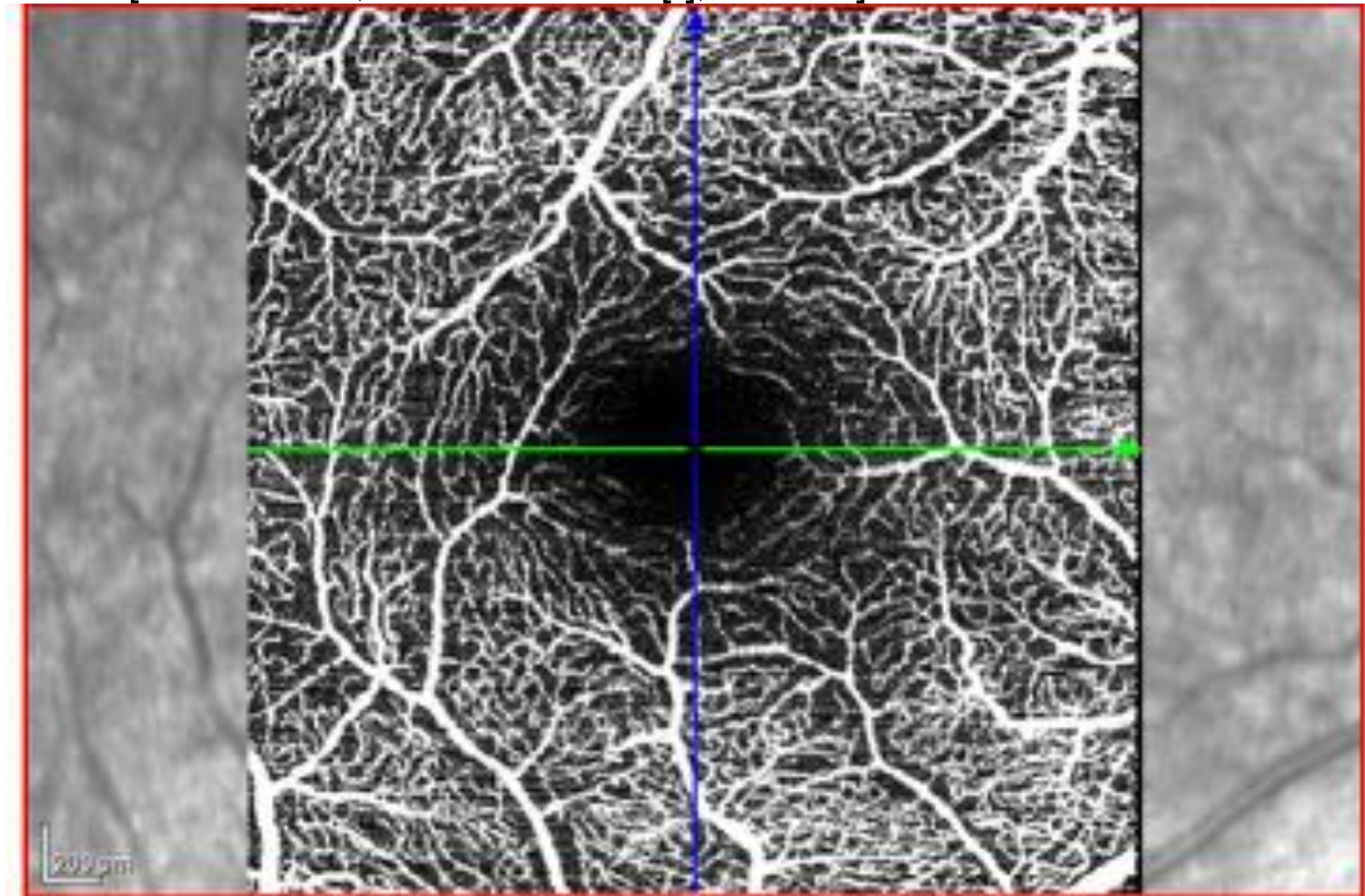
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- And now?

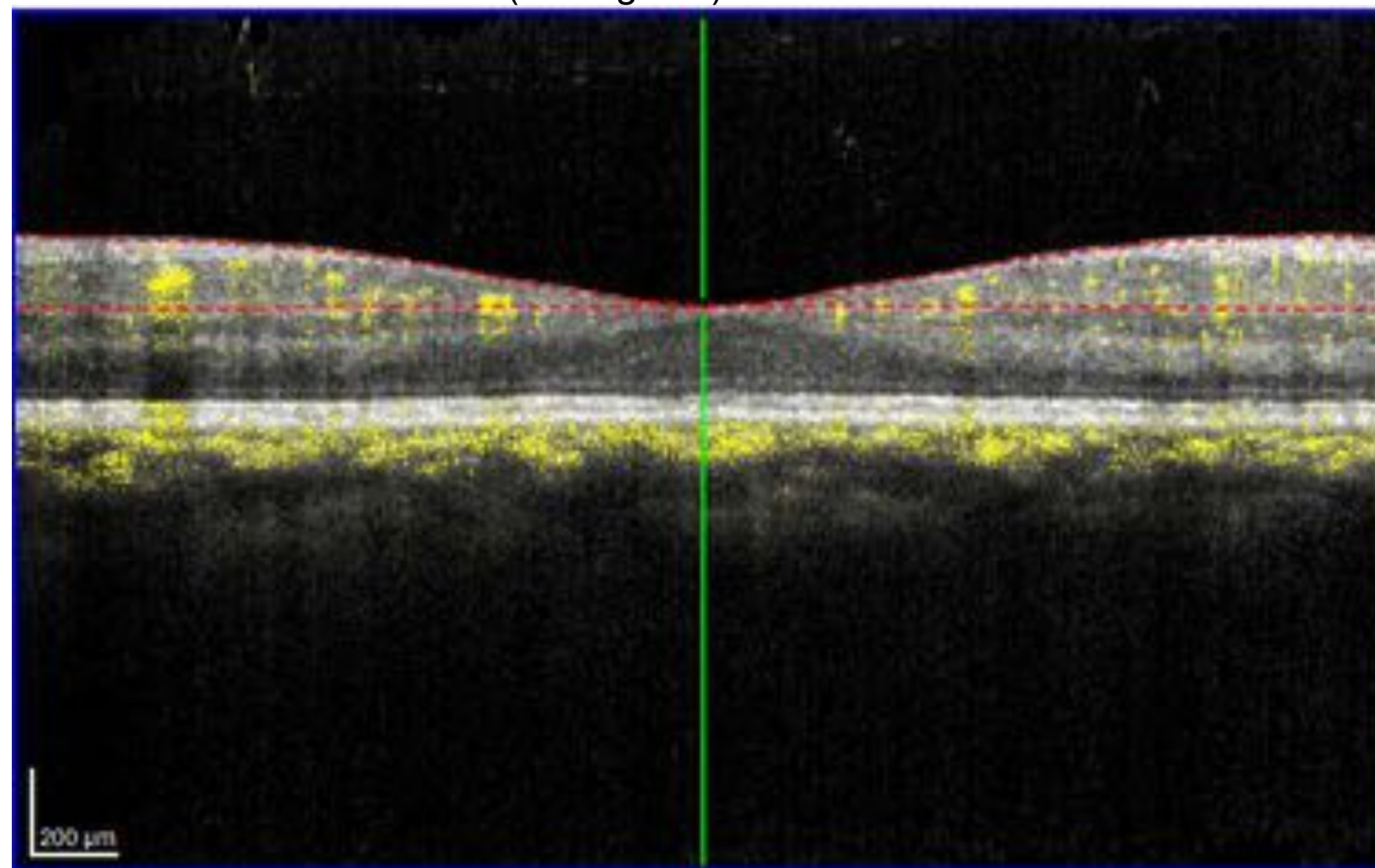
Structural OCT [Mean from ILM to IPL [-]]



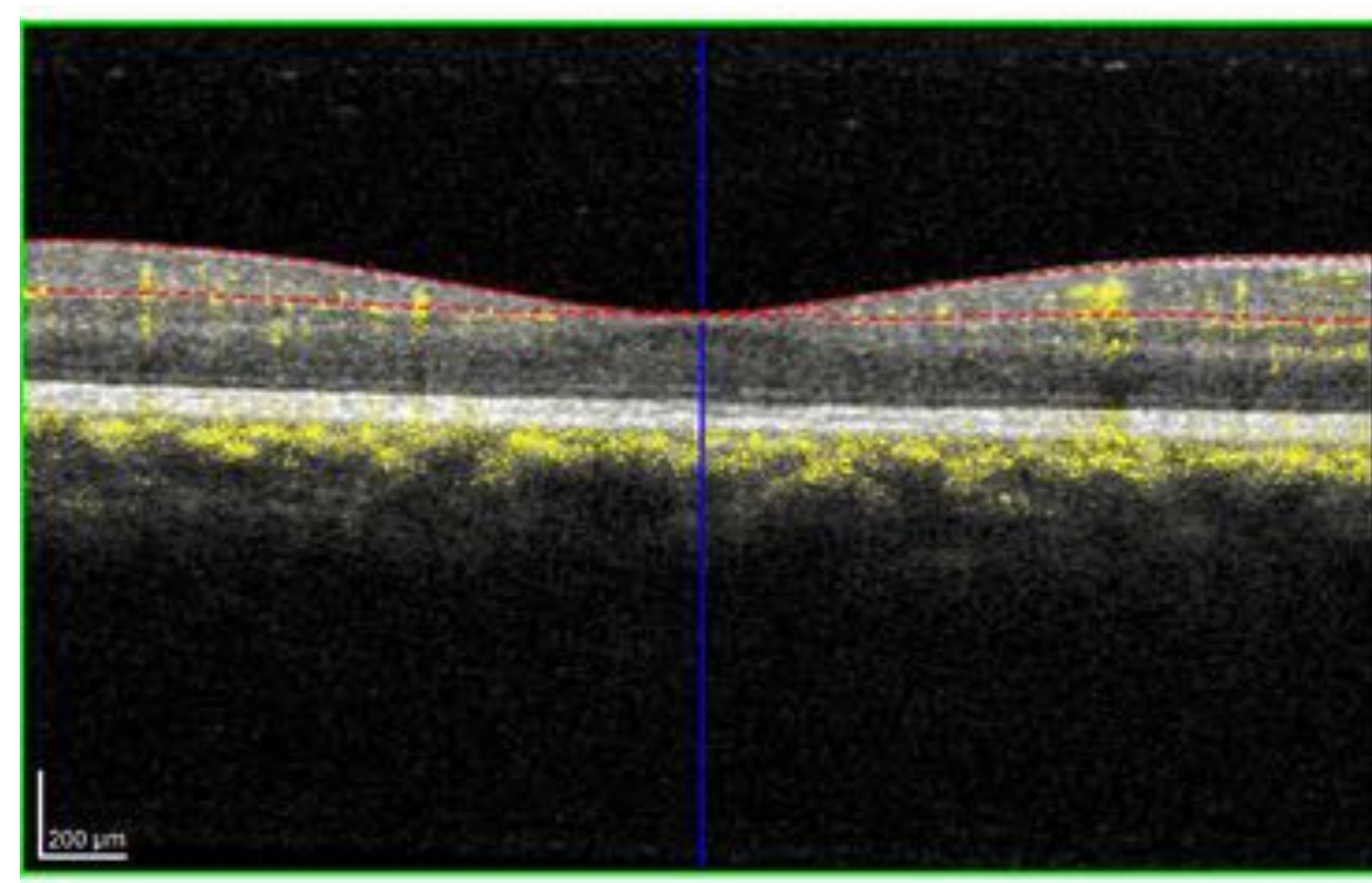
OCTA [Contrast 1:4, from ILM to IPL [-]; PAR off]



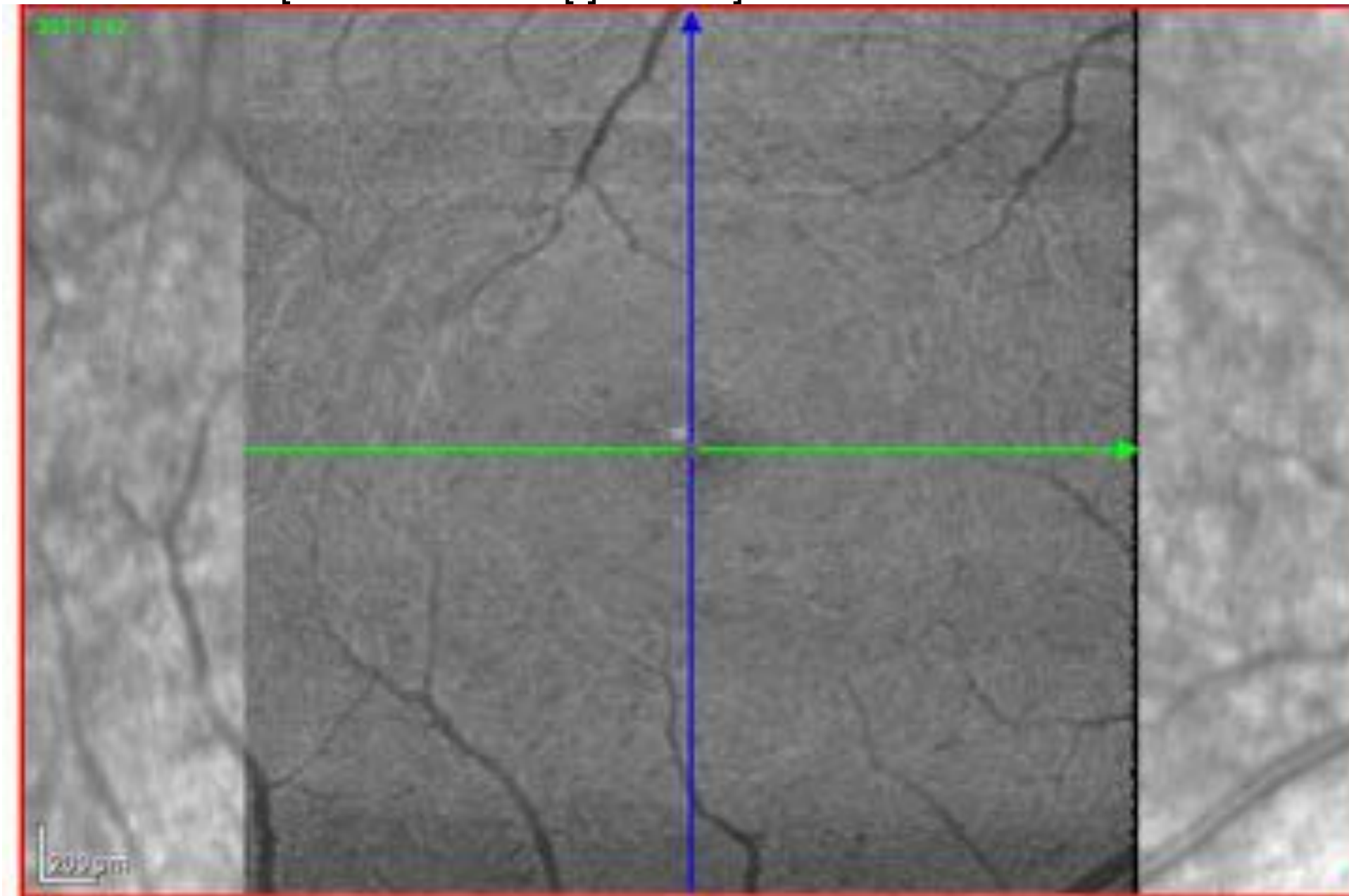
100% Struct. + 100% OCTA (Orthogonal)



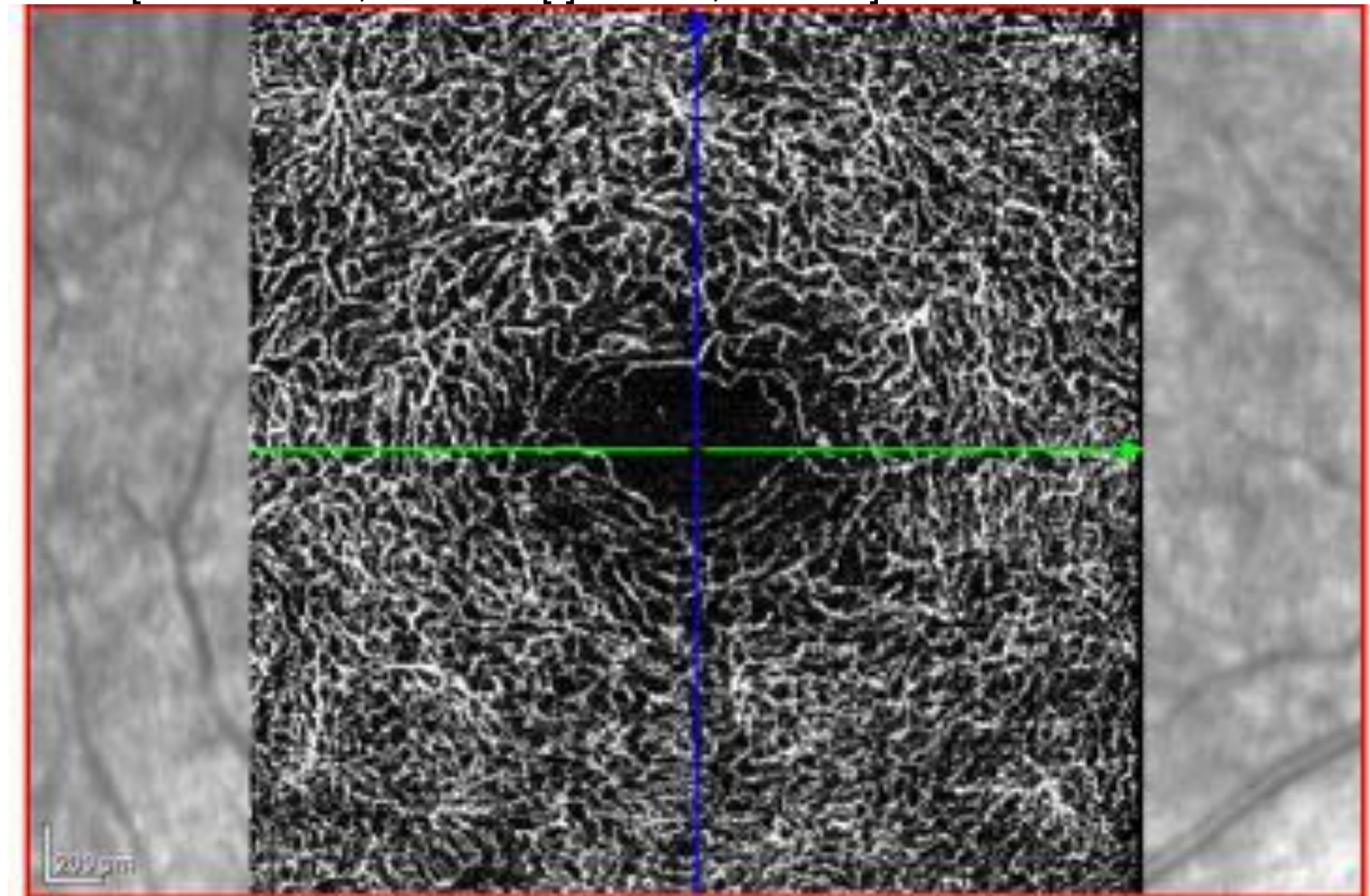
100% Struct. + 100% OCTA



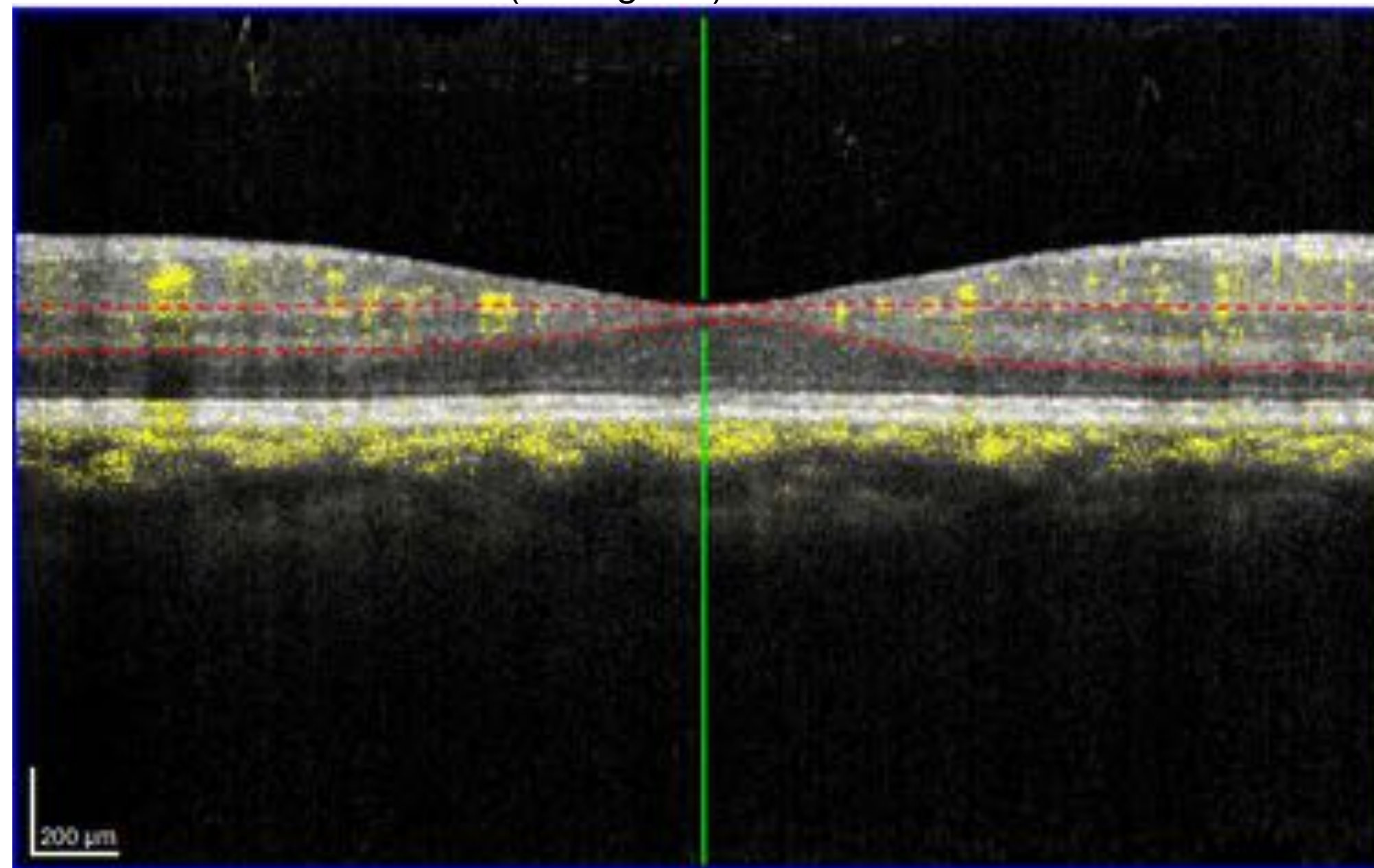
Structural OCT [Mean from IPL [-] to OPL]



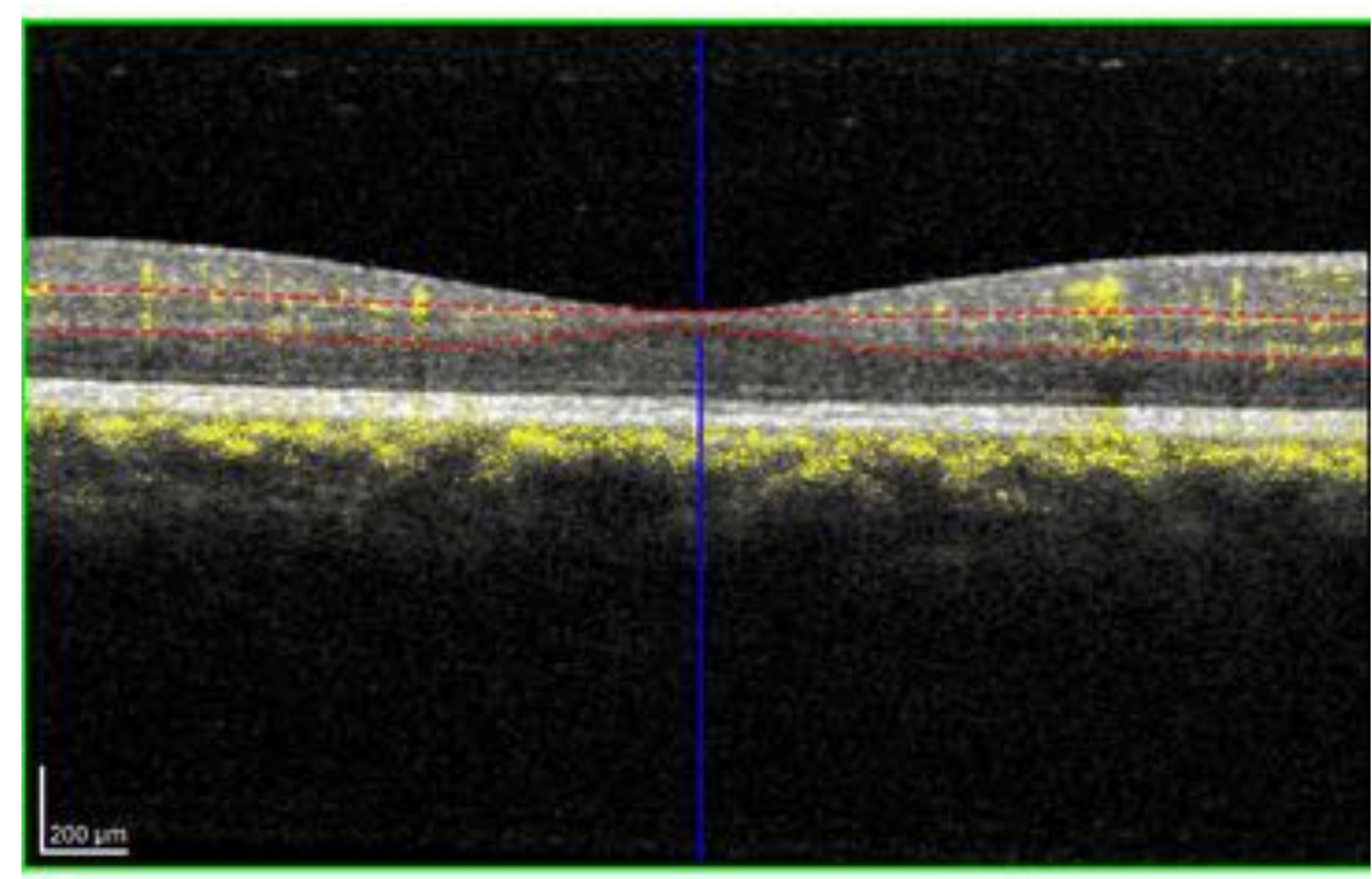
OCTA [Contrast 1:4, from IPL [-] to OPL; PAR on]



100% Struct. + 100% OCTA (Orthogonal)



100% Struct. + 100% OCTA

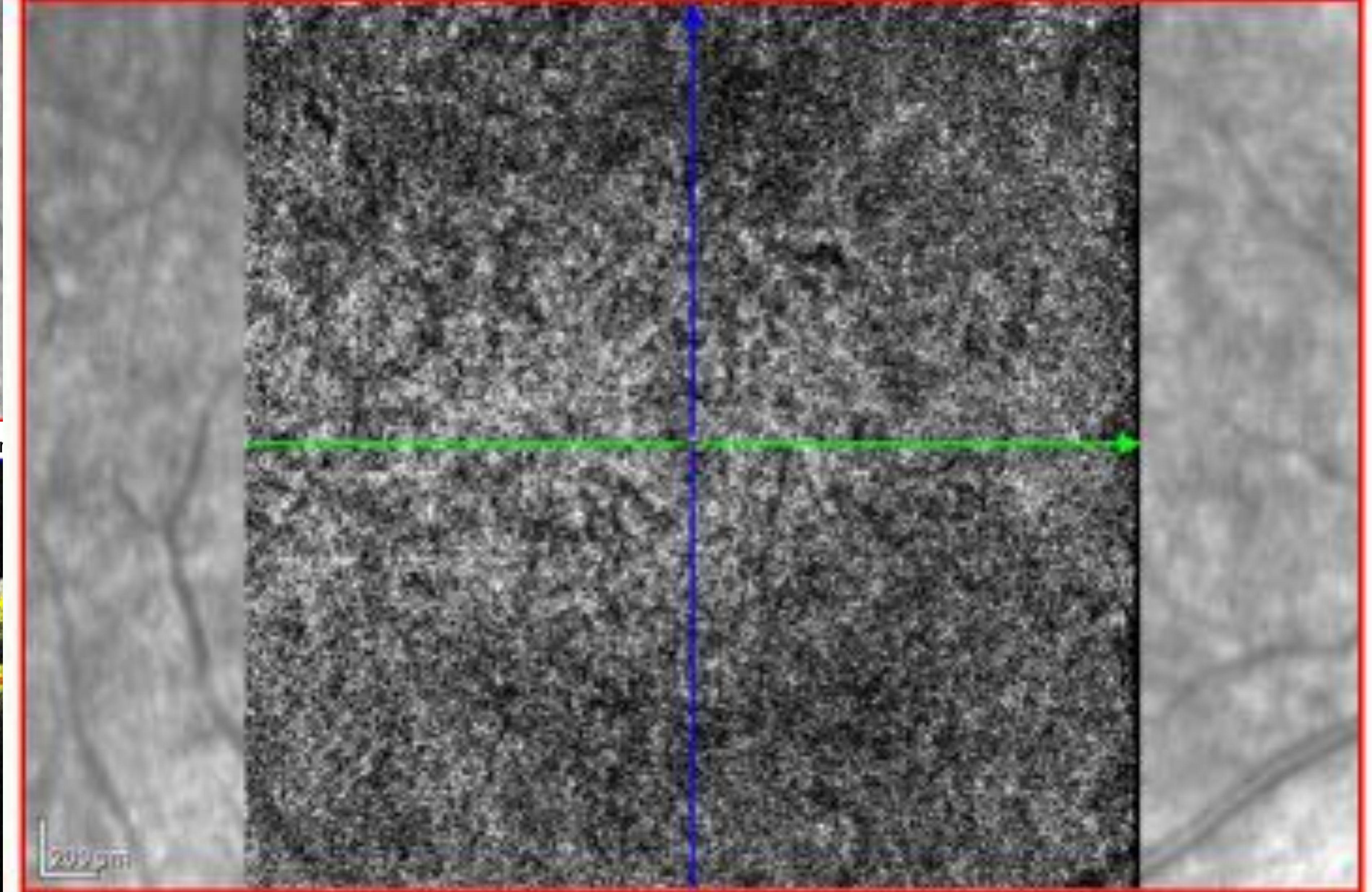


Structural OCT [Mean from BM, Dist: 10μm, Thickn: 20μm]

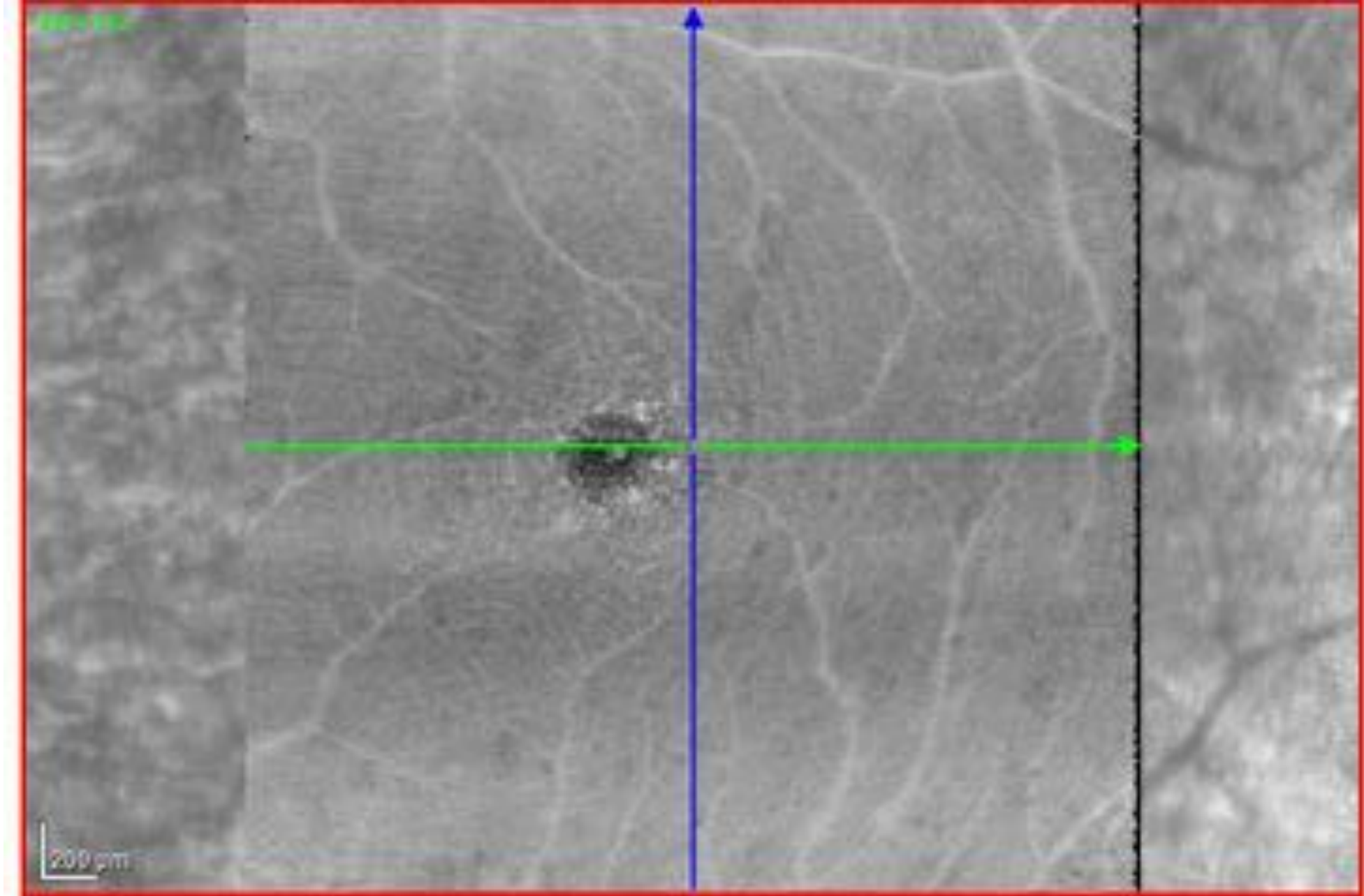
OCTA [Contrast 1:4, from BM, Dist: 10μm, Thickn: 20μm; PAR on]

OCTA [Contrast 1:4, from BM, Dist: 10μm, Thickn: 20μm; PAR on]

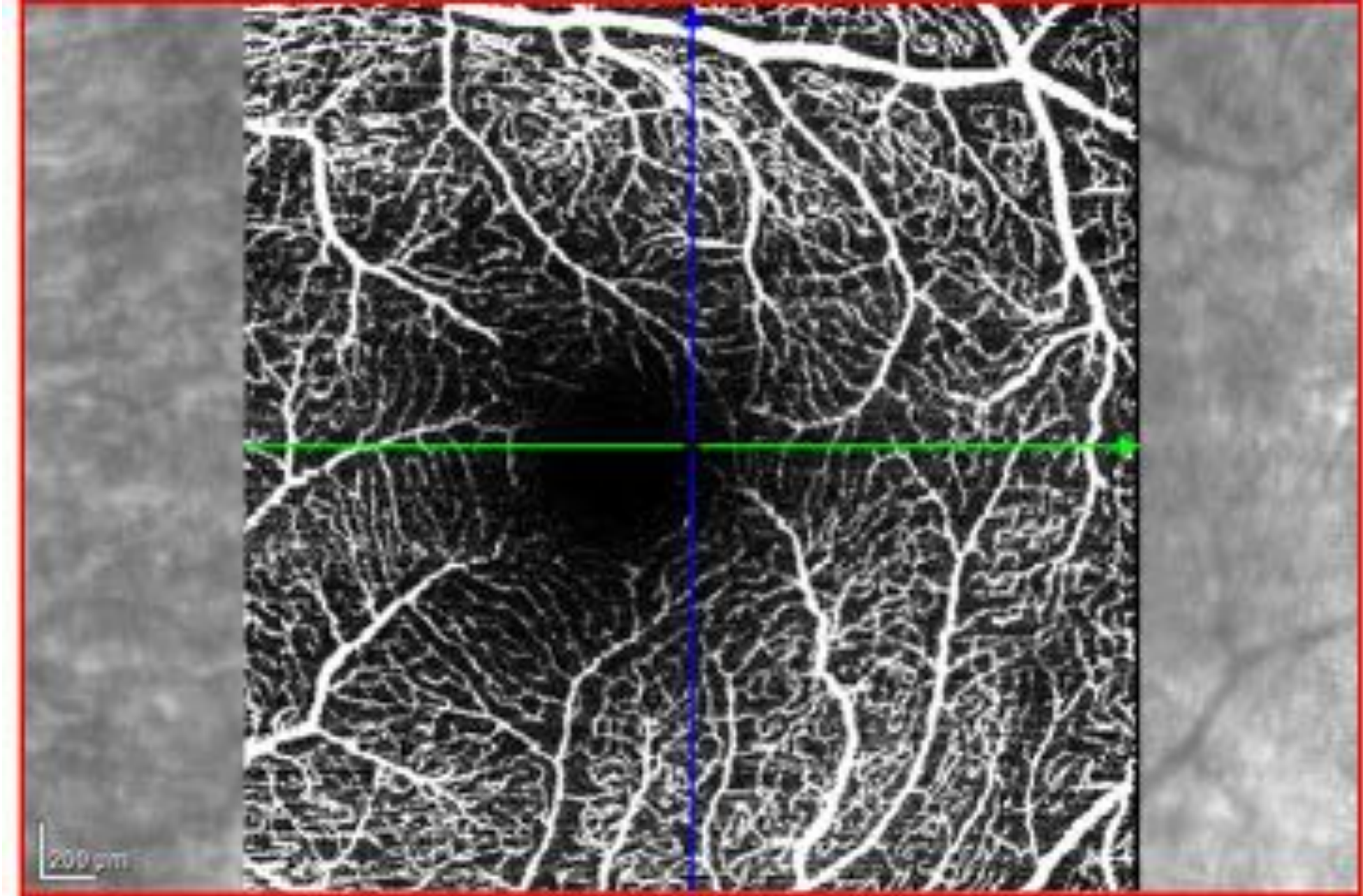
100% Str



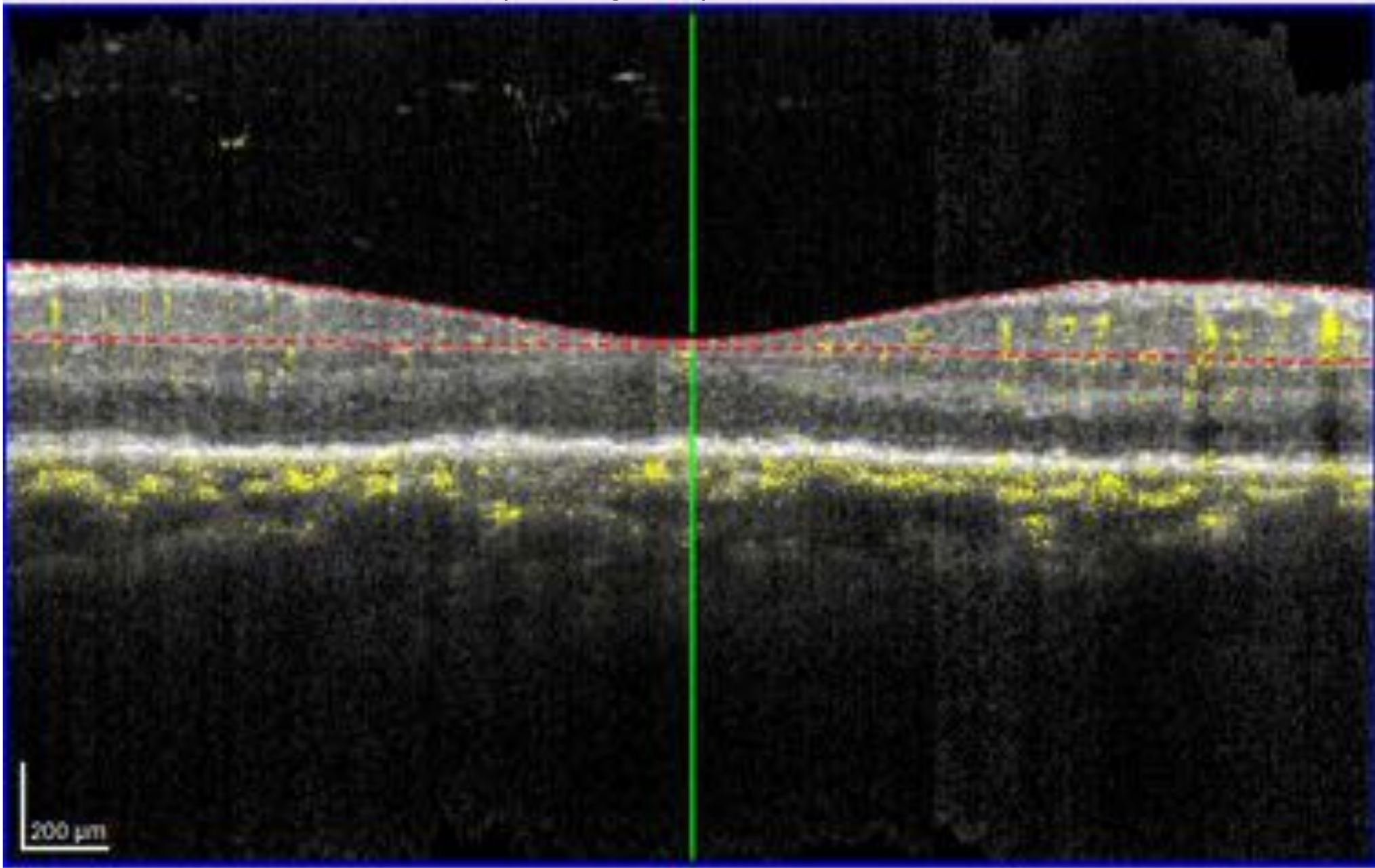
Structural OCT [Mean from ILM to IPL [-]]



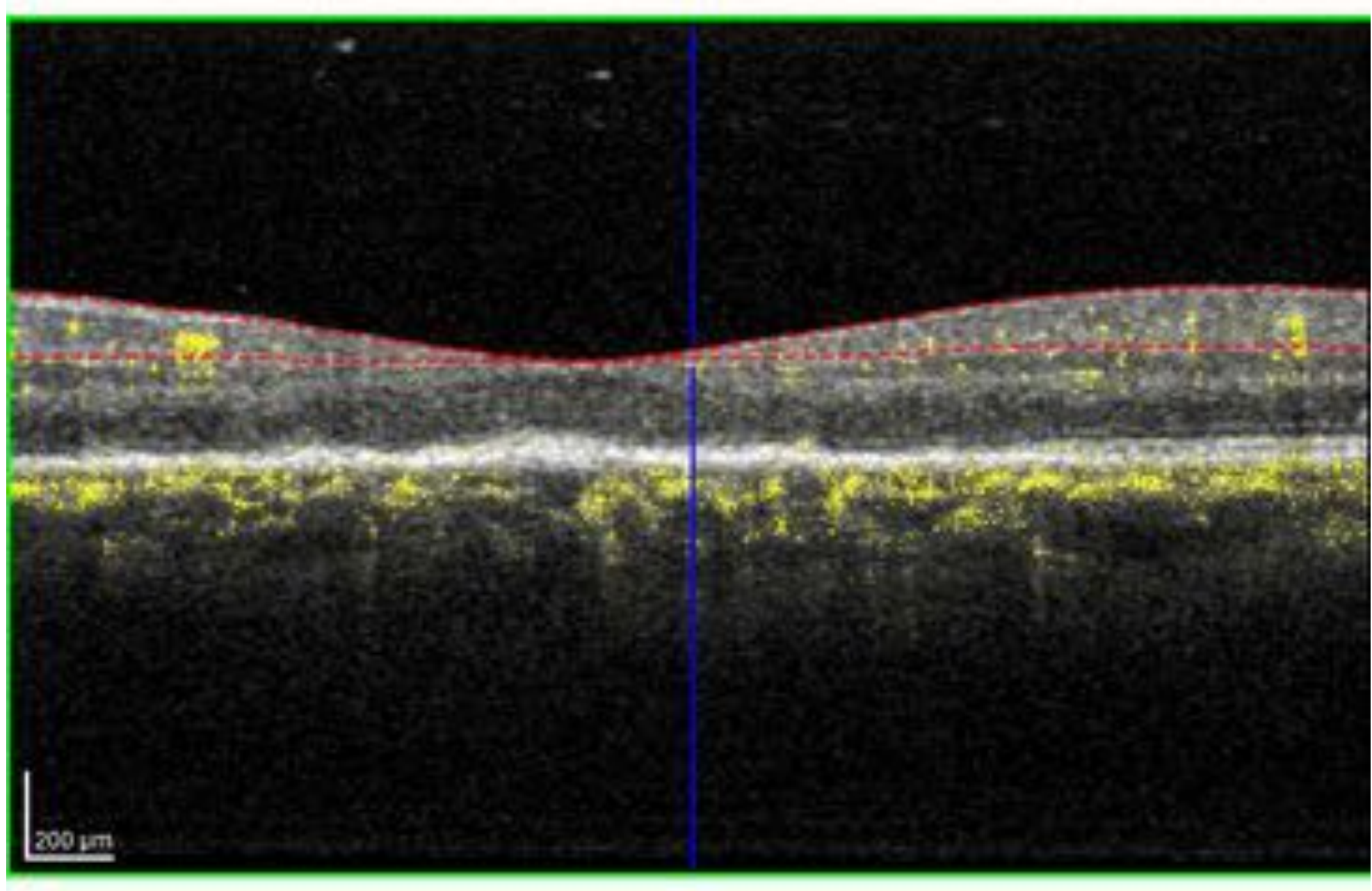
OCTA [Contrast 1:4, from ILM to IPL [-]; PAR off]



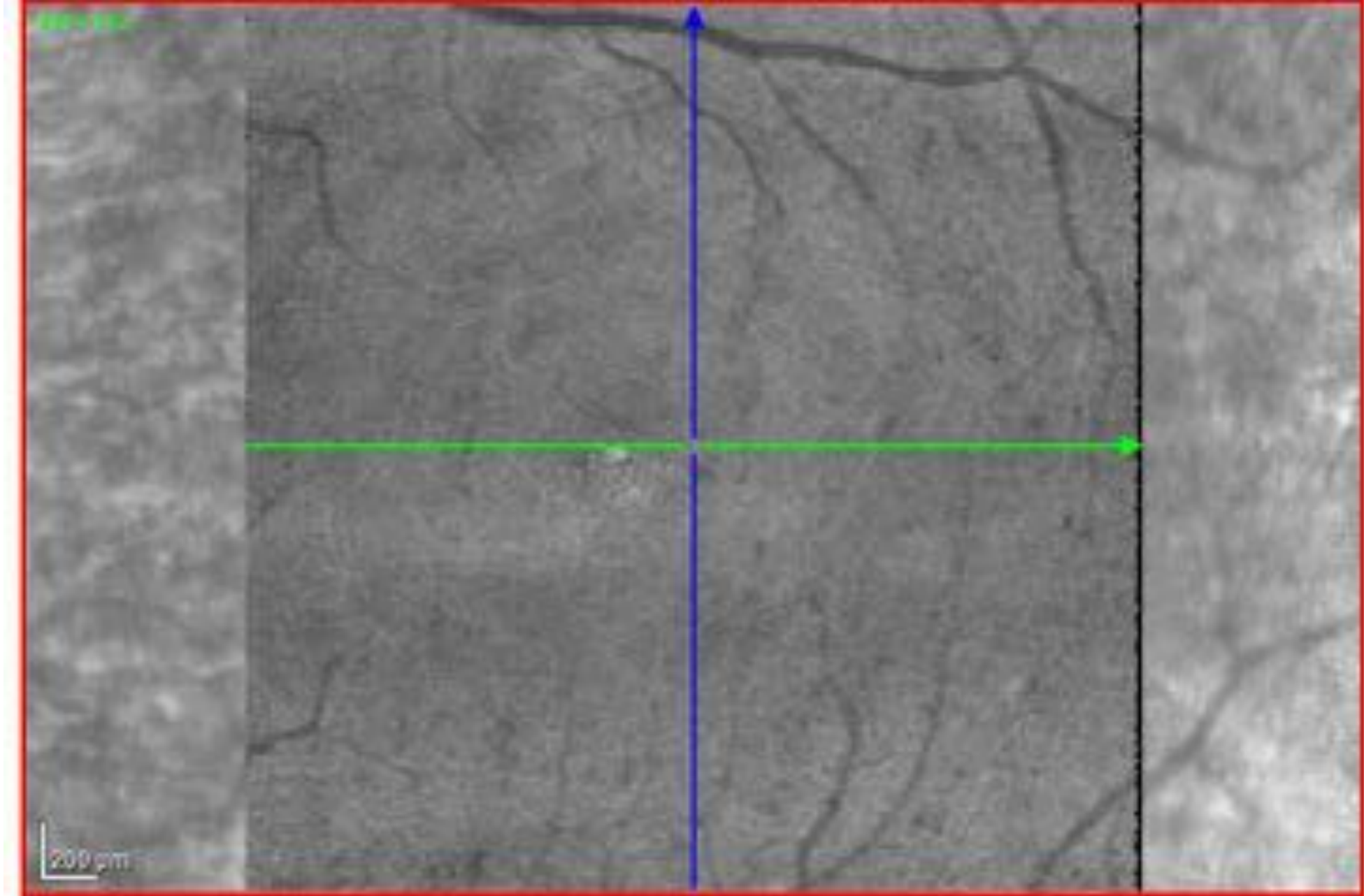
100% Struct. + 100% OCTA (Orthogonal)



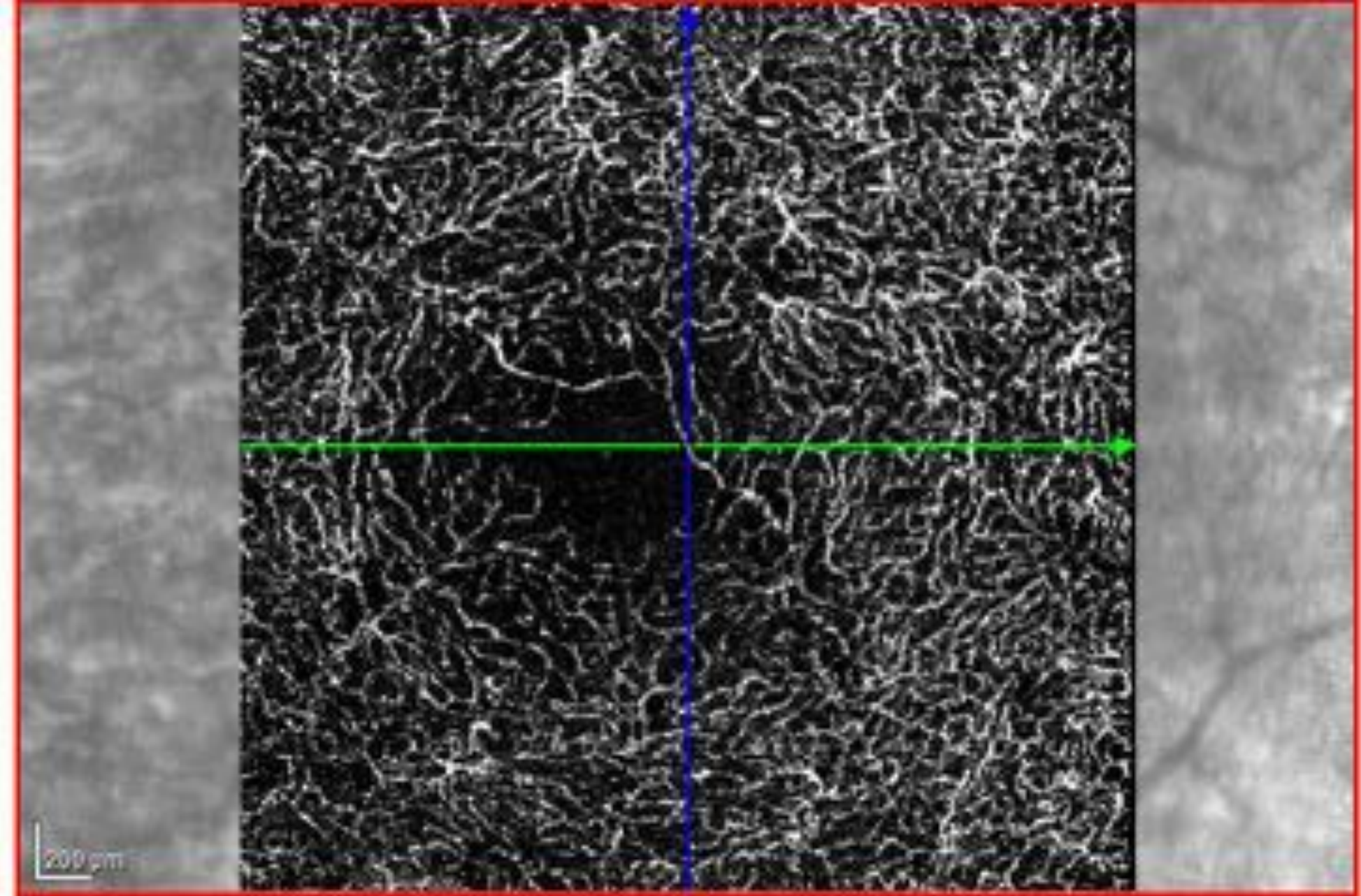
100% Struct. + 100% OCTA



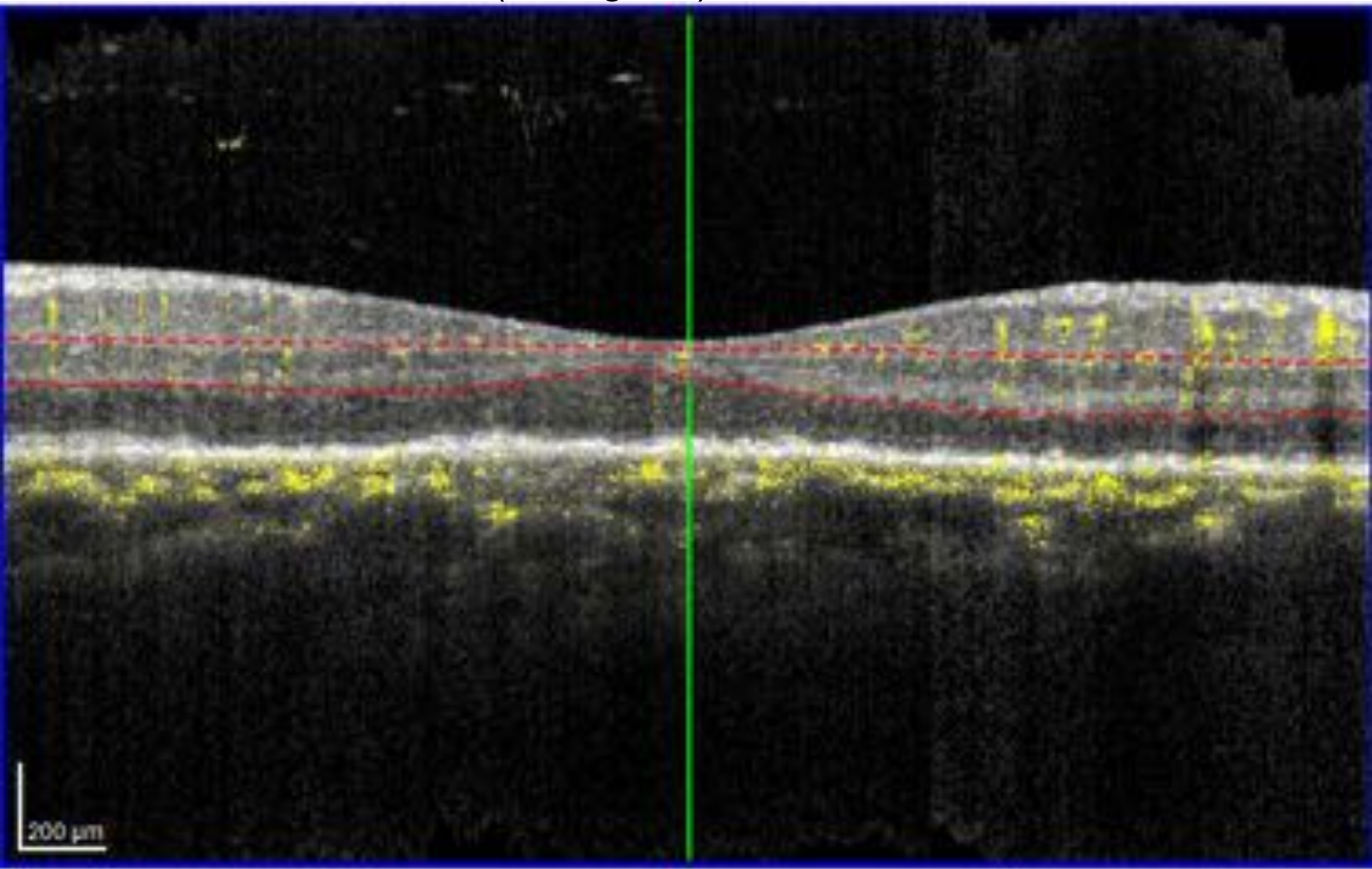
Structural OCT [Mean from IPL [-] to OPL]



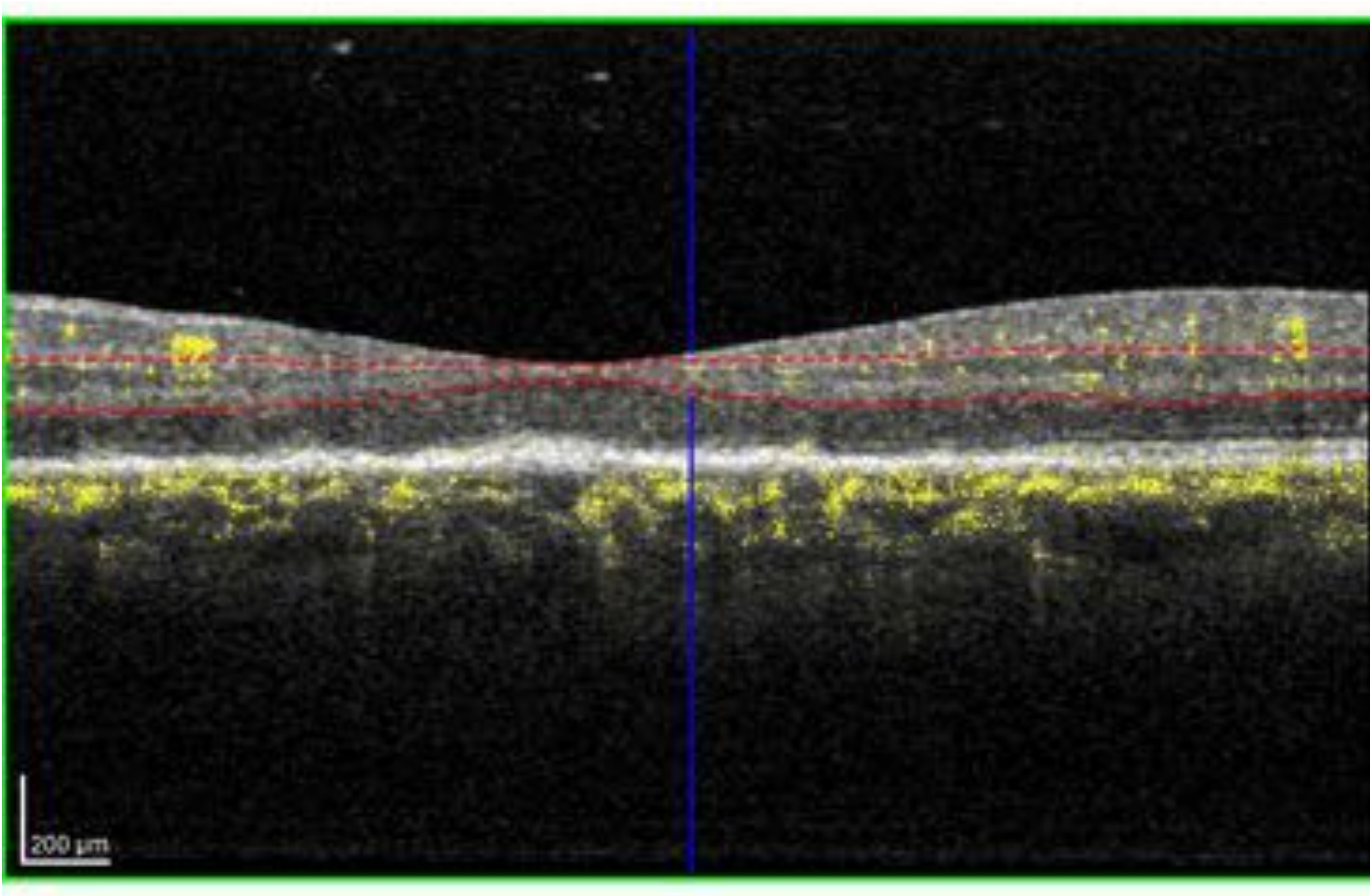
OCTA [Contrast 1:4, from IPL [-] to OPL; PAR on]



100% Struct. + 100% OCTA (Orthogonal)

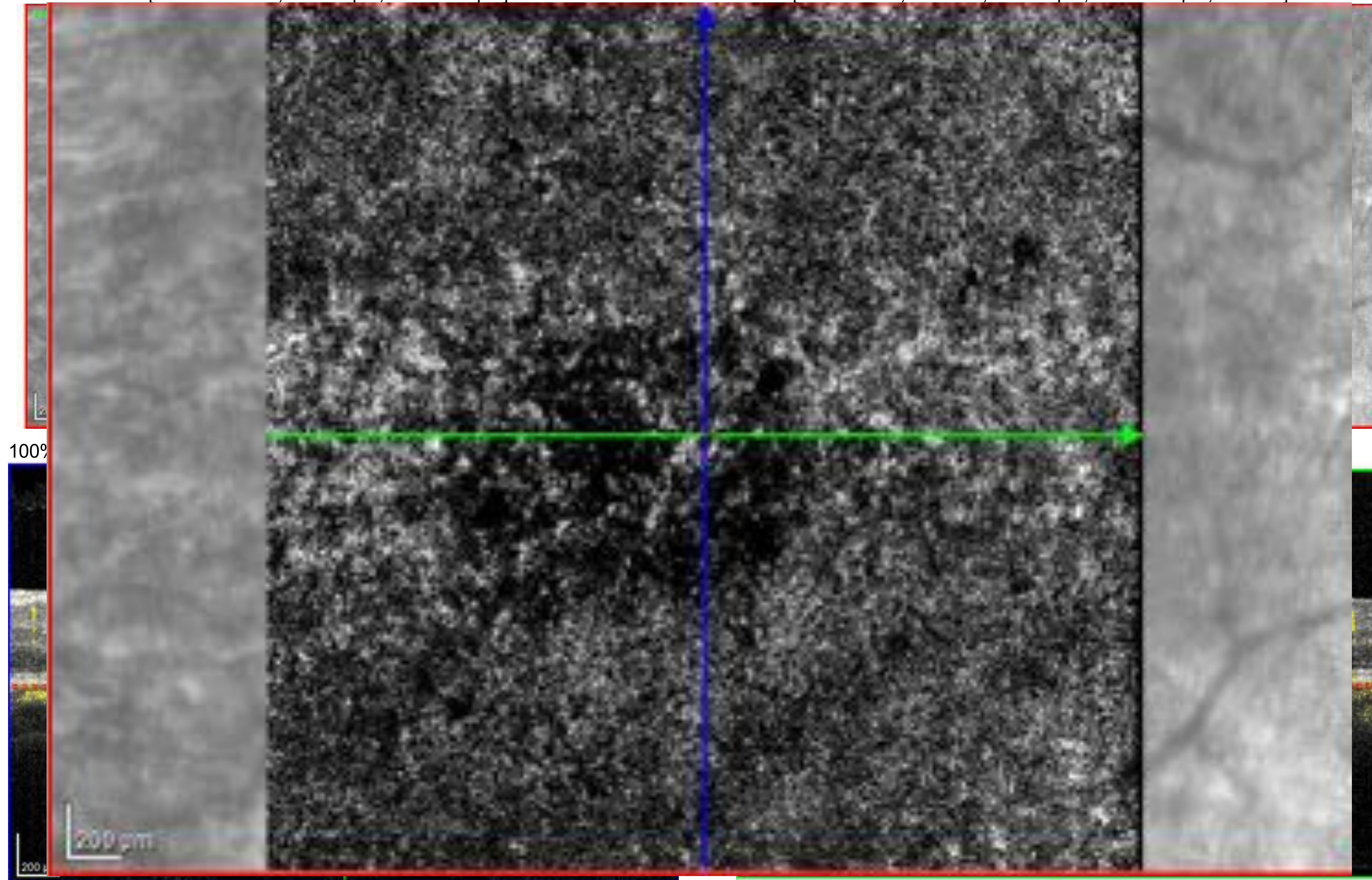


100% Struct. + 100% OCTA



Structural OCT [Mean from BM, Dist: 10 μ m, Thickn: 20 μ m]

OCTA [Contrast 1:4, from BM, Dist: 10 μ m, Thickn: 20 μ m; PAR on]



Diagnosis & Management??

- Further history
 - Sexually active
 - Sex with other men
 - Oral ulcers

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SEROLOGIA		Validado por: Dr. I. Fallas cod 1460		
ANALISIS	RESULTADOS	UNIDADES	REFERENCIA	
VDRL modificada (USR)	REACTIVO 1:256		0 - 0	
PROTEINA C REACTIVA	0.18	mg/dL	0 - 0.5	
ANTIC. ESPECIFICOS CONTRA Treponema pallidum	POSITIVO	.	0 - 0	

HIV Negative
Allergic to Penicillin

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- Admitted to the hospital
- Tested for penicillin allergy
- NOT allergic to penicillin
- Treated with IV Penicillin G 3 million units Q 4 hrs for 14 days

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- Pt returns for ophthalmologic examination 3 weeks after initial exam
- 20/25 OU

MultiColor 30° ART [HR]

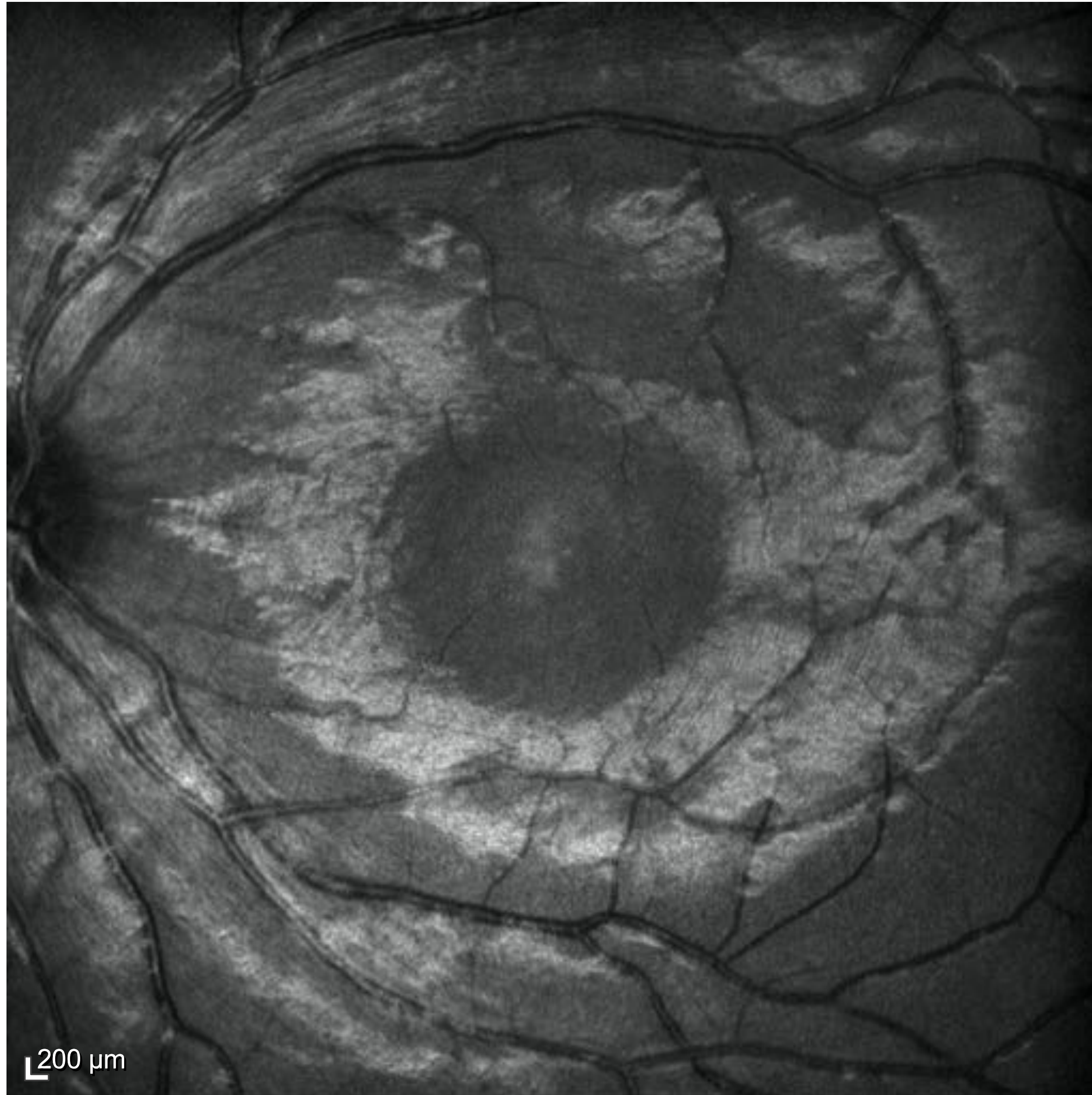


Color Balance: Standard

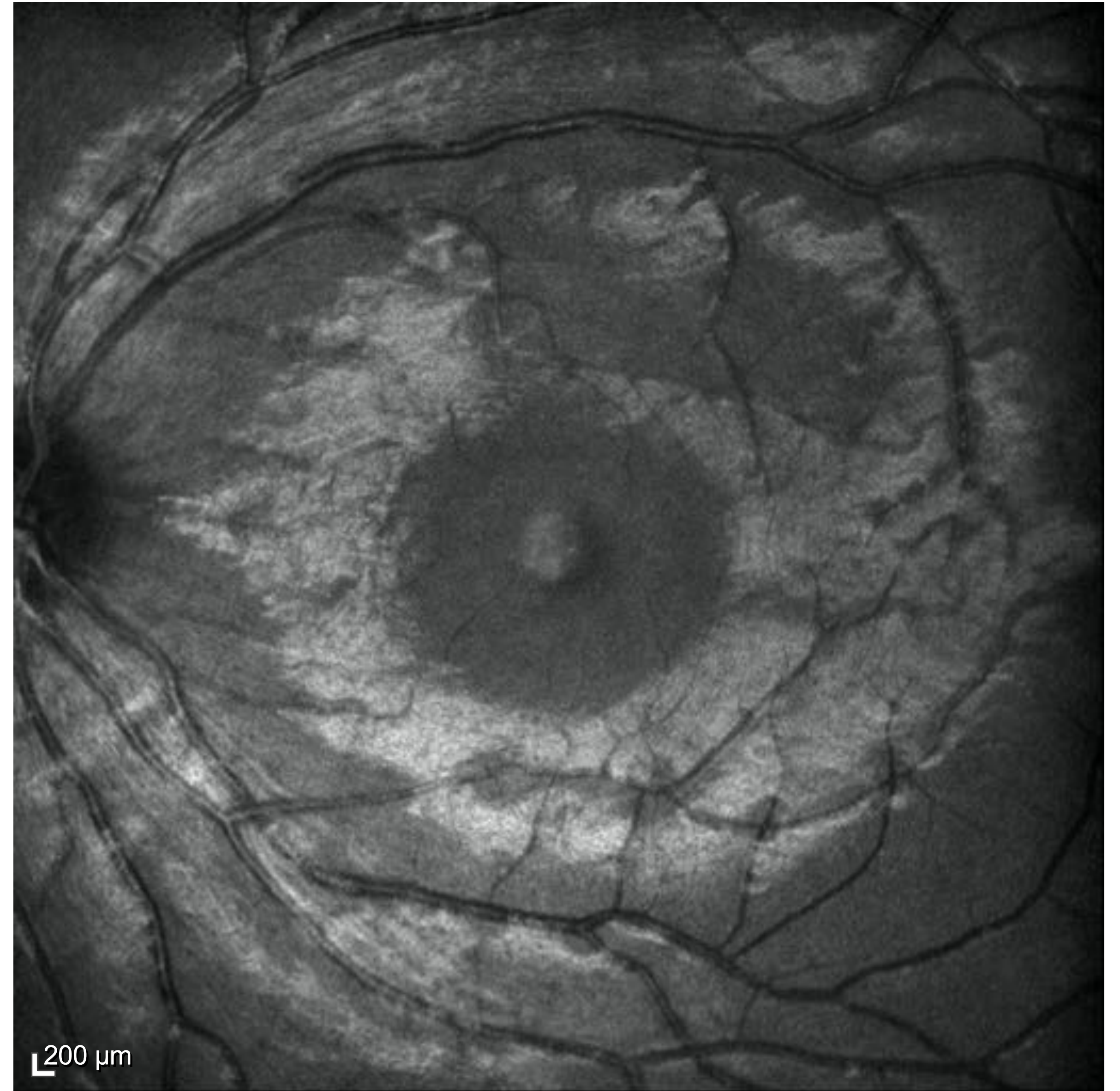
Infrared Reflectance



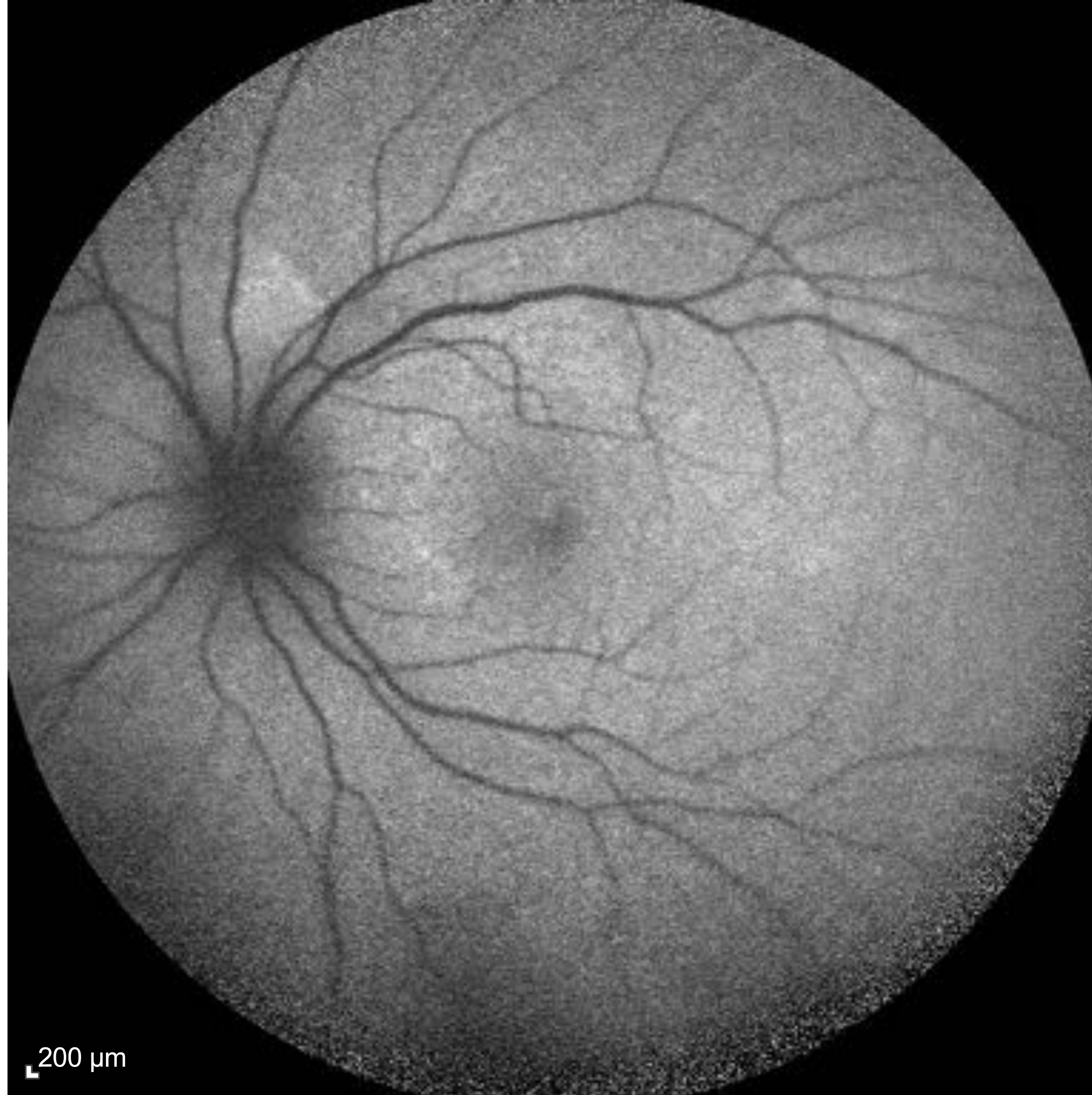
Green Reflectance



Blue Reflectance



OS, BAF 55° ART [HS]



OS, BAF 30° ART [HS]

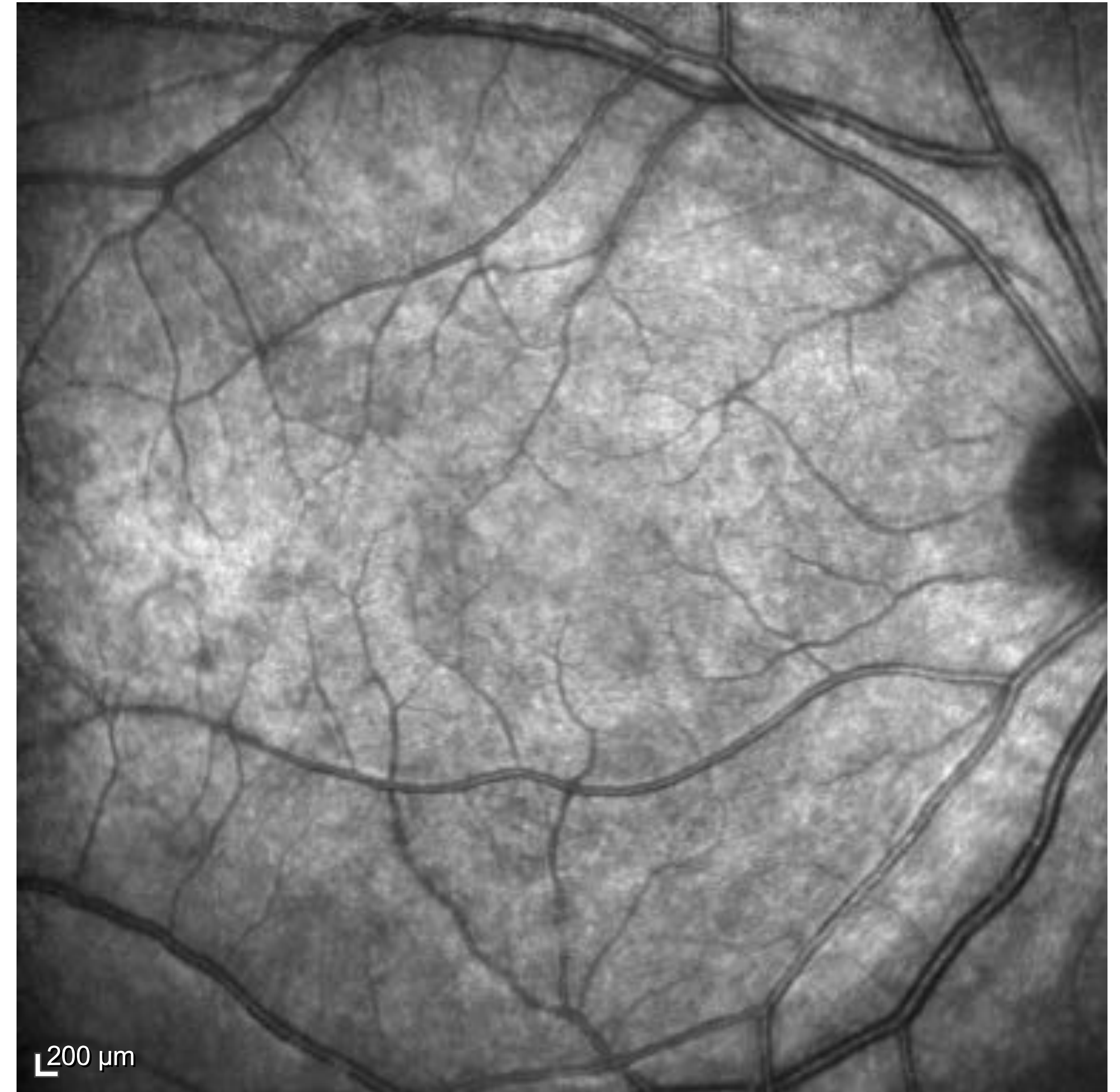


MultiColor 30° ART [HS]



Color Balance: Standard

Infrared Reflectance



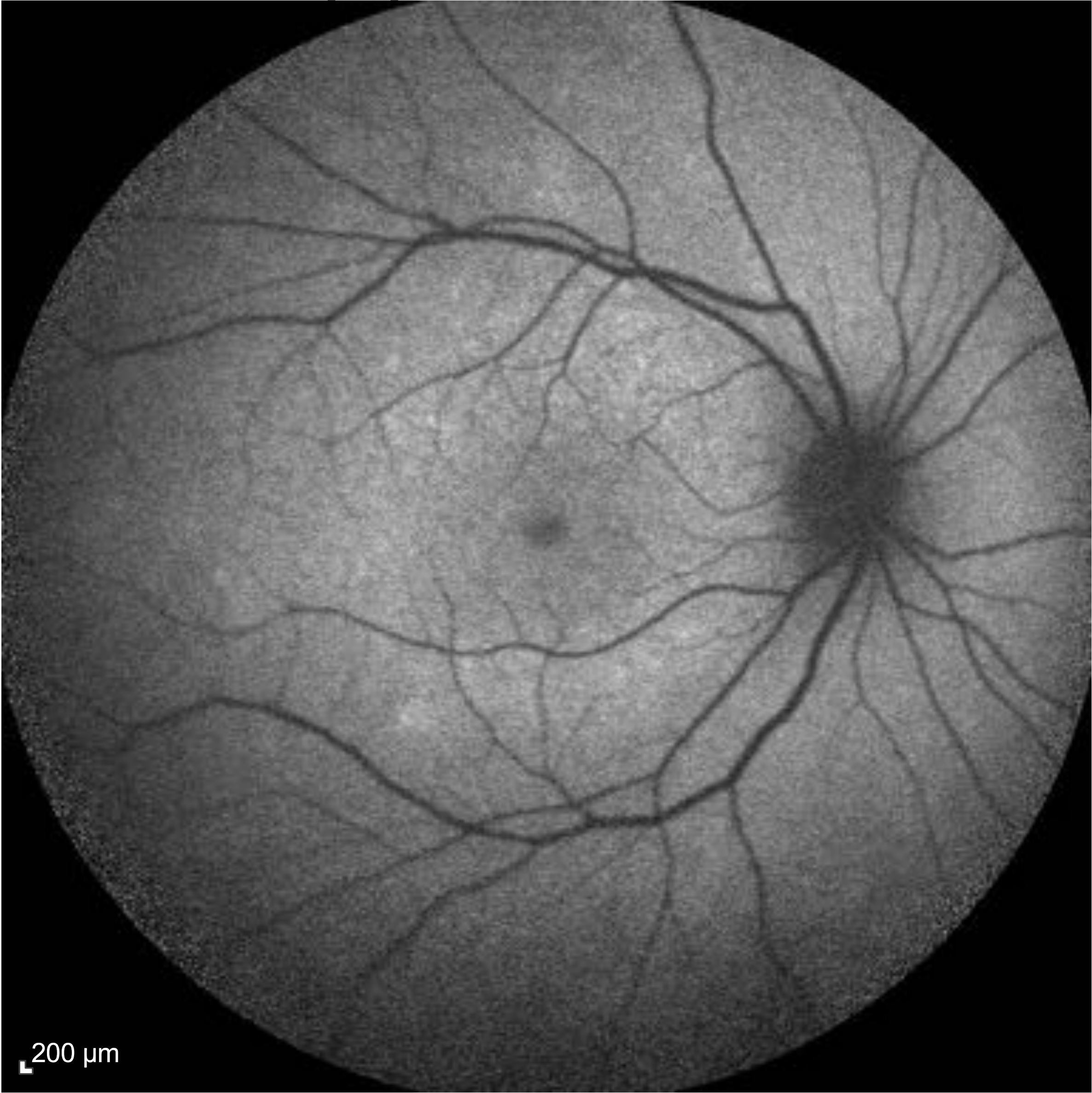
Green Reflectance



Blue Reflectance



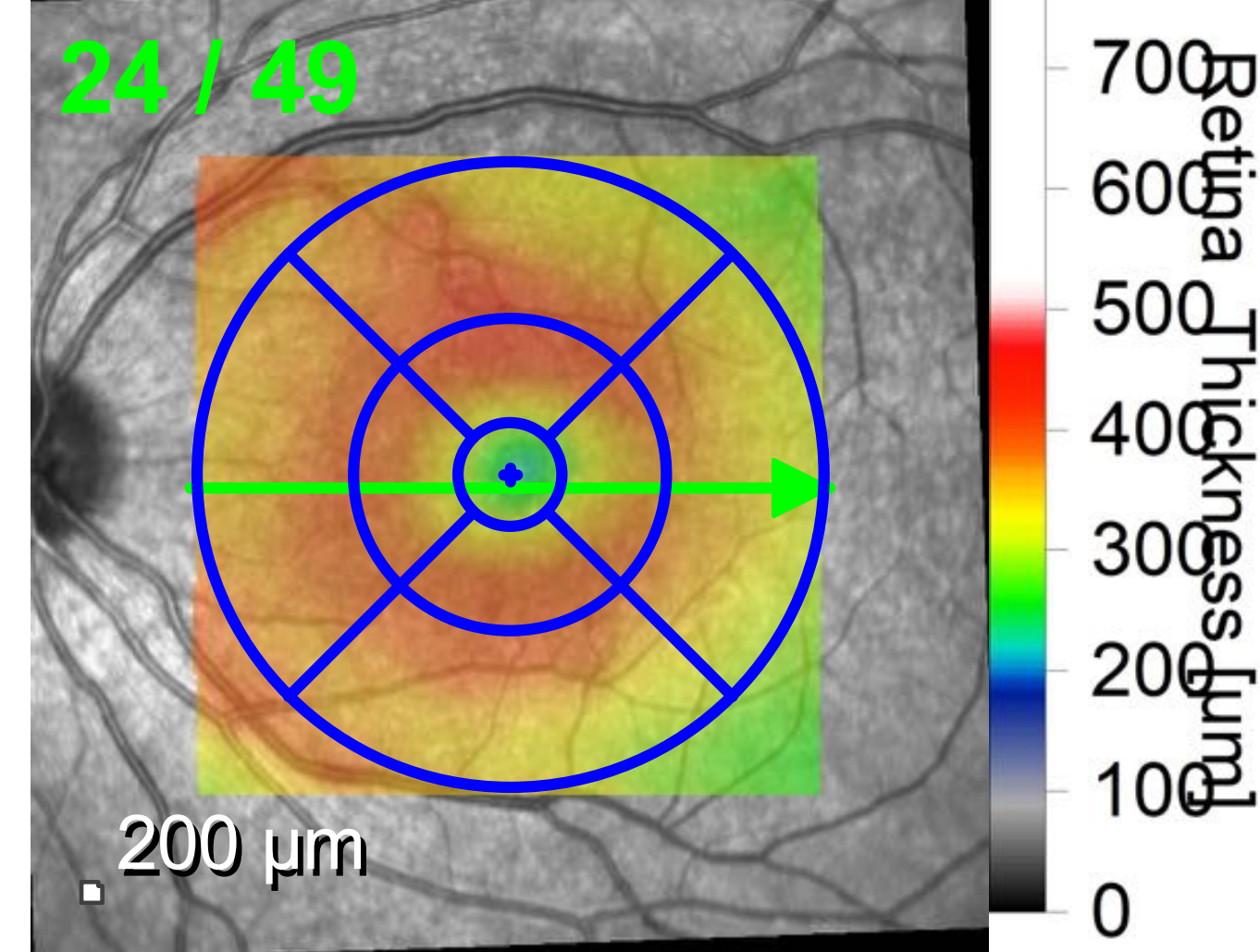
OD, BAF 55° ART [HS]



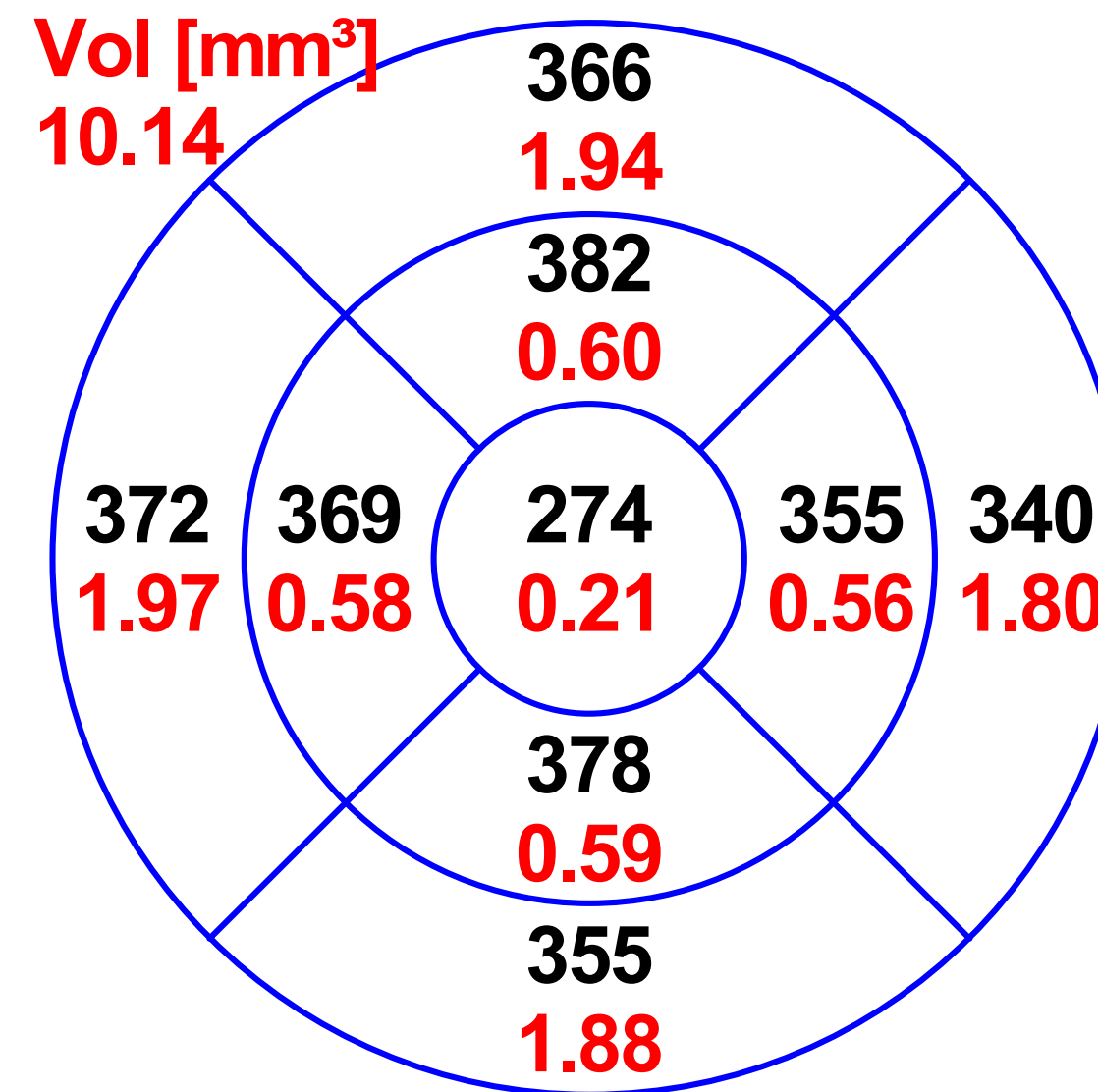
OD, BAF 30° ART [HS]



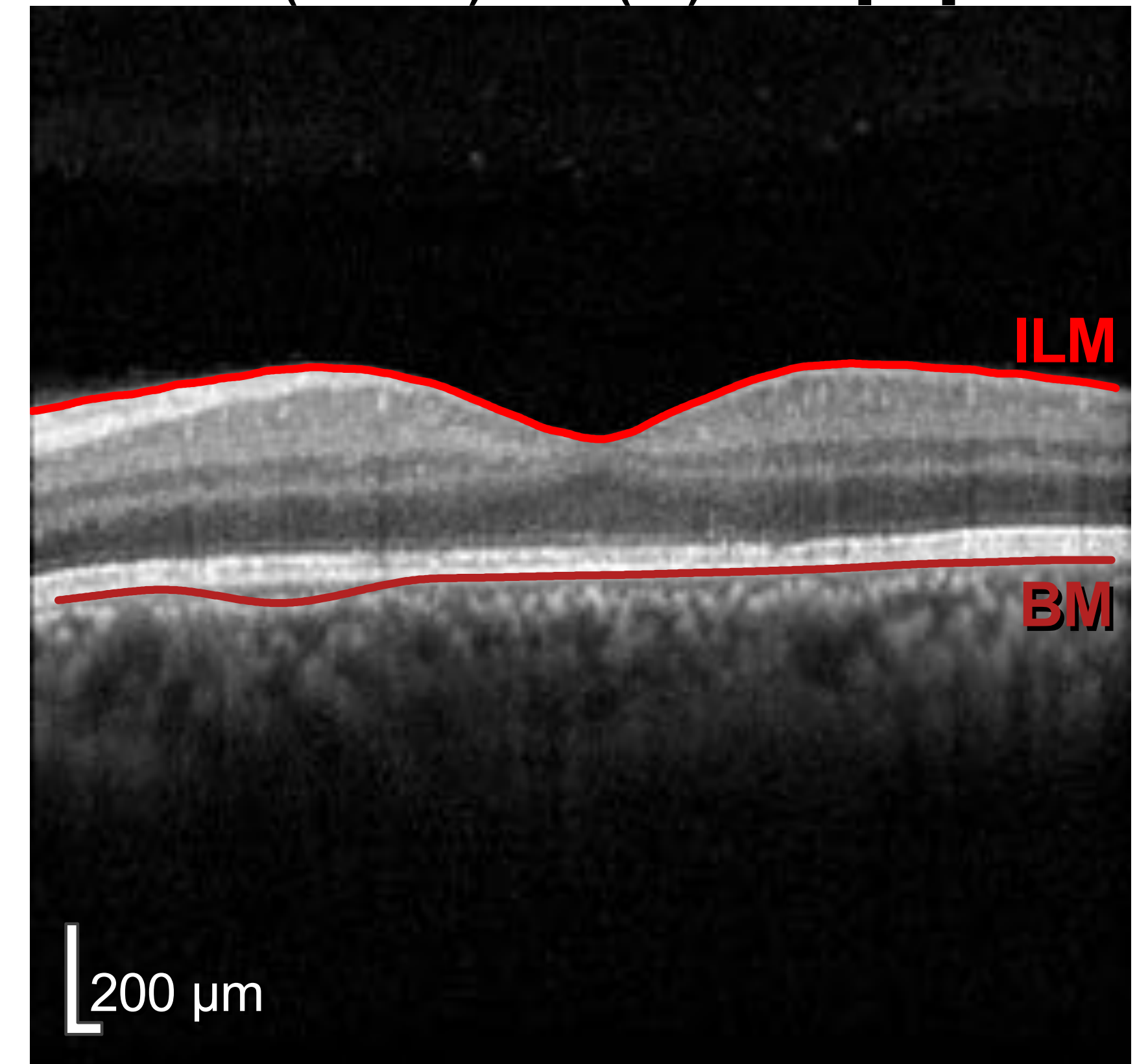
IR 30° ART [HS]



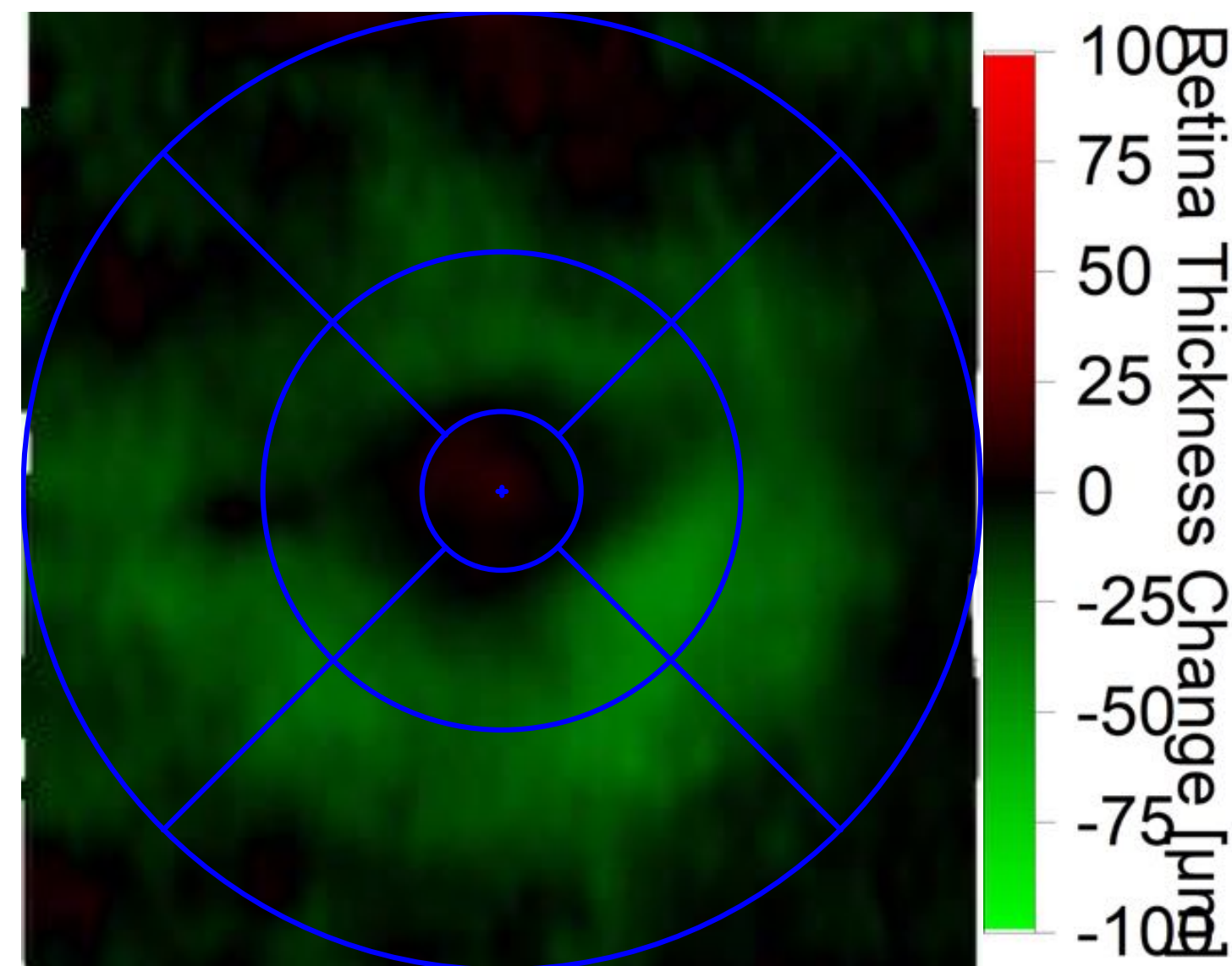
Average Thickness [μm]



OCT 20.0° (6.1 mm) ART (15) Q: 34 [HS]



Thickness Change [μm]



Center: 238 μm

Central Min: 232 μm

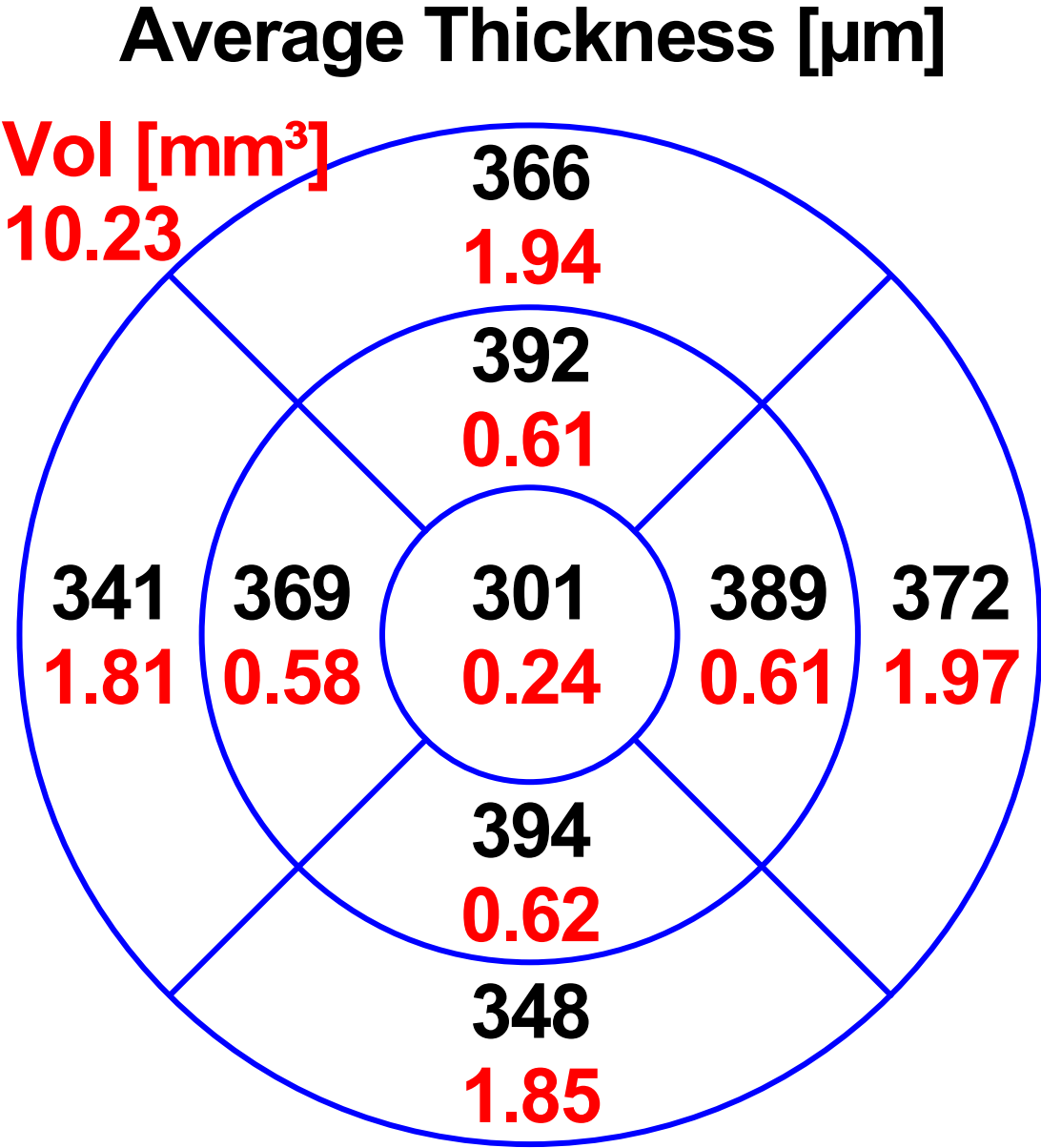
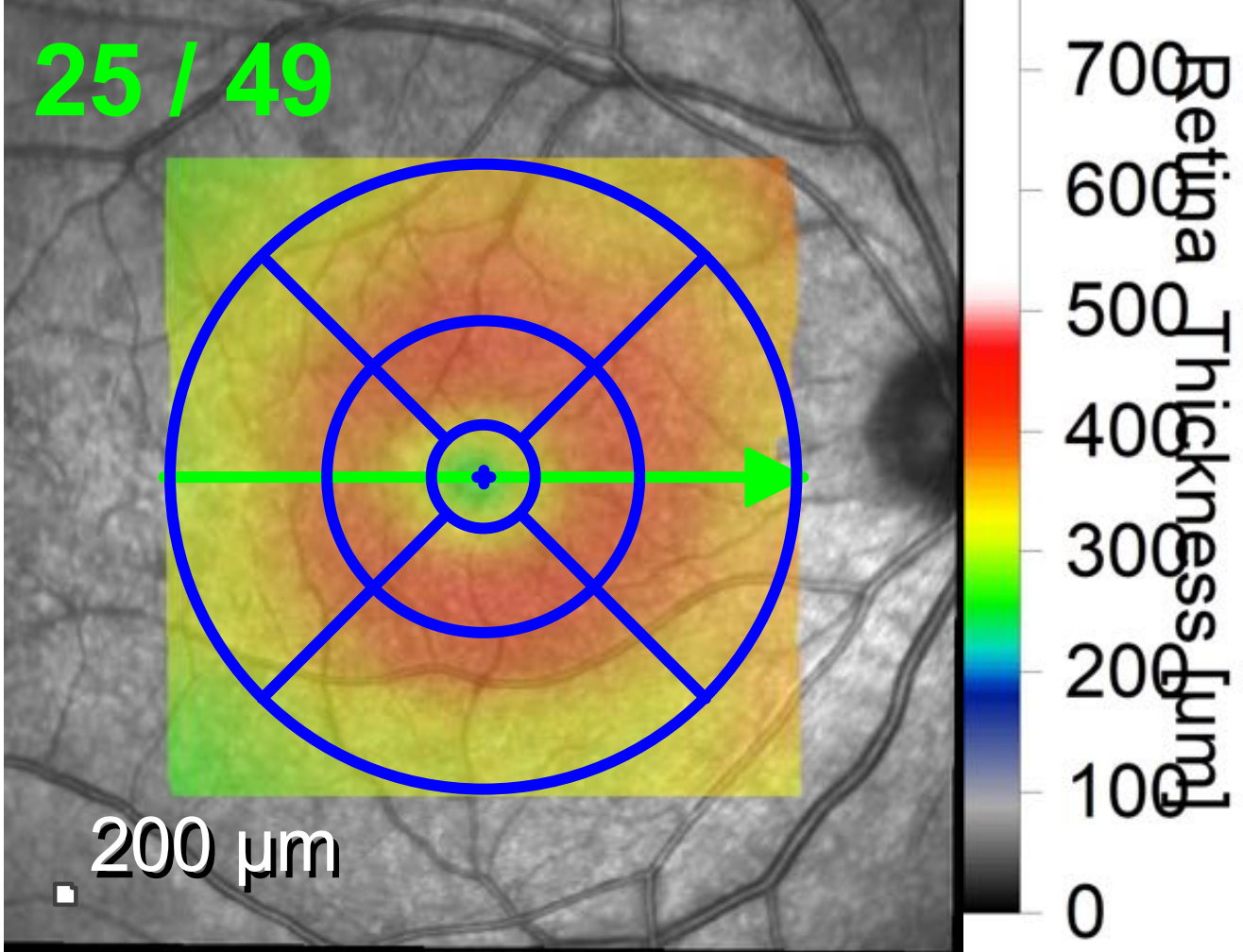
Central Max: 321 μm

Circle Diameters:

1, 3, 6 mm ETDRS

Follow-Up - 5/13/2020

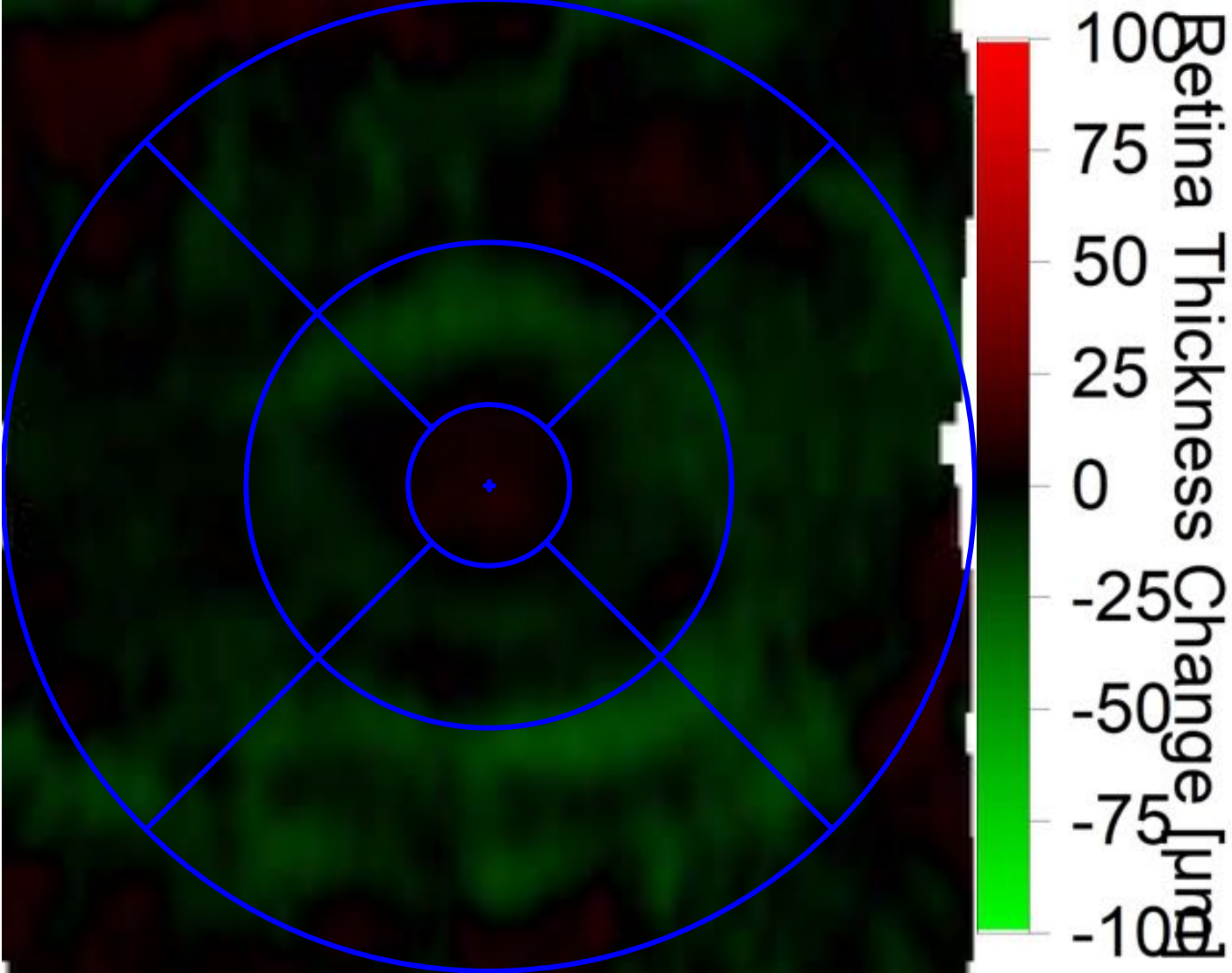
IR 30° ART [HS]



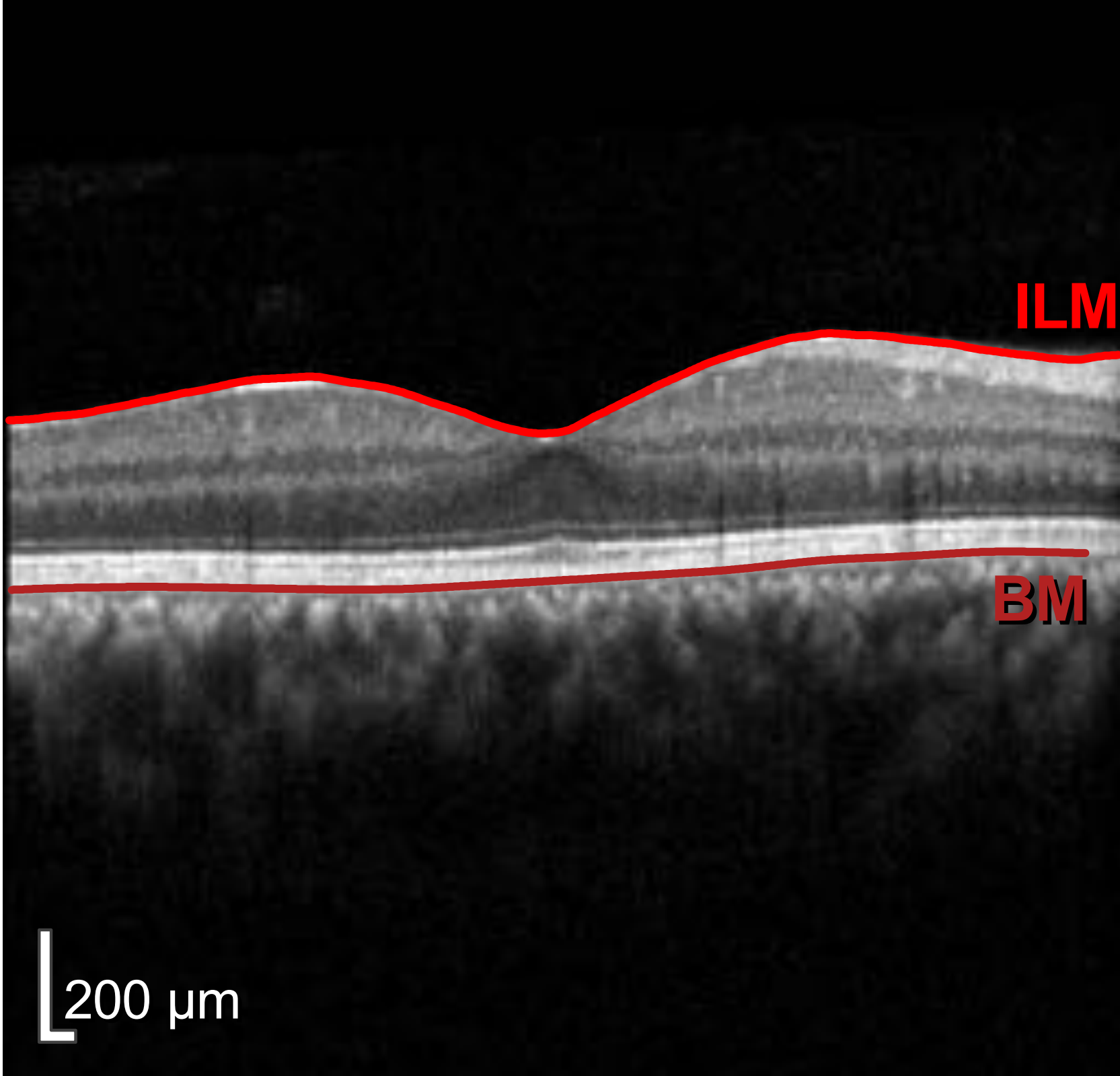
Center: 266 μm
Central Min: 264 μm
Central Max: 338 μm

Circle Diameters:
1, 3, 6 mm ETDRS

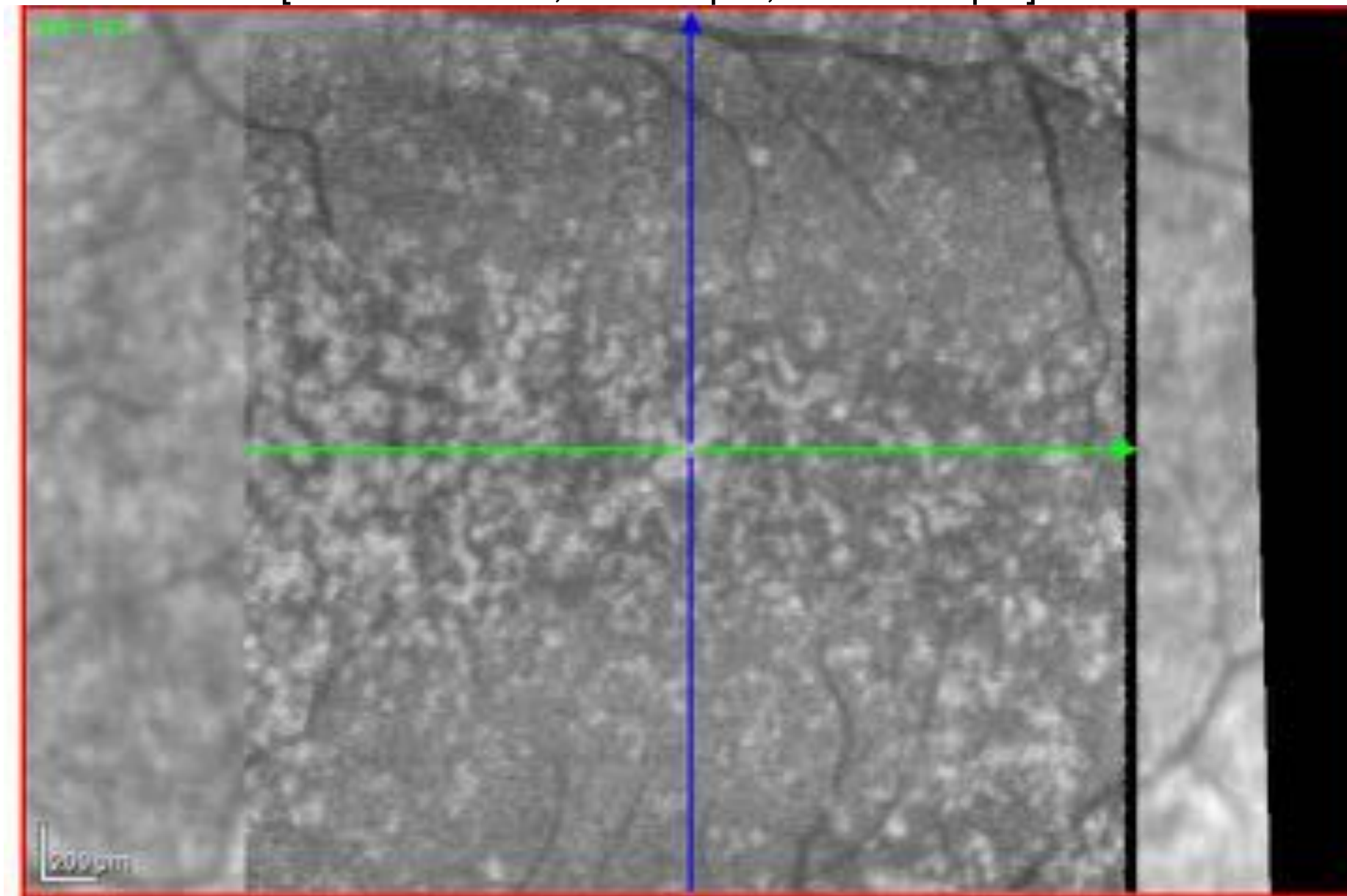
Thickness Change [μm]



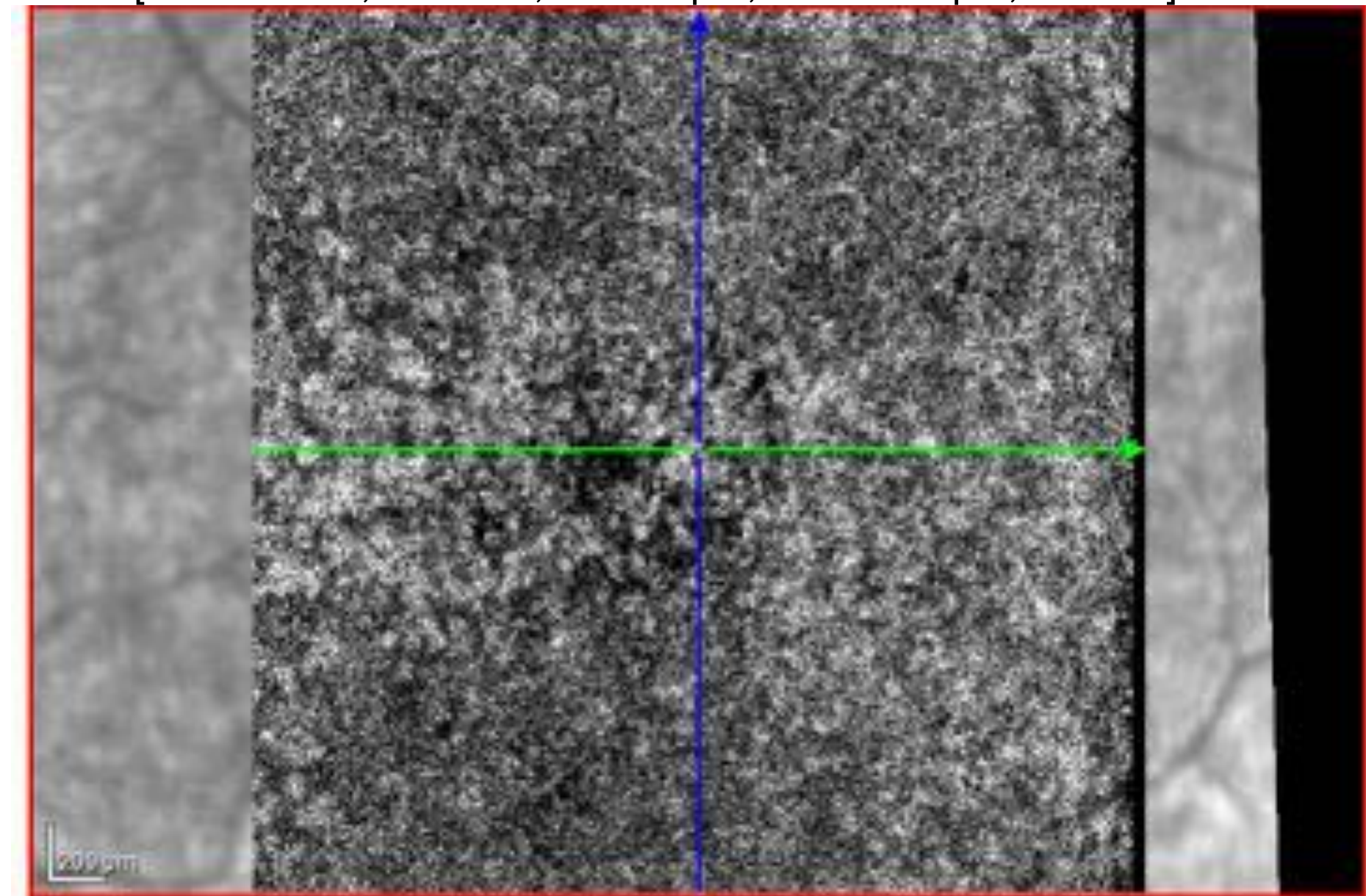
OCT 20° (6.1 mm) ART (16) Q: 35 [HS]



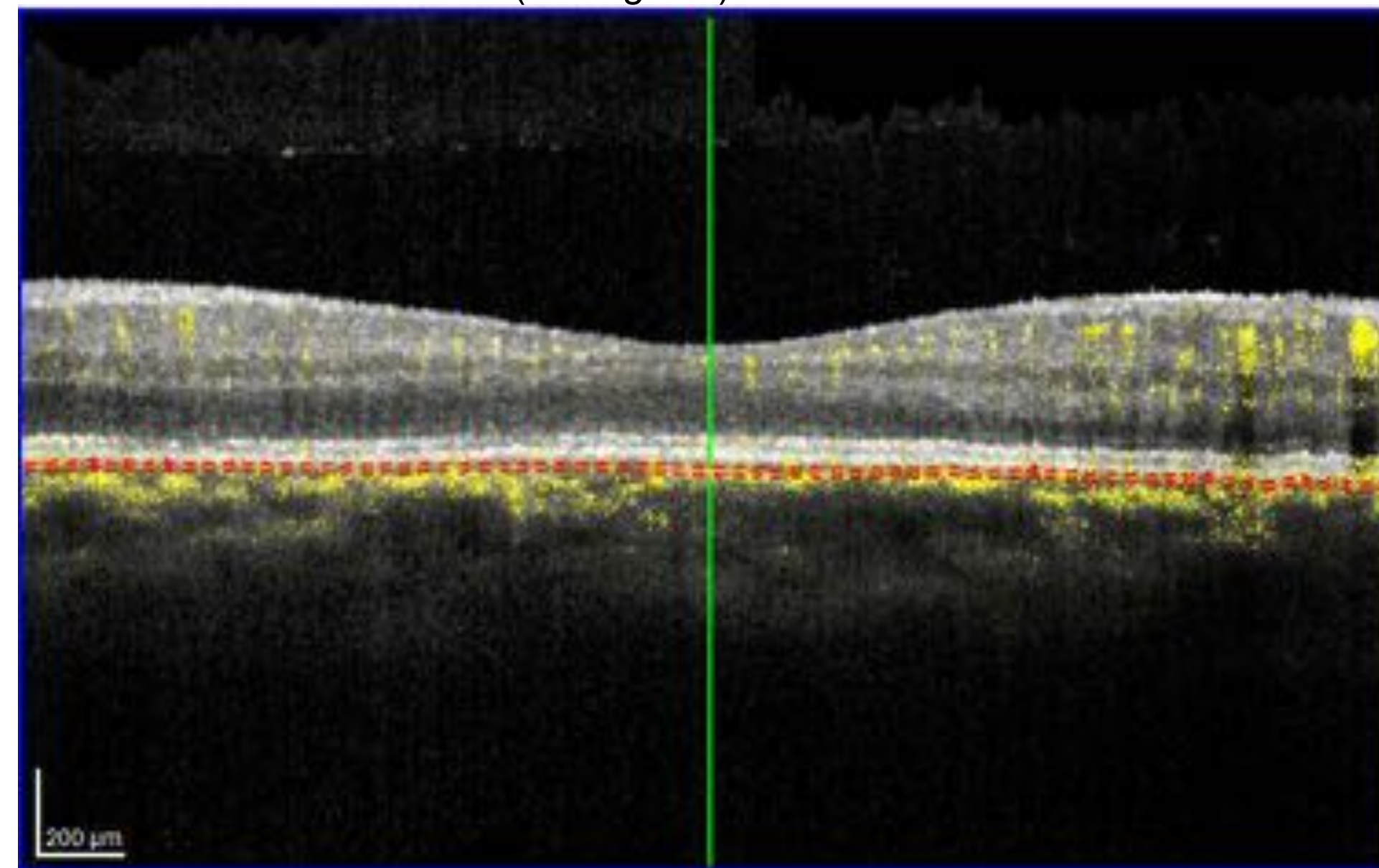
Structural OCT [Mean from BM, Dist: 10 μ m, Thickn: 20 μ m]



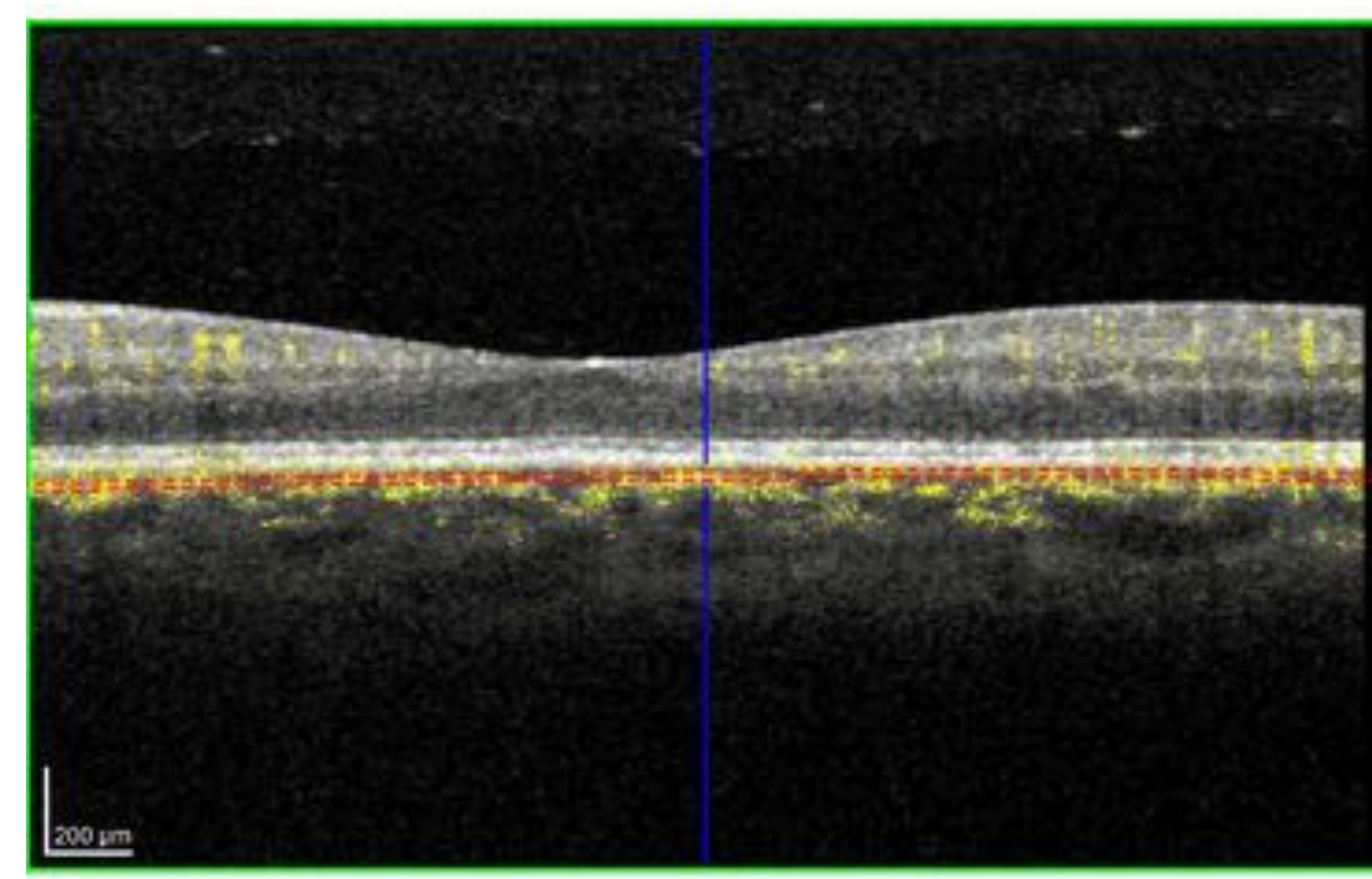
OCTA [Contrast 1:4, from BM, Dist: 10 μ m, Thickn: 20 μ m; PAR on]



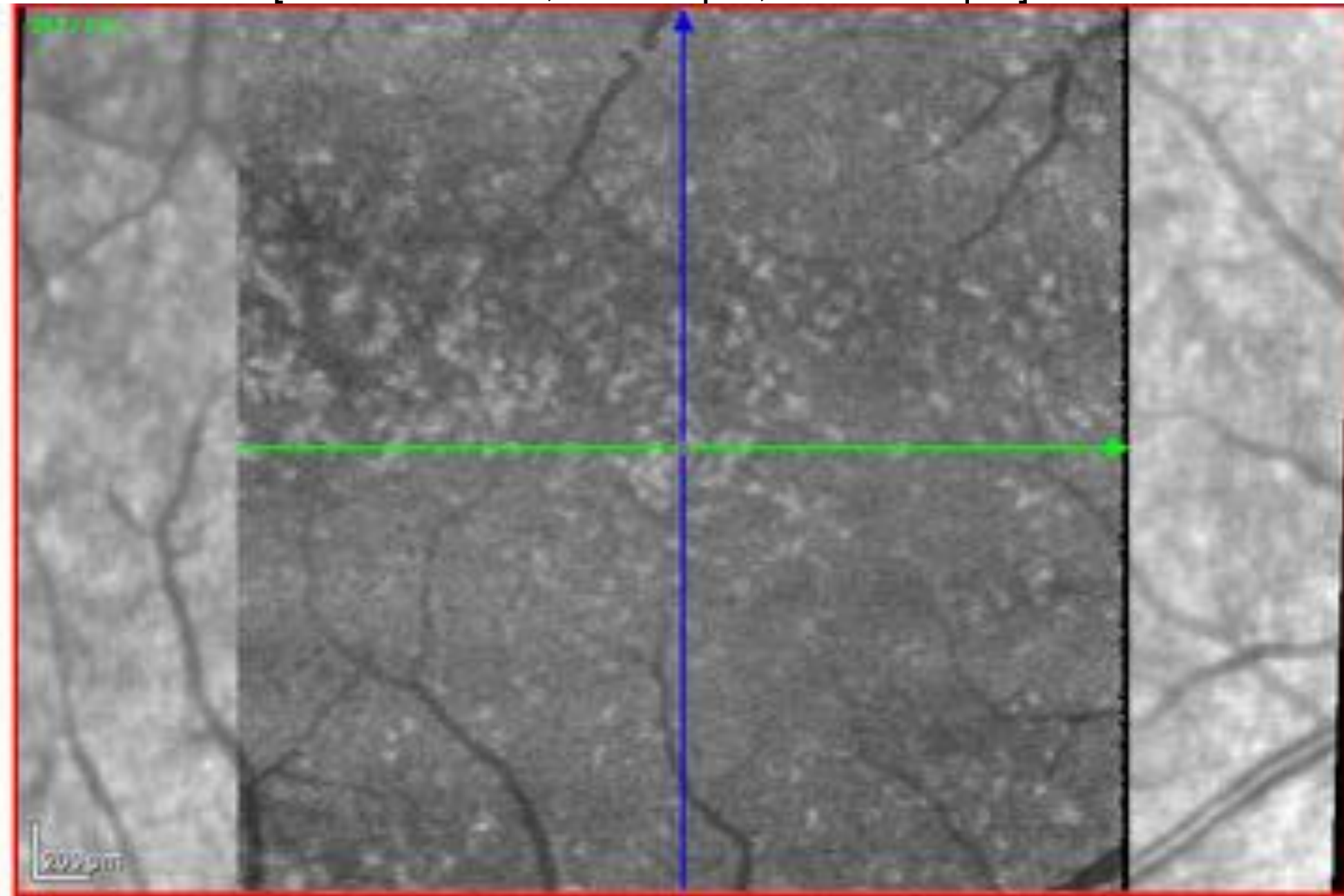
100% Struct. + 100% OCTA (Orthogonal)



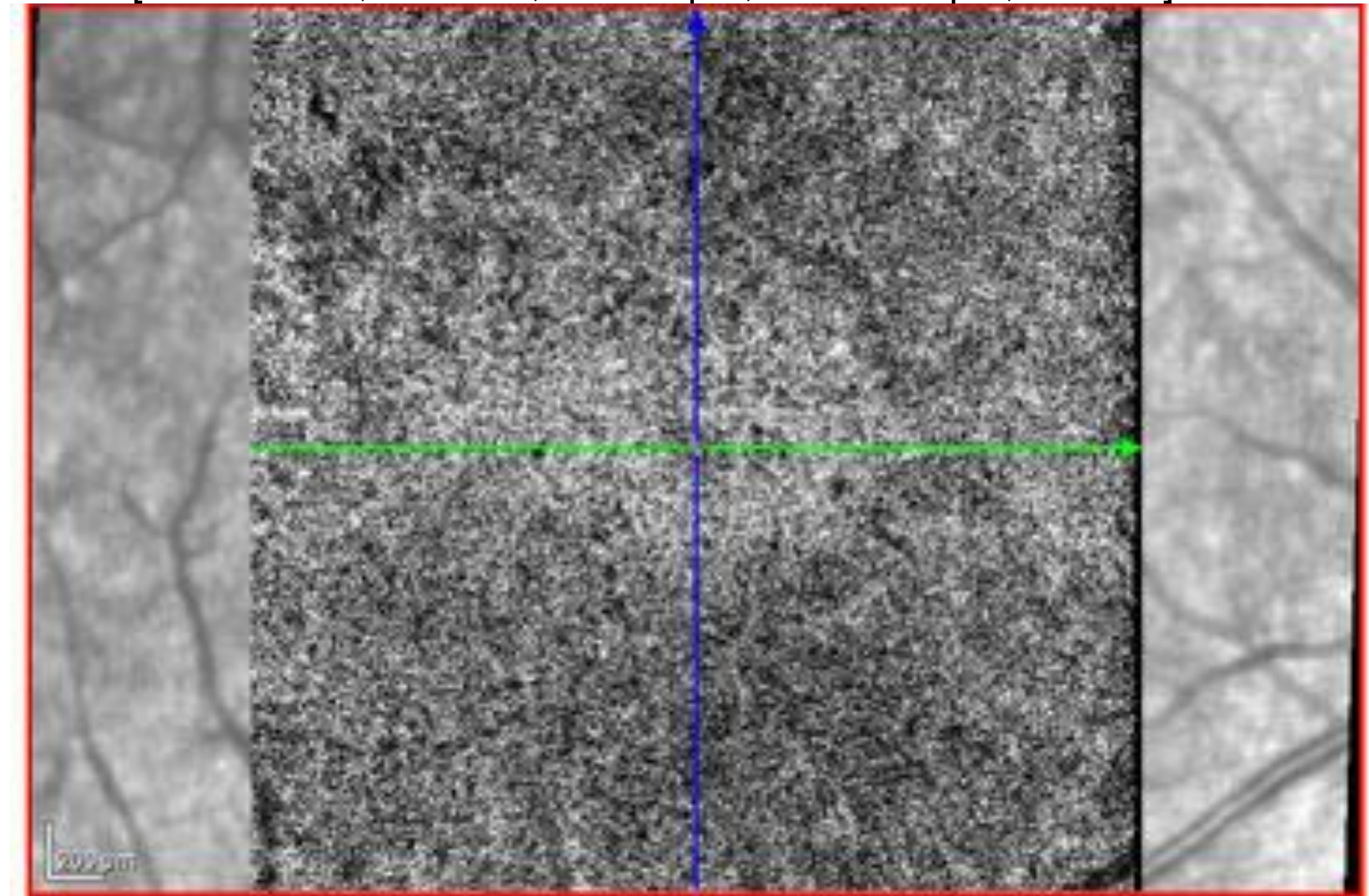
100% Struct. + 100% OCTA



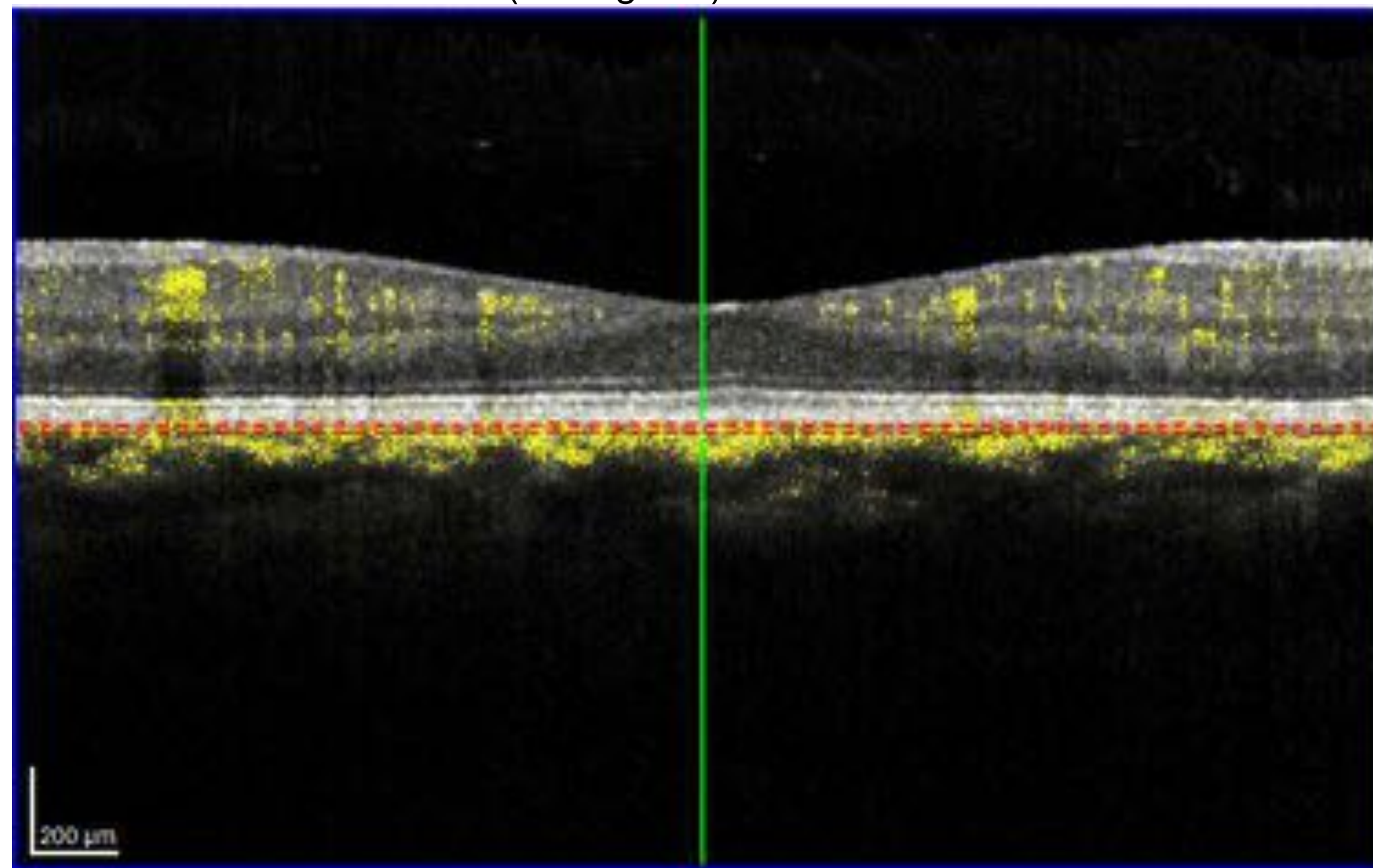
Structural OCT [Mean from BM, Dist: 10 μ m, Thickn: 20 μ m]



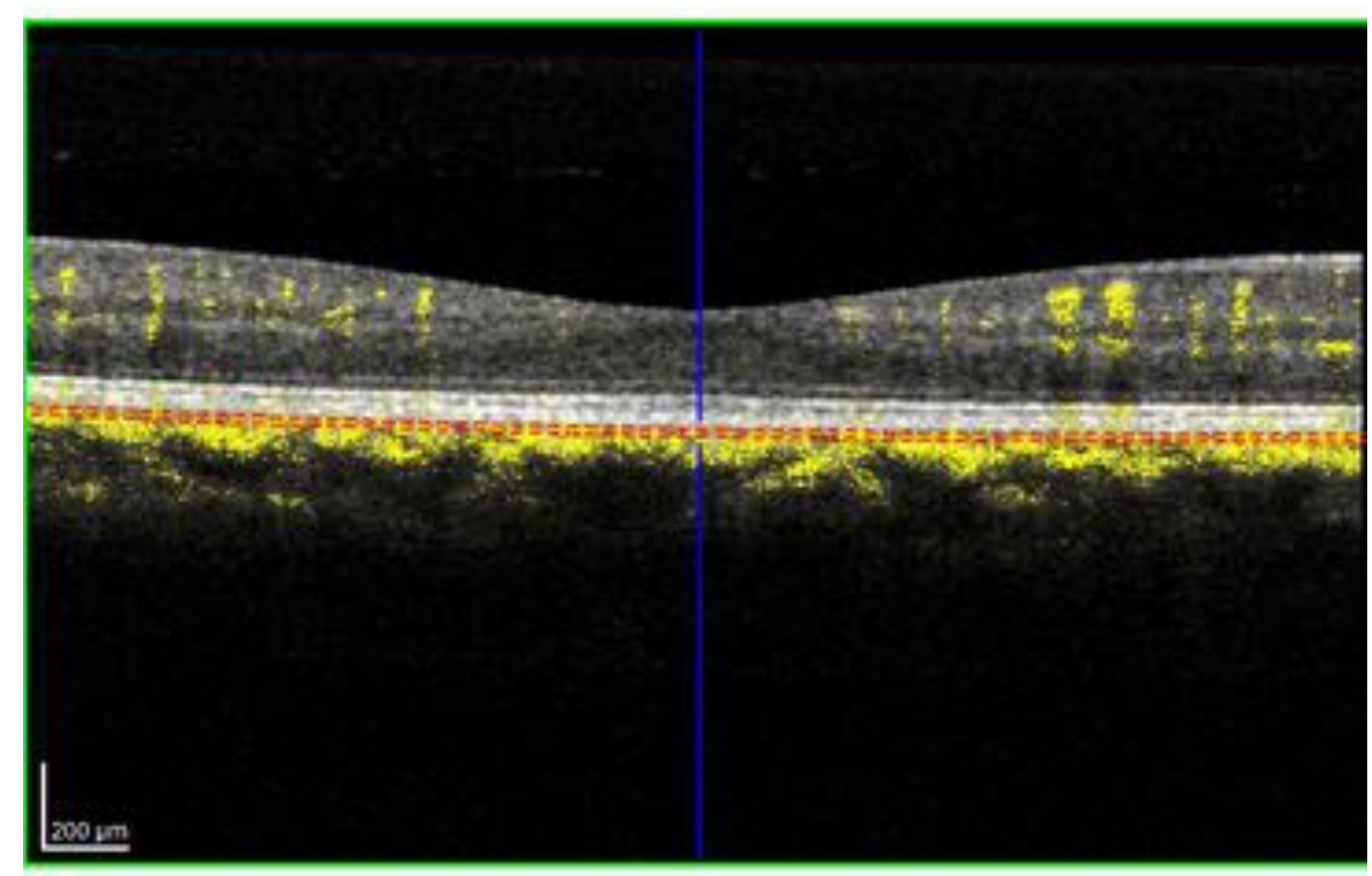
OCTA [Contrast 1:4, from BM, Dist: 10 μ m, Thickn: 20 μ m; PAR on]

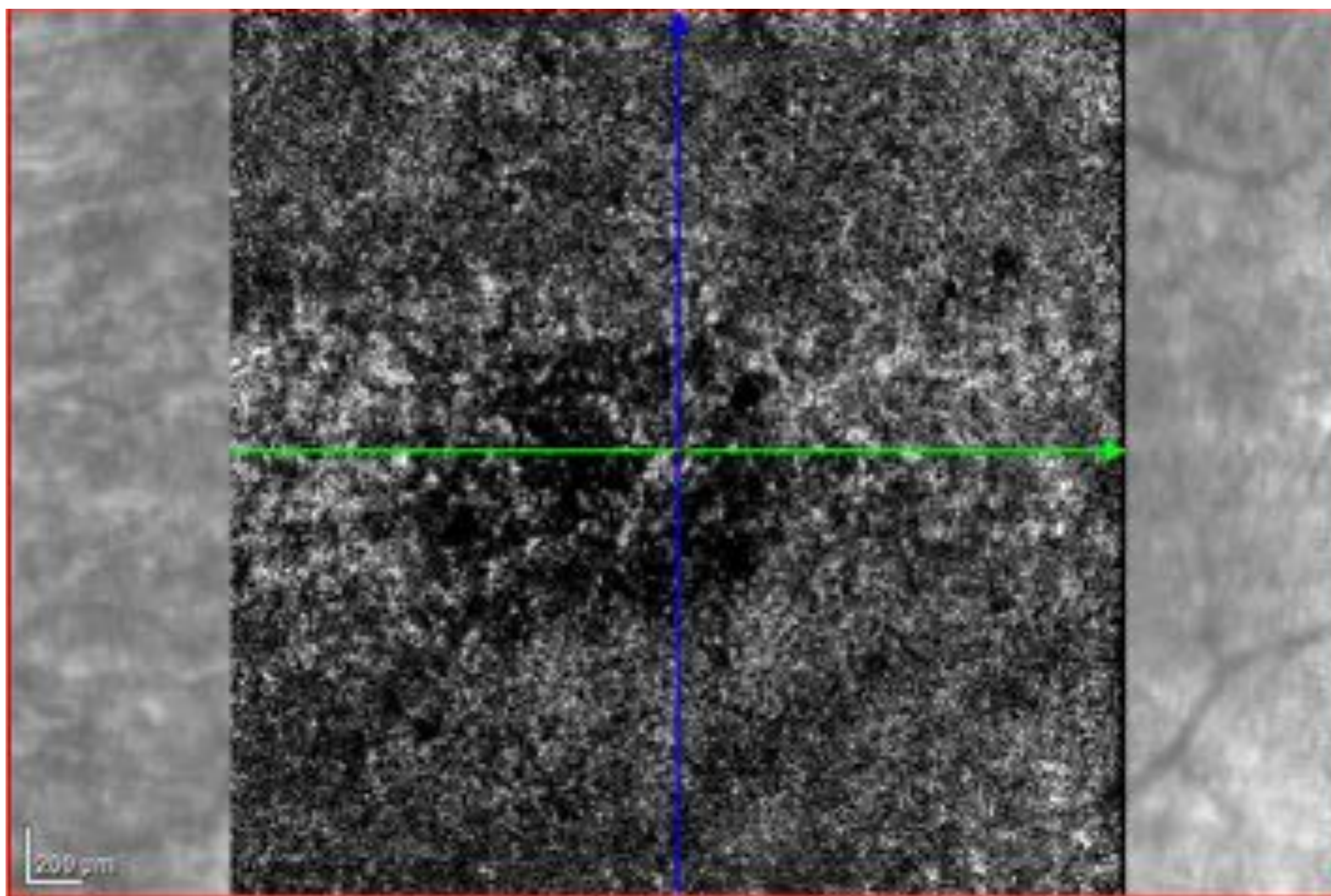


100% Struct. + 100% OCTA (Orthogonal)

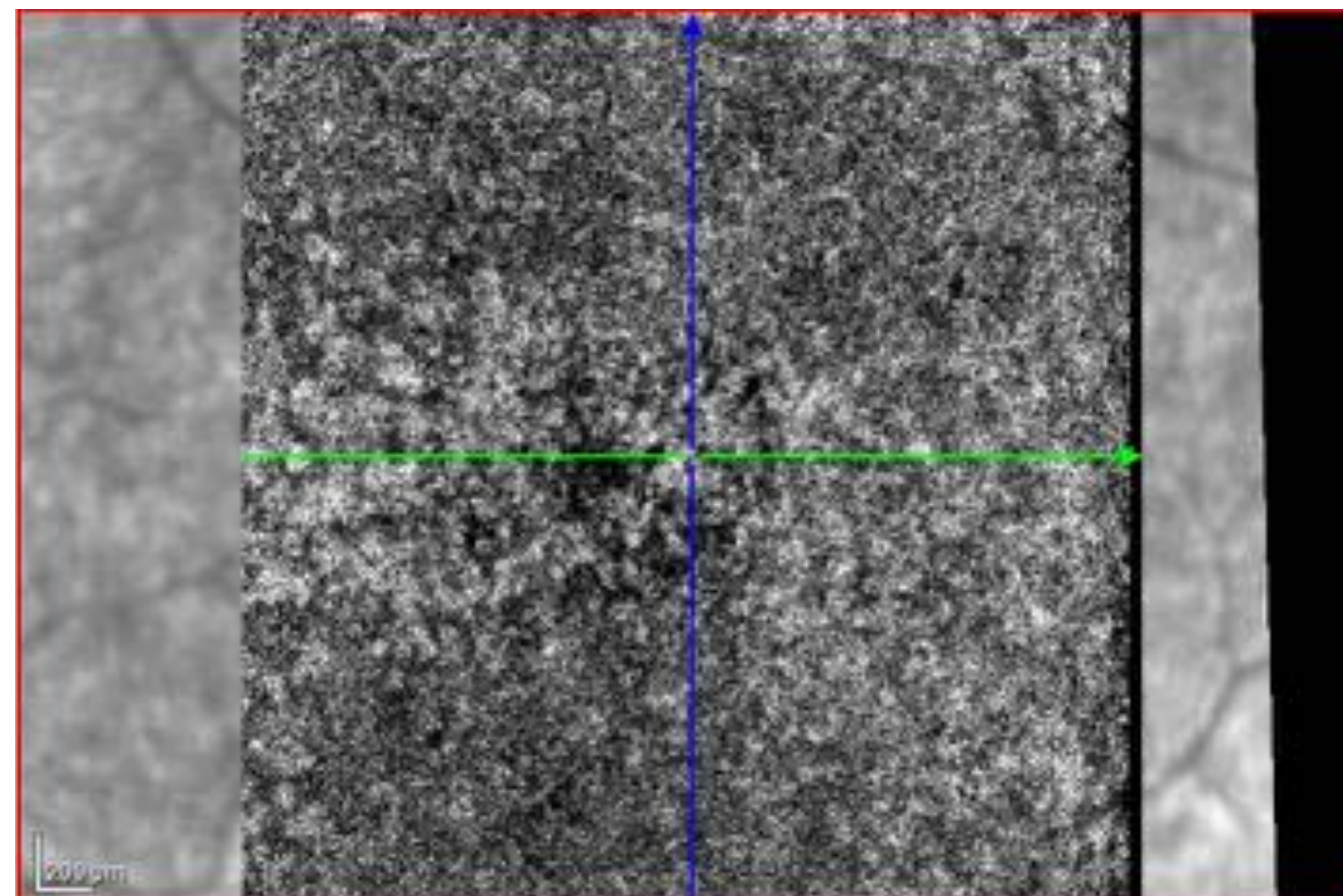


100% Struct. + 100% OCTA

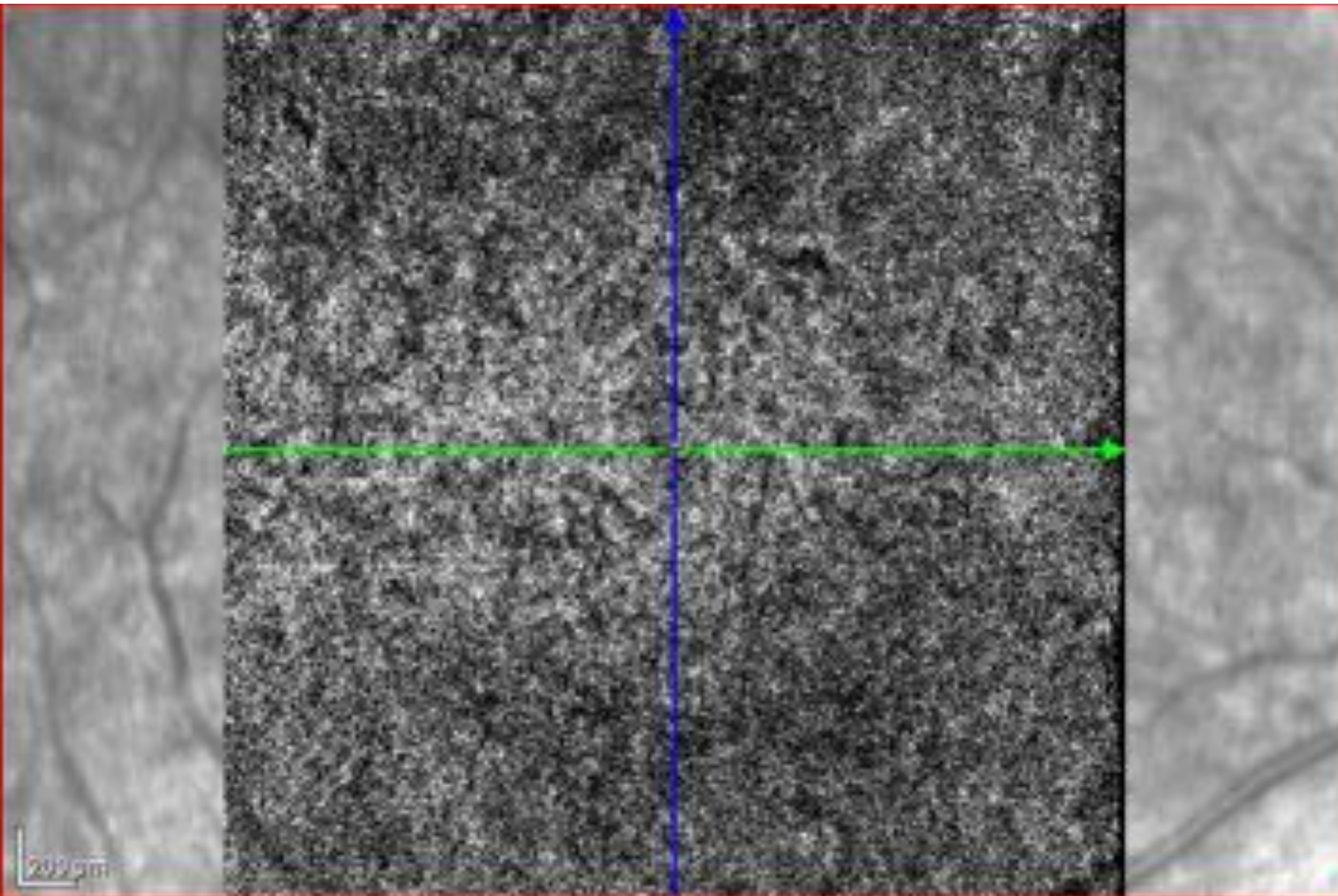




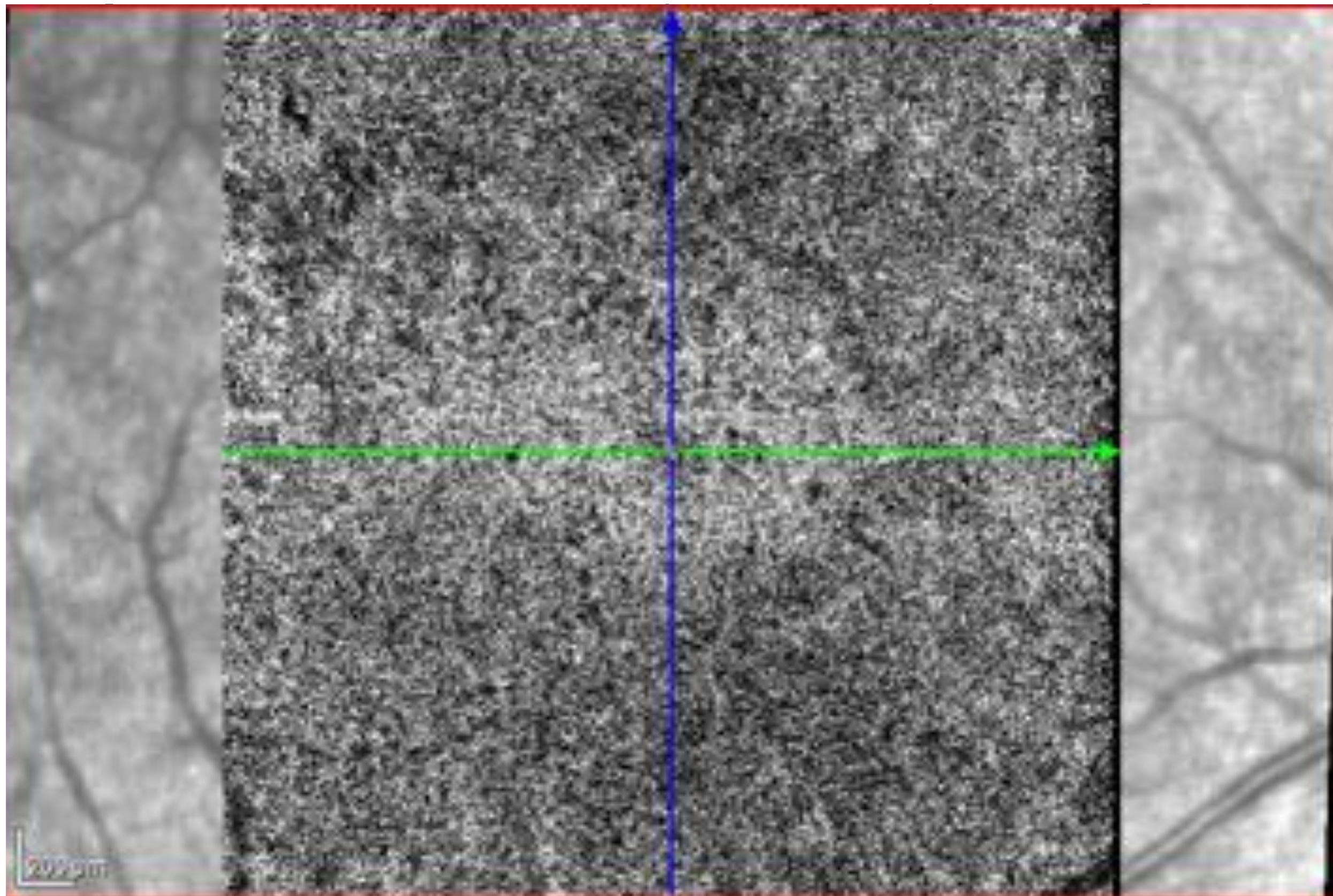
Baseline OS



3 Wks OS



Baseline OD



3 wks OD

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- Active inflammatory reaction at the level of CC, RPE and PRs
- Transient disruption of choriocapillaris flow
- Flow voids within the choriocapillaris appear to resolve with treatment