

# Interpretation Guide

OCT Angiography and integrated diagnostic imaging



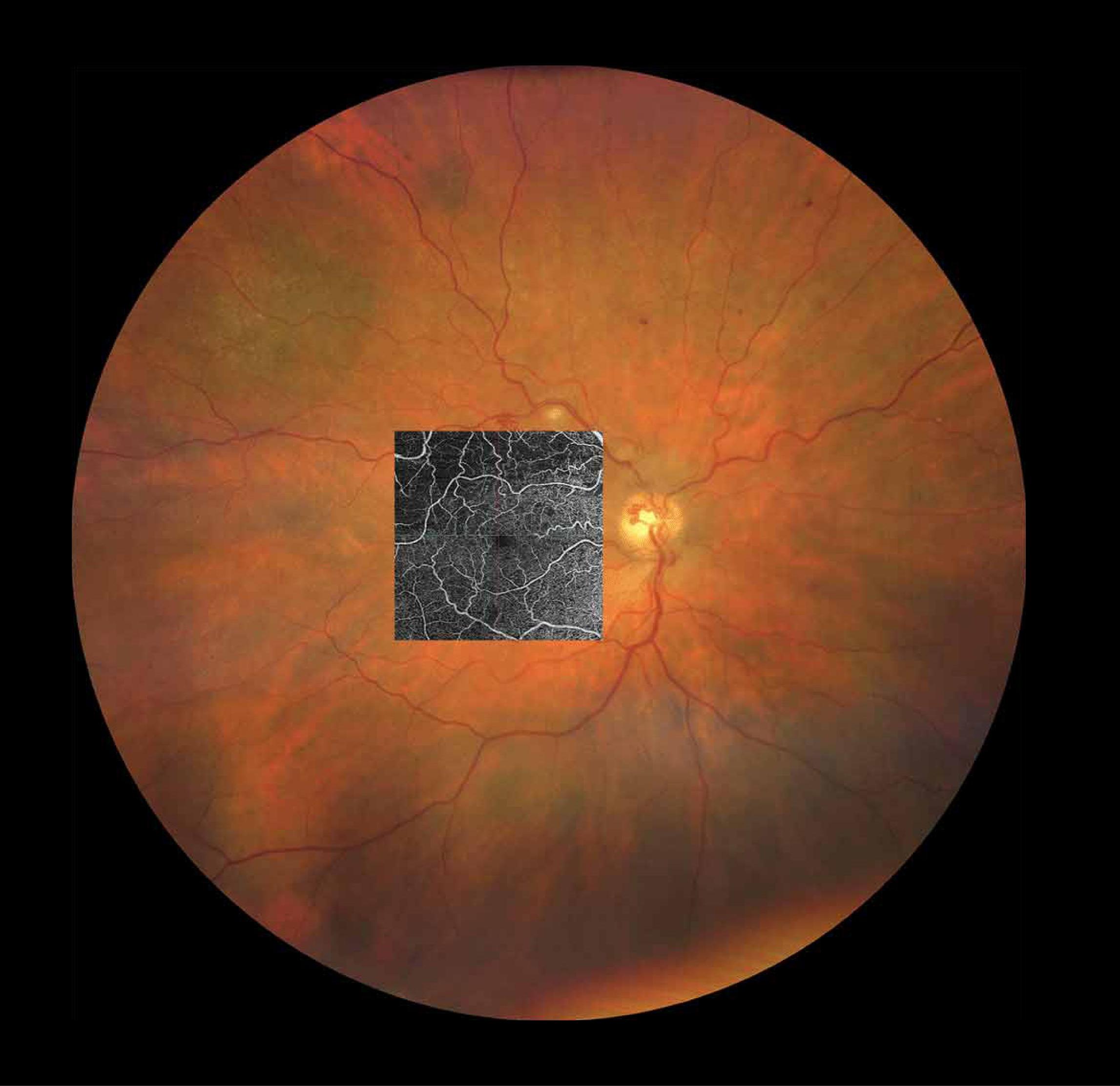
## **Helpful Hints**

More» Click to advance.

Click on the number icons to reveal more information.

Click on the magnifying glass symbol to see an enlarged version of the image.

X Click to close.

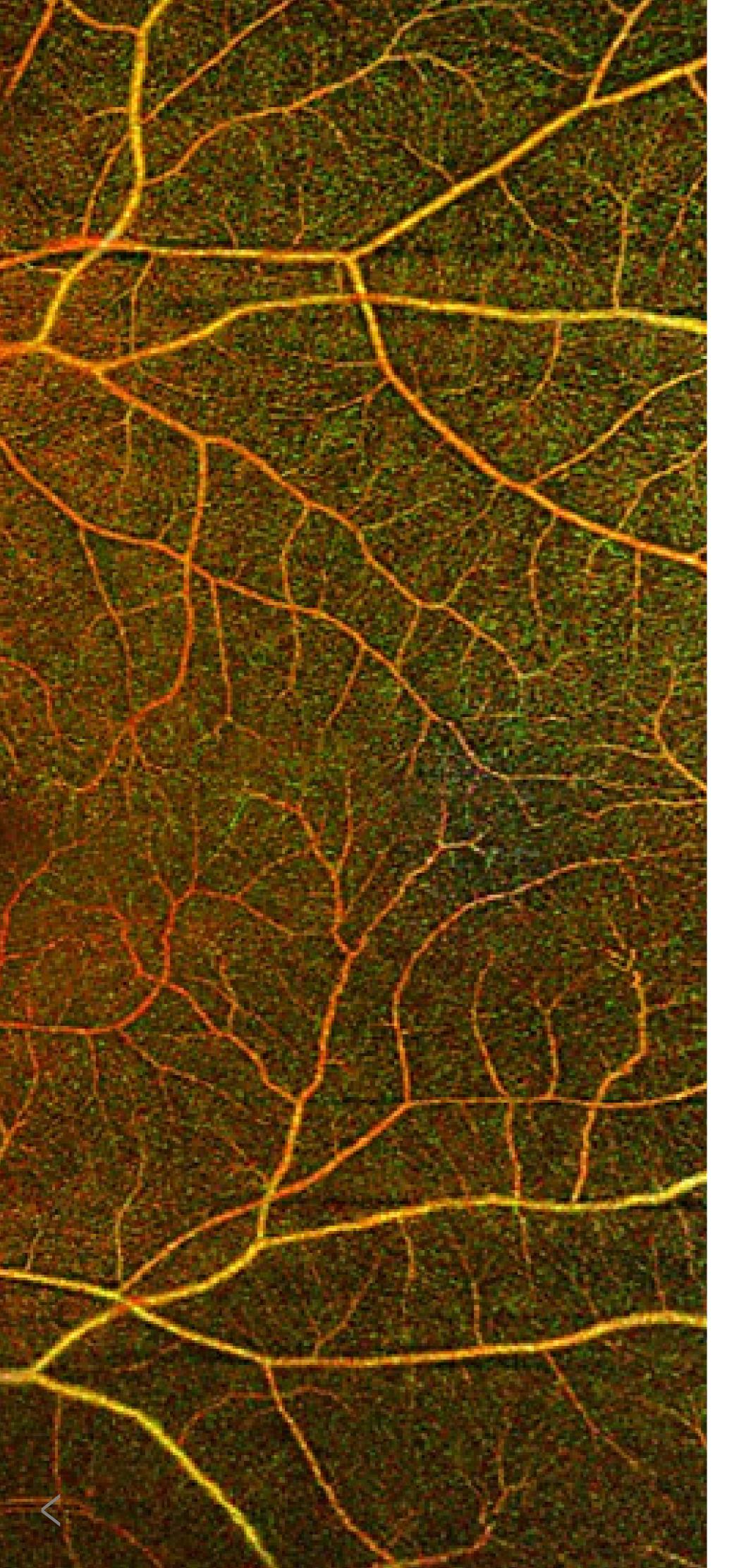


Multi-modality retinal imaging with OCT Angiography (OCTA) enables you to capture ultra-clear images of retinal and choroidal microvasculature in seconds.

As a clinician, this allows you to have a new level of confidence when suggesting a treatment regimen that is customized to your patient's individual needs.

In eye clinics worldwide, multi-modality in diagnostics and imaging is fast becoming the standard of care.





# **Table of Contents**

Branch Retinal Vein Occlusion (BRVO)	
Neovascular AMD	6-9
Central Serous Chorioretinopathy (CSC)	10-12
Ischemic diabetic maculopathy	13-14
Non-proliferative DR	15-16
Exudative CNV	17-18



# Branch Retinal Vein Occlusion (BRVO)

### **Patient History**

53-year-old female

### Summary

In contrast to a single 6x6 mm or 8x8 mm scan, the AngioPlex® Montage—with up to a 50-degree field of view—is able to reveal the extent of ischemia, providing a more complete clinical picture.





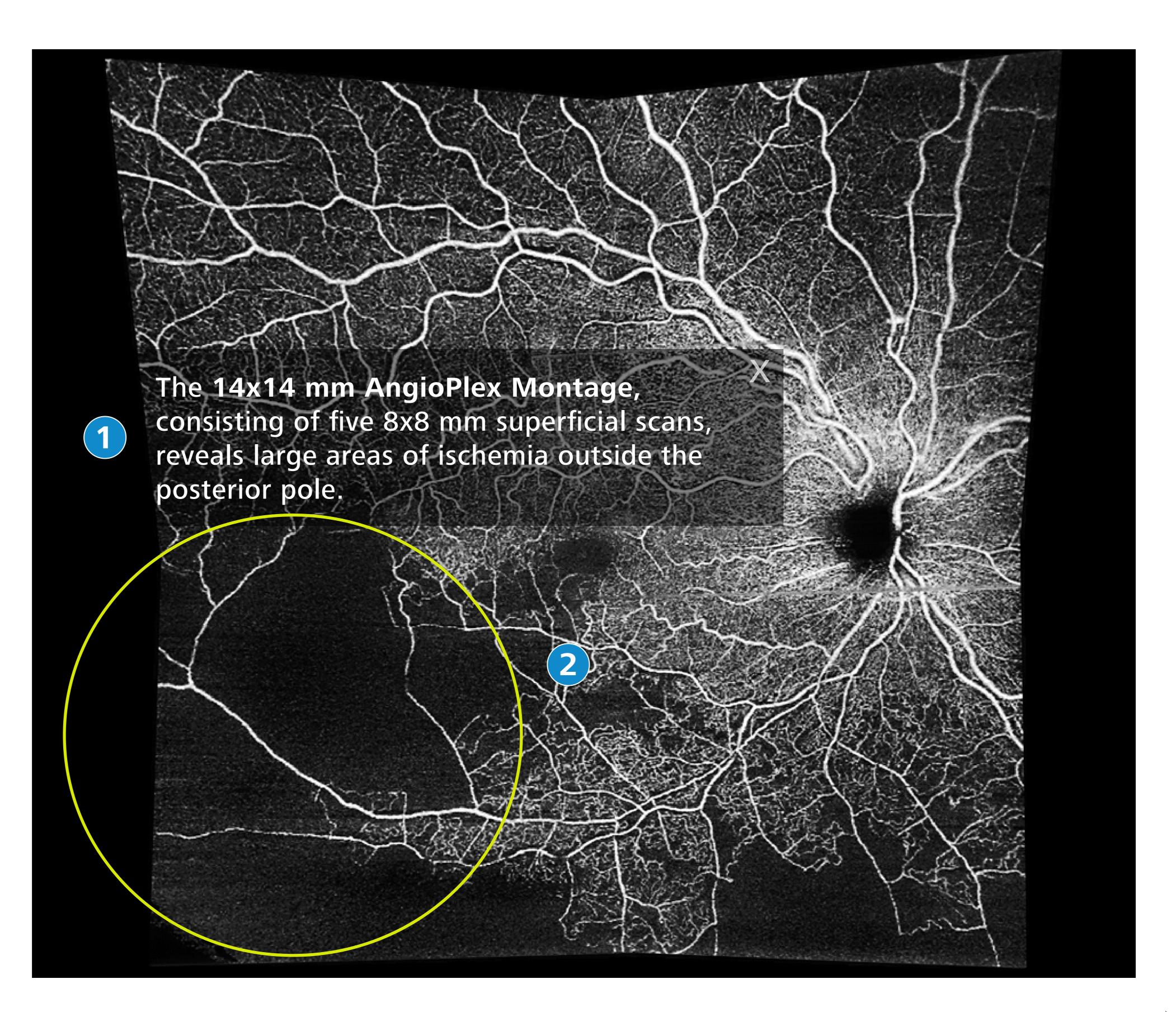
## Branch Retinal Vein Occlusion (BRVO)

### **Patient History**

53-year-old female

### **Summary**

In contrast to a single 6x6 mm or 8x8 mm scan, the AngioPlex® Montage—with up to a 50-degree field of view—is able to reveal the extent of ischemia, providing a more complete clinical picture.





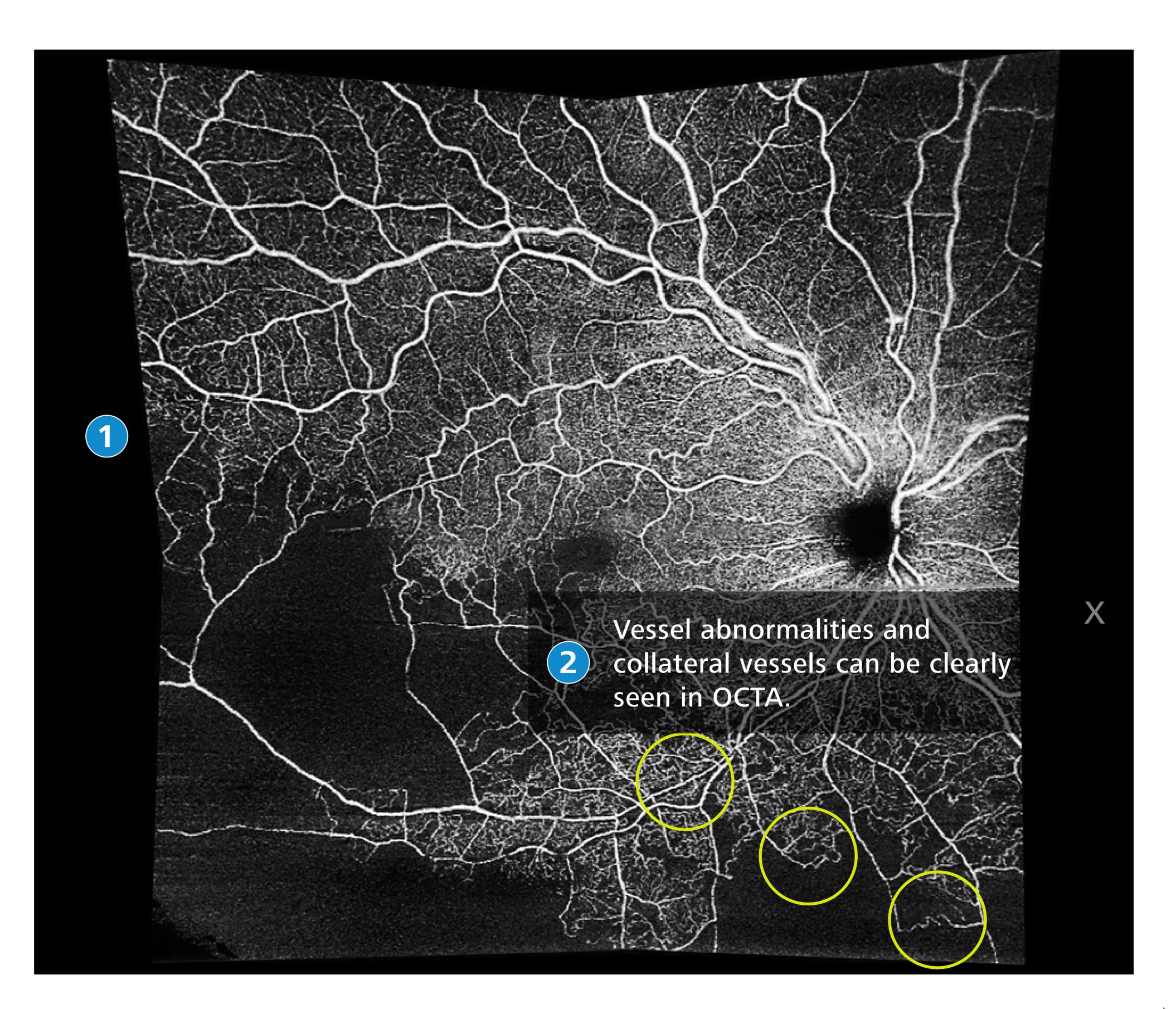
## Branch Retinal Vein Occlusion (BRVO)

### **Patient History**

53-year-old female

#### Summary

In contrast to a single 6x6 mm or 8x8 mm scan, the AngioPlex® Montage—with up to a 50-degree field of view—is able to reveal the extent of ischemia, providing a more complete clinical picture.

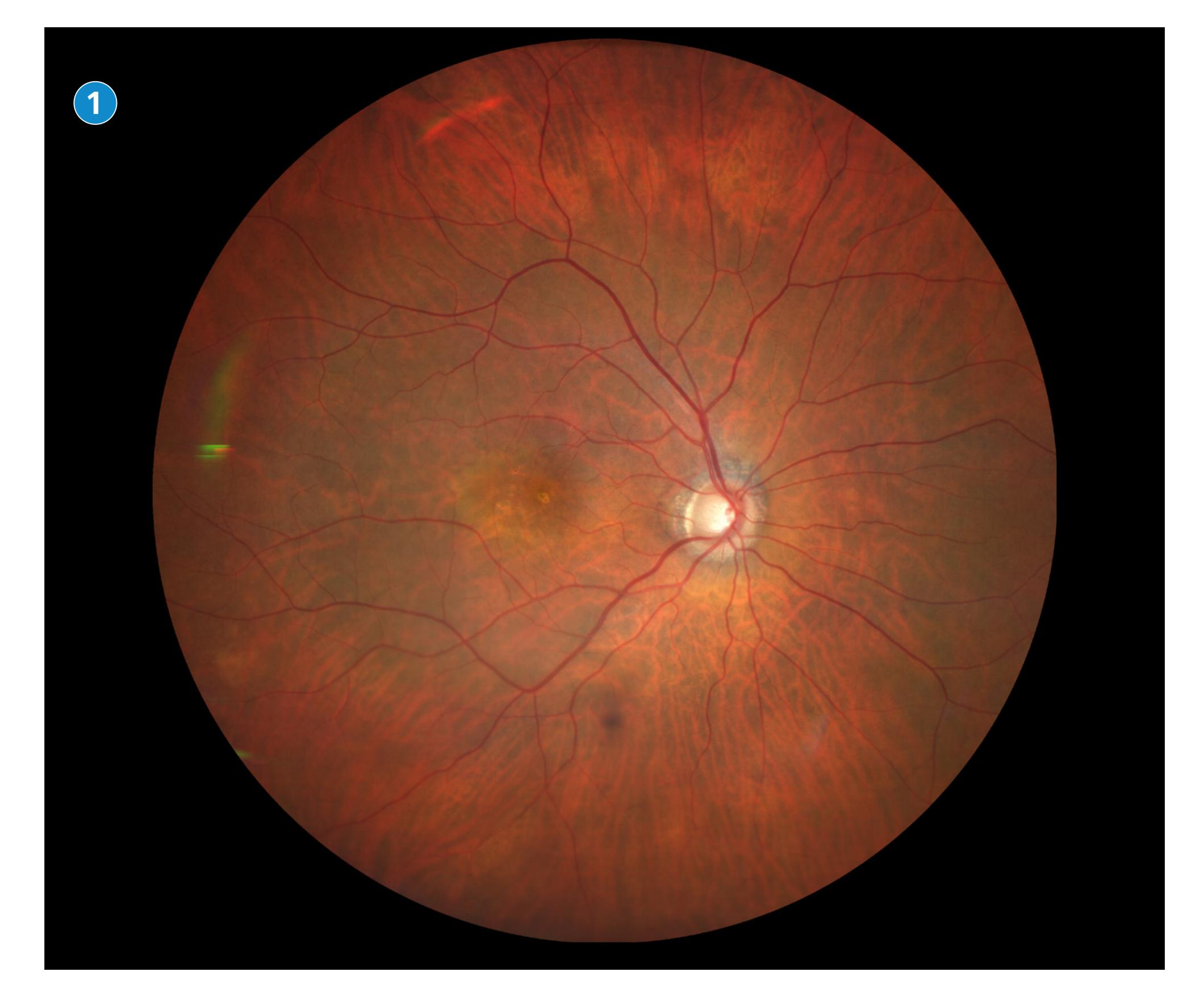




# Neovascular Age-related Macular Degeneration (AMD)

### **Patient History**

Patient presented with a history of neovascular AMD in the right eye, which has been treated with anti-VEGF.

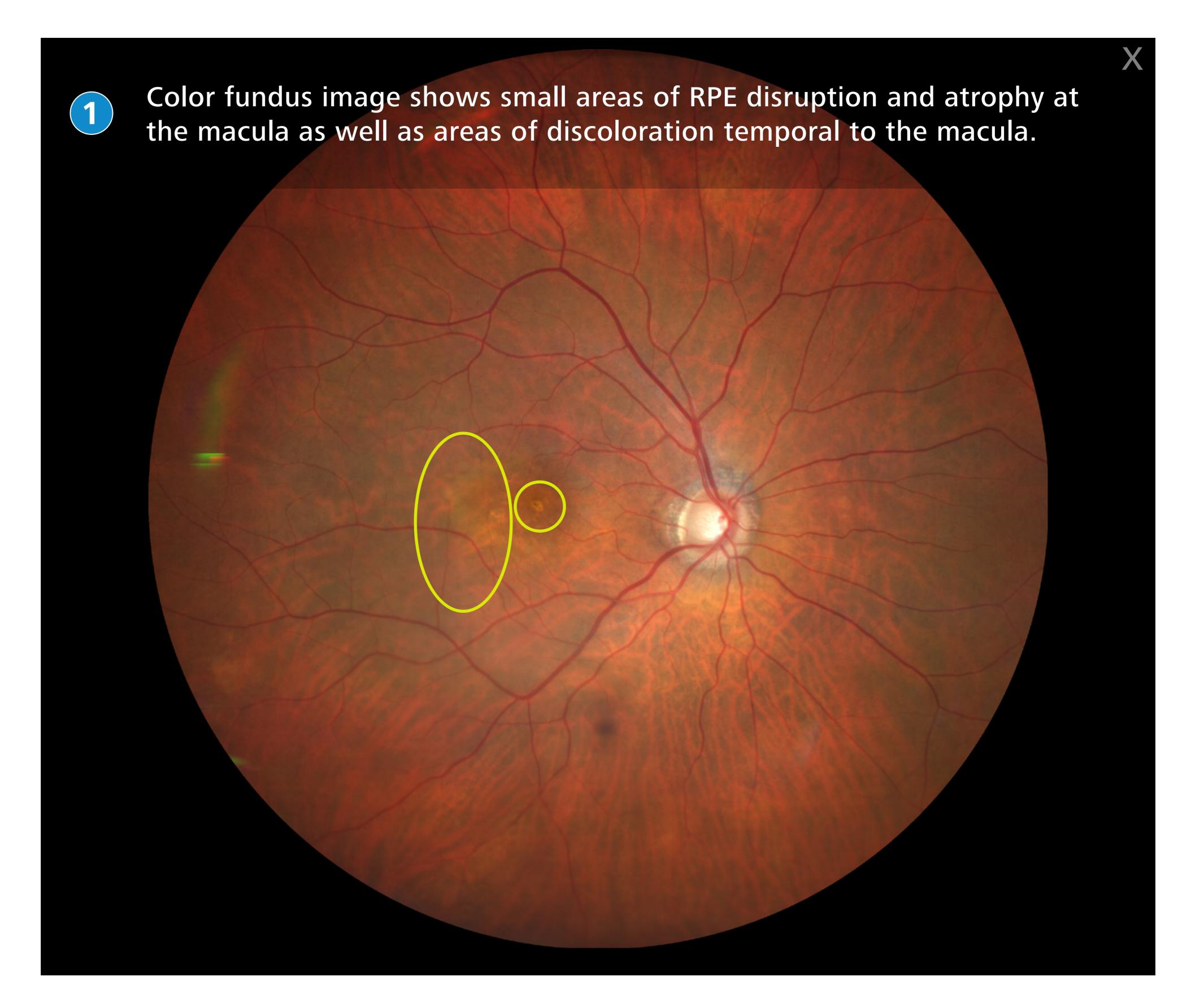




# Neovascular Age-related Macular Degeneration (AMD)

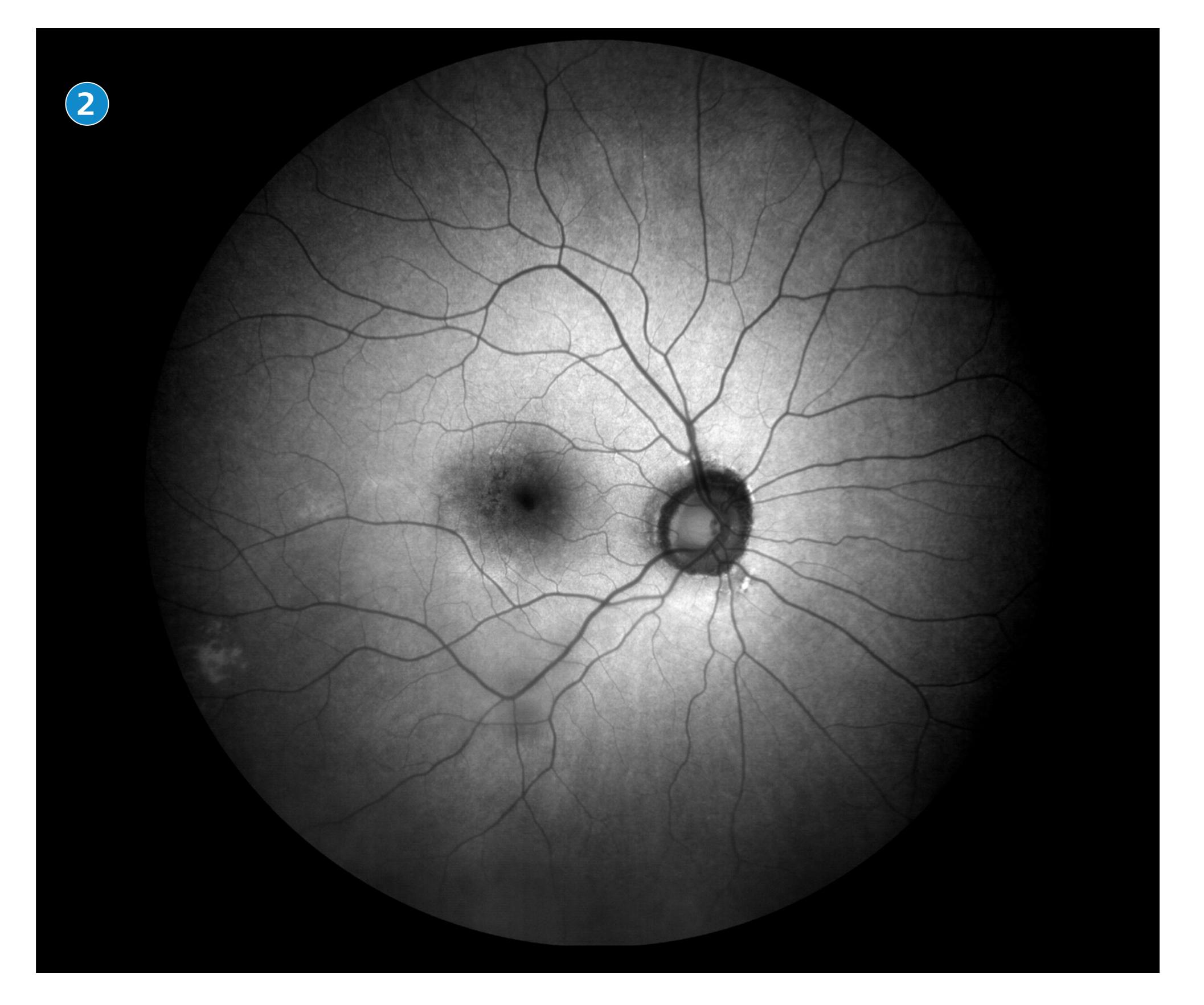
### **Patient History**

Patient presented with a history of neovascular AMD in the right eye, which has been treated with anti-VEGF.



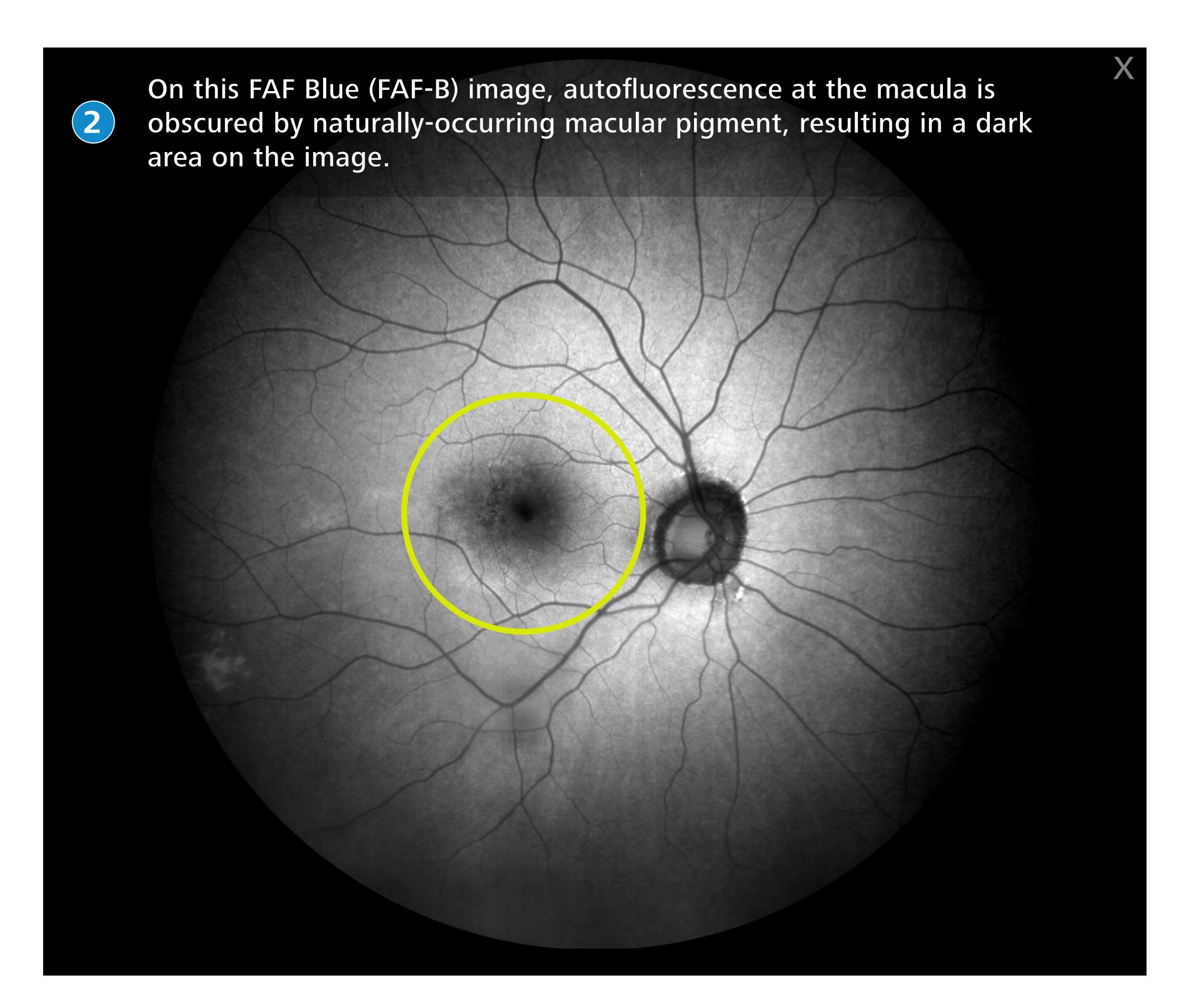


Fundus autofluorescence imaging (FAF) is indicated in geographic atrophy to document the location and size of disease.



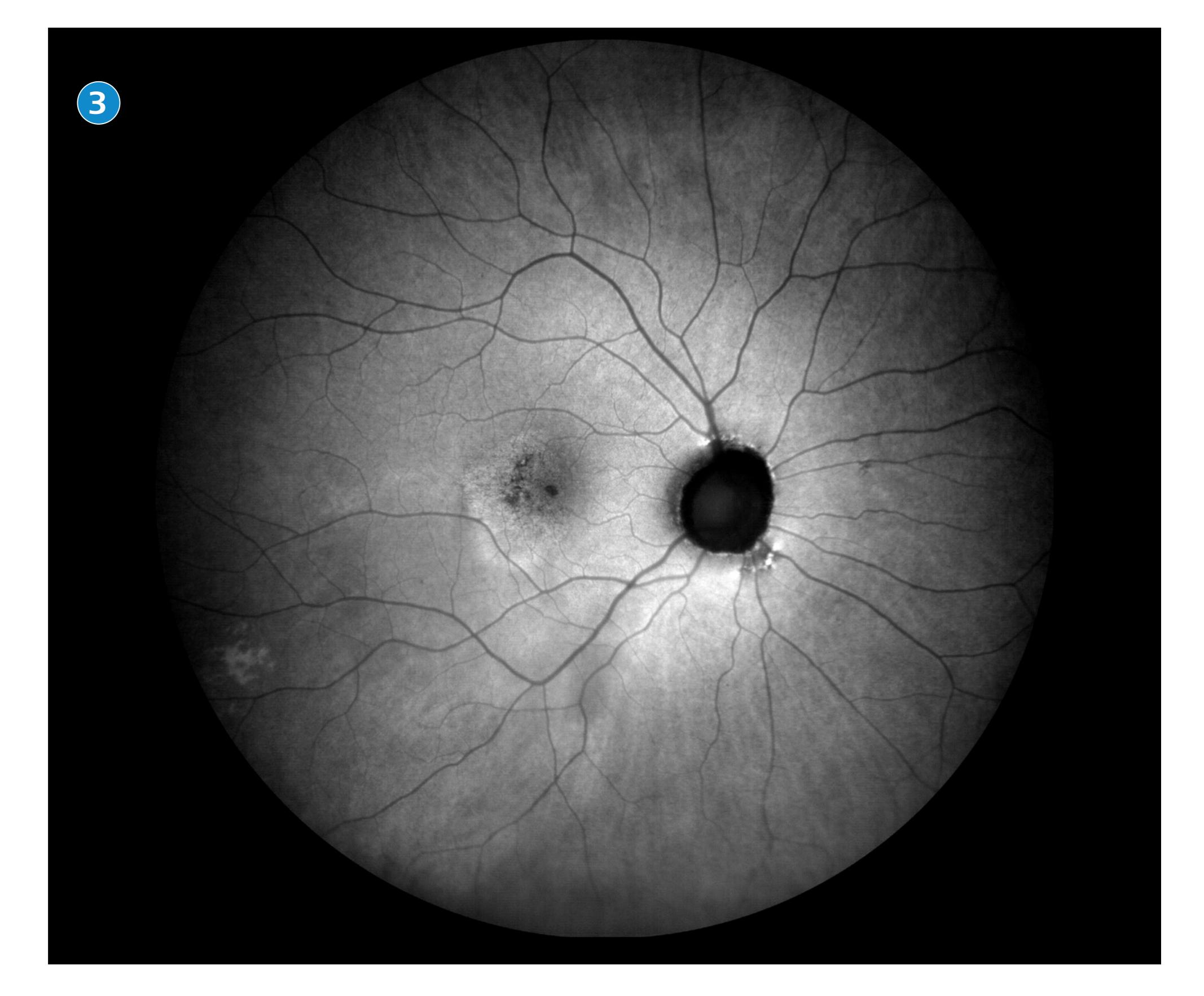


Fundus autofluorescence imaging (FAF) is indicated in geographic atrophy to document the location and size of disease.



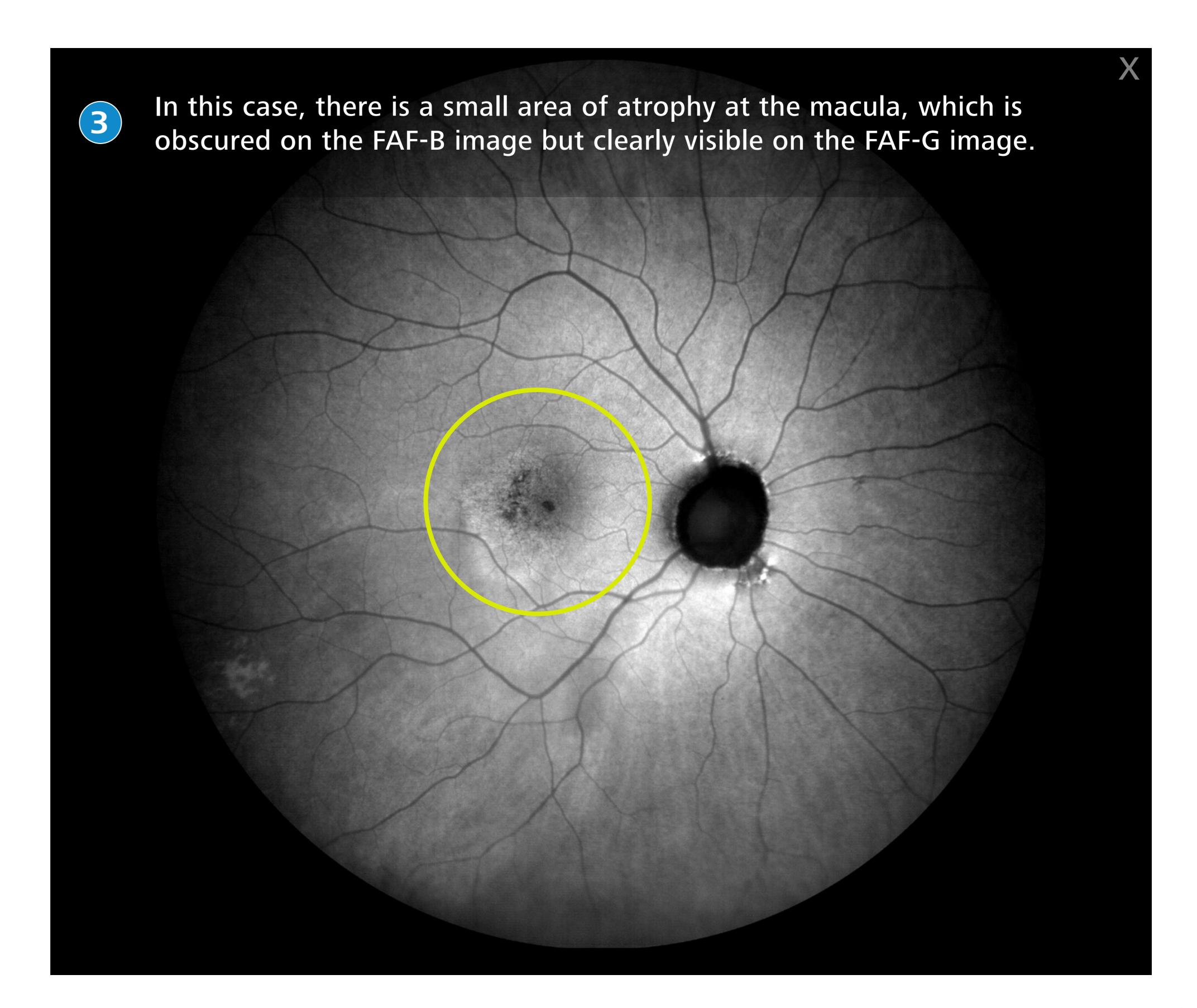


FAF Green (FAF-G) is better at visualizing the macular area, since it is not affected by macular pigment.





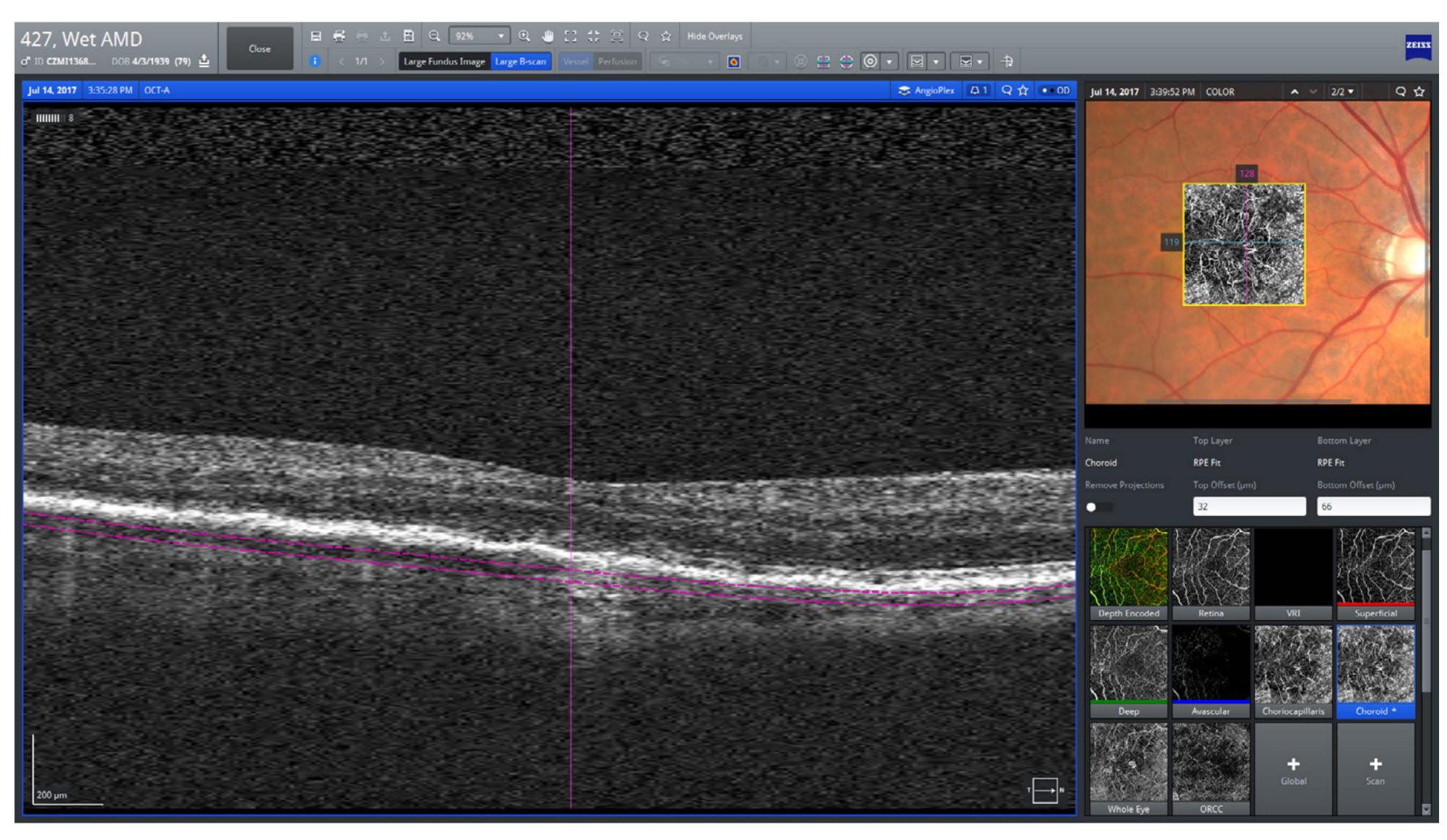
FAF Green (FAF-G) is better at visualizing the macular area, since it is not affected by macular pigment.

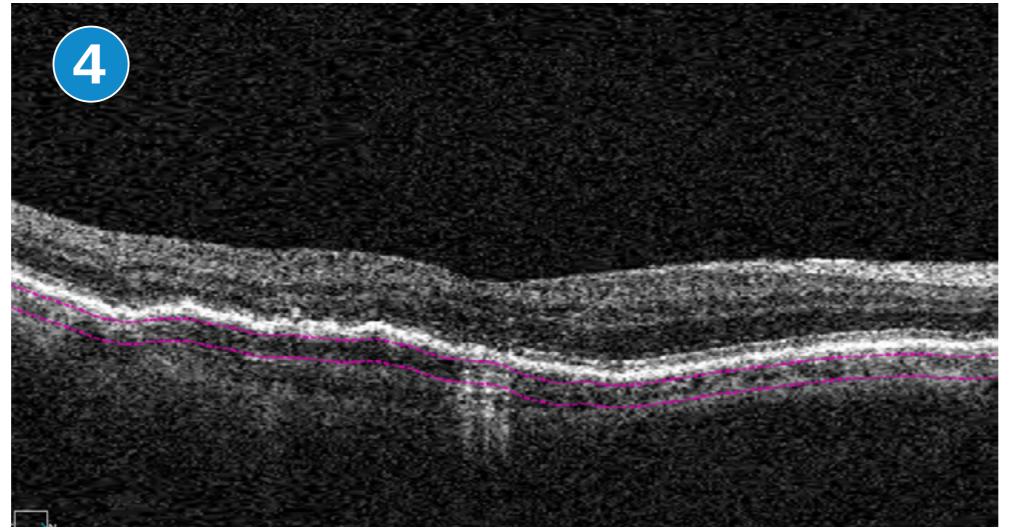


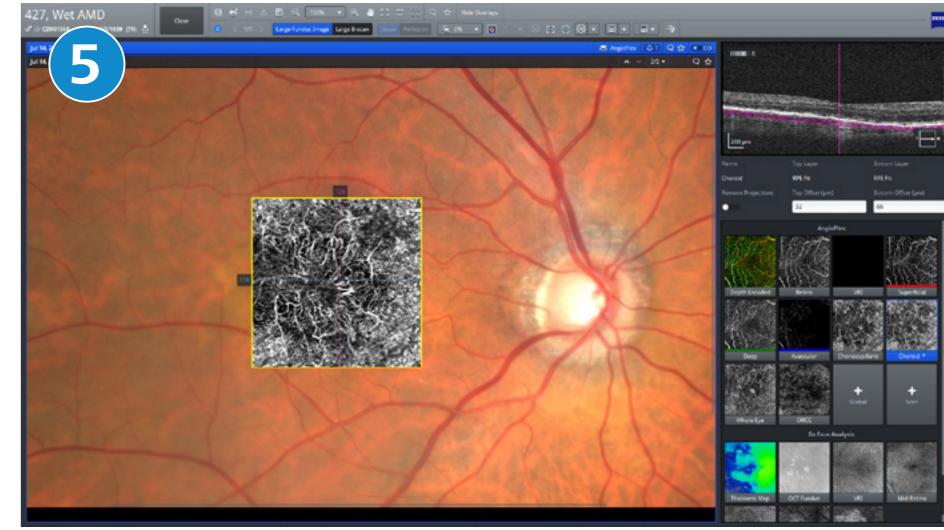


#### Summary

Integrated diagnostic imaging allows the clinician to quickly monitor all aspects of the disease, from accurately documenting the location and the extent of geographic atrophy using color and FAF images, to monitoring for subretinal fluid with OCT.





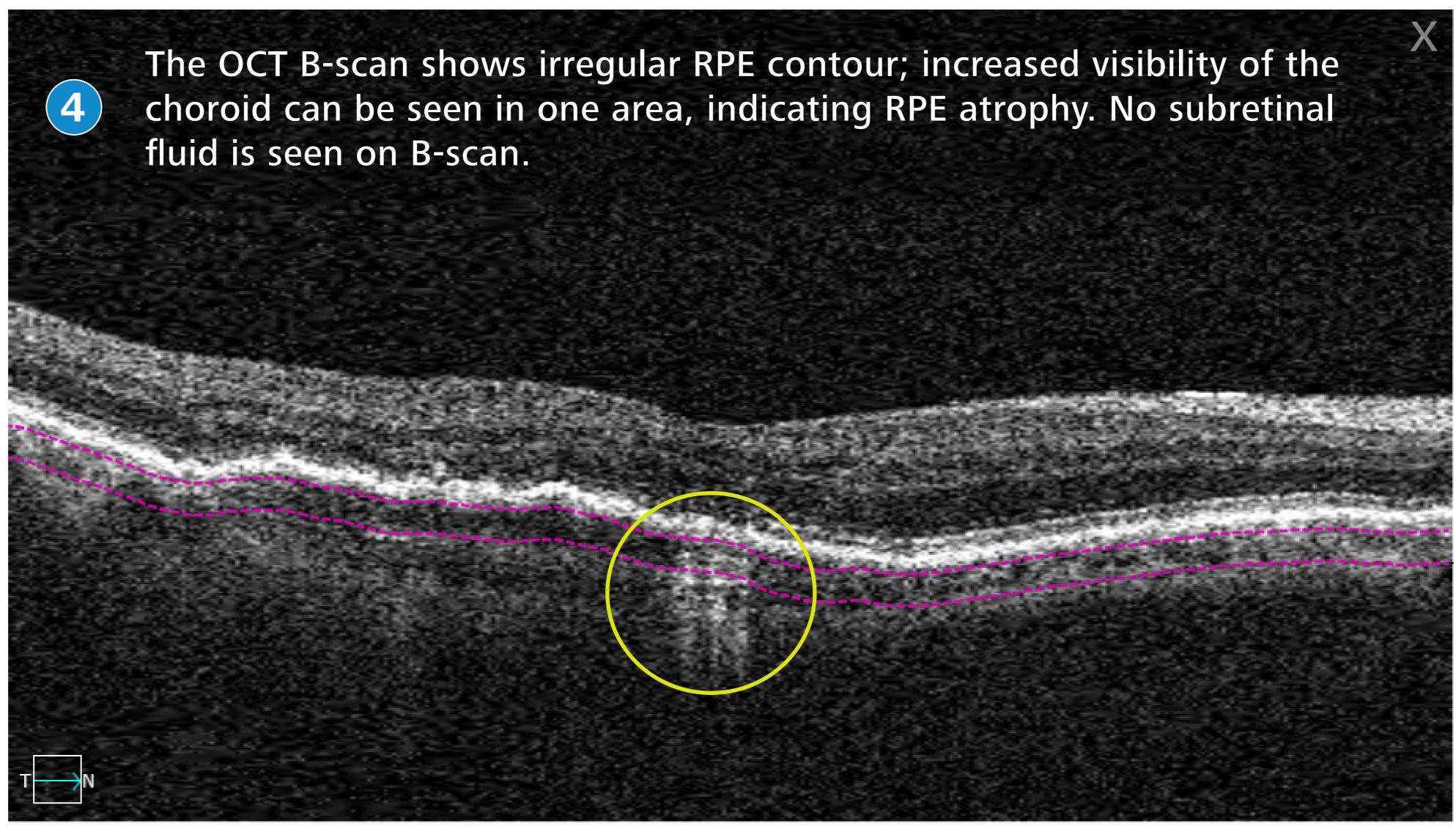


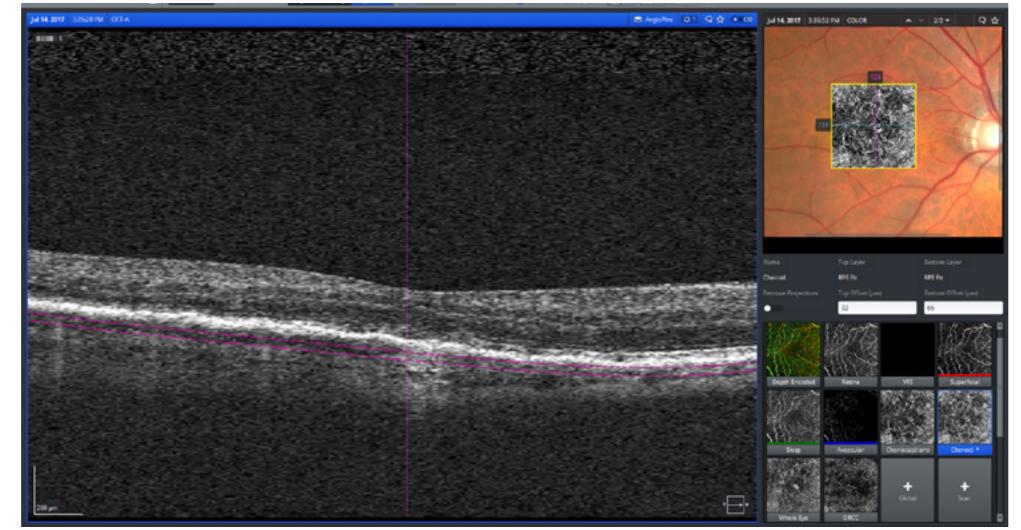


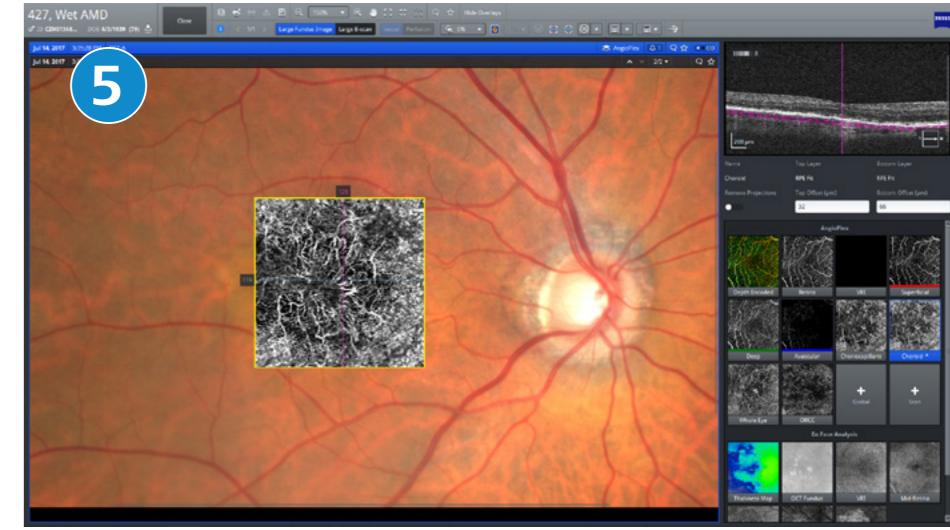


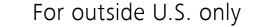
### Summary

Integrated diagnostic imaging allows the clinician to quickly monitor all aspects of the disease, from accurately documenting the location and the extent of geographic atrophy using color and FAF images, to monitoring for subretinal fluid with OCT.





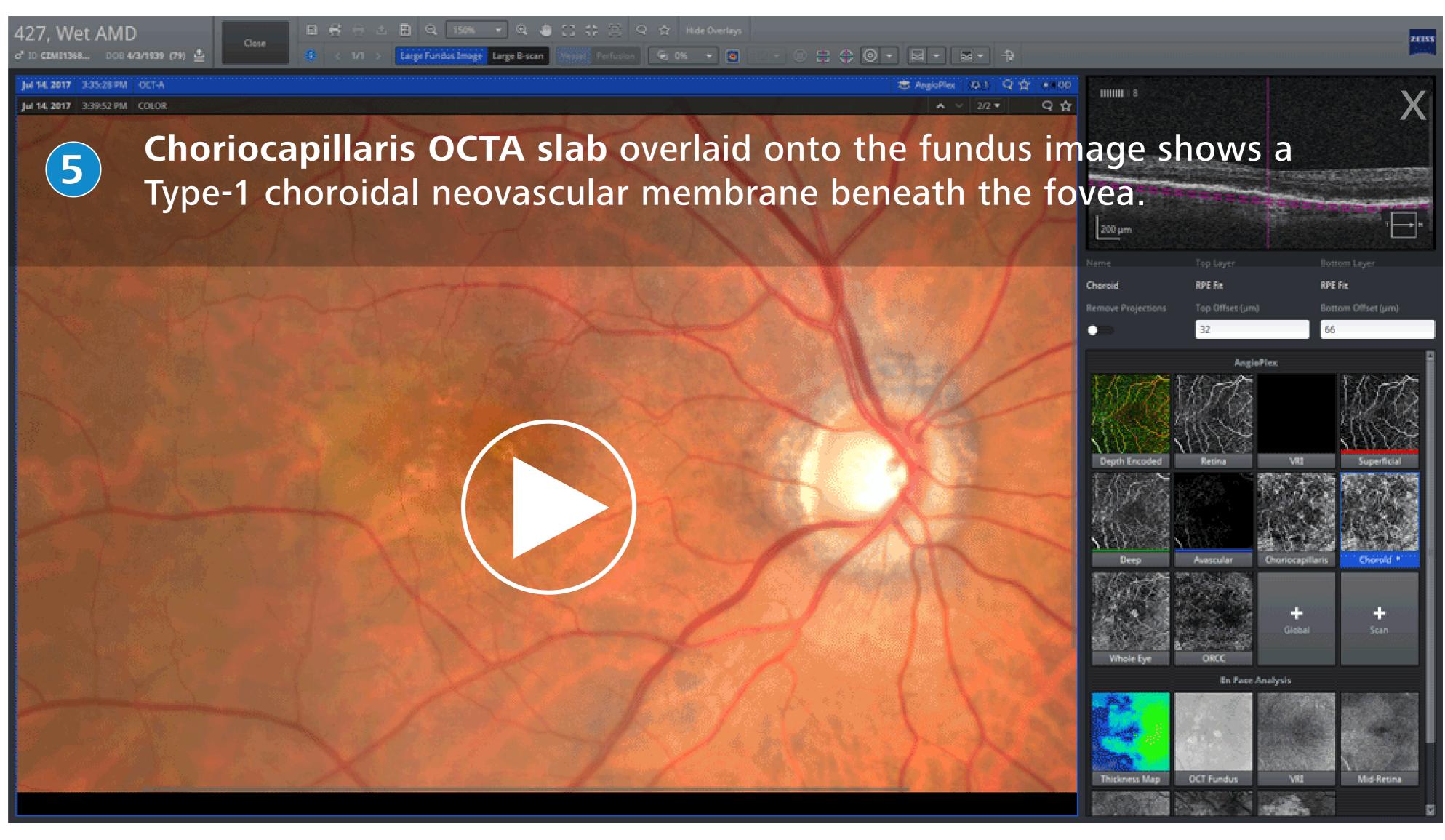


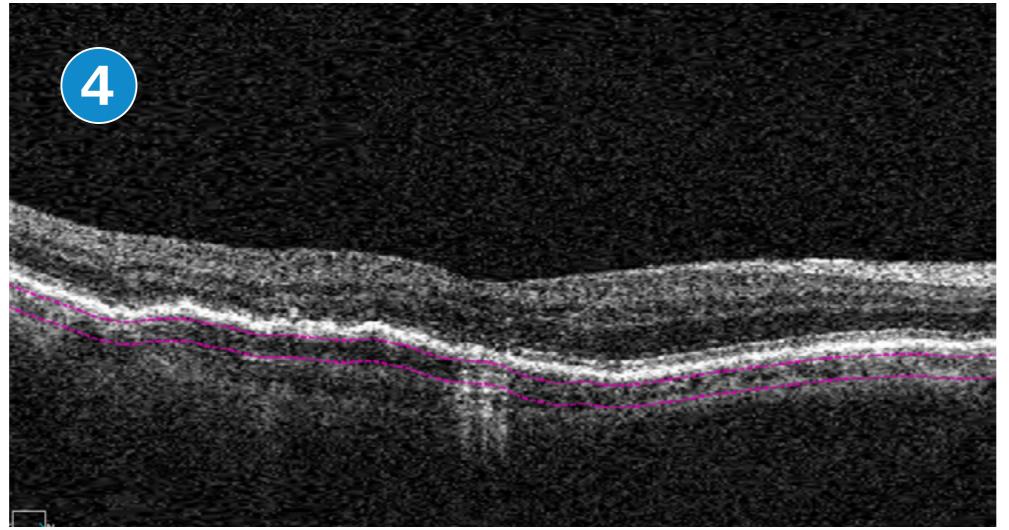


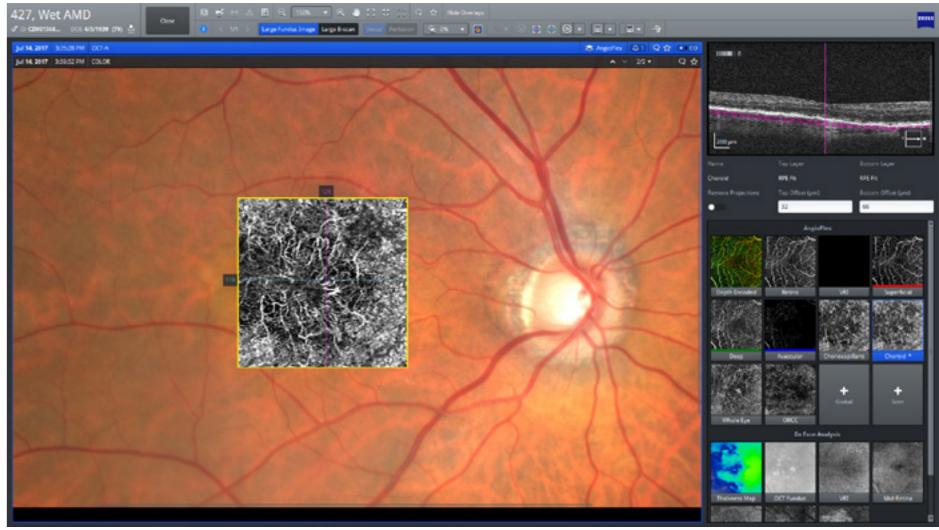


#### Summary

Integrated diagnostic imaging allows the clinician to quickly monitor all aspects of the disease, from accurately documenting the location and the extent of geographic atrophy using color and FAF images, to monitoring for subretinal fluid with OCT.



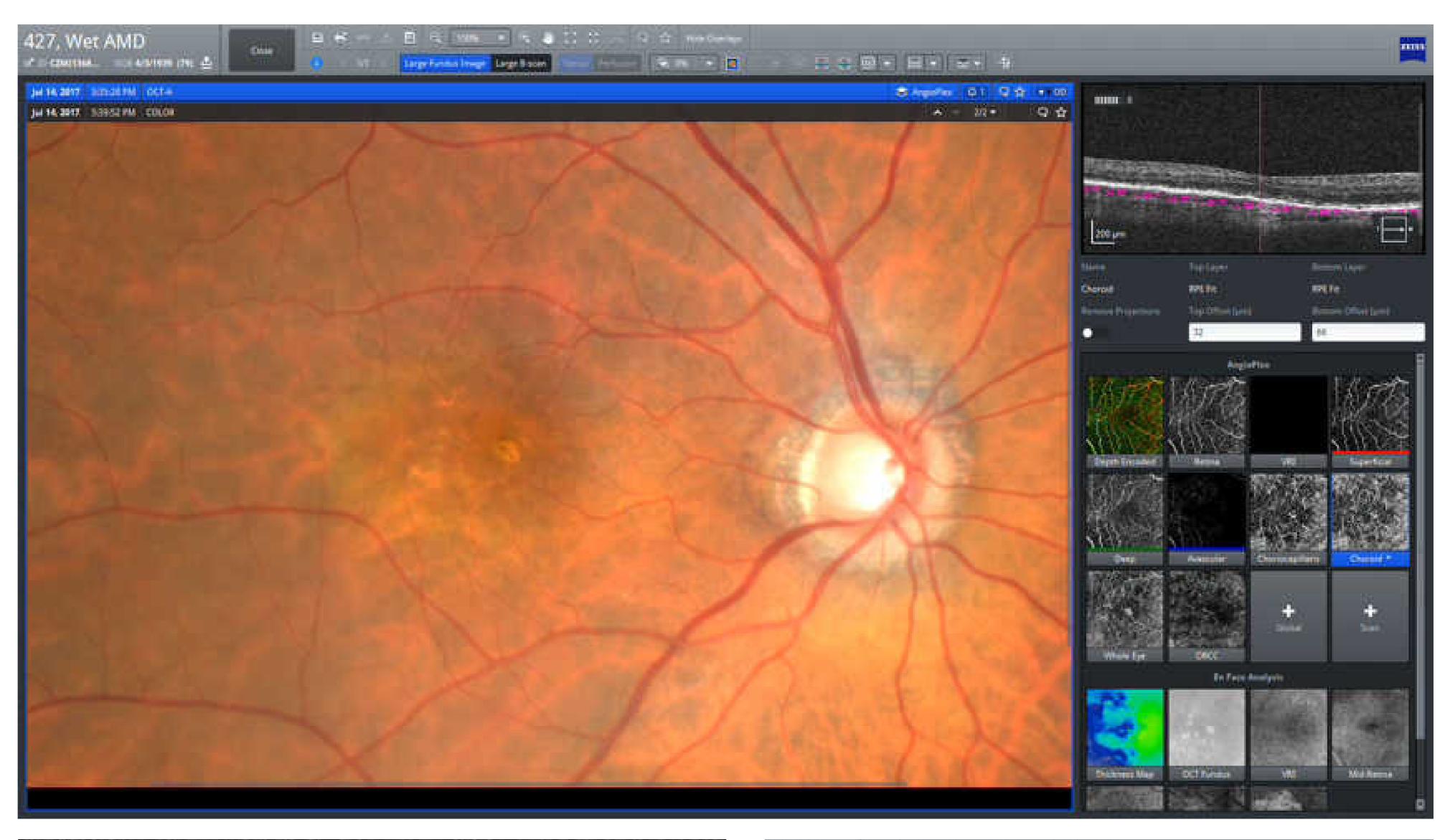


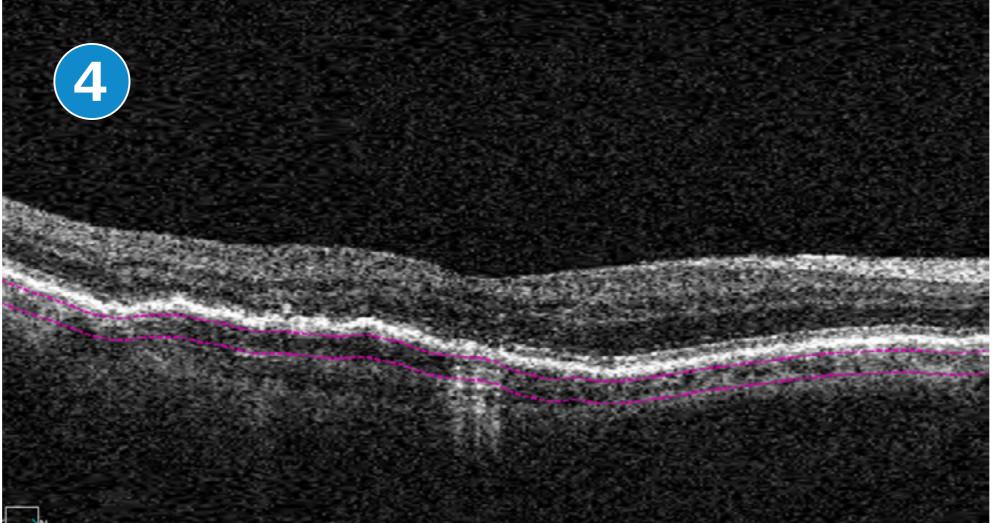


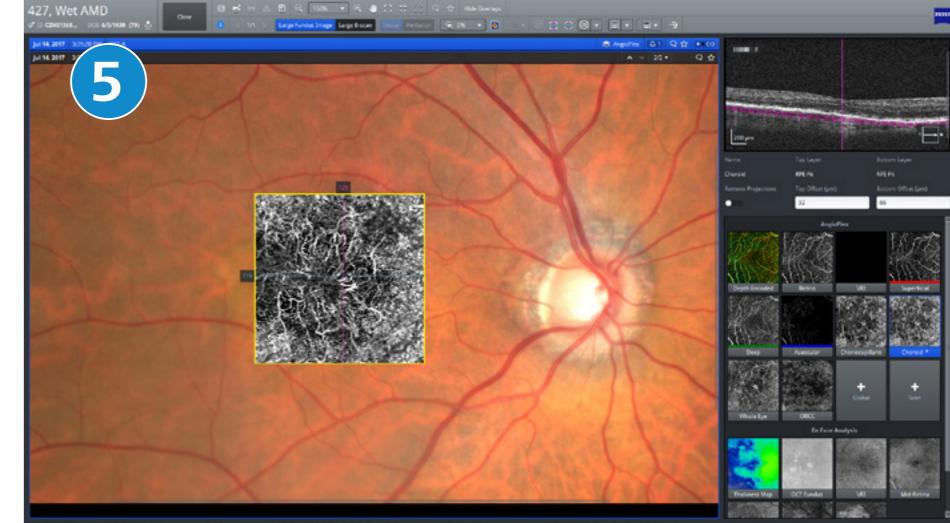


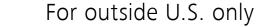
### Summary

Integrated diagnostic imaging allows the clinician to quickly monitor all aspects of the disease, from accurately documenting the location and the extent of geographic atrophy using color and FAF images, to monitoring for subretinal fluid with OCT.





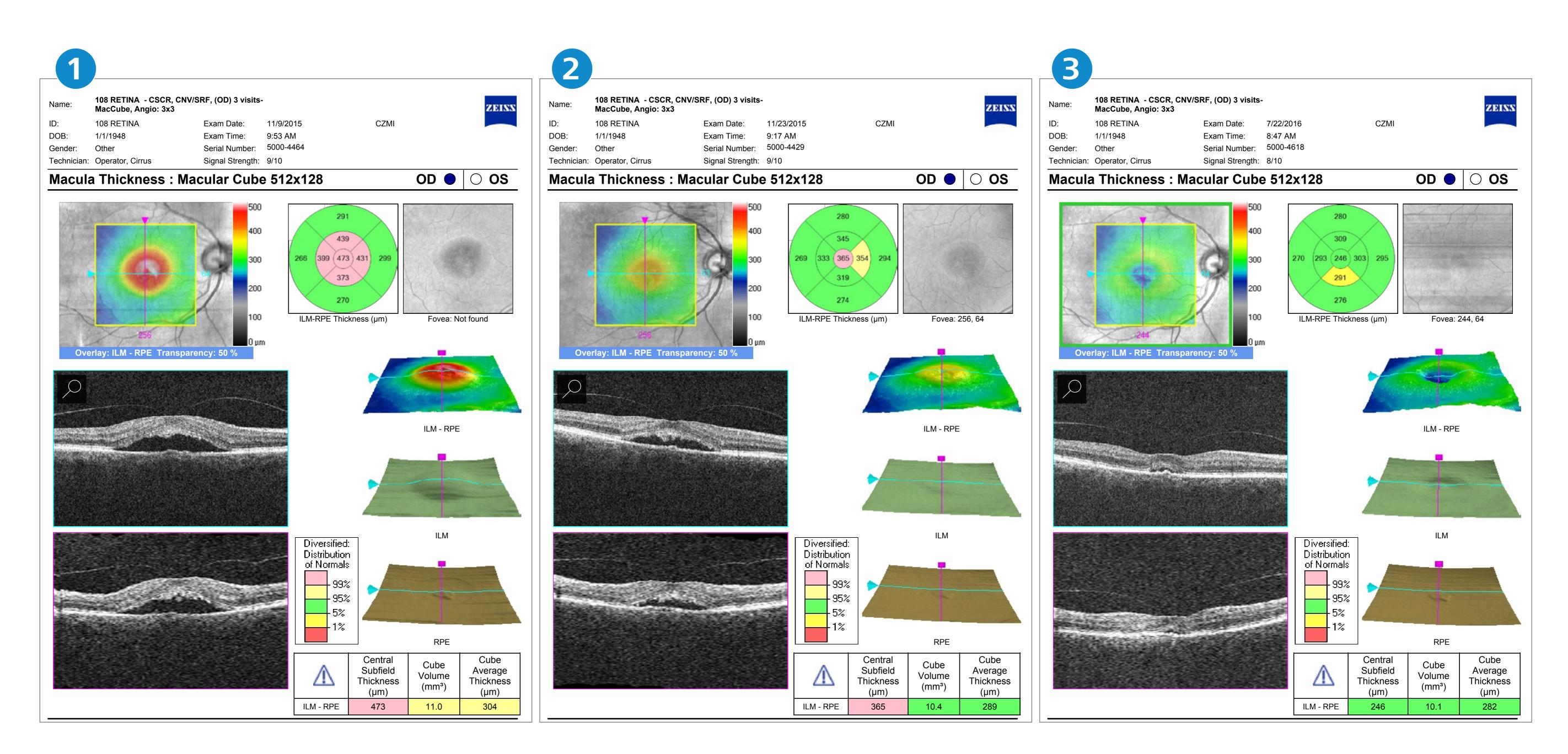






### **Patient History**

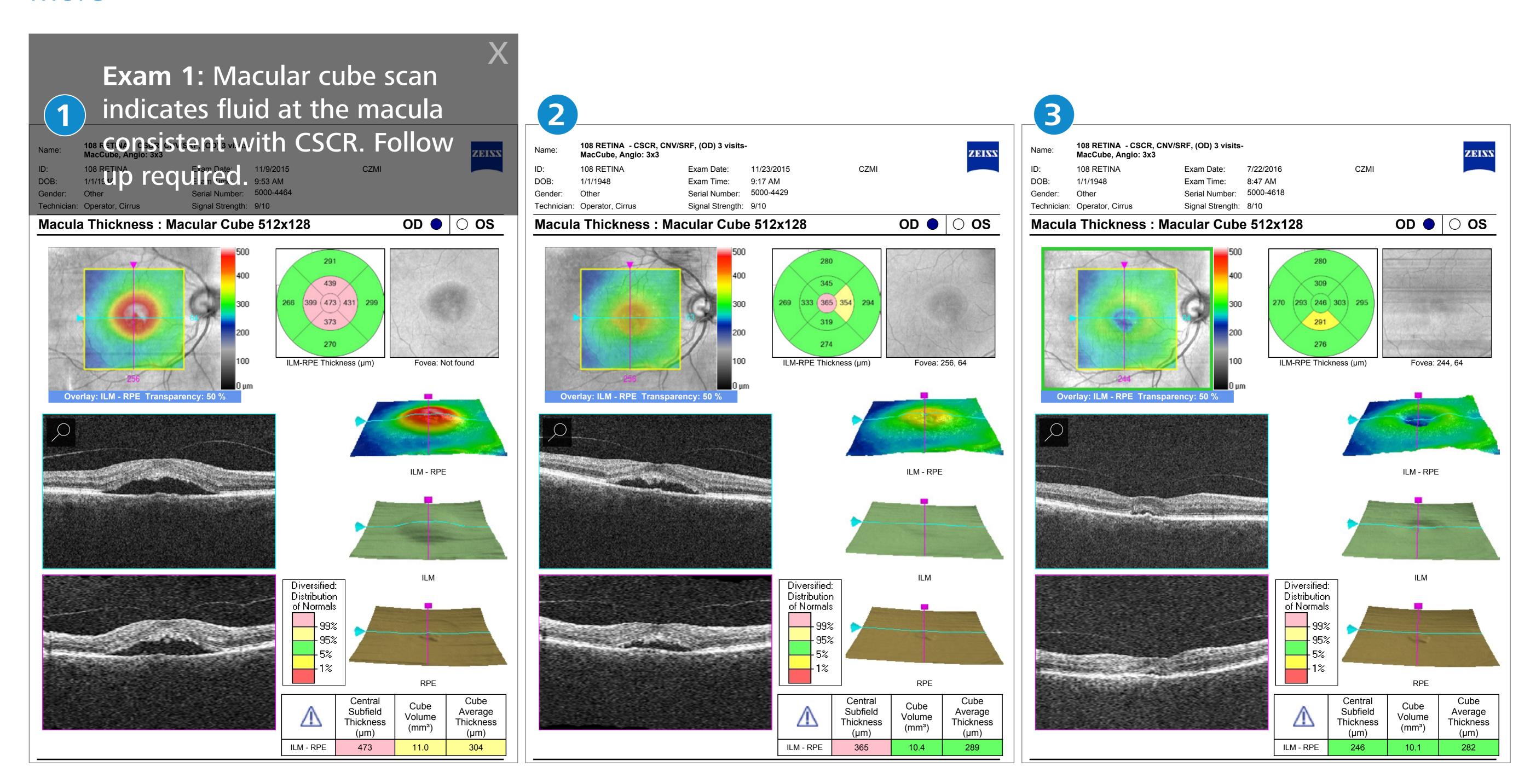
70-year-old male. Patient presented with complaints of decreased vision in the right eye.





### **Patient History**

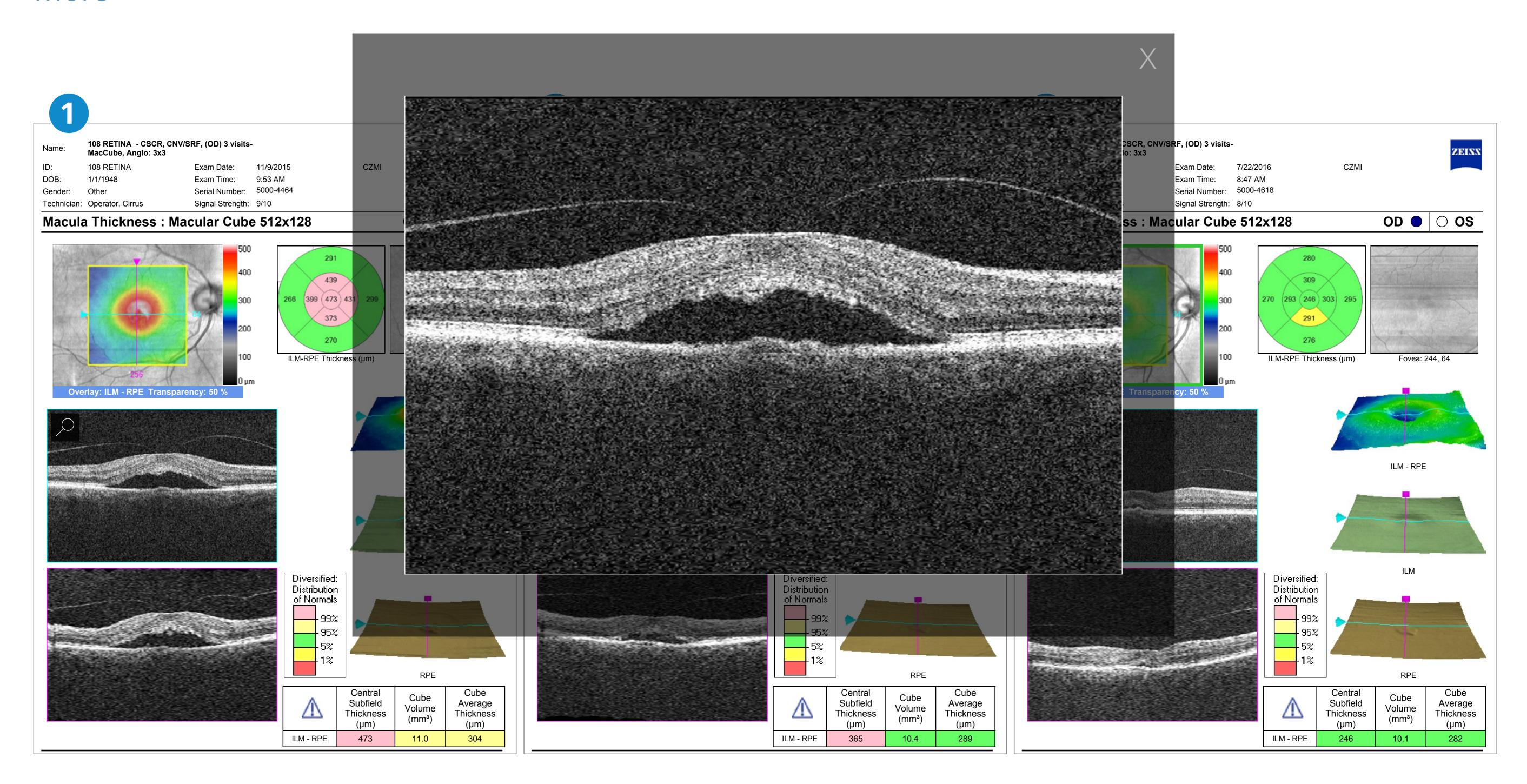
70-year-old male. Patient presented with complaints of decreased vision in the right eye.





### **Patient History**

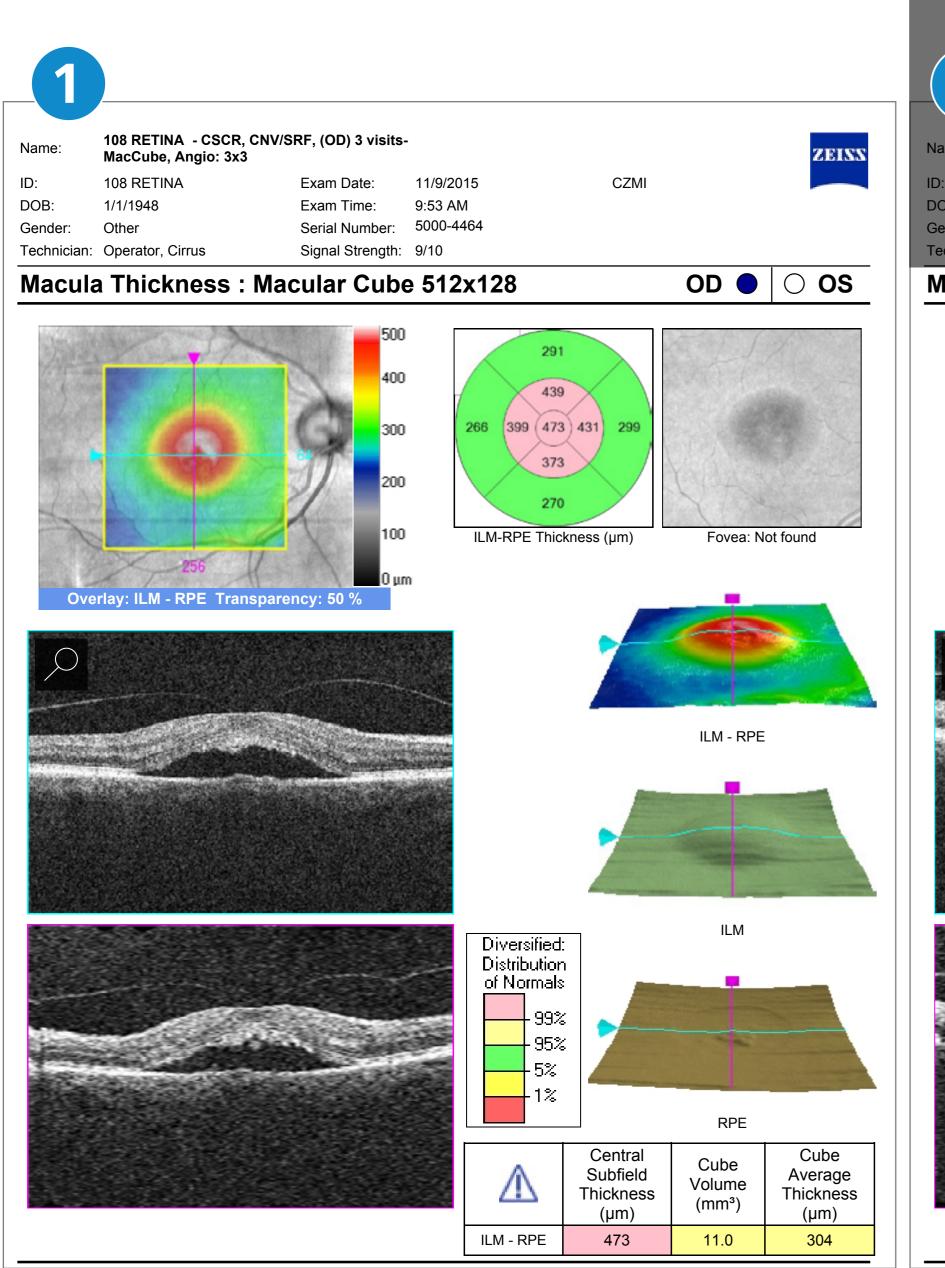
70-year-old male. Patient presented with complaints of decreased vision in the right eye.

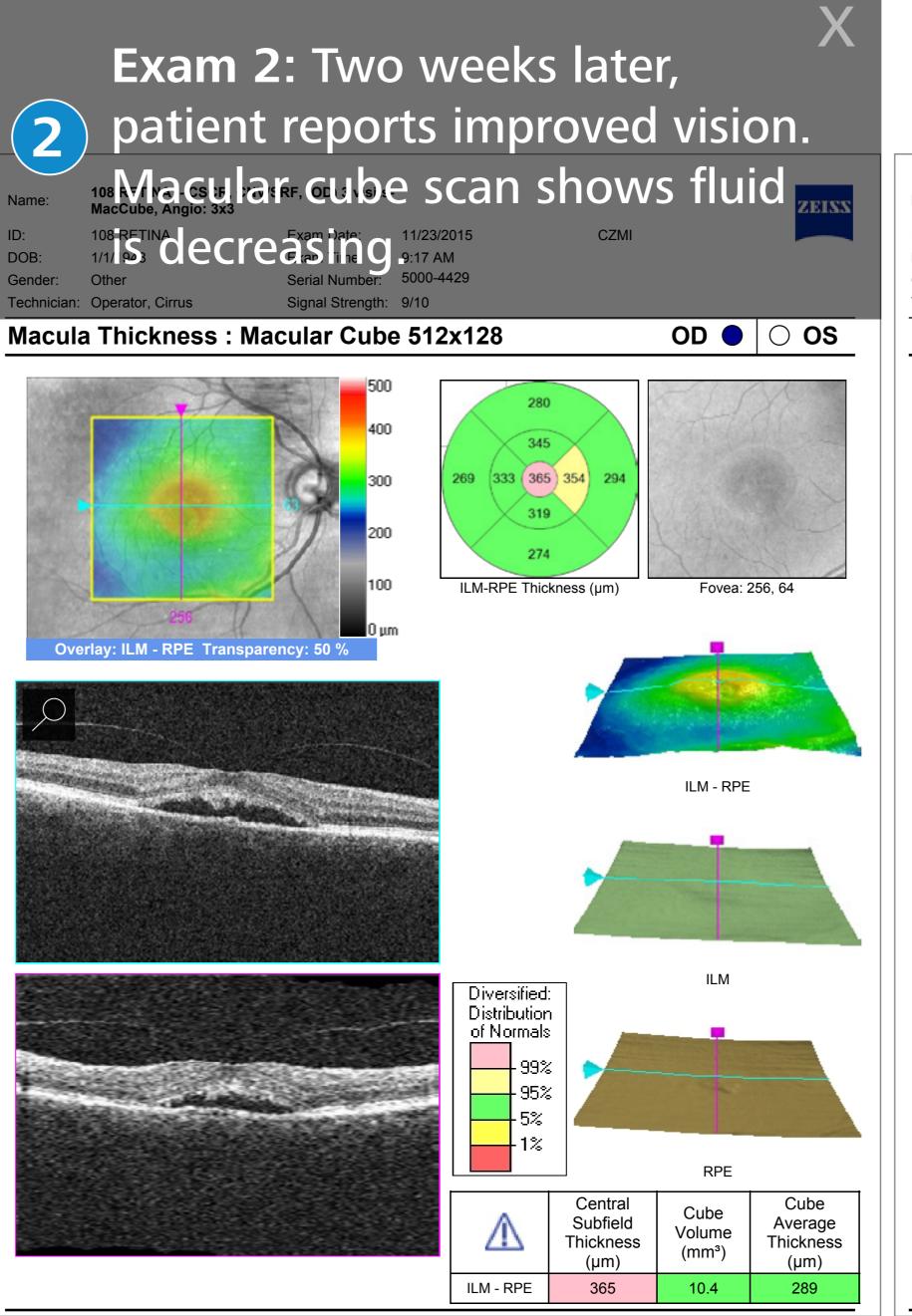


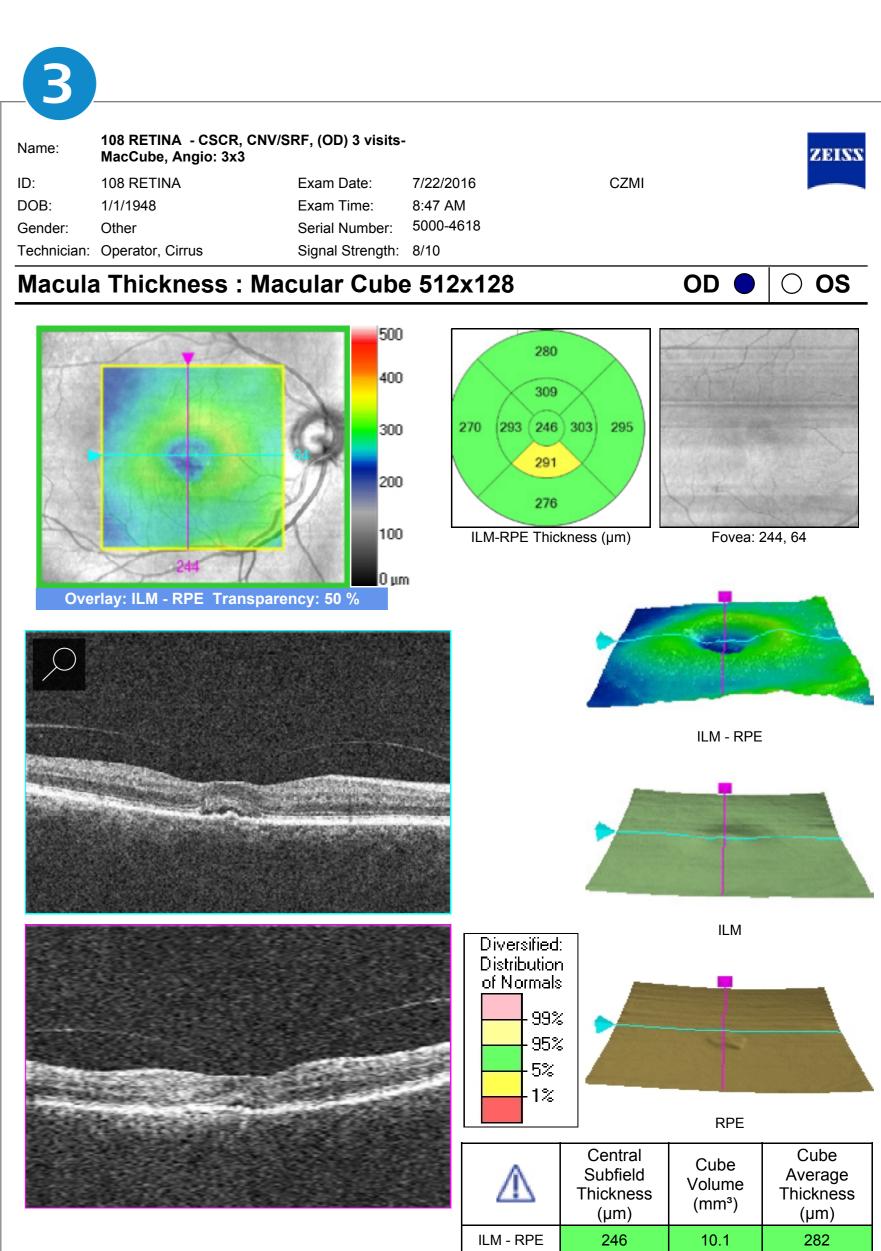


### **Patient History**

70-year-old male. Patient presented with complaints of decreased vision in the right eye.



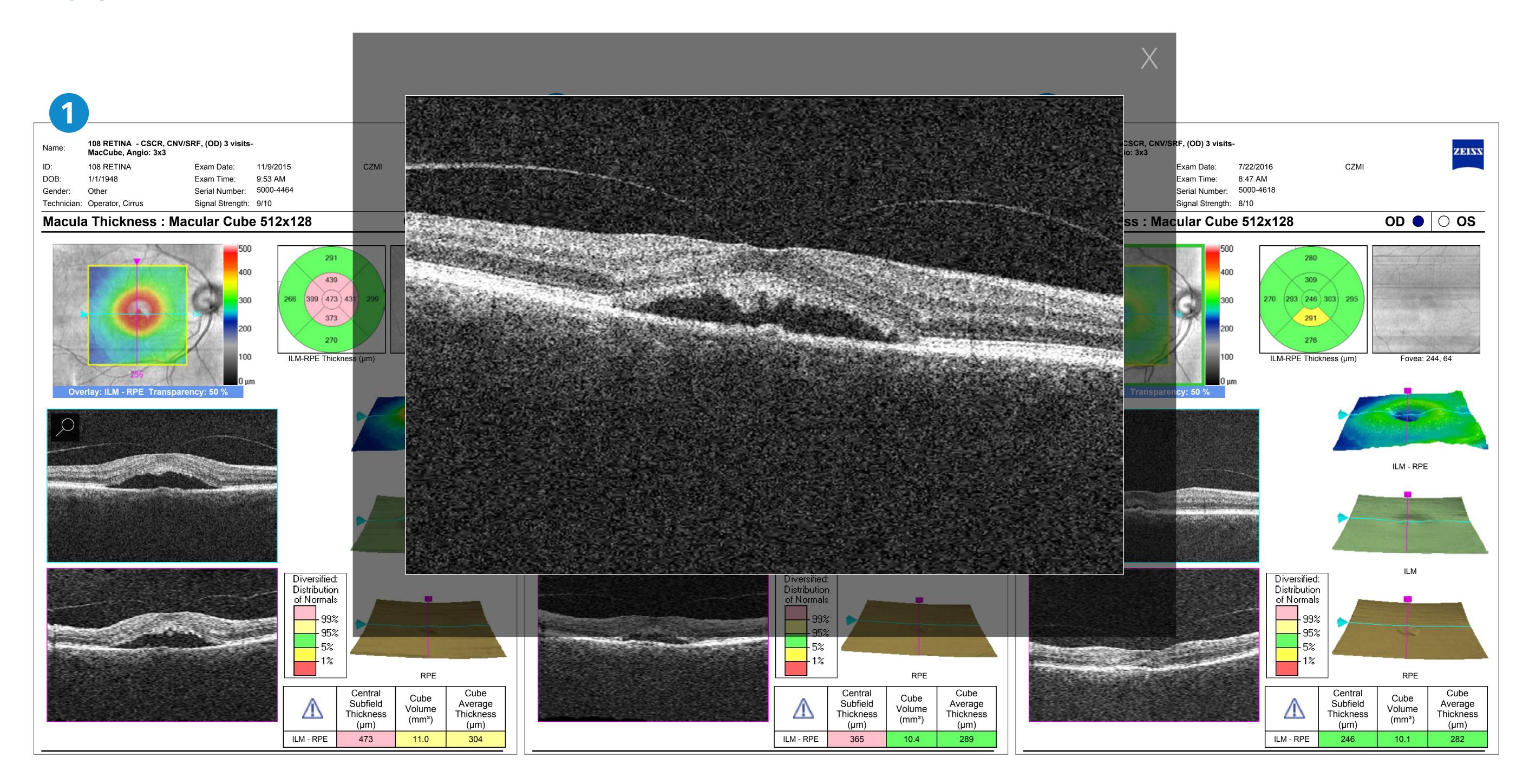






### **Patient History**

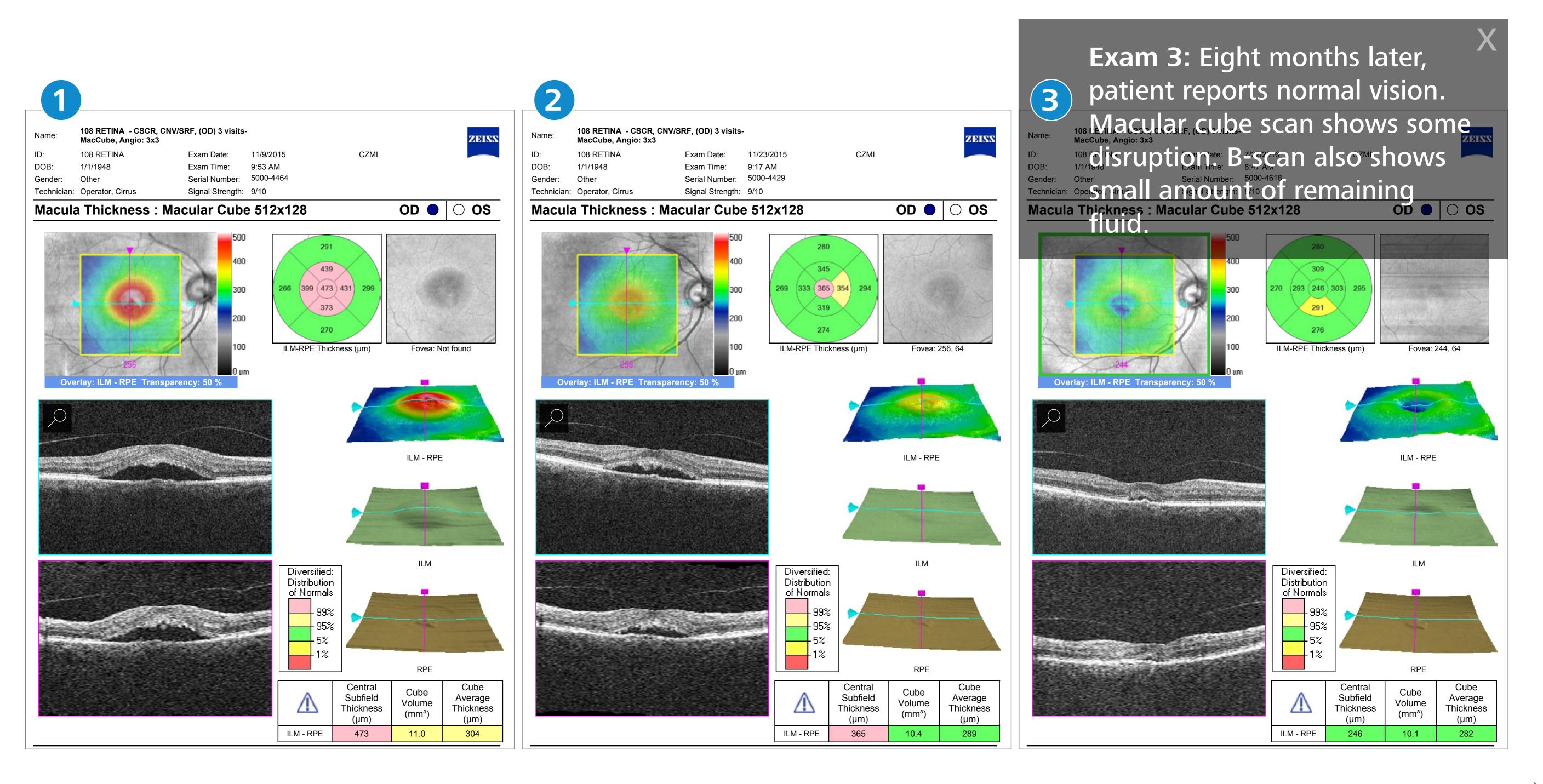
70-year-old male. Patient presented with complaints of decreased vision in the right eye.





#### **Patient History**

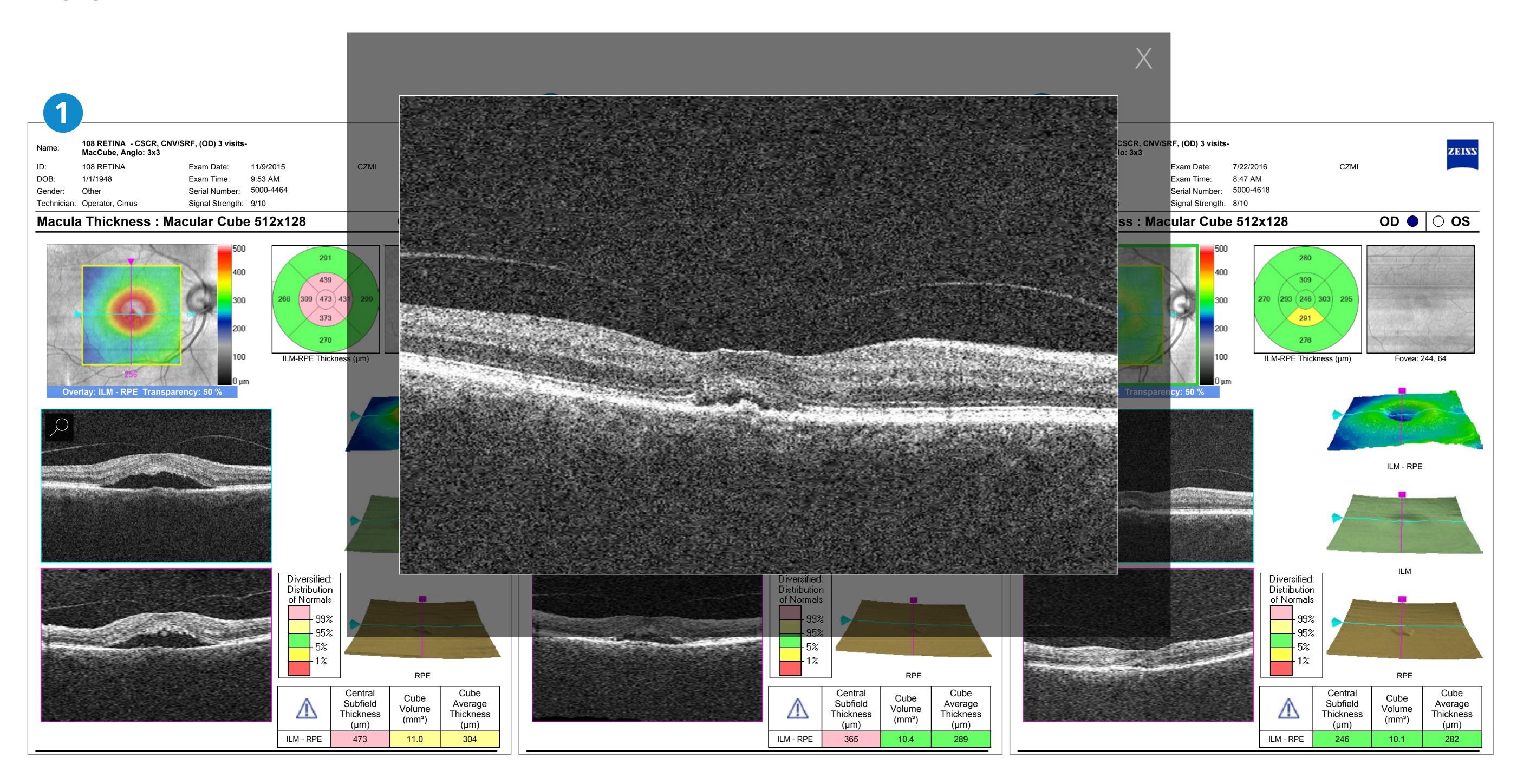
70-year-old male. Patient presented with complaints of decreased vision in the right eye.





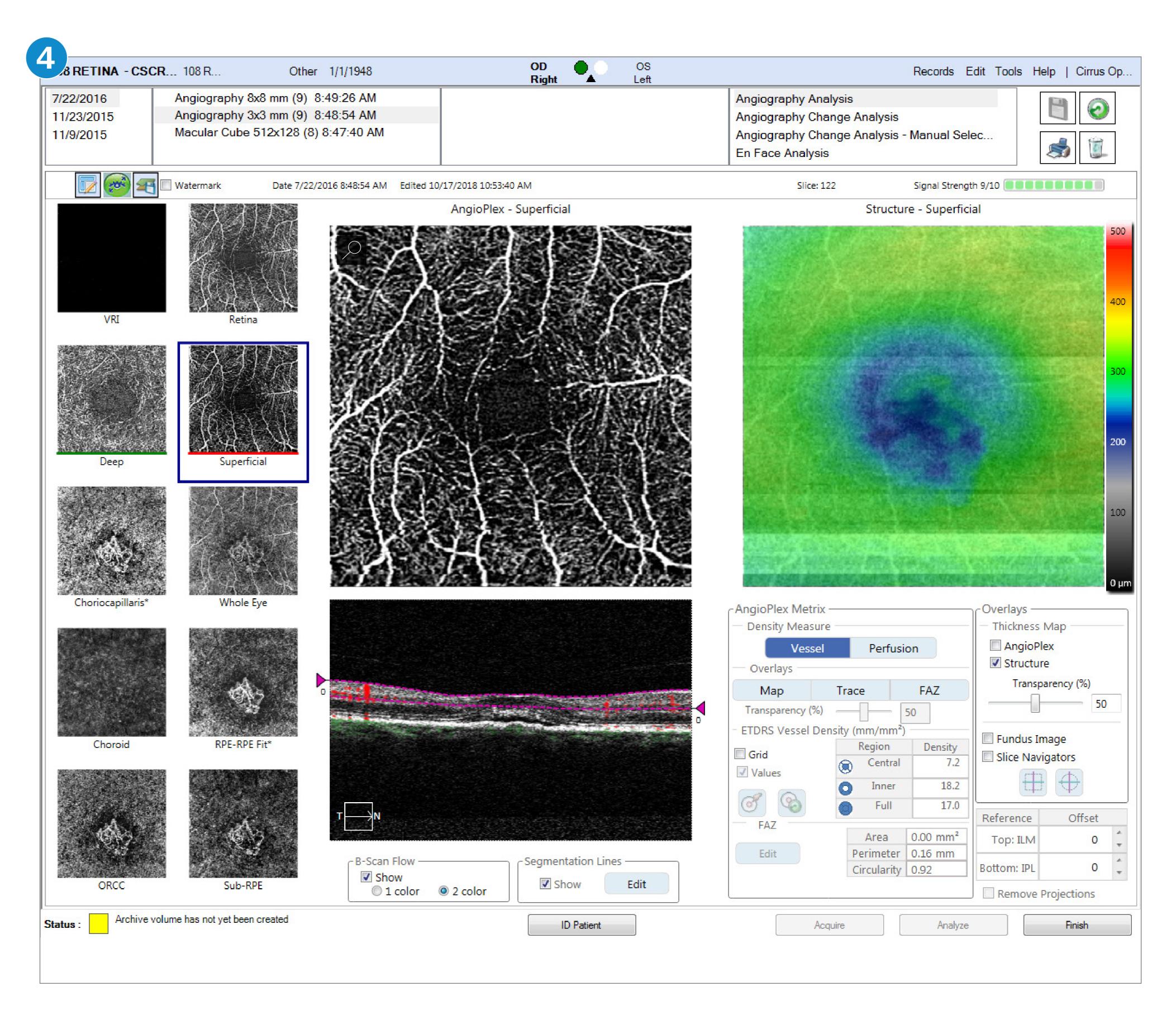
### **Patient History**

70-year-old male. Patient presented with complaints of decreased vision in the right eye.



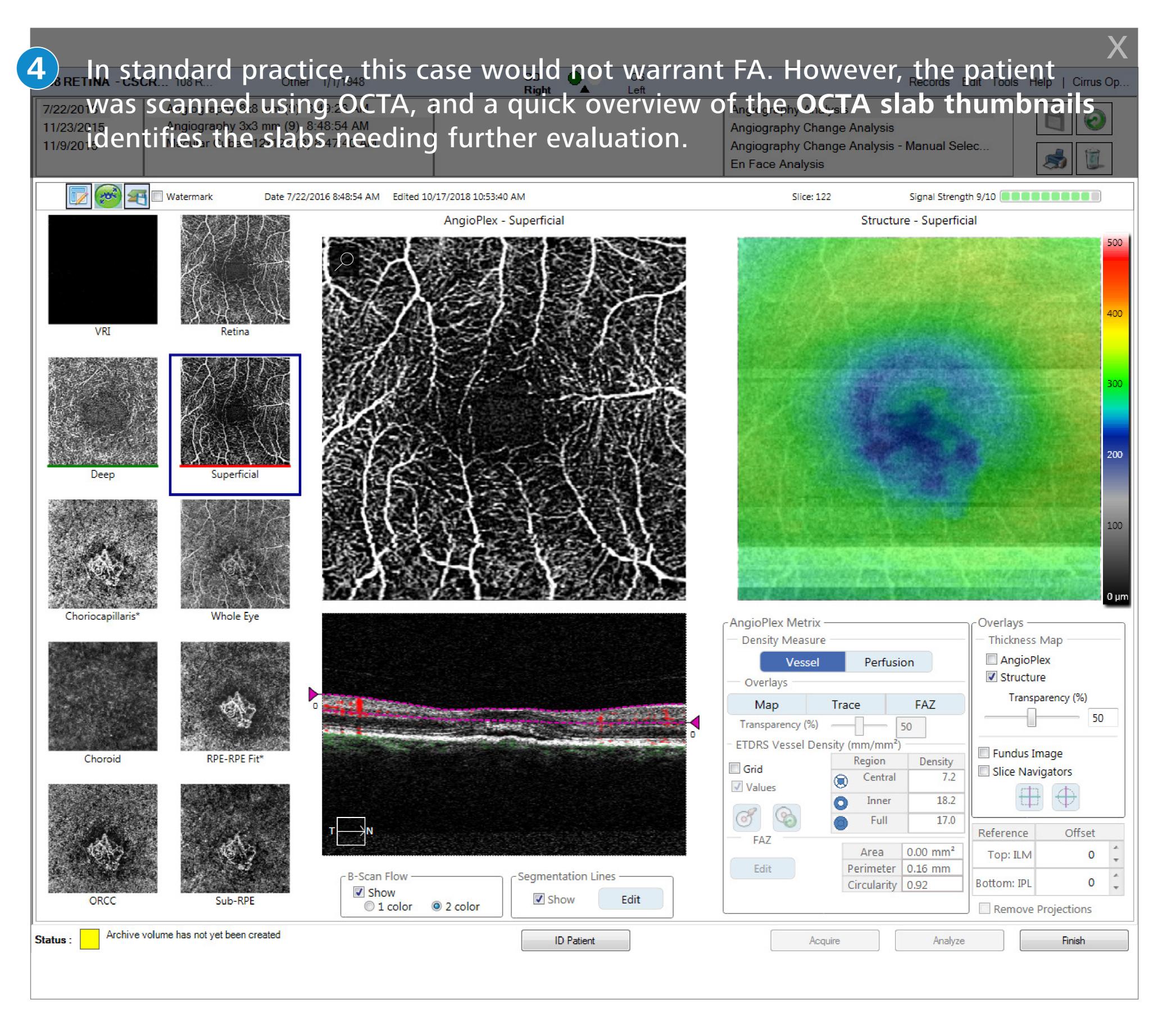


The patient was scanned using OCTA, and a quick overview of the OCTA slab thumbnails identifies the slabs needing further evaluation.



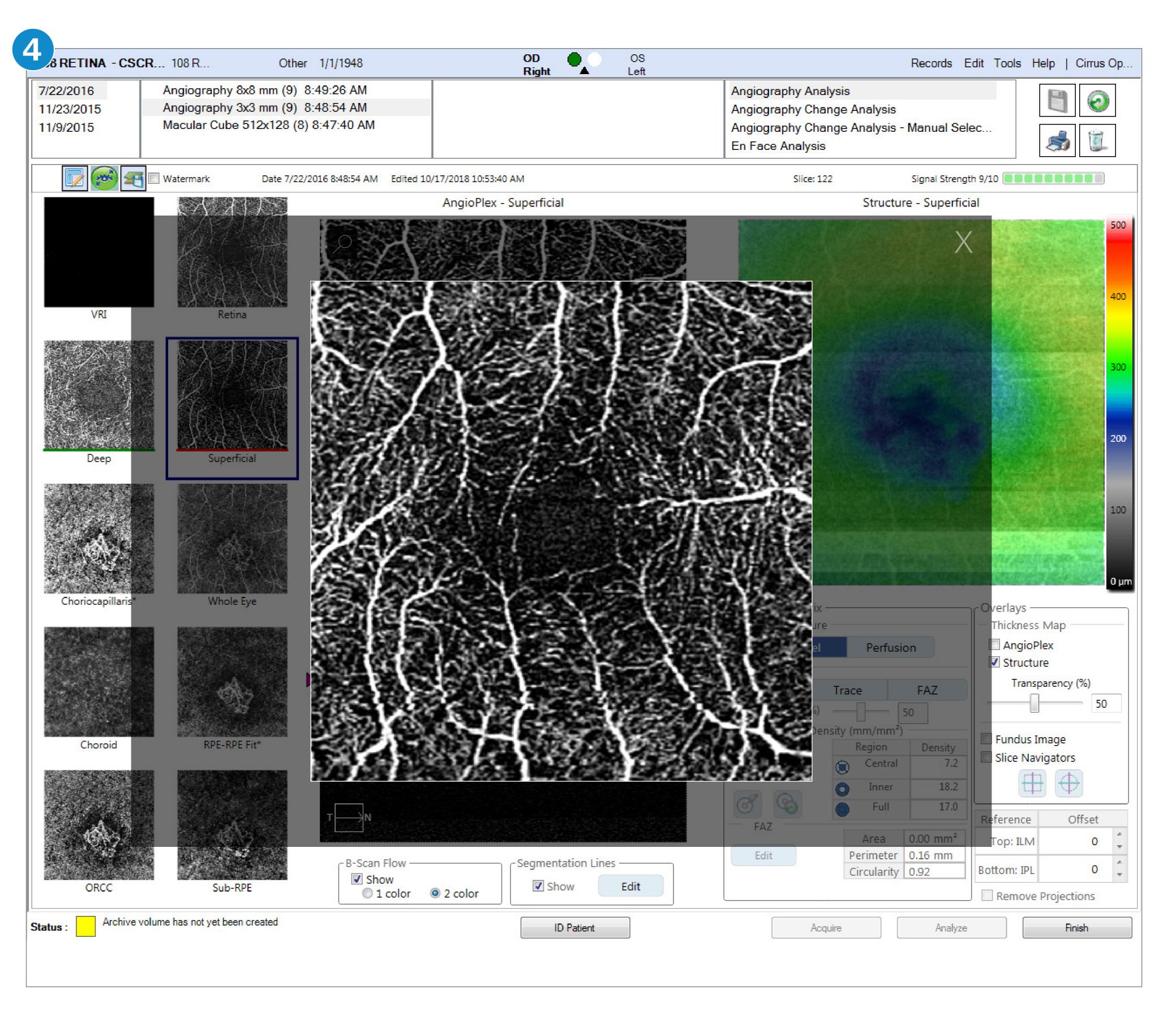


The patient was scanned using OCTA, and a quick overview of the OCTA slab thumbnails identifies the slabs needing further evaluation.



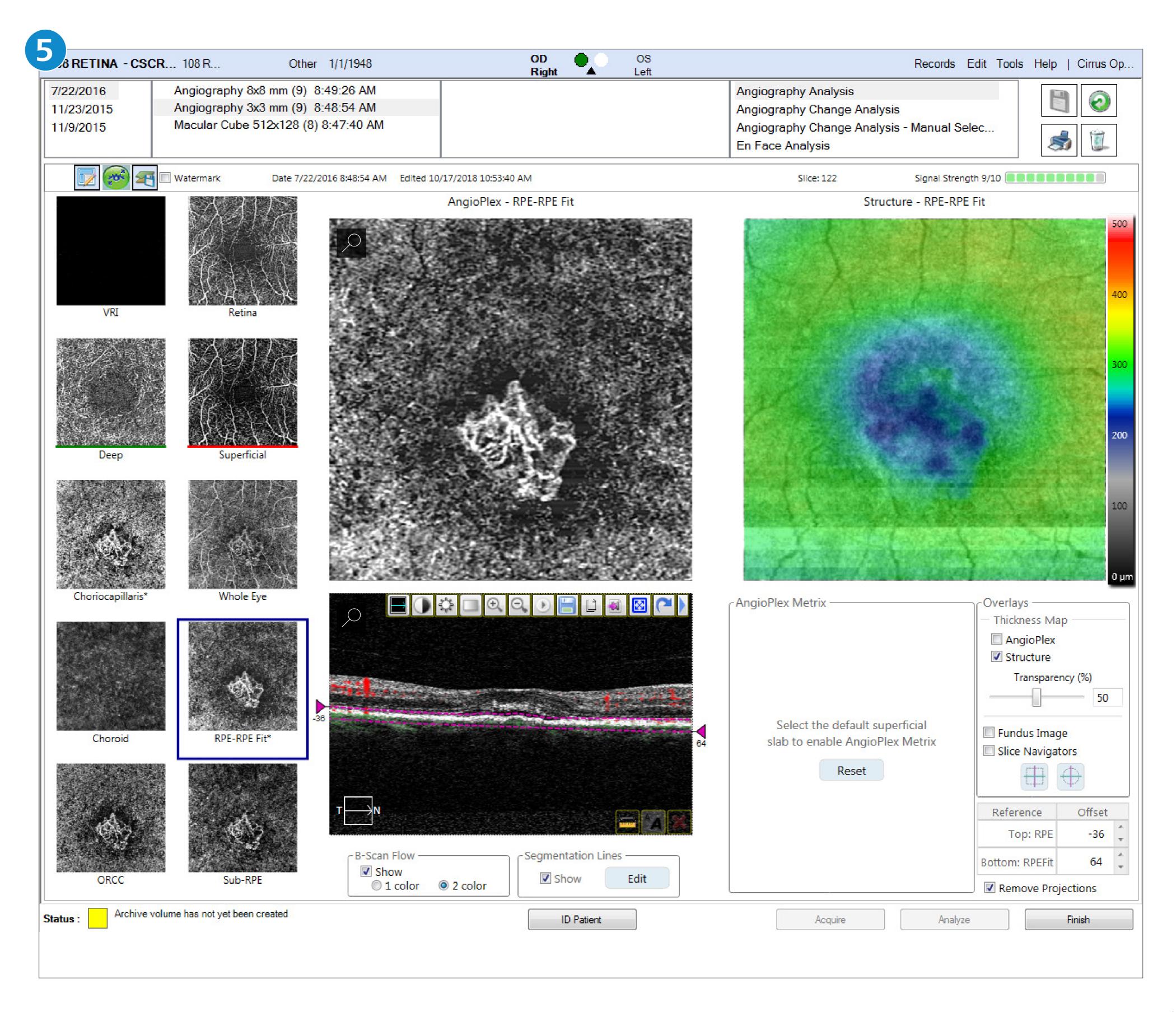


The patient was scanned using OCTA, and a quick overview of the OCTA slab thumbnails identifies the slabs needing further evaluation.



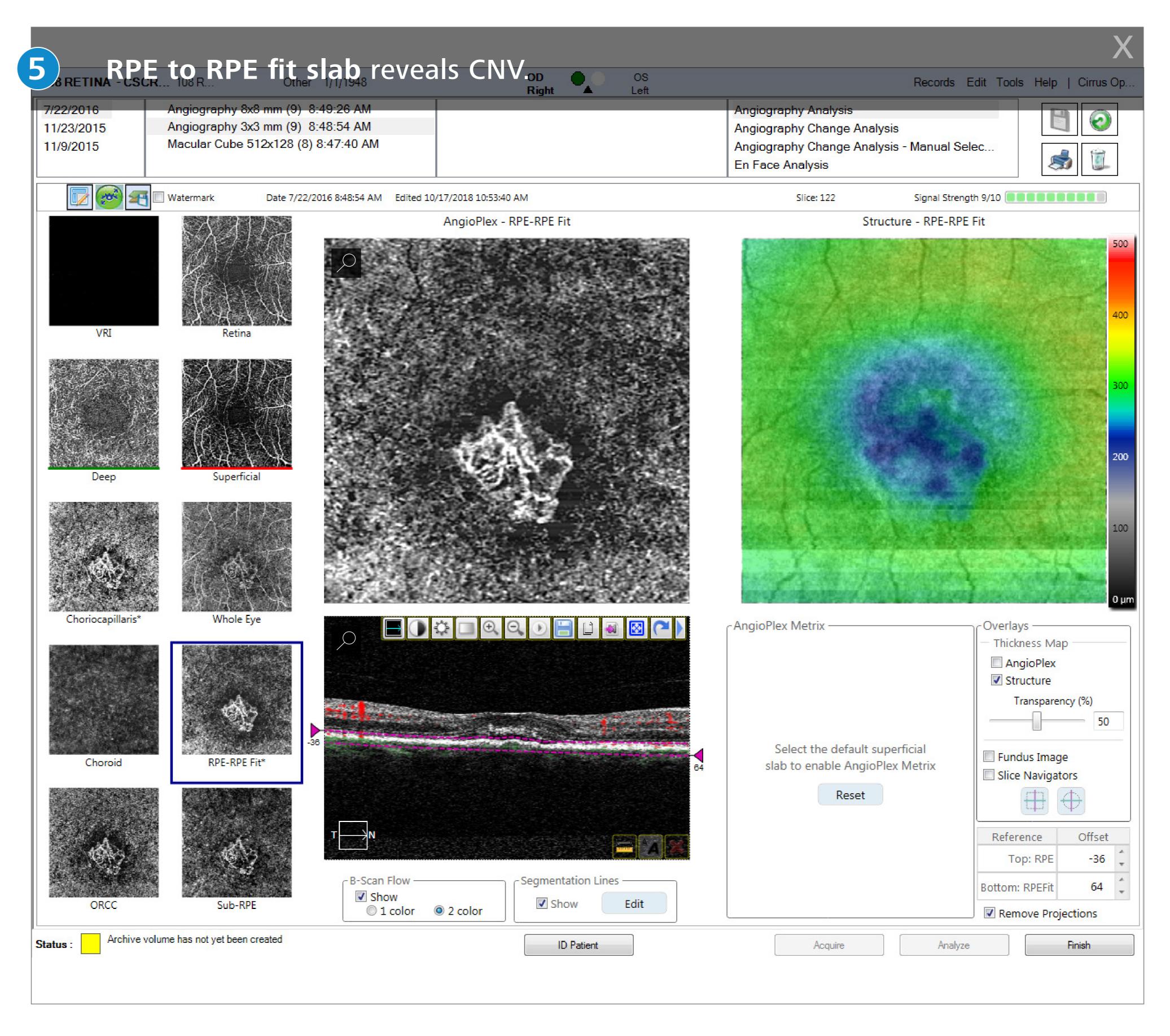


### Summary



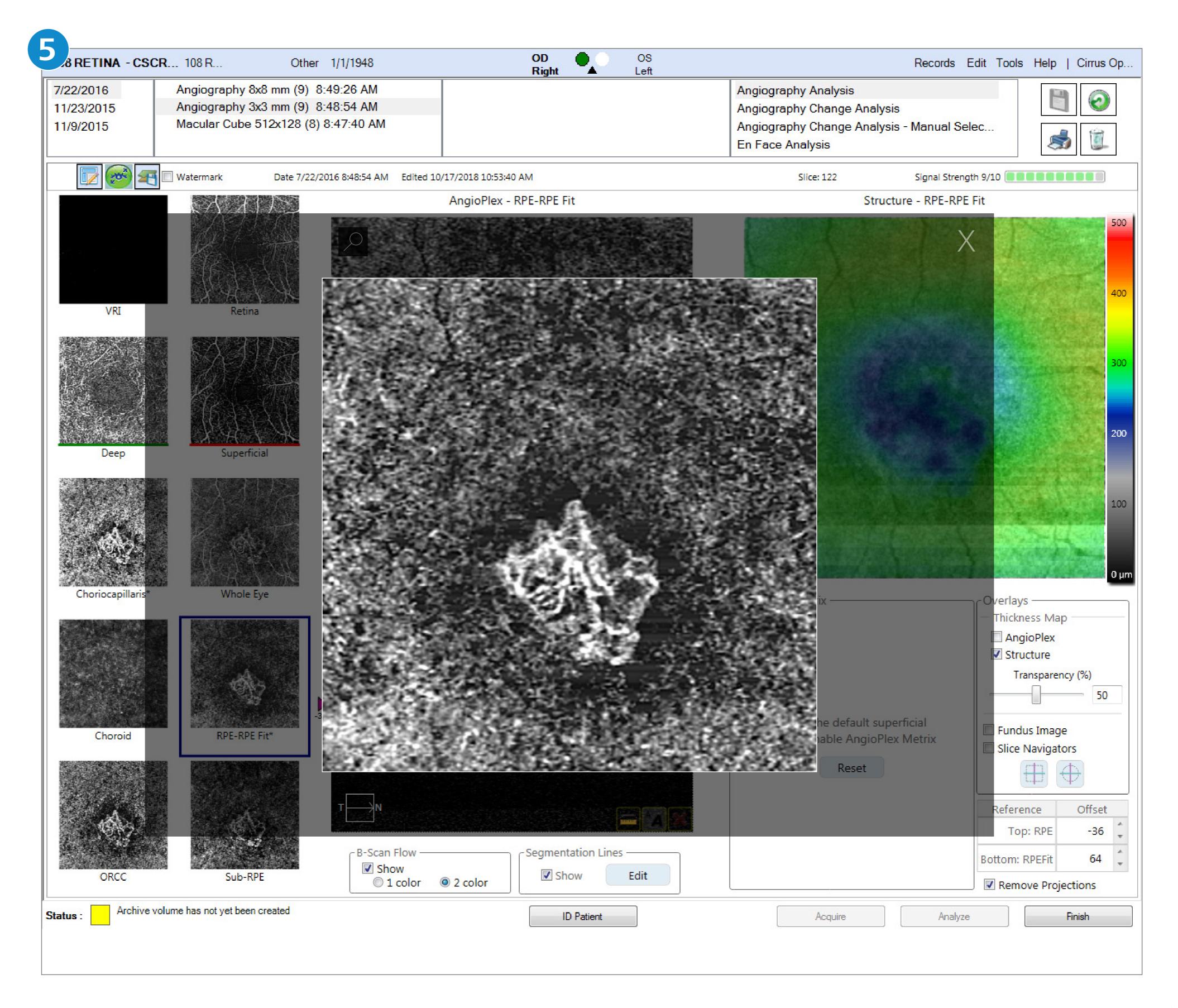


### Summary



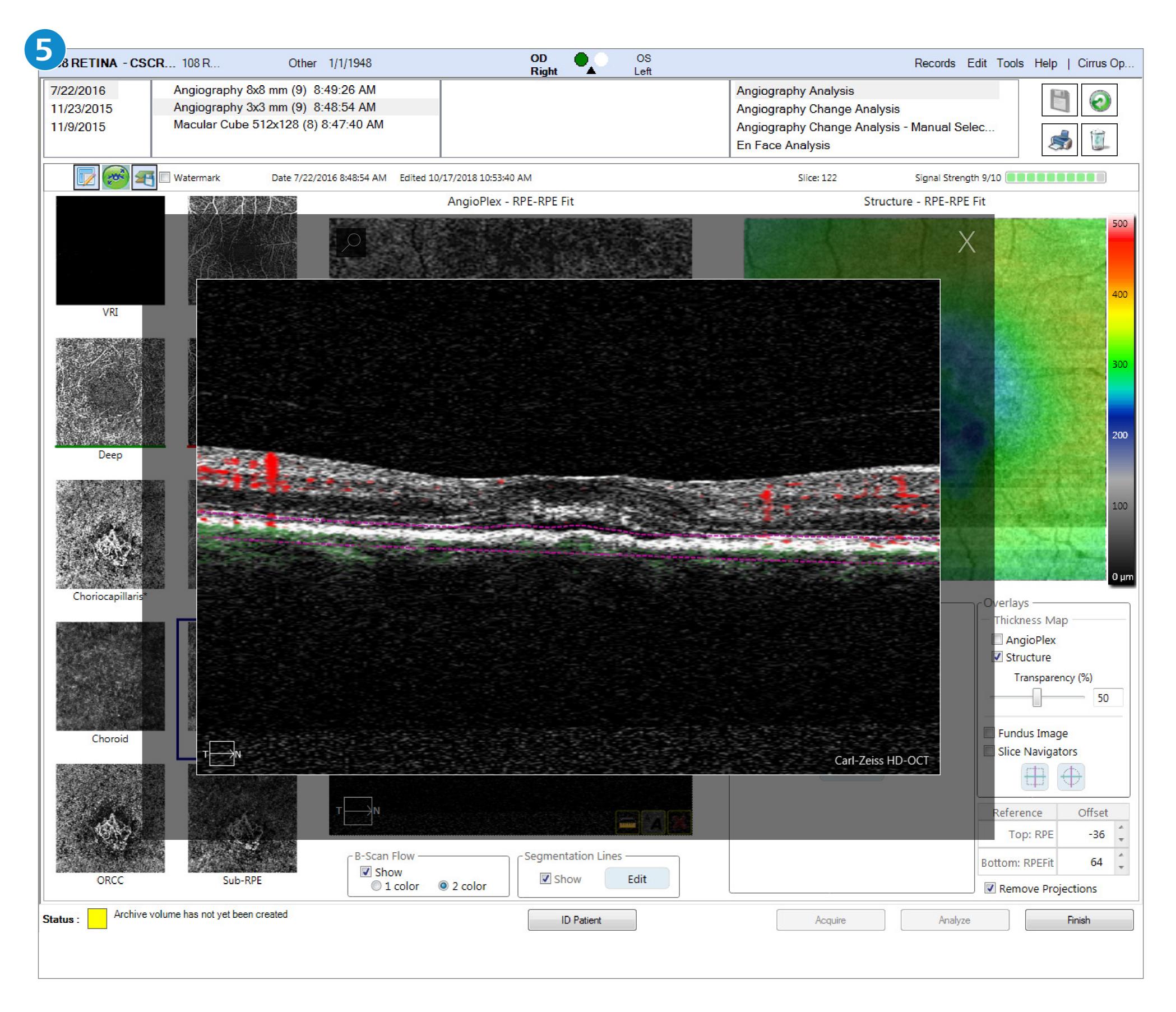


#### Summary





#### Summary

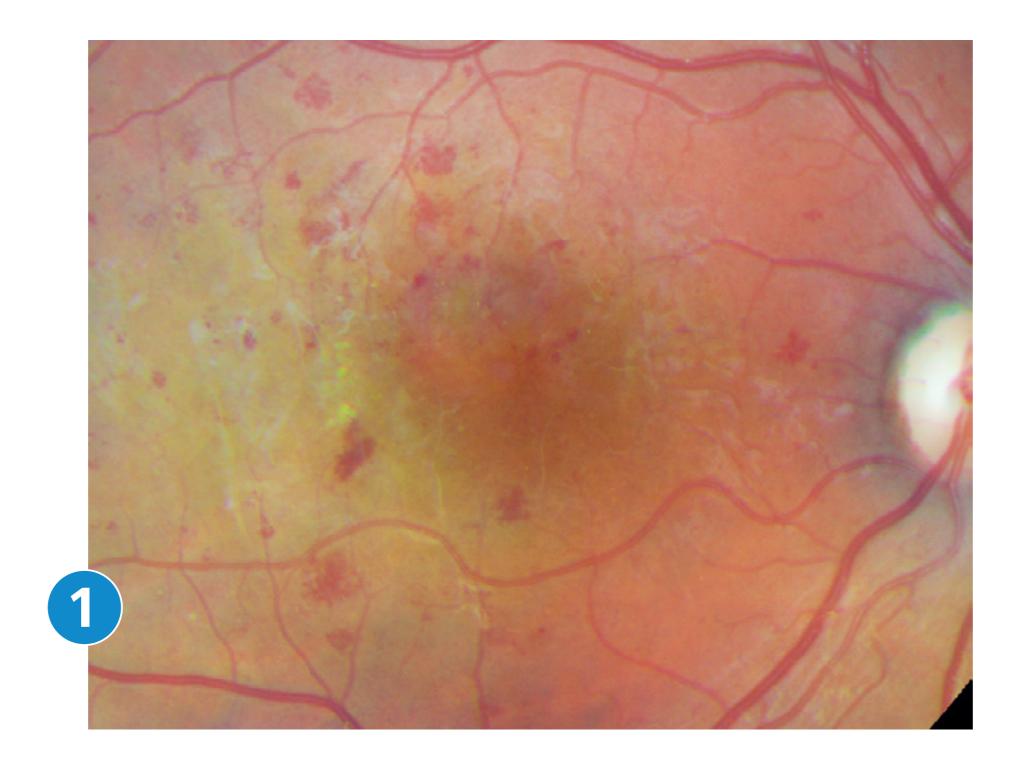


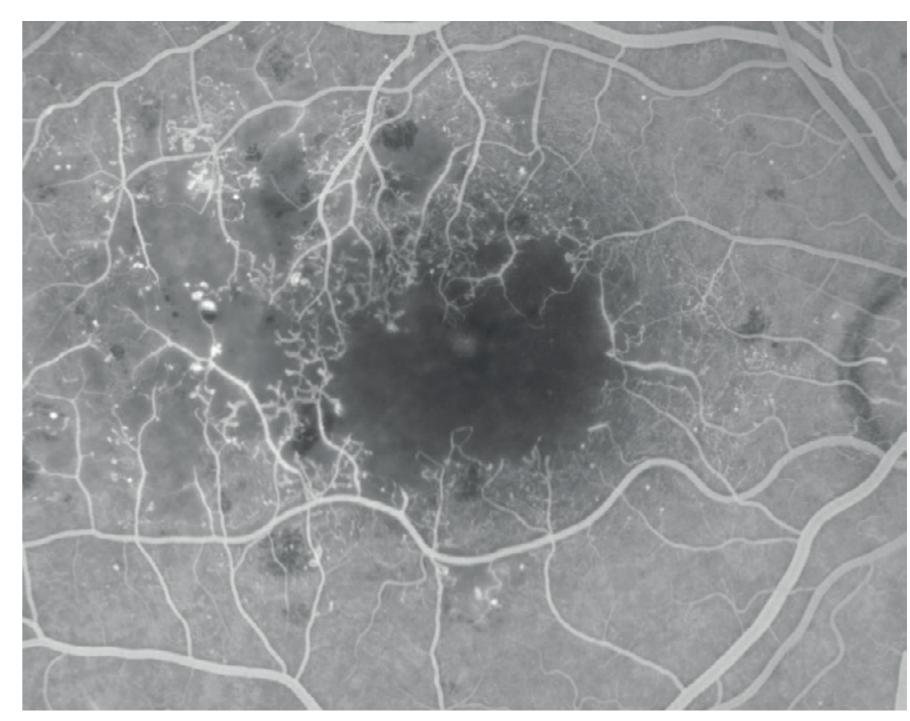


### **Patient History**

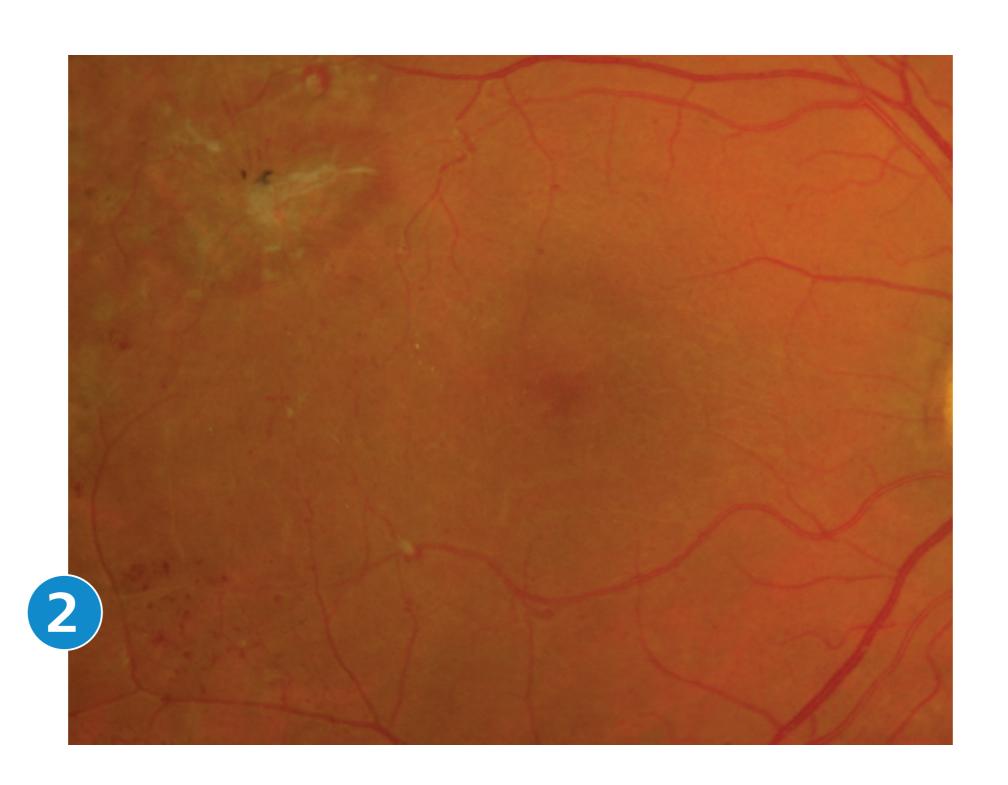
This patient was first imaged on a traditional fundus camera.

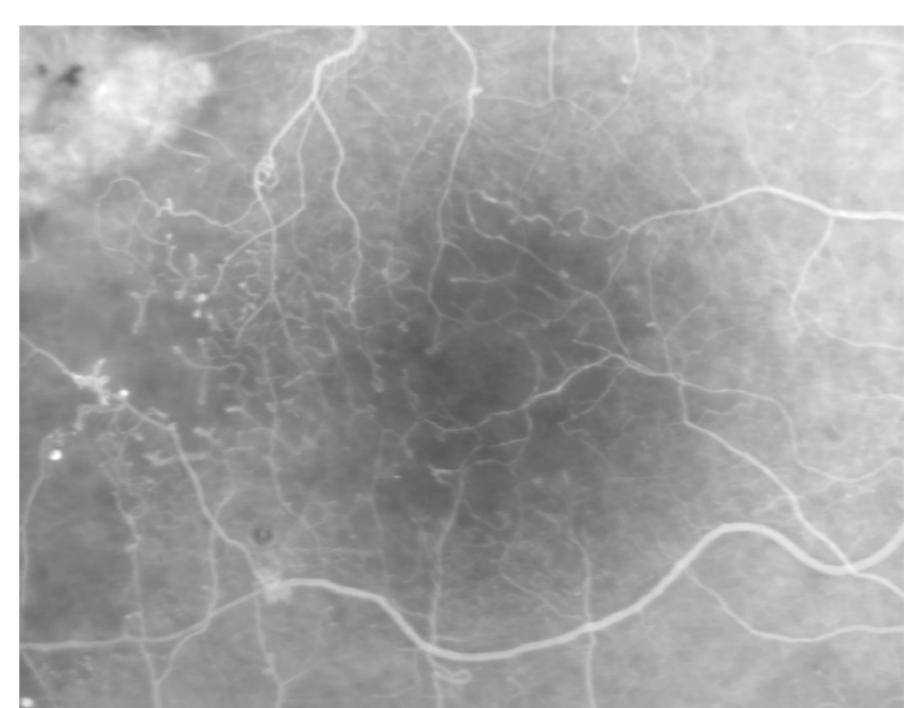
Color fundus images as well as fluorescein angiography images were taken prior to OCT Angiography.





More »



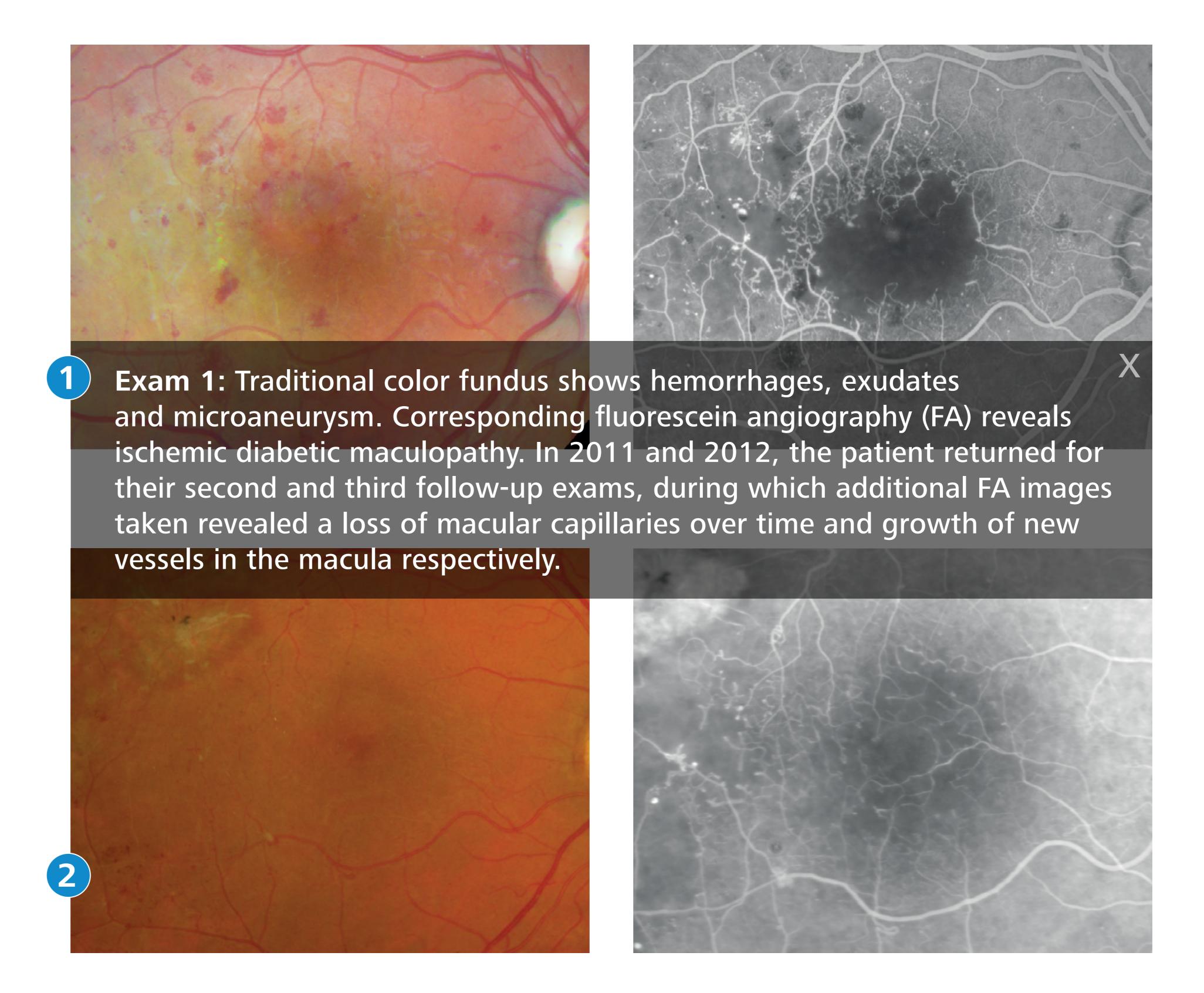




### **Patient History**

This patient was first imaged on a traditional fundus camera.

Color fundus images as well as fluorescein angiography images were taken prior to OCT Angiography.

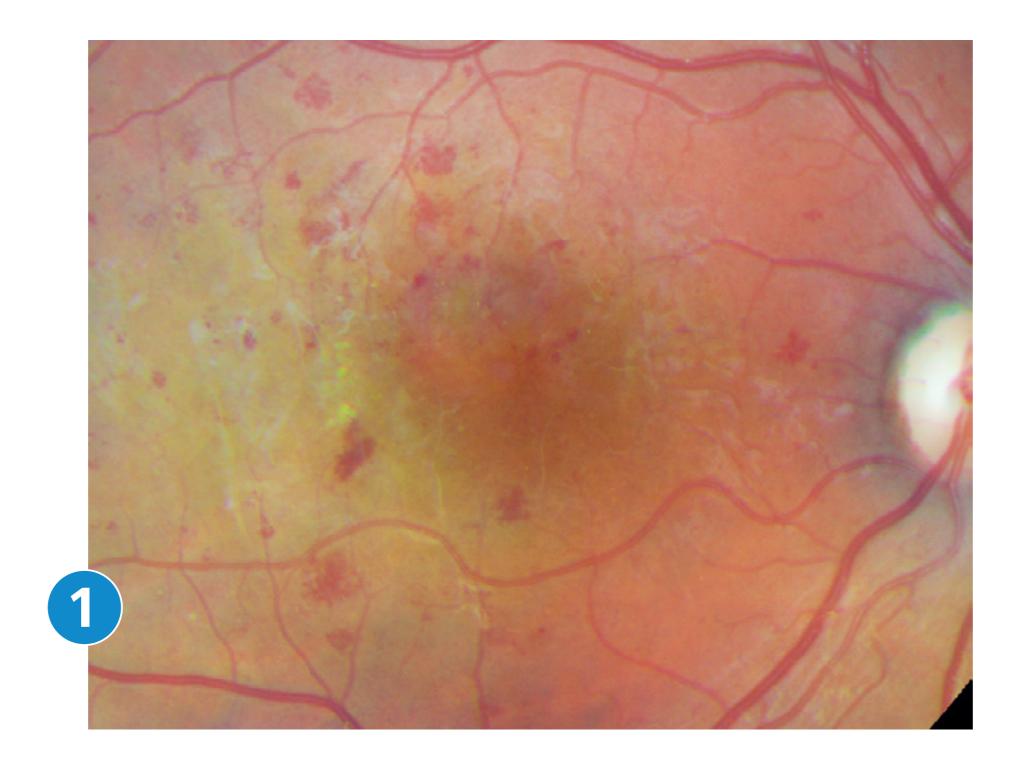


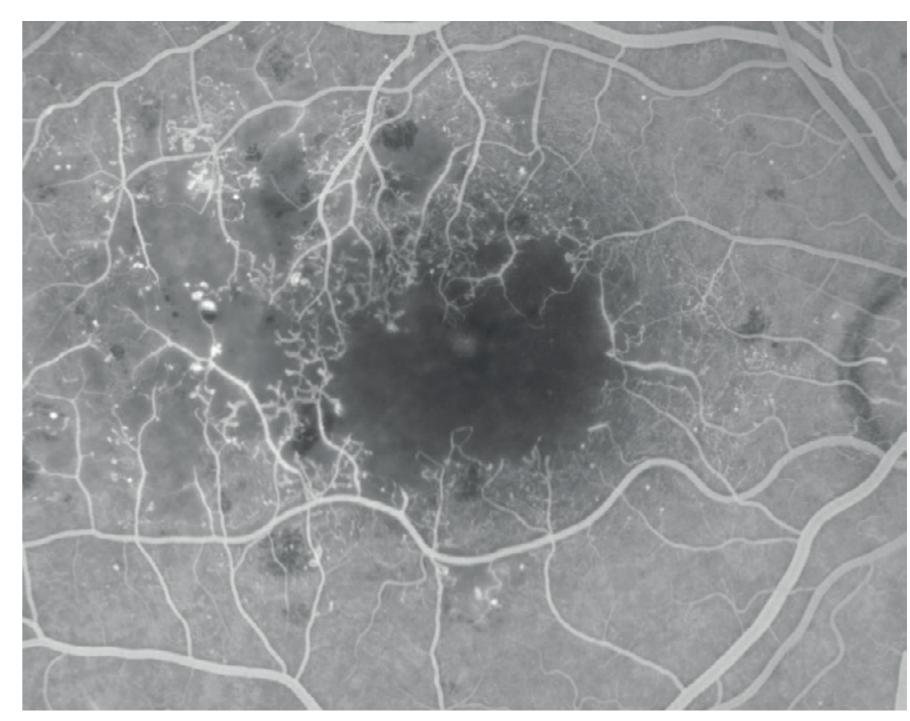


### **Patient History**

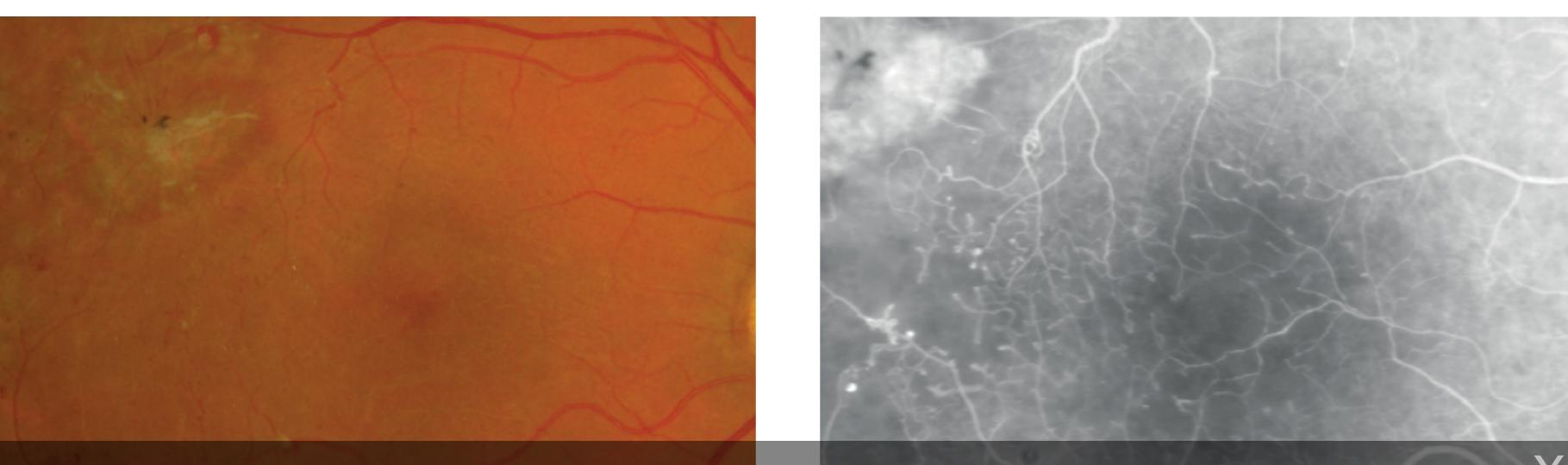
This patient was first imaged on a traditional fundus camera.

Color fundus images as well as fluorescein angiography images were taken prior to OCT Angiography.





More »

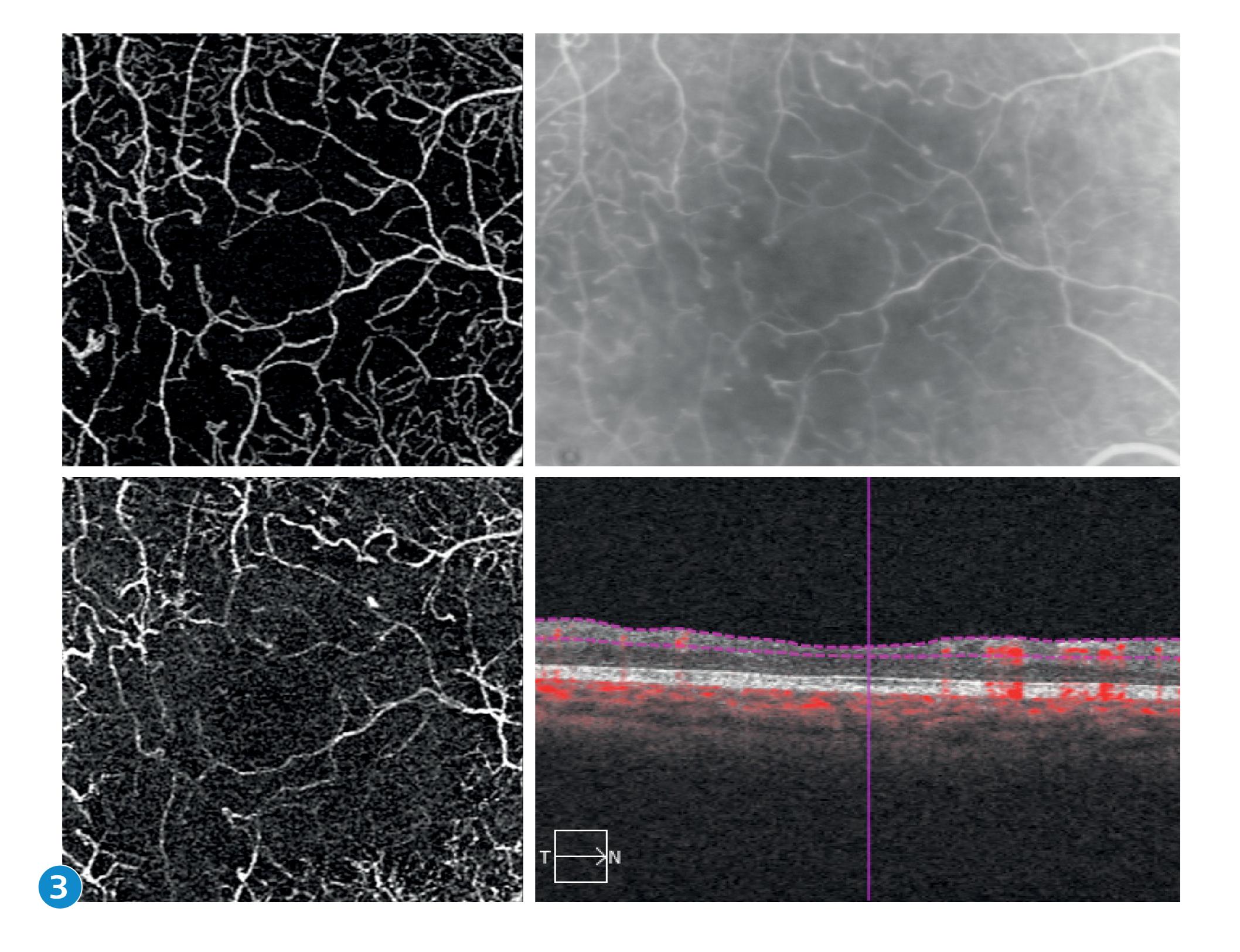


Exam 4 (2016): During the fourth exam, the limited FoV of the color fundus image suggests that the hemorrhages have improved. Whereas, the FA image shows reperfusion of the macula.



### Summary

In such cases, OCTA may be comparable to FA and preferred since OCTA is much quicker, non-invasive and more comfortable for the patient.

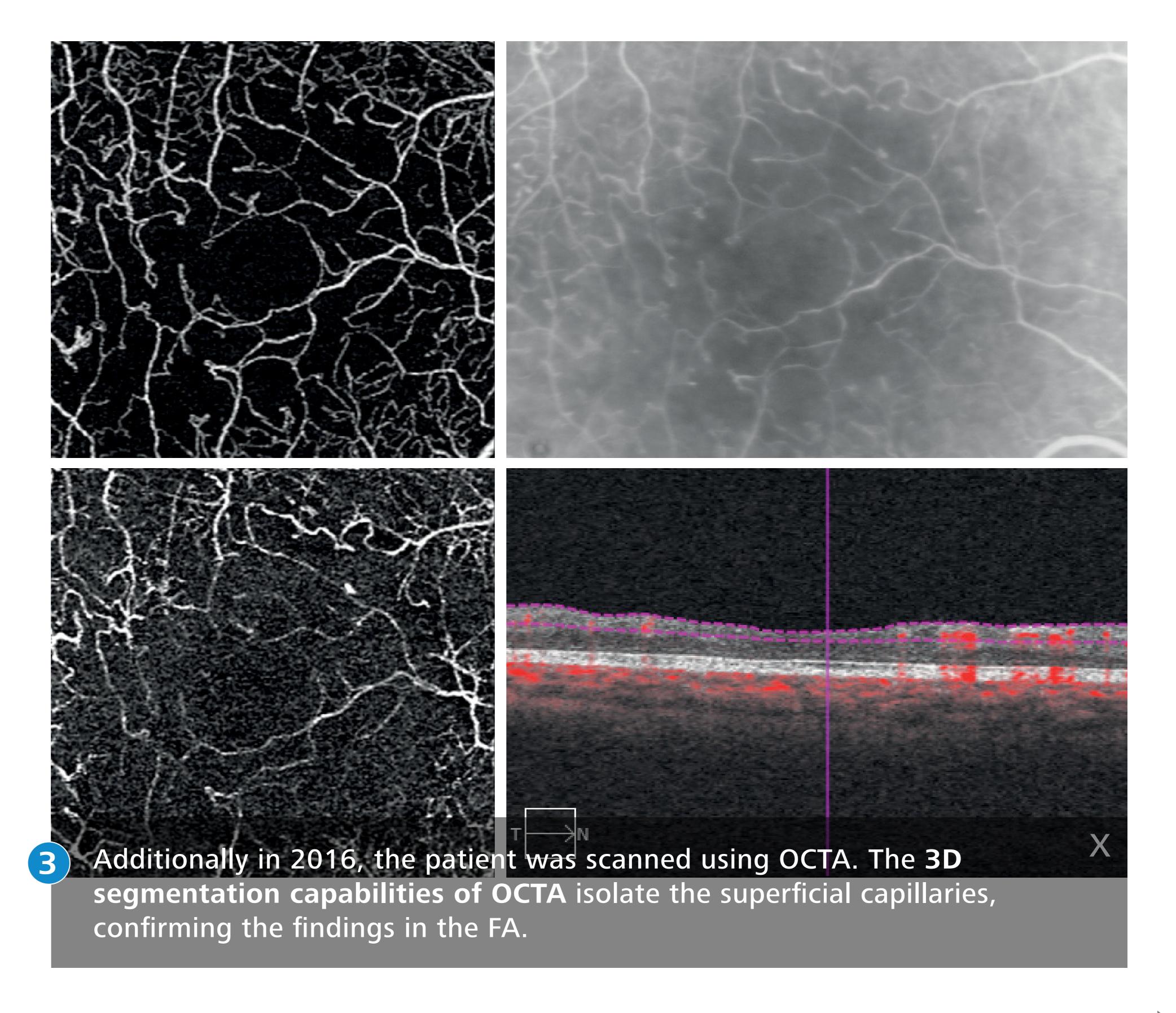




# Ischemic Diabetic Maculopathy

## Summary

In such cases, OCTA may be comparable to FA and preferred since OCTA is much quicker, non-invasive and more comfortable for the patient.



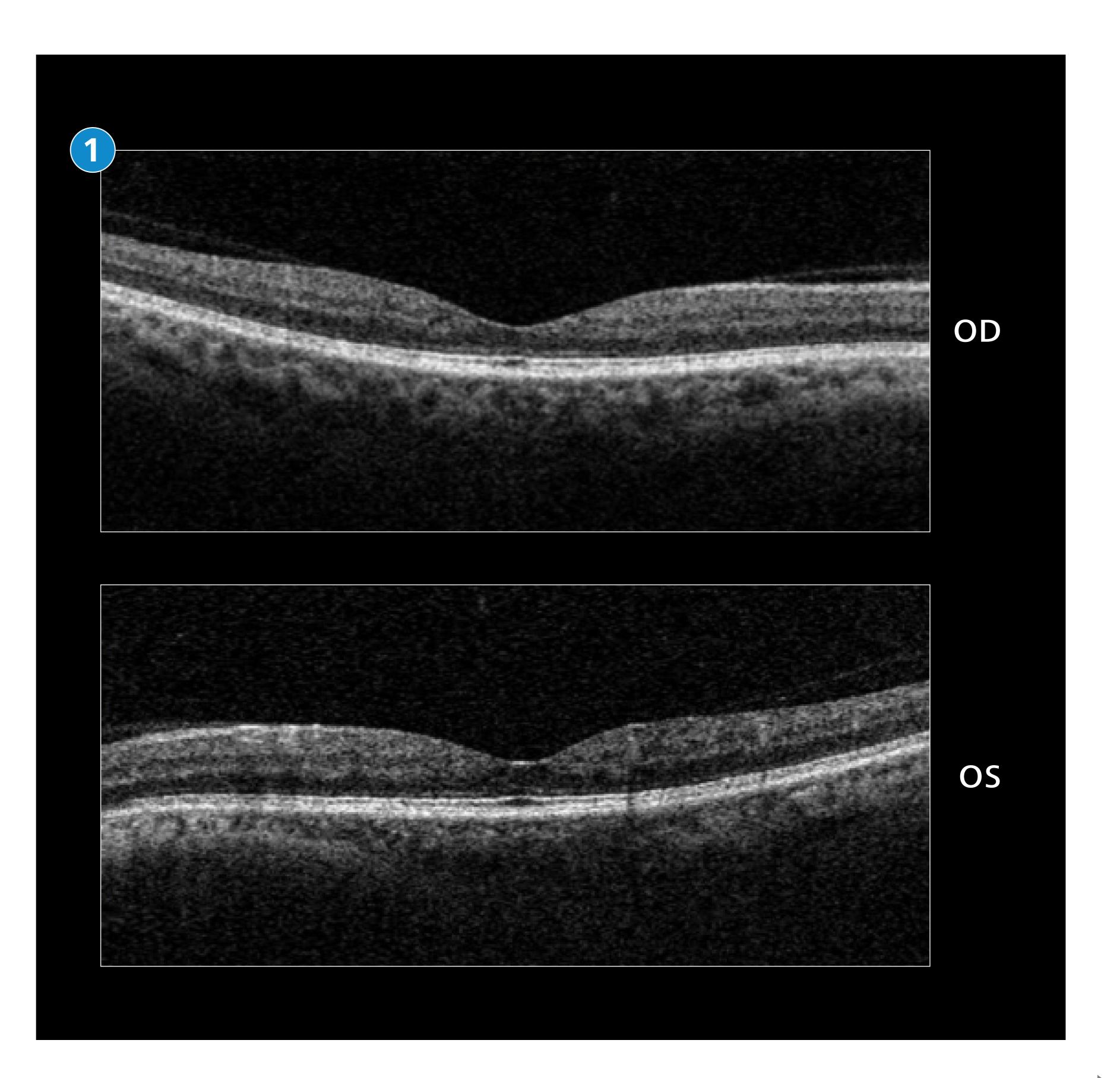


## Non-Proliferative Diabetic Retinopathy (NPDR)

## **Patient History**

57-year-old, diabetic male, presented with blurry vision, worse in the right eye.

Physical exam of the patient was unremarkable. There was no refractive error change; best-corrected visual acuity was 20/30 and 20/25 in the right and left eye, respectively. There were no lens changes. Upon dilated fundus exam, mild NPDR was noted in both eyes, with no DME seen.



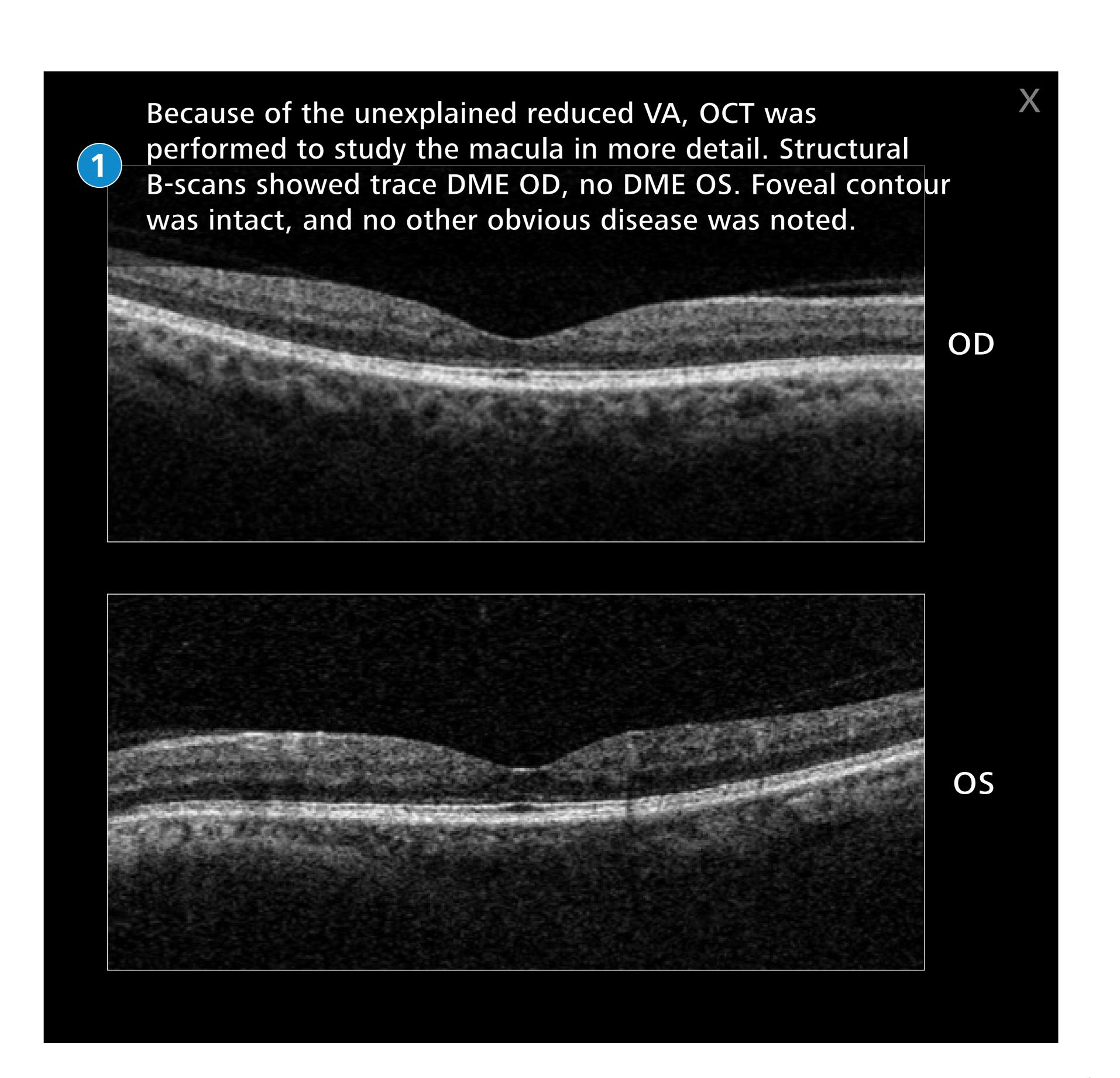


# Non-Proliferative Diabetic Retinopathy (NPDR)

## **Patient History**

57-year-old, diabetic male, presented with blurry vision, worse in the right eye.

Physical exam of the patient was unremarkable. There was no refractive error change; best-corrected visual acuity was 20/30 and 20/25 in the right and left eye, respectively. There were no lens changes. Upon dilated fundus exam, mild NPDR was noted in both eyes, with no DME seen.





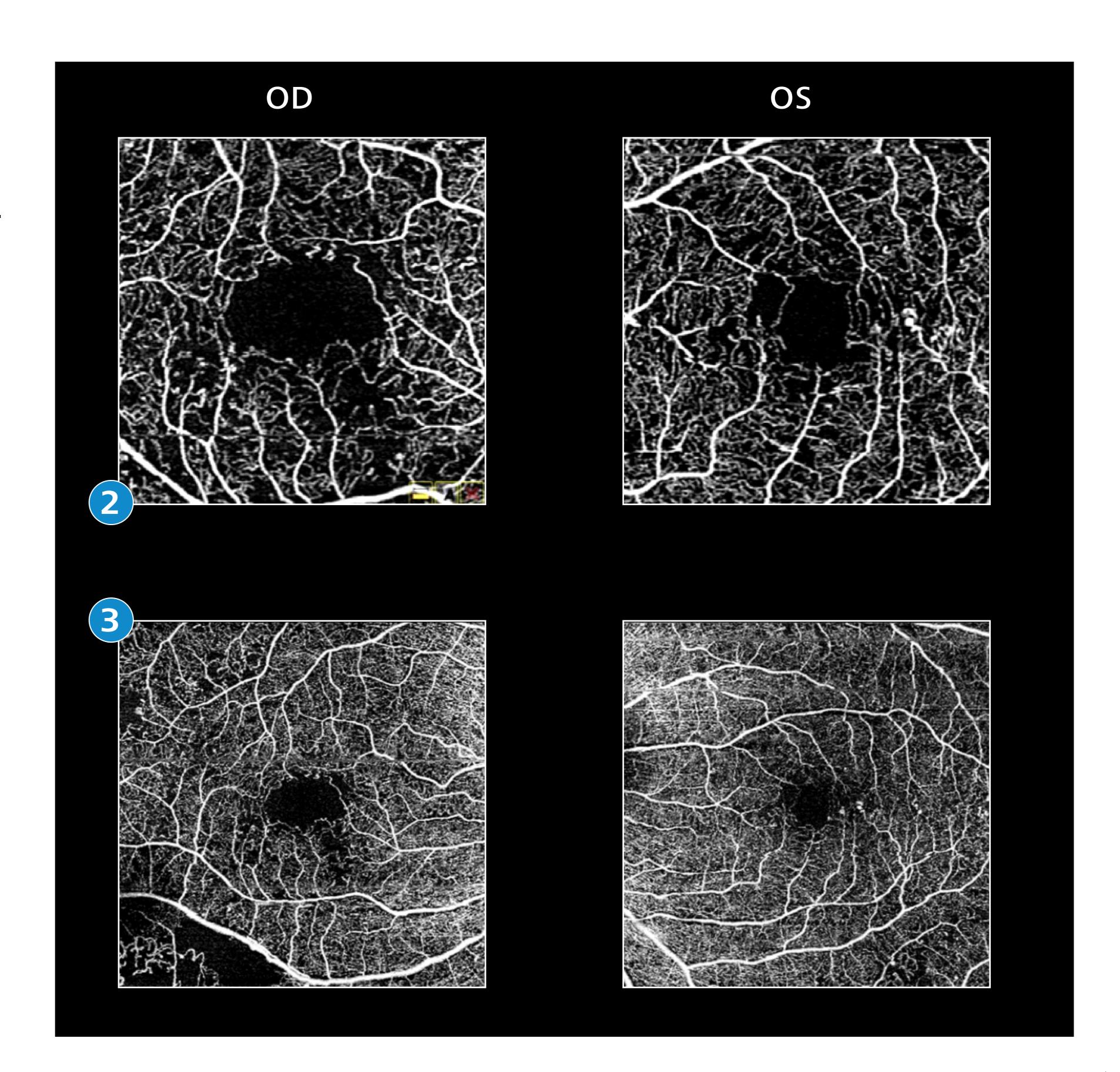
## **NPDR**

### Summary

OCTA imaging revealed macular ischemia in both eyes, which explained the reduced visual acuity.

OCTA is quick and non-invasive, providing valuable insight into the health status of the eye and allowing clinicians to evaluate the retinal vasculature when fluorescein angiography may not be indicated. This is especially helpful for diabetic patients, since some studies show that capillary dropout on OCTA may precede visible retinopathy.

In this case, the patient was educated on the need for good compliance with follow ups and treatment to prevent further vision loss.





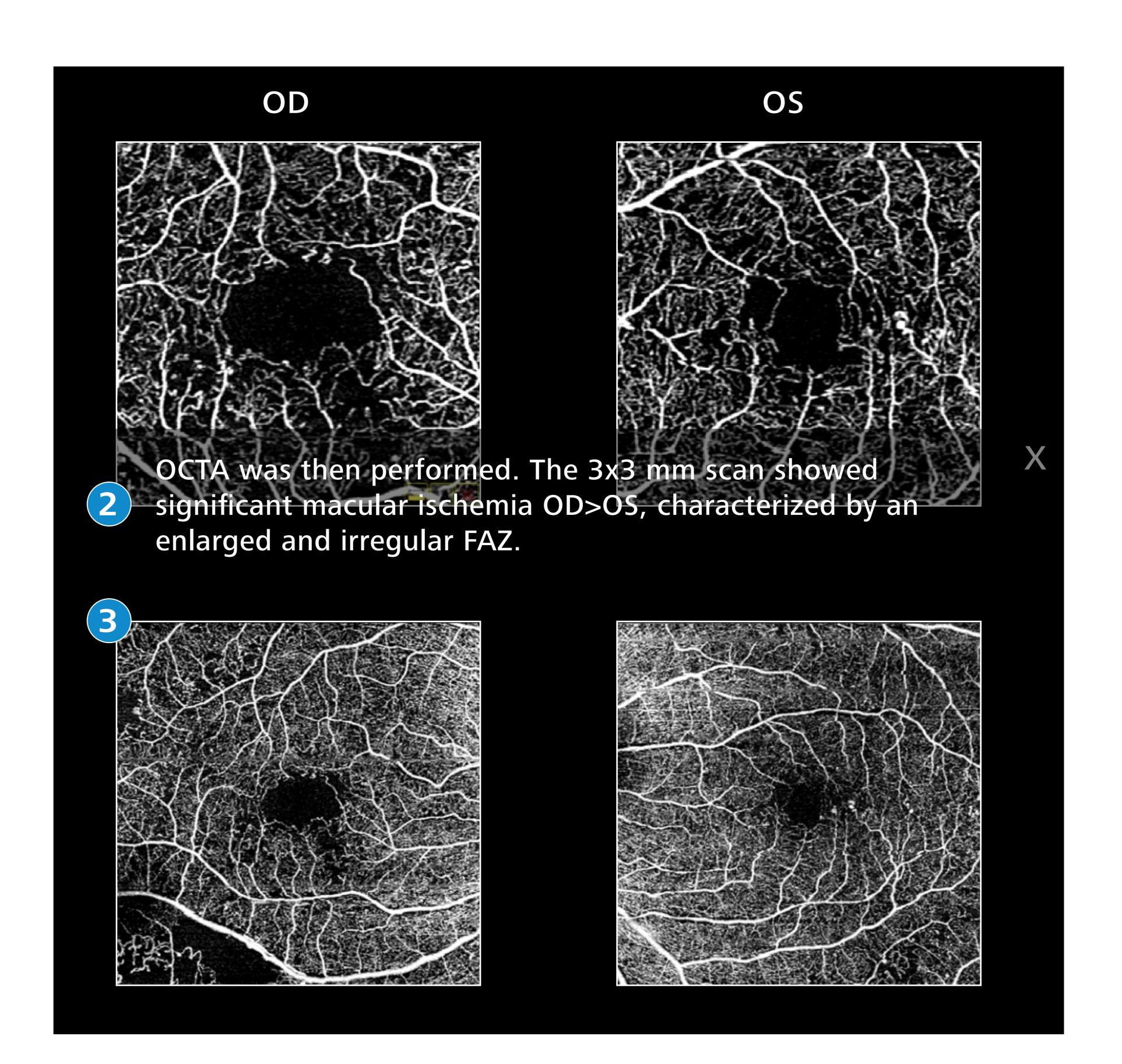
## **NPDR**

### Summary

OCTA imaging revealed macular ischemia in both eyes, which explained the reduced visual acuity.

OCTA is quick and non-invasive, providing valuable insight into the health status of the eye and allowing clinicians to evaluate the retinal vasculature when fluorescein angiography may not be indicated. This is especially helpful for diabetic patients, since some studies show that capillary dropout on OCTA may precede visible retinopathy.

In this case, the patient was educated on the need for good compliance with follow ups and treatment to prevent further vision loss.





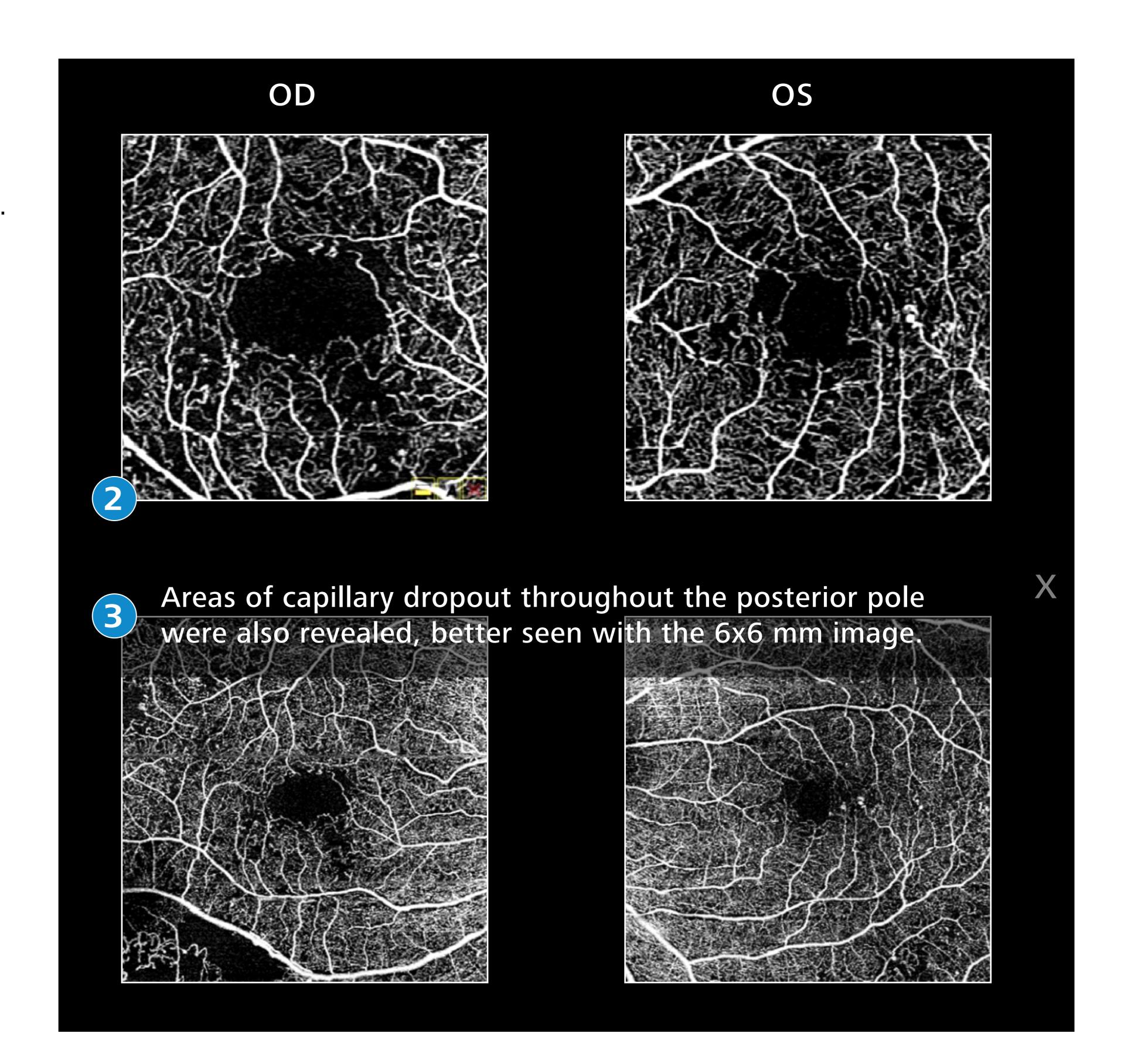
## **NPDR**

### Summary

OCTA imaging revealed macular ischemia in both eyes, which explained the reduced visual acuity.

OCTA is quick and non-invasive, providing valuable insight into the health status of the eye and allowing clinicians to evaluate the retinal vasculature when fluorescein angiography may not be indicated. This is especially helpful for diabetic patients, since some studies show that capillary dropout on OCTA may precede visible retinopathy.

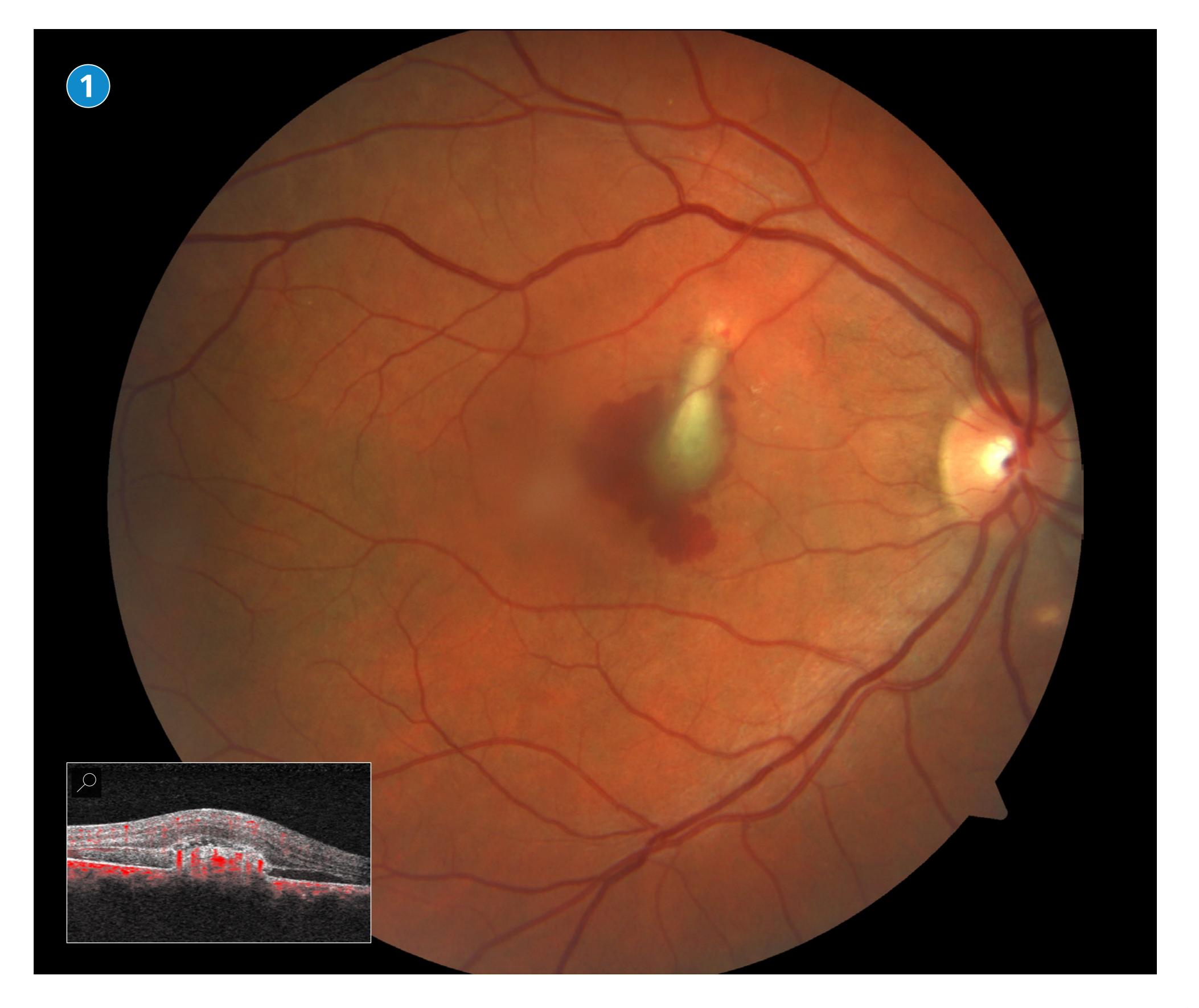
In this case, the patient was educated on the need for good compliance with follow ups and treatment to prevent further vision loss.





## **Patient History**

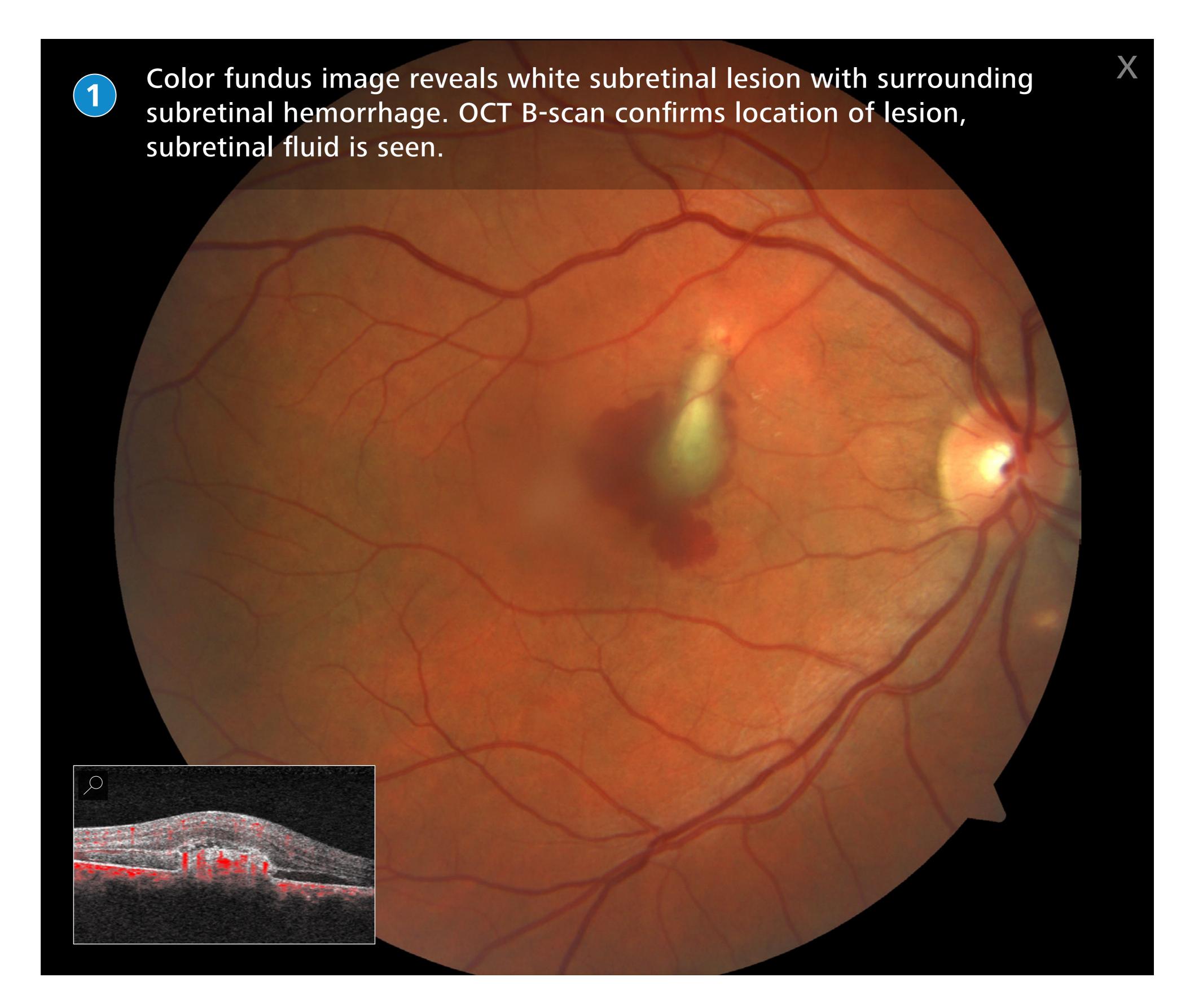
A 52-year-old white male was referred to the clinic for retinal evaluation. The patient complained of sudden onset of decreased central vision in the right eye for the past 2 days.





## **Patient History**

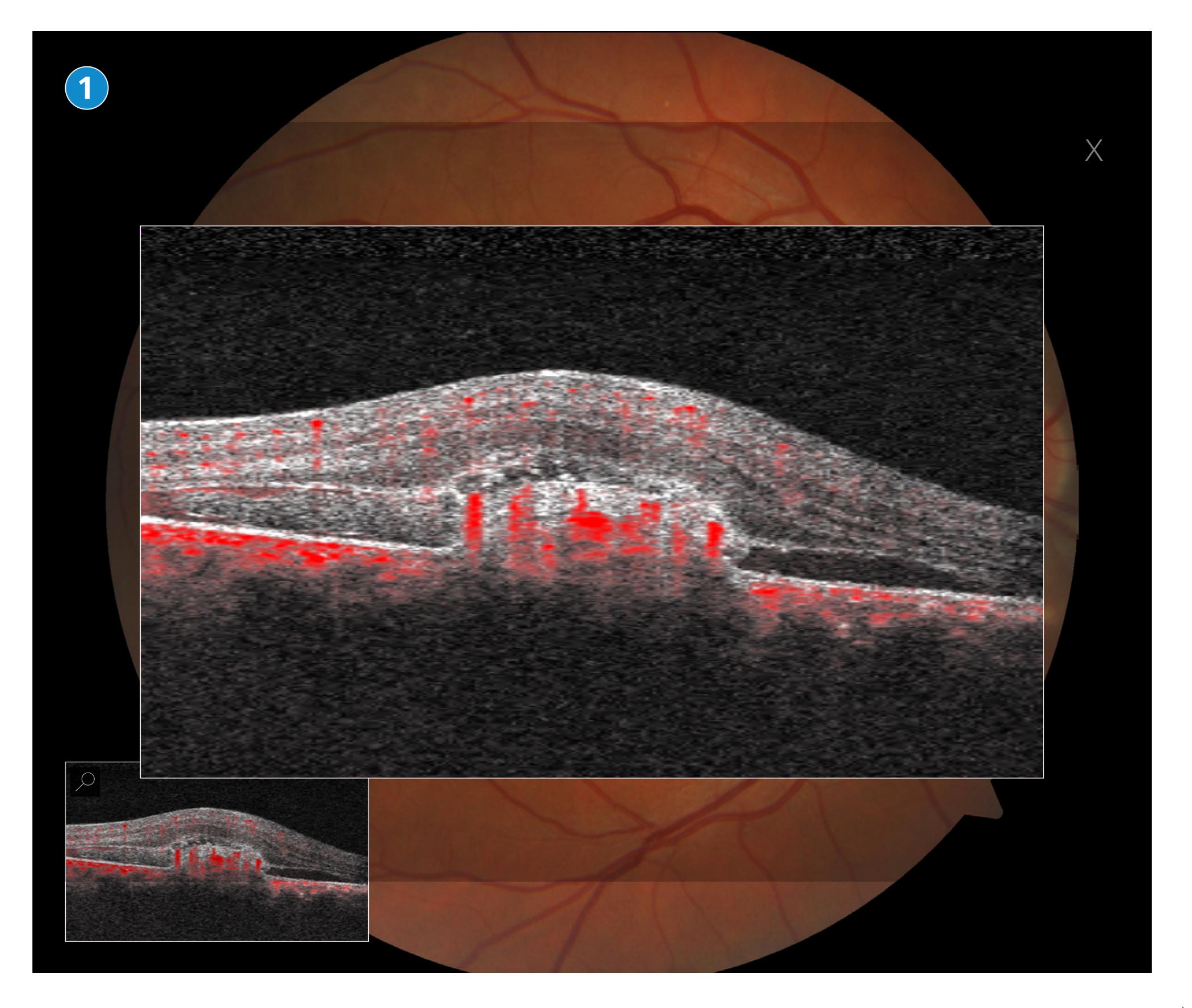
A 52-year-old white male was referred to the clinic for retinal evaluation. The patient complained of sudden onset of decreased central vision in the right eye for the past 2 days.





## **Patient History**

A 52-year-old white male was referred to the clinic for retinal evaluation. The patient complained of sudden onset of decreased central vision in the right eye for the past 2 days.

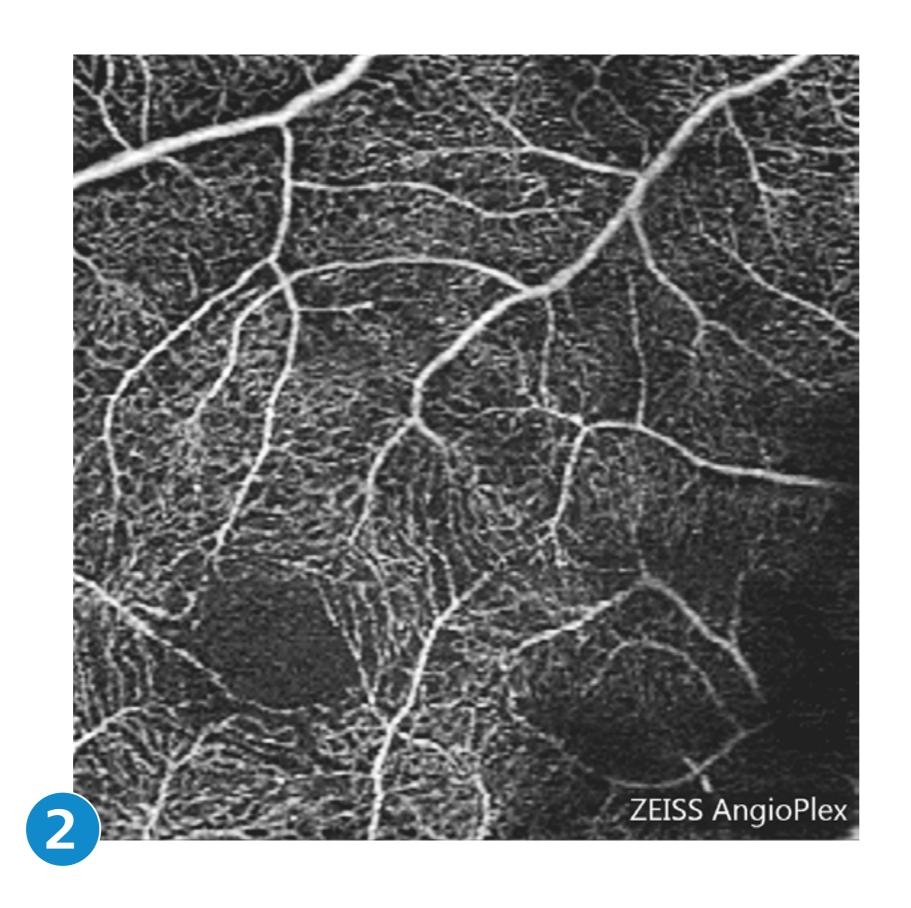


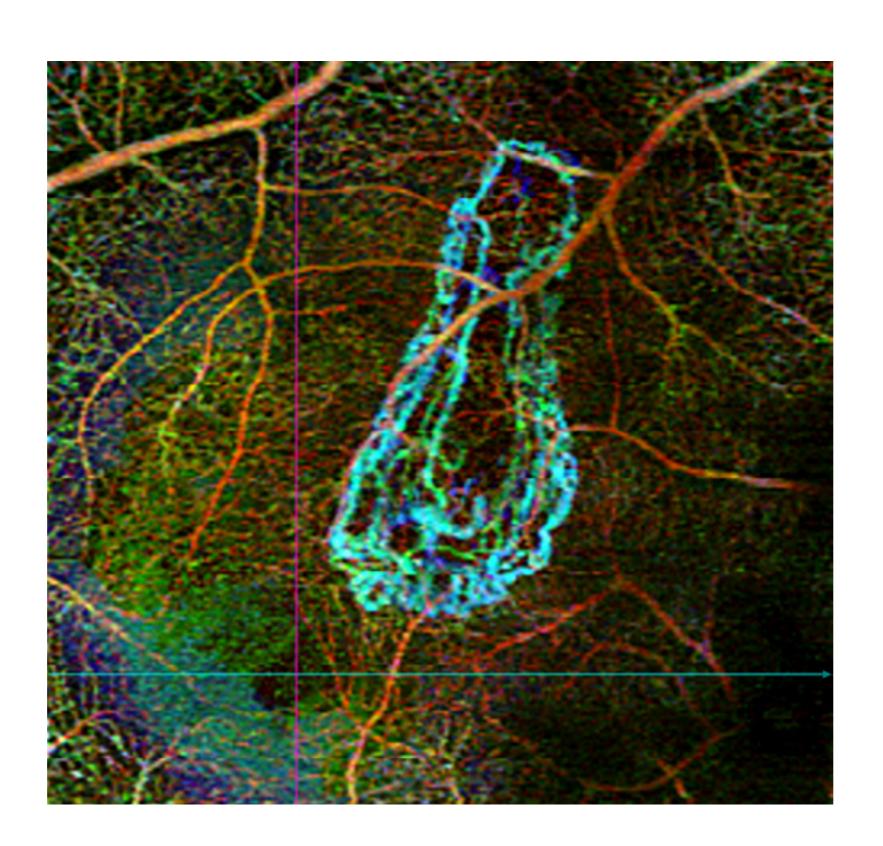


## Summary

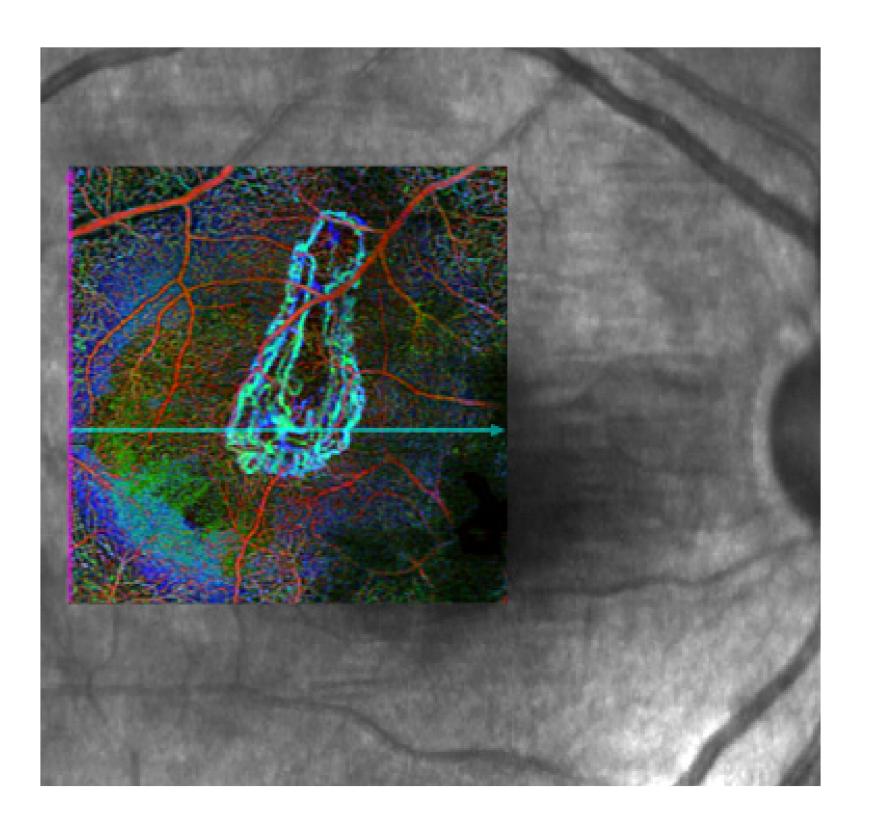
OCTA clearly reveals the CNV lesion in greater detail. In this case, FA may not be needed to make the diagnosis and plan treatment.

As the technology advances, OCTA may complement FA exams for certain diseases.









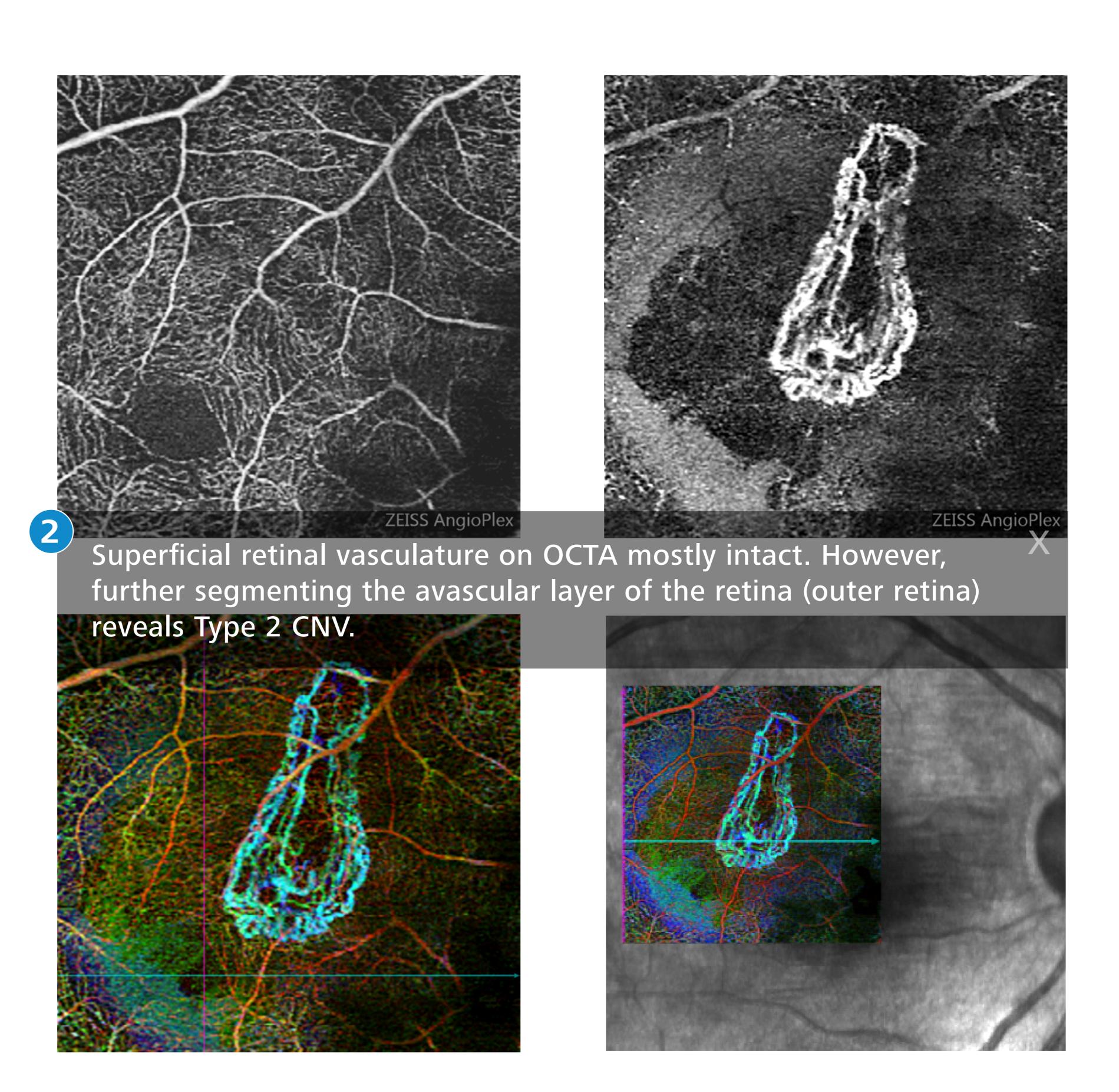




## Summary

OCTA clearly reveals the CNV lesion in greater detail. In this case, FA may not be needed to make the diagnosis and plan treatment.

As the technology advances, OCTA may complement FA exams for certain diseases.







#### Carl Zeiss Meditec, Inc.

5160 Hacienda Drive
Dublin, CA 94568
USA
www.zeiss.com/angioplex
www.zeiss.com/med



#### Carl Zeiss Meditec AG

Goeschwitzer Strasse. 51-52 07745 Jena GERMANY www.zeiss.com/angioplex www.zeiss.com/med/contacts **EN\_31\_200\_0144I** CZ-XII/2018 International Edition: Only for sales in selected countries. The contents of the brochure may differ from the current status of approval of the product or service offering in your country. Please contact our regional representatives for more information. Subject to change in design and scope of delivery and as a result of ongoing technical development.

© Carl Zeiss Meditec, Inc., 2018. All rights reserved.