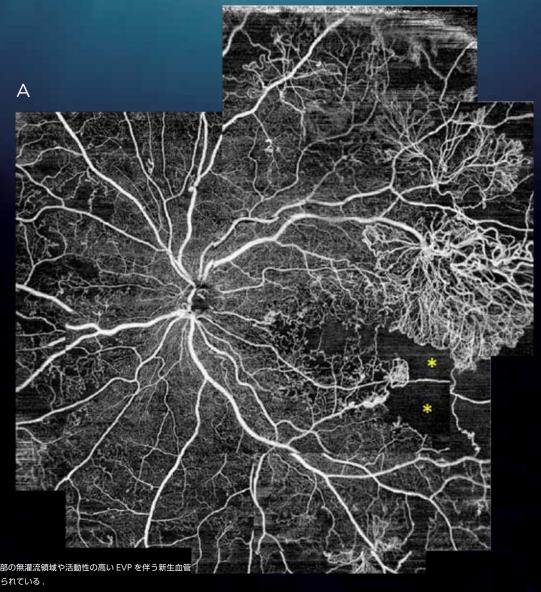


Discover what lies beneath SSOCTAngio™

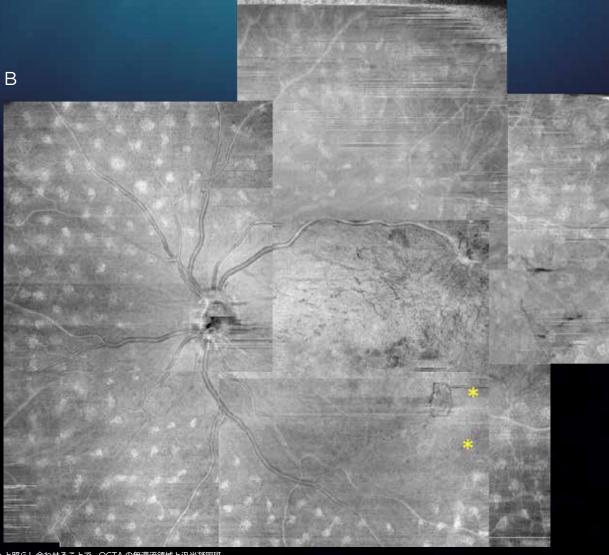
CASE 1

9mm x 9mm SS OCT Angio x 9 images



文献 間瀬 智子 石羽澤 明弘:糖尿病網膜症の読影すご技マニュアル、眼科グラフィック Vol.7, No.3 2018 320 ページ 図 9A

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B:A と同じスラブの en-face OCT 画像 . en-face と照らし合わせることで,OCTA の無灌流領域と汎光凝固斑と照らし合わせた読影が可能である. 例えば,\*で示した領域はまだ光凝固が不足していることが分かる.

文献 間瀬 智子 石羽澤 明弘:糖尿病網膜症の読影すご技マニュアル、眼科グラフィック Vol.7, No.3 2018 320 ページ 図 9B

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CASE 2



Courtesy: Akihiro Ishibazawa, MD Asahikawa Medial University Graduate School of Medical Sciences, Hokkaido, Japan.

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CASE 3

OCTA で見る治療前後の新生血管 (NVE) 形状の変化 (Triton, 12 x 12mm)

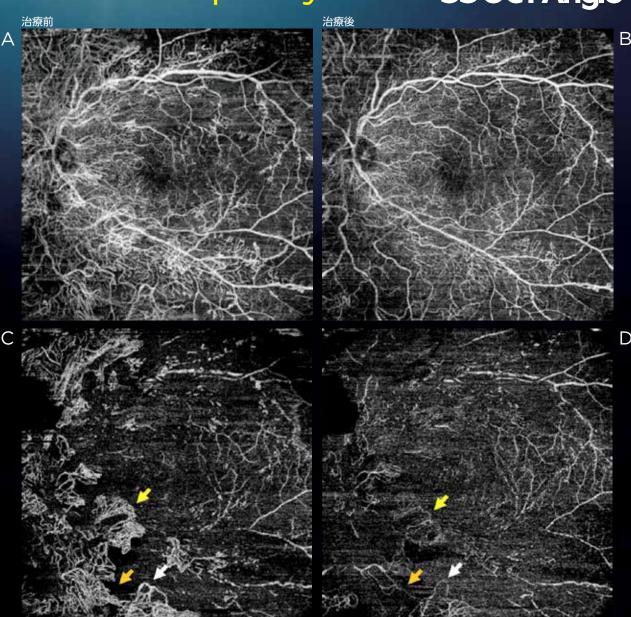
26歳女性、糖尿病合併妊娠患者の出産後、汎光凝固前にラニビズマブ硝子体注射が施行された. A: 治療前の網膜全層スラブでは、アーケード血管に沿う繊維血管増殖膜に絡みつく様に NVE が見られる.

B: 硝子体注射から2日後,新生血管が退縮していることが分かる.

C: 治療前の硝子体スラブでは ,EVP\*1 を伴う活動性の高い NVE が見られている (矢印)

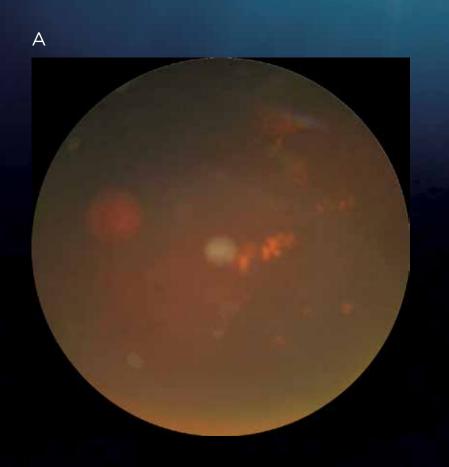
D: 治療前の硝子体スラブでは ,NVE の形は剪定され EVP(-) となり ( 矢印 ), 眼内の VEGF 濃度 の低下が示唆される .

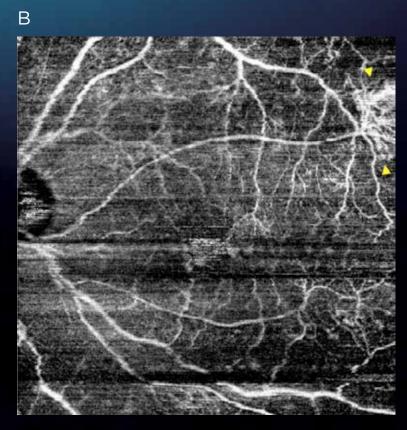
\*\* EVP: Exuberant Vascular proliferative( 微小血管が密に増殖) 2017 年 第 121 回日本眼科学会総会 ランチョンセミナー 10 「臨床活用と OCT-A の進化」より



Discover what lies beneath SS OCT Angio™

CASE 4





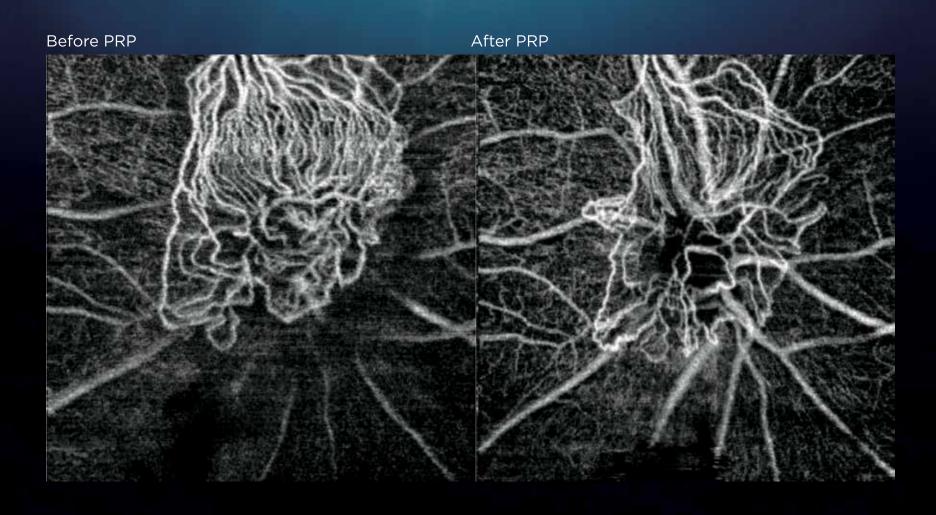
OCTA 撮影が糖尿病網膜症診断に有用だった症例

A: カラー眼底写真では滲出性変化を捉えているものの,中間透光体の混濁と虹彩癒着による散瞳不良により,眼底を透見することが困難であった. B:9x9mm(Triton)ではアーチファクトはあるものの,新生血管が明瞭に捉えられた(矢頭)

文献 間瀬 智子 石羽澤 明弘:糖尿病網膜症の読影すご技マニュアル、眼科グラフィック Vol.7, No.3 2018 321 ページ 図 11 A,B

### Neovascularization

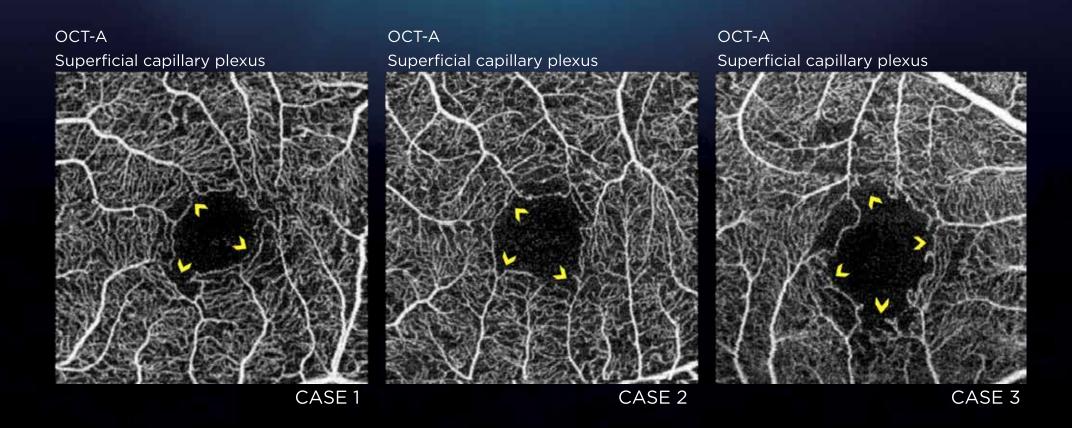
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Courtesy: Akihiro Ishibazawa, MD Asahikawa Medial University Graduate School of Medical Sciences, Hokkaido, Japan.

# Identification of enlarged & irregular FAZ

Discover what lies beneath SS OCT Angio™

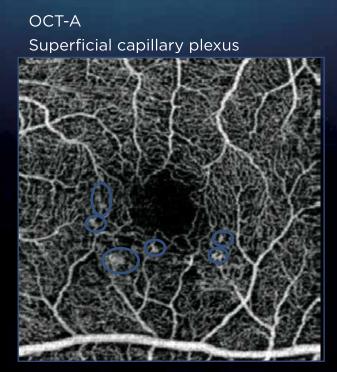


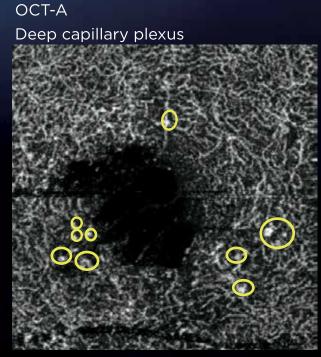
# Identification of Microaneurysms

Discover what lies beneath SSOCTAngio™

CASE 1

FA O

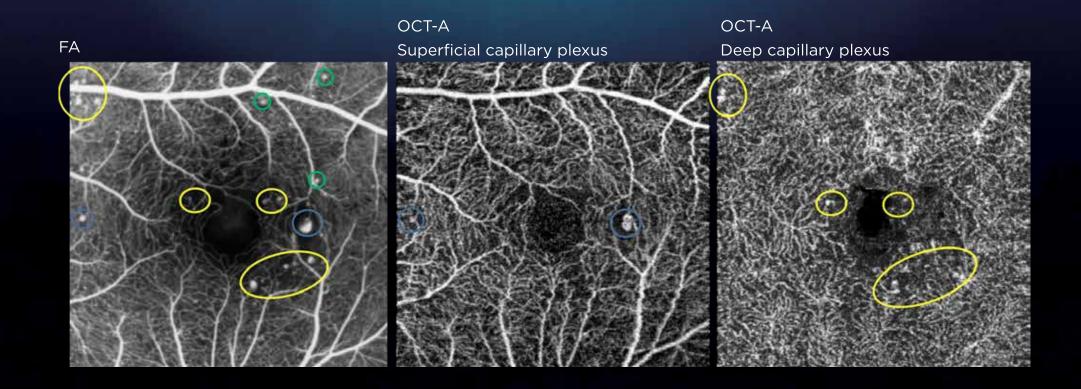




# Identification of Microaneurysms

Discover what lies beneath SSOCTAngio™

CASE 2



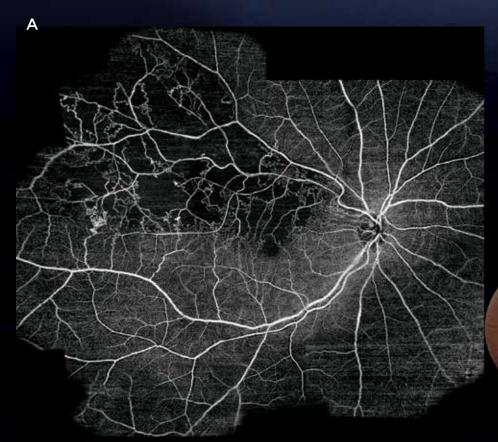
### **Branch Retinal Vein Occlusion**

Discover what lies beneath SS OCT Angio™

Physician: Professor Yuichiro Ogura Nagoya City University, Nagoya, Japan

Patient History: Female, 43 years old

Diagnosis: Old branch retinal vein occlusion on the right eye



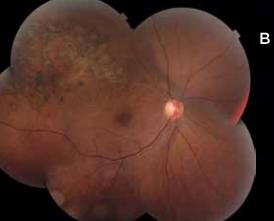
### **Examination Techniques and Results:**

Topcon® DRI OCT Triton™ Swept Source OCT-A of 43 years old female patient with an old branch retinal vein occlusion on the right eye which she developed in December of 2014. She received 3 intravitreal injections of 0.5mg ranibizumab into the right eye during the course of 2015. A laser scatter photocoagulation was performed in early

2016. The final BCVA was 0.1 Snellen. Image A shows the OCT-A data with ischemic areas and IRMA. Image B shows the fundus image with visible laser lesions in the ischemic area. This mosaic was created by stitching six 9 x 9mm OCT-A scans and has an effective dimension of more than 20 x 20mm.

#### **Clinical Relevance:**

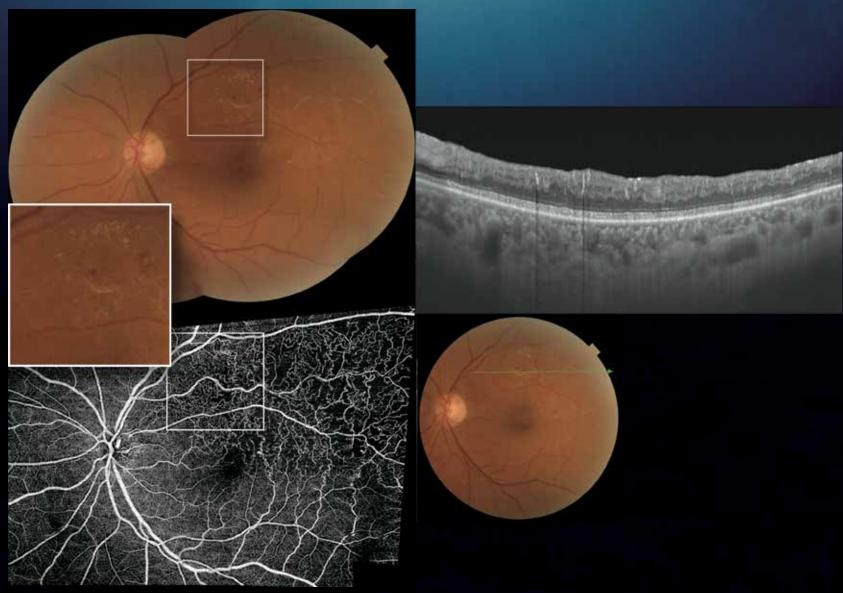
The ability to create a large mosaic, or widefield image, is necessary to screen for retinal ischemia in patients with vascular occlusions of diabetic retinopathy.



Courtesy: Yuichiro Ogura, MD Professor and Chairman of Department of Ophthalmology and Visual Science, Nagoya City University, Nagoya, Japan

## **Branch Retinal Vein Occlusion**

Discover what lies beneath SSOCTAngio™



Courtesy: Carl Glittenberg, MD Karl Landsteiner Institute for Retinal Research and Imaging

### Choroidal Neovascularization With Fibrosis

Discover what lies beneath SSOCTAngio™

**Physician:** Carl Glittenberg MD, Karl Landsteiner Institute for Retinal Research and Imaging Vienna, Austria

Patient History: Female, 59 years old

Diagnosis: Choroidal Neovascularisation Type II on the right eye

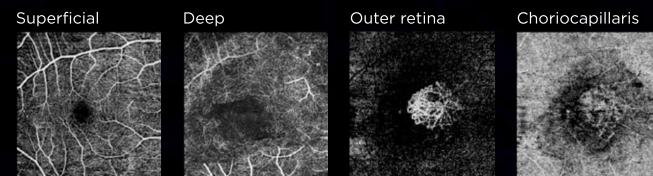
**Treatment:**5 intravitreal injections of anti-VEGF on the right eye

### **Examination Techniques and Results:**

A high definition swept source OCT B-scan, a full color fundus photograph, and a swept source OCT angiography (SS OCT Angio<sup>TM</sup>) were performed. The examinations were collected on a Topcon DRI OCT Triton<sup>TM</sup> Plus swept source OCT system. The fundus photograph shows an area of macular fibrosis. The B-scan shows a mixture of subretinal highly reflective material (SRHM) and fibrotic material as well as subretinal fluid. The SS OCT Angio<sup>TM</sup> shows hyper-mature neovascular vessels inside the fibrotic lesion.

#### Clinical Relevance:

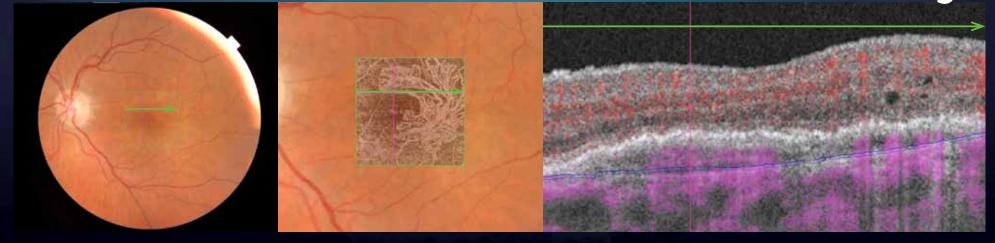
The ability to visualize hyper-matured vasculature inside of fibrotic lesions will improve our understanding of the etiology and treatment of choroidal neovascularisations. Due to the ability of swept source OCT and SS OCT Angio $^{\text{TM}}$  to penetrate deeper into such lesions a better visualization can be guaranteed. This will be invaluable as new treatment modalities to avoid hyper maturation of neovascular vessels become available.

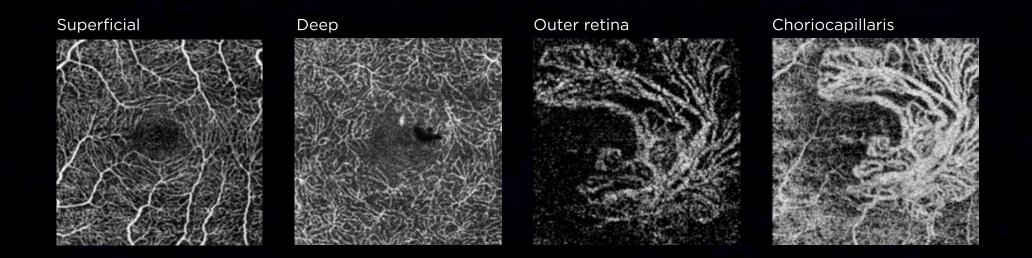


Courtesy: Carl Glittenberg, MD Karl Landsteiner Institute for Retinal Research and Imaging

# Choroidal Neovascularization

Discover what lies beneath SSOCTAngio™

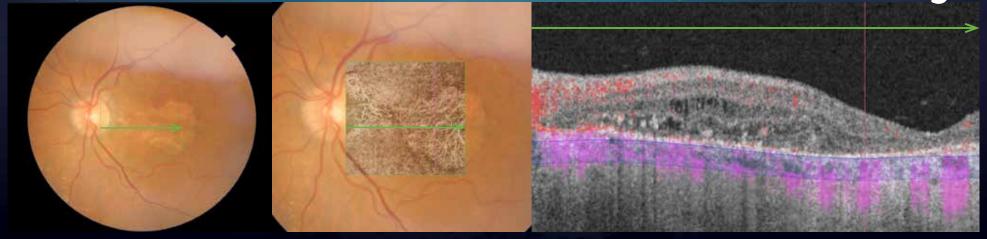


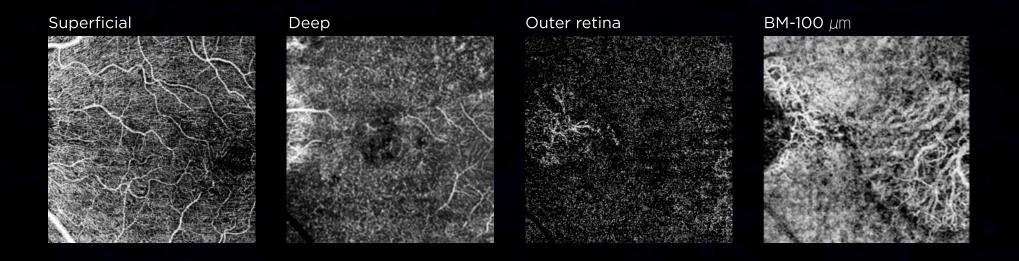


Courtesy: Nadia Waheed, MD and Yasin Alibhai, MD of New England Eye Center

Polypoidal Choroidal vasculopathy

Discover what lies beneath SSOCTAngio™





Courtesy: Carl Glittenberg, MD Karl Landsteiner Institute for Retinal Research and Imaging

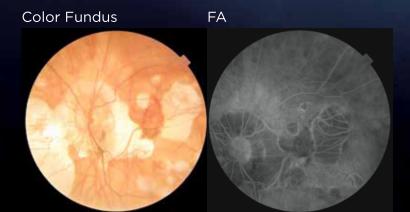
# Myopic CNV

**Physician:** Carl Glittenberg MD, Karl Landsteiner Institute for Retinal Research and Imaging Vienna, Austria

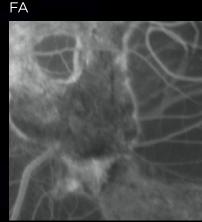
Patient History: Female, 72 years old

Diagnosis: Myopic CNV on the left eye

**Treatment:**5 intravitreal injections of anti-VEGF on the left eye







B scan

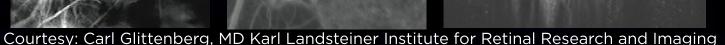
SSOCTAngio™

### **Examination Techniques and Results:**

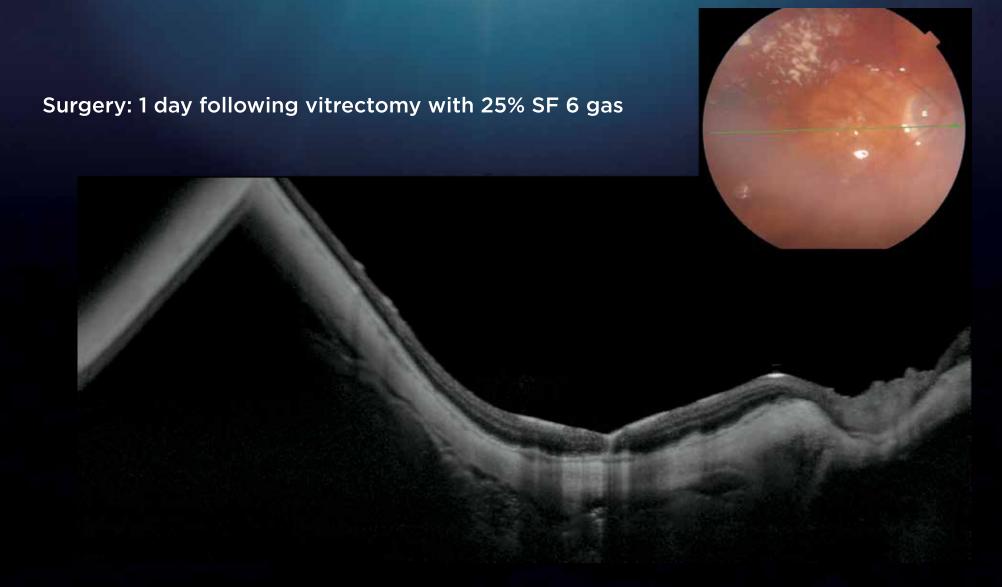
A high-definition swept source OCT B scan, a full color fundus photograph, a fluorescein angiography, and a swept source OCT angiography (SS OCT Angio™) were performed. The examinations were collected on a Topcon DRI OCT Triton™ Plus swept source OCT system. The fundus photograph shows a highly myopic fundus with peripapillary atrophy and an older myopic neovascular lesion with a fresh component on the inferior margin. The B scan shows a myopic fundus, retinoschisis, and intraretinal fluid over the fresh part of the lesion. The fluorescein angiography (top right image) shows leakage in the fresh inferior component. The SS OCT Angio™ (bottom left images) clearly shows vascular proliferation in the area of leakage. OCT Angio image were post processed by Carl Glittenberg MD.

### **Clinical Relevance:**

The ability to perform SS OCT Angio $^{\text{\tiny{M}}}$  on highly myopic patients is of great importance for early detection of myopic CNV.

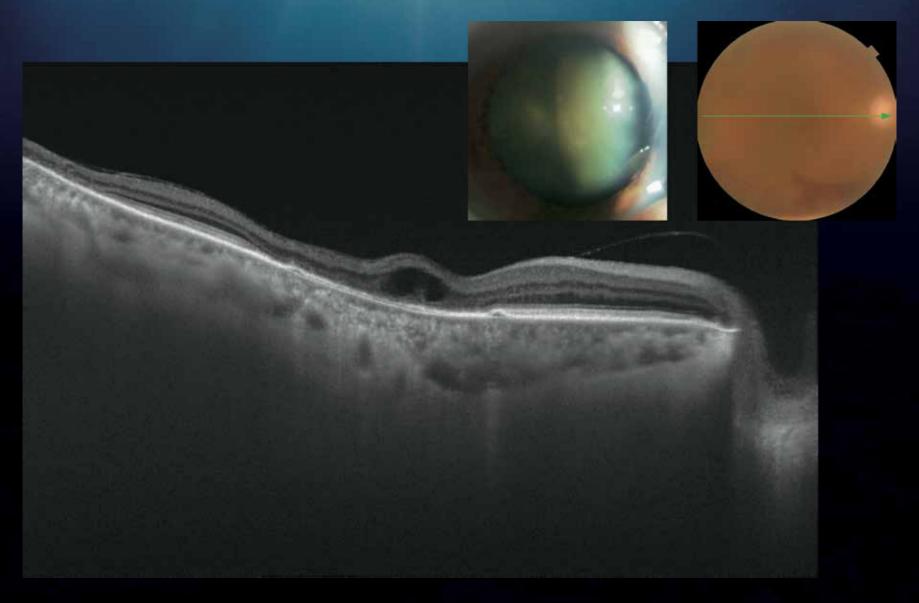


# Myopic Macular Hole



Courtesy: Netan Choudhry, MD Vitreous Retina Macula Specialists of Toronto

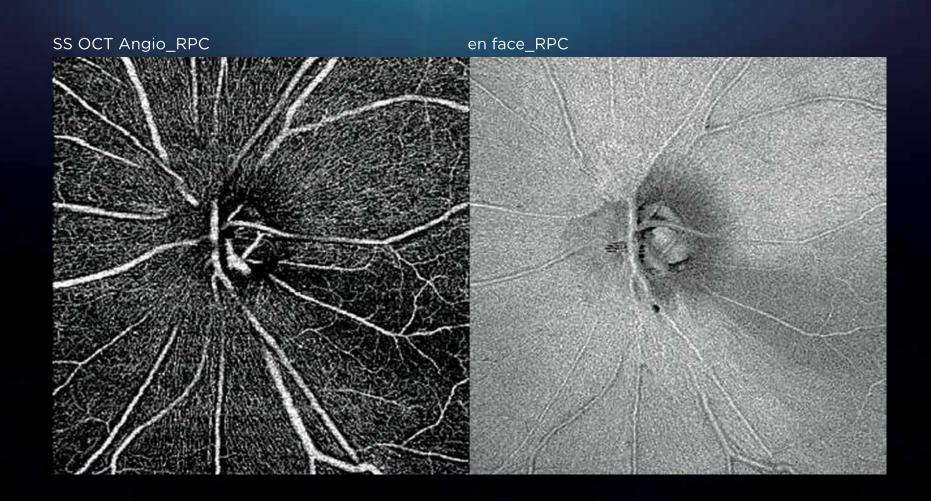
# Cataract



Courtesy: Kazuya Yamagishi, MD Hirakata Yamagishi Eye Clinic, Japan

# Glaucoma

Discover what lies beneath SSOCTAngio™



Courtesy: Kazuya Yamagishi, MD Hirakata Yamagishi Eye Clinic, Japan

販売名:3 次元眼底像撮影装置 DRI OCT Triton 医療機器認証番号:226AABZX00146000

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