

Topcon OCT Report Guide

Maestro



Reports (click on Report Title)

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Indicates scanning and/or clinical suggestion

Report Elements at a Glance

1 3D Wide Report

2 Maestro2

3 ID: 4444

4 Name: TEST PATIENT TO HEALTHCARE

5 TOPCON

6 OD(R)

Image Quality: **49**

Capture Date: 05/18/2021

7

8

Ethnicity:
Gender:
DOB: 03/03/1993 Age: 28

Technician:
Fixation: Wide
Scan: 3D(12.0x9.0mm - 512x128)

Retina Analysis

GCL+ Analysis

RNFL Analysis

Disc Topography

| | |
|-------------------------------|------|
| Rim Area (mm ²) | 1.78 |
| Disc Area (mm ²) | 2.90 |
| Linear CDR | 0.62 |
| Vertical CDR | 0.57 |
| Cup Volume (mm ³) | 0.22 |

Reference Plane Height: 120µm

Comments:

Disc margin
Cup margin

Signature: _____ Date: _____

RNFL Average Thickness 107 µm

- 1** Report name
- 2** OCT model name & version
- 3** Patient information
- 4** Image quality score
- 5** Scan mode & parameters
- 6** Eye
- 7** Capture date
- 8** Comment/signature/date (recorded by writing on printout)

3D Wide (H) Glaucoma Report

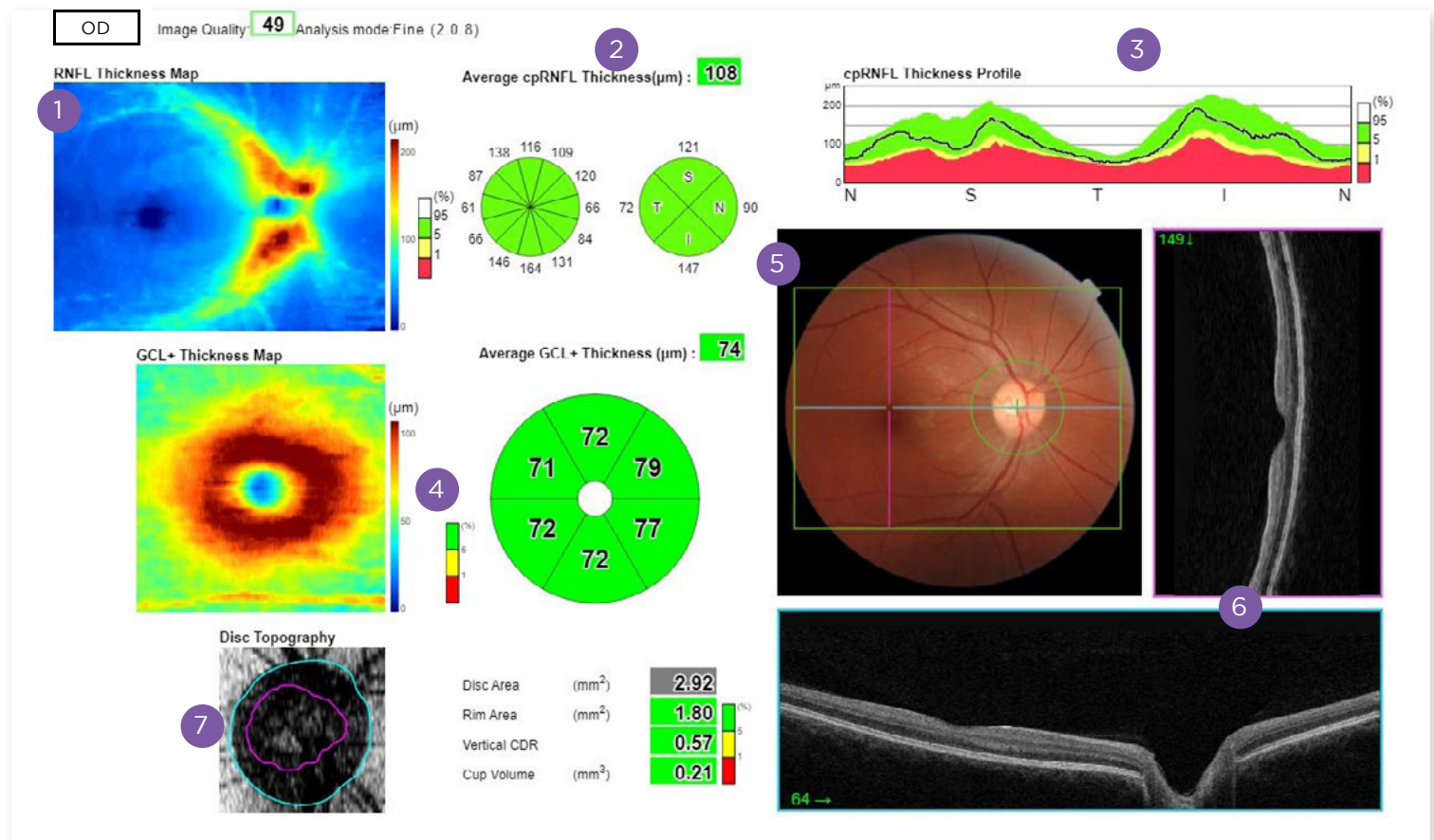


- Wide, 12x9mm OCT scan report encompassing the macula and optic nerve
- 45° true-color fundus photograph magnified on the nerve, RNFL thickness, disc topography, GCL+ thickness all with reference data



Used for focused unilateral glaucoma assessment

- 1 12x9mm RNFL Thickness Map with color scale
- 2 3.4mm cpRNFL Total (global), 12 (clock hour) sector, and 4 (quadrant) sector average thickness
- 3 3.4mm cpRNFL Thickness Profile with reference data
- 4 GCL+ Thickness Map and Average GCL+ 6 sector grid values with reference data
- 5 True-color 45° fundus photograph with 12x9mm OCT scan zone overlay with horizontal/vertical scan position and 3.4mm cpRNFL scan position
- 6 Horizontal/vertical OCT scans; can be repositioned before printing
- 7 Disc topography with reference data



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3D Wide (H) Glaucoma Report (OU)

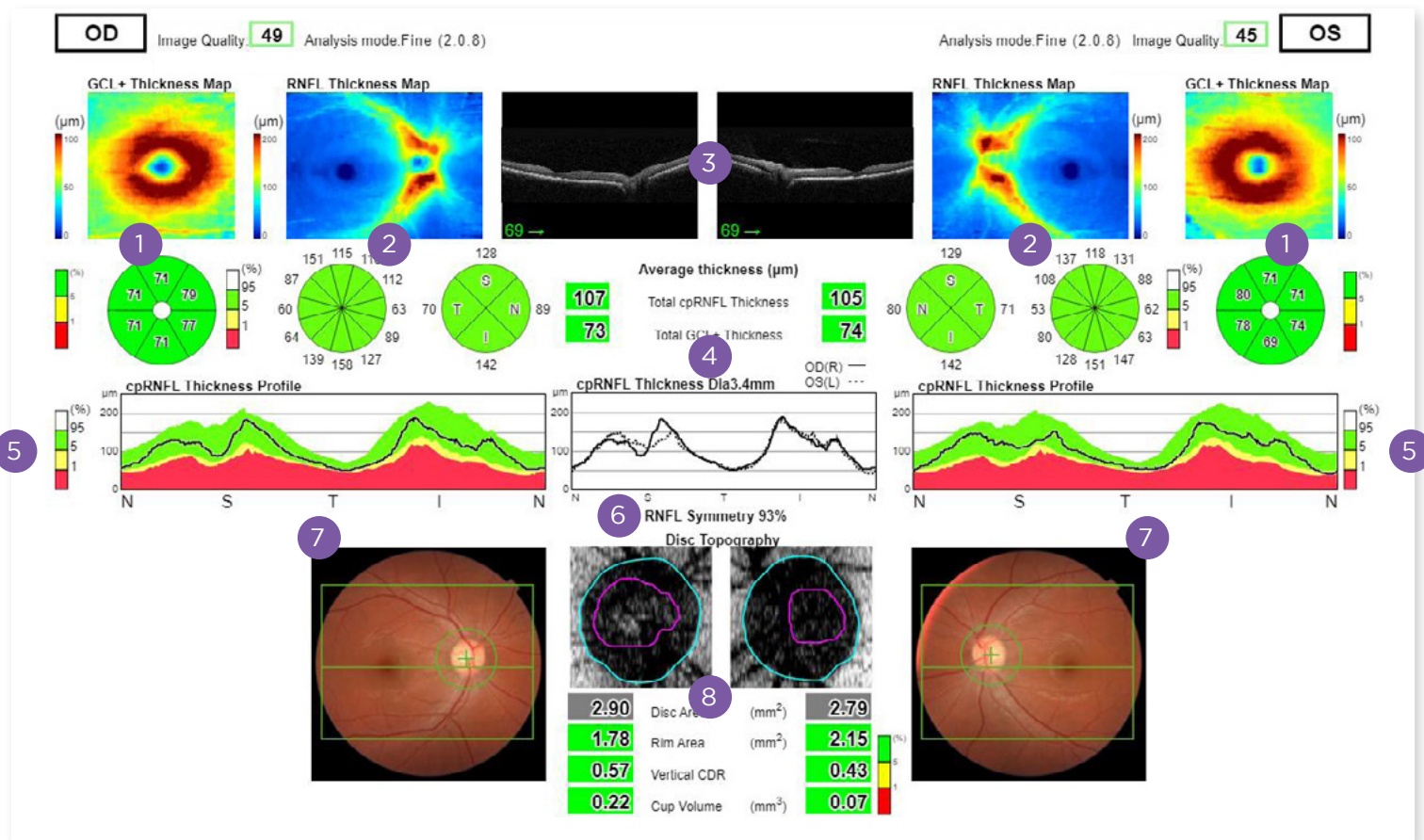


- Wide, 12x9mm OU OCT scan report
- 45° true-color fundus photograph, RNFL thickness, disc topography, GCL+ thickness all with reference data



Used for focused bilateral glaucoma assessment

- 1 GCL+ Thickness Map and Average GCL+ 6 sector grid values with reference data
- 2 3.4mm cpRNFL Average Thickness in 12 clock hours and 4 sectors with reference data
- 3 Horizontal OCT scans; can be repositioned before printing
- 4 3.4mm cpRNFL and GCL+ Average Thickness values with reference data
- 5 3.4mm cpRNFL Thickness values with reference data
- 6 RNFL Circular Thickness Diameter 3.4mm presenting OD/OS thicknesses and symmetry percentage
- 7 True-color 45° fundus photograph with 12x9mm OCT scan zone overlay with horizontal scan position and 3.4mm cpRNFL scan position
- 8 Disc topography with reference data



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3D Wide Glaucoma Report (Hood Report)

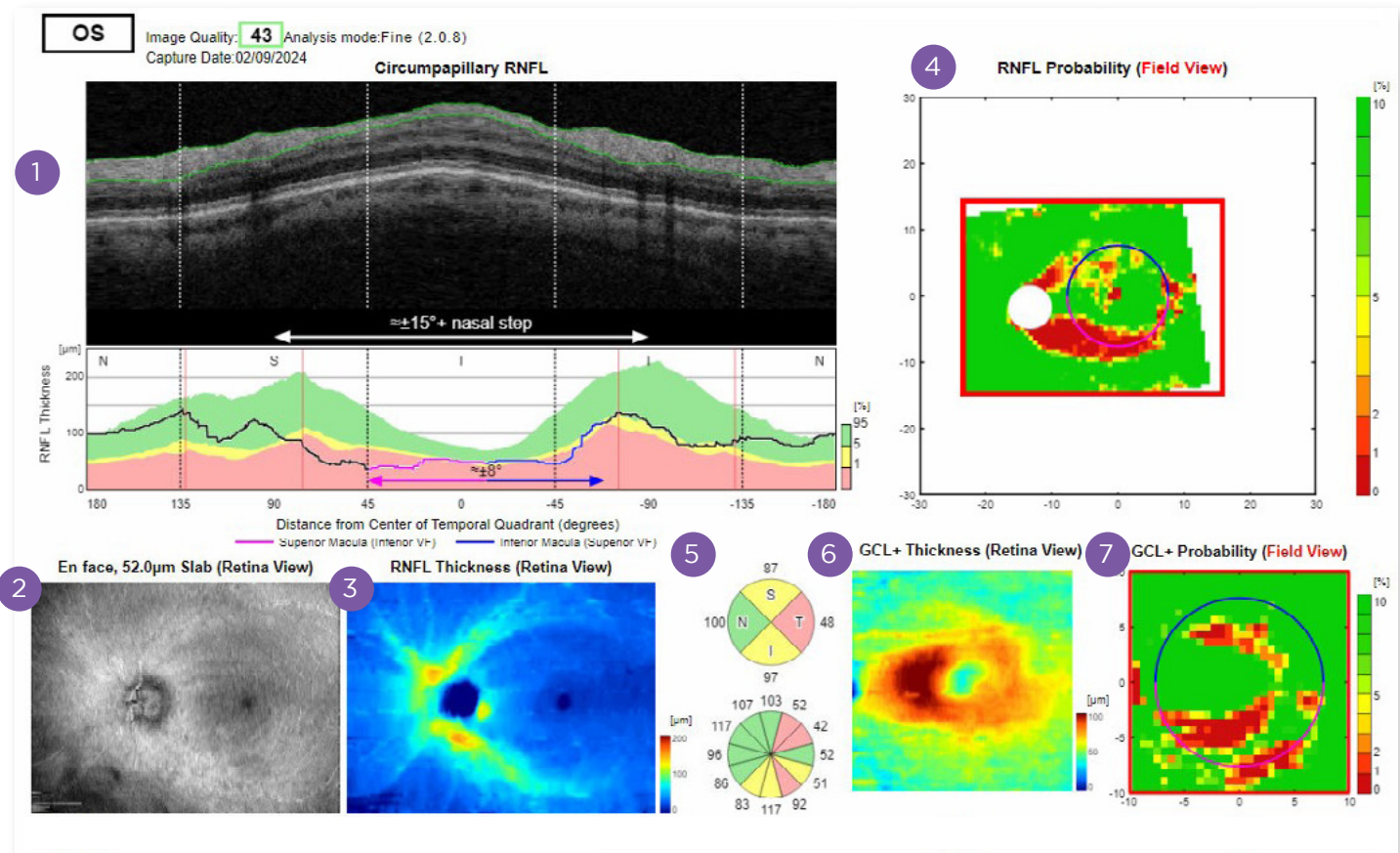


- One wide, 12x9mm OCT scan generates this novel report made to simplify and accelerate glaucoma diagnostic decision-making
- RNFL and GCL+ Probability Maps (Field View) demonstrate where probabilities fall



Used for glaucoma assessment

- 1 3.4mm cpRNFL OCT scan enlarged with layer boundary lines, centered temporal sector and reference data
- 2 12x9mm OCT En-face image
- 3 12x9mm RNFL thickness map with vessel detail removed and color scale
- 4 RNFL Probability Map inverse image to correspond with visualization of field view
- 5 3.4mm cpRNFL thickness in 4 Sectors and 12 clock hours with reference data
- 6 GCL+ Thickness Map
- 7 OCT GCL+ Probability Map, inverse image to correspond with visualization of field view



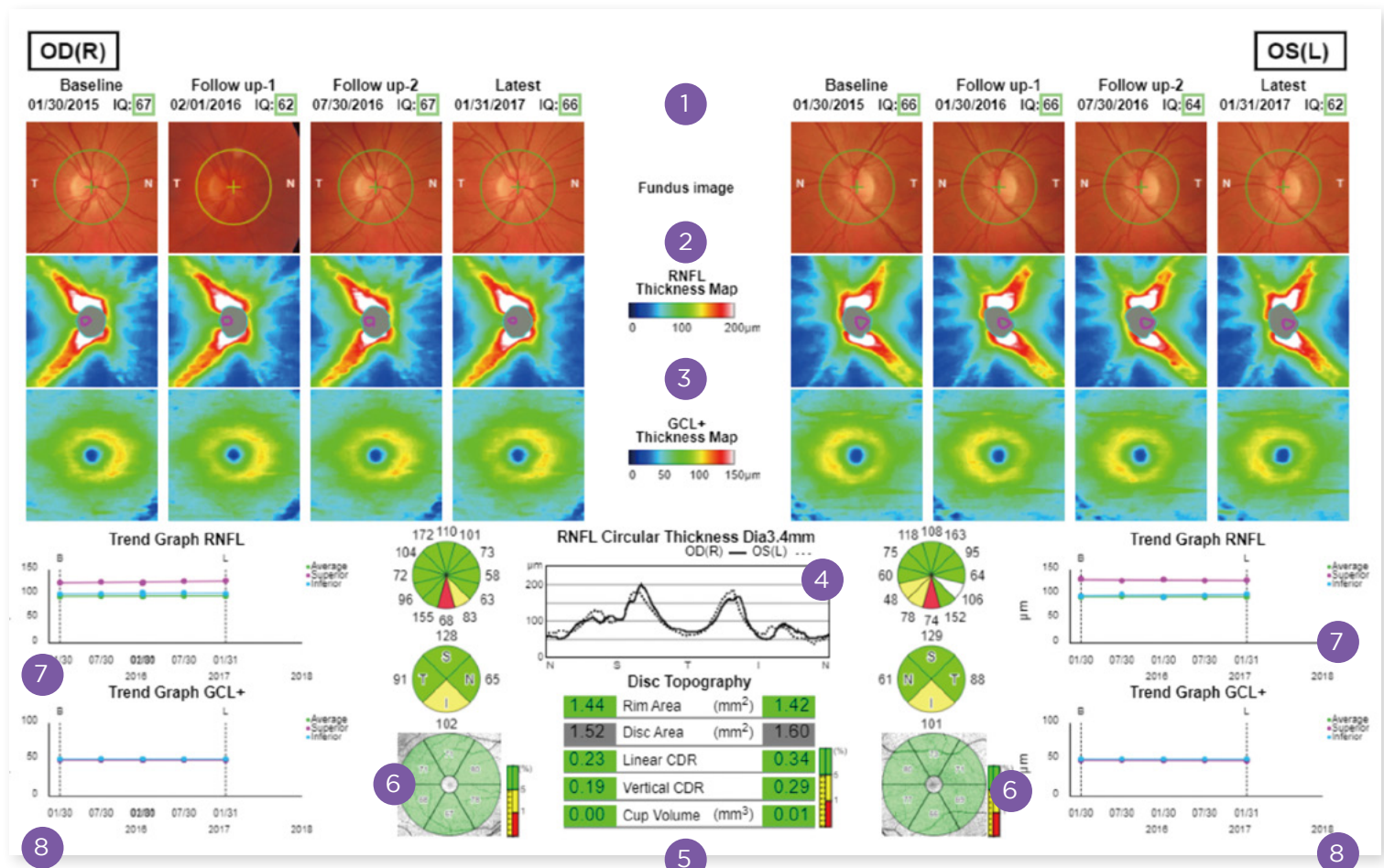
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3D Wide Trend Analysis (OU)



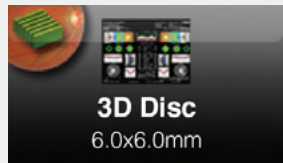
Comprehensive longitudinal assessment of optic nerve photographs, RNFL and ganglion cell thickness data in a change-over-time bilateral report

- 1 45° true-color fundus photographs magnified on optic nerve with cpRNFL scan position
- 2 RNFL Thickness Map with cup/disc margins and color scale
- 3 GCL+ Thickness Map with color scale
- 4 Latest visit 3.4mm cpRNFL thickness NSTIN in 4 Sectors and 12 clock hours with reference data
- 5 Disc Topography with reference data, latest visit
- 6 GCL+ thickness with reference data, latest visit
- 7 Trend Graph cpRNFL
- 8 Trend Graph GCL+



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3D Disc Report with Topography

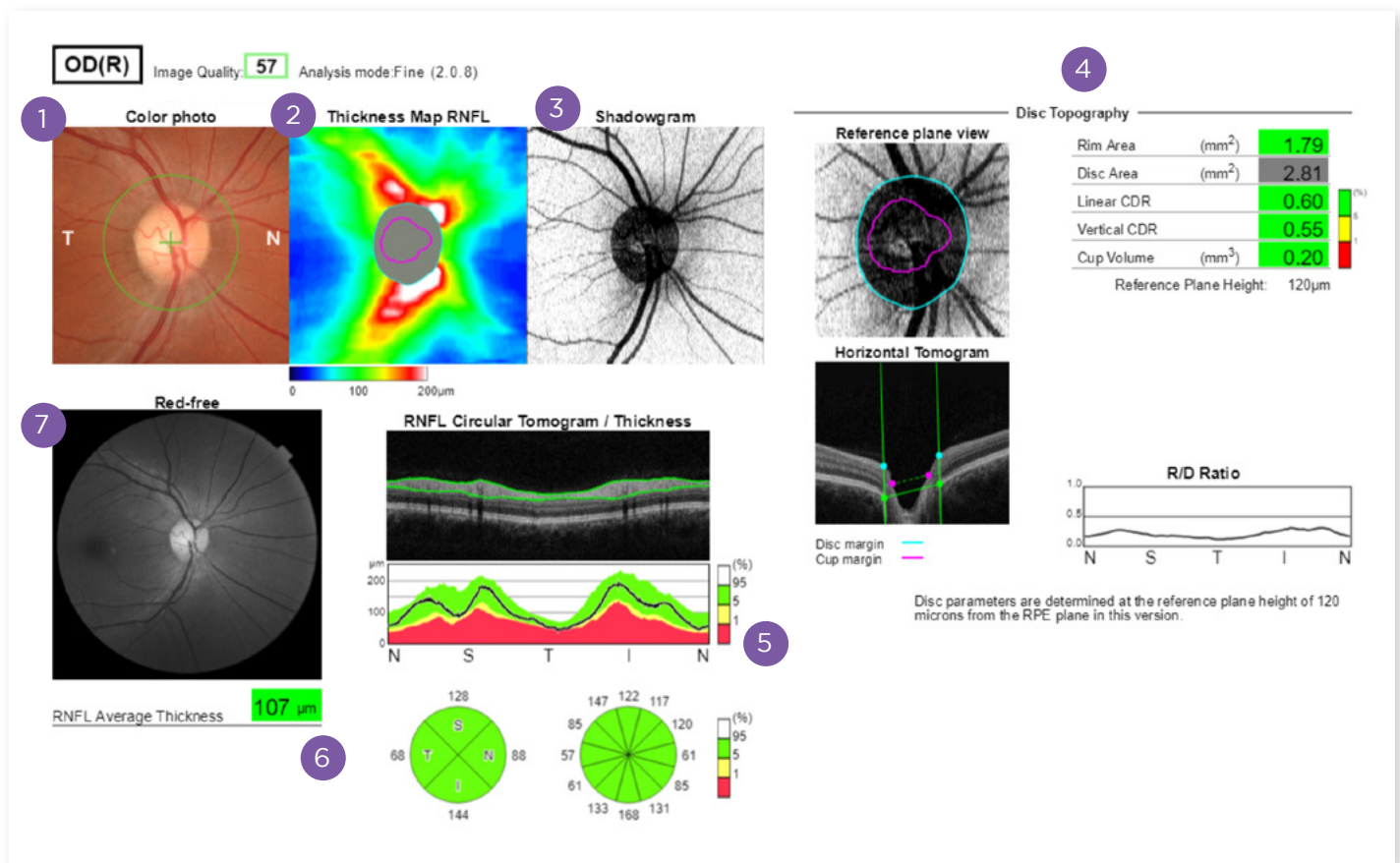


Classic 6x6mm OCT optic nerve scan offering conventional analyses with photography in a unilateral report

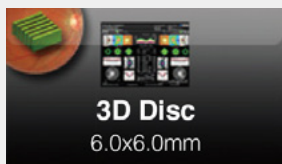


Rim Area: larger area = higher percentile
Linear CDR and Vertical CDR: smaller ratio = higher percentile
Cup Volume: smaller volume = higher percentile
Disc Area: no reference data for this parameter

- 1 True-color 45° fundus photograph magnified on the optic nerve with 3.4mm cpRNFL scan position.
- 2 6x6mm RNFL thickness map with cup/disc margins and color scale
- 3 6x6mm OCT Shadowgram
- 4 Disc Topography
- 5 3.4mm cpRNFL Thickness (NSTIN) with reference data
- 6 3.4mm cpRNFL average thickness
- 7 45° Red-free photograph



3D Disc Report (OU) with Topography

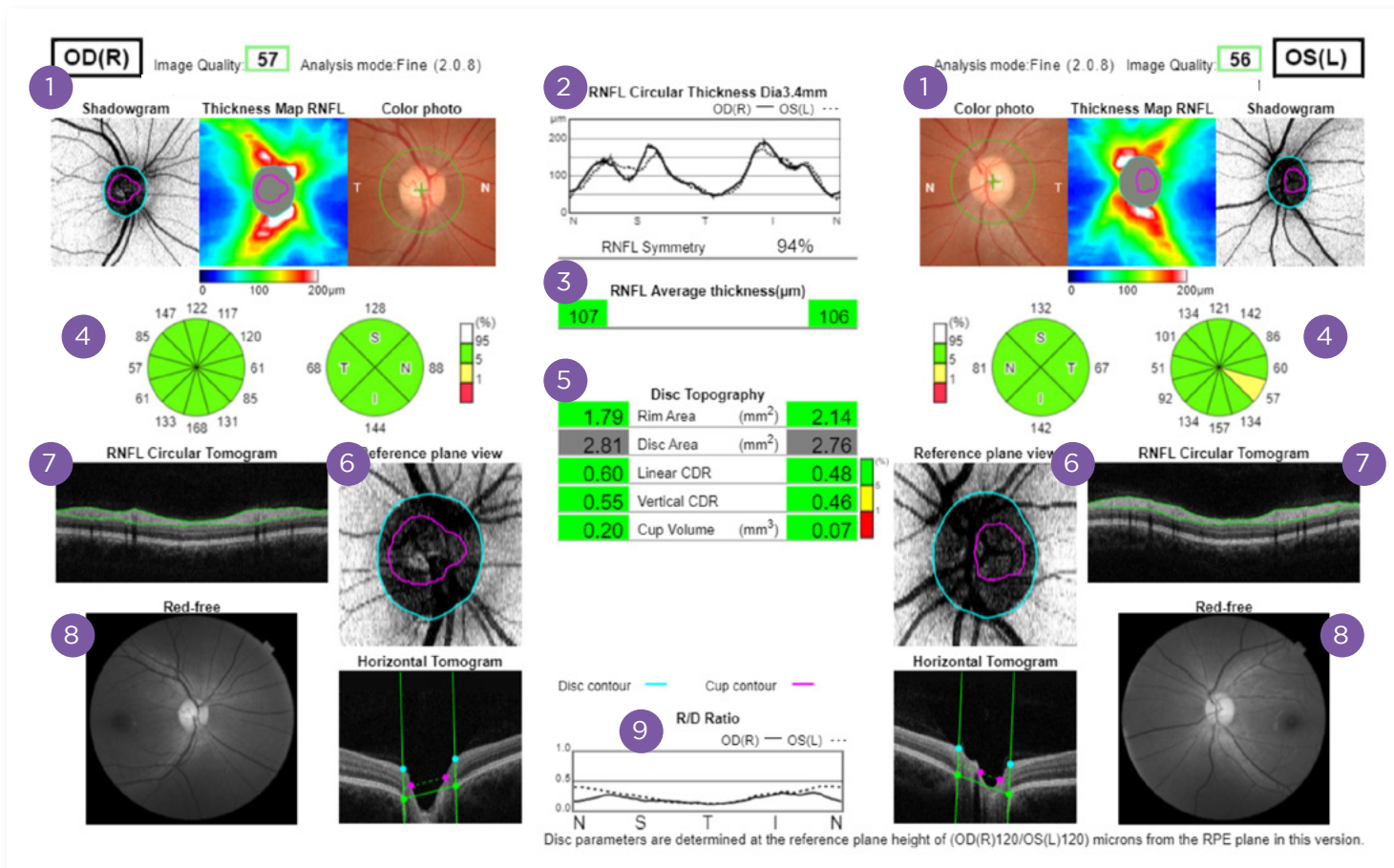


Classic optic nerve 6x6mm OCT scans offering conventional analyses with photography in a bilateral report



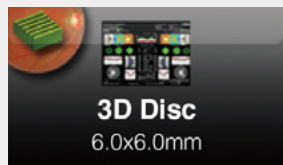
Rim Area: larger area = higher percentile
Linear CDR and Vertical CDR: smaller ratio = higher percentile
Cup Volume: smaller volume = higher percentile
Disc Area: no reference data for this parameter

- 1 OCT shadowgram with cup/disc margins, RNFL thickness map with color scale and cup/disc margins, true-color 45° fundus photograph magnified on the optic nerve with 3.4mm cpRNFL scan position
- 2 RNFL Circular Thickness Diameter 3.4mm presenting OD/OS thicknesses and symmetry percentage score
- 3 3.4mm cpRNFL average thickness OU
- 4 3.4mm cpRNFL thickness in 4 sectors and 12 clock hours with reference data
- 5 Disc Topography with reference data
- 6 Cup/Disc Reference Plane View
- 7 RNFL Circular Tomogram with layer boundary lines
- 8 45° Red-free photograph
- 9 Rim/Disc ratio



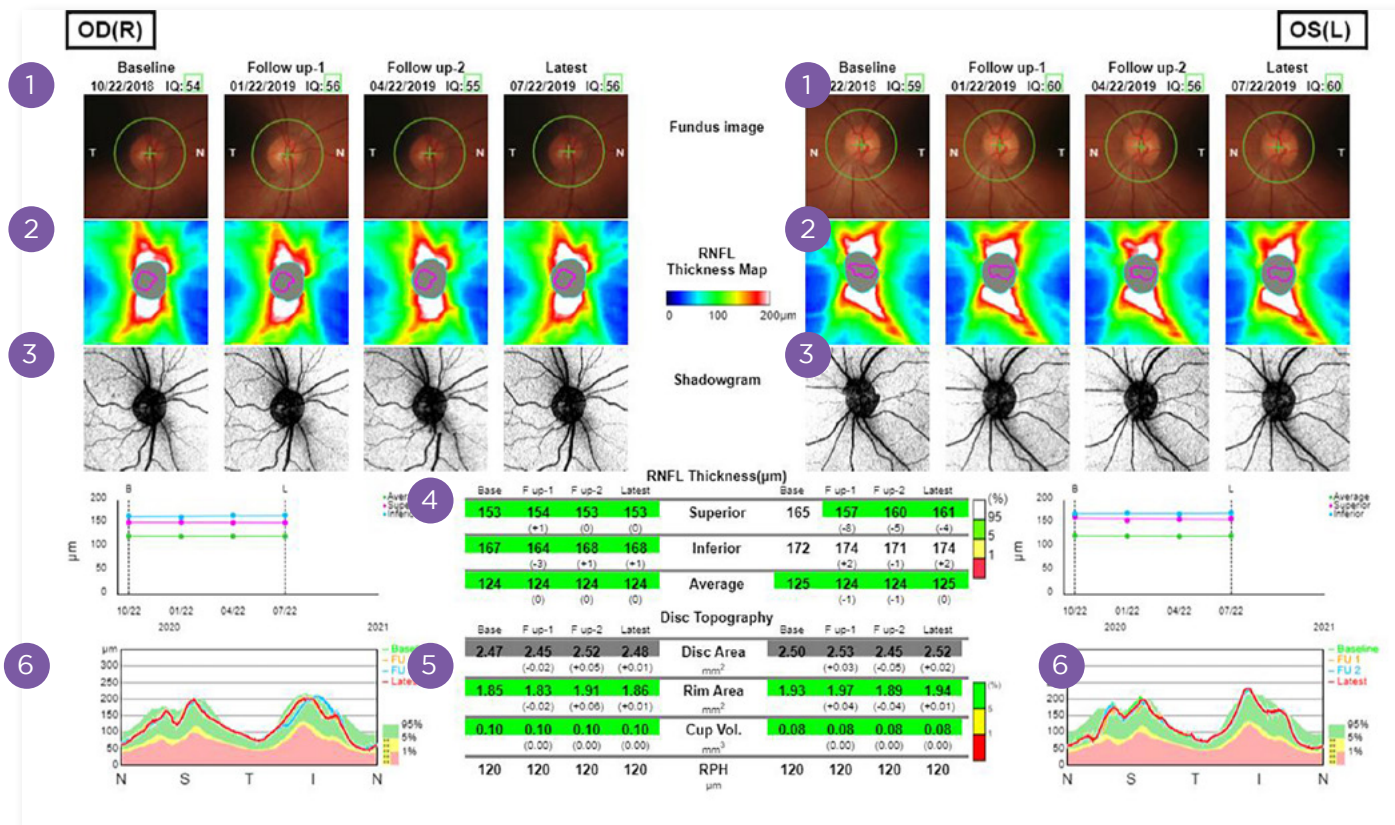
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3D Disc Trend Analysis (OU)



Classic longitudinal assessment of optic nerve photographs, RNFL and optic nerve data in a bilateral, change-over-time report

- 1 45° true-color fundus photographs magnified on optic nerve with cpRNFL scan position
- 2 6x6mm RNFL Thickness Map with cup/disc margins and color scale
- 3 OCT Shadowgram
- 4 Average/Superior/Inferior cpRNFL thickness with reference data displayed in graph and table from baseline to latest
- 5 Disc Topography with reference data table displayed from baseline to latest visit
- 6 cpRNFL NSTIN thickness with reference data displayed in graph from baseline to latest

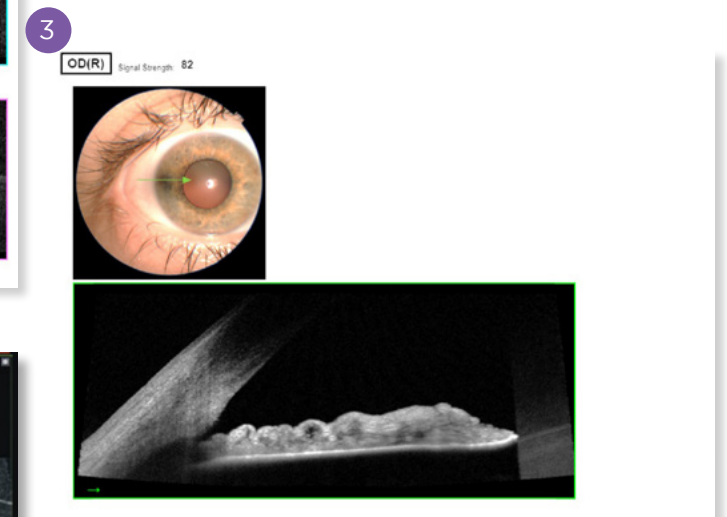
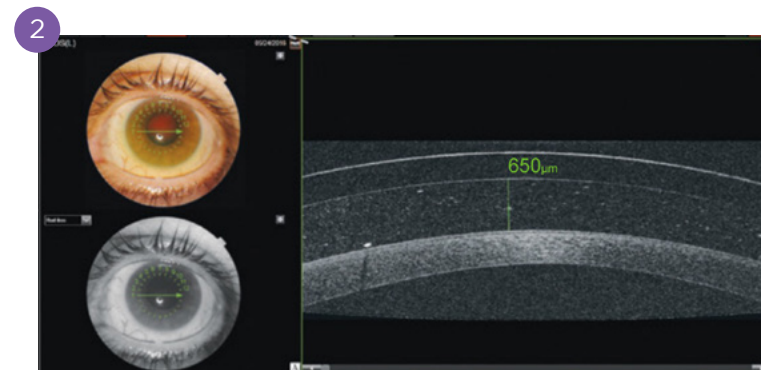
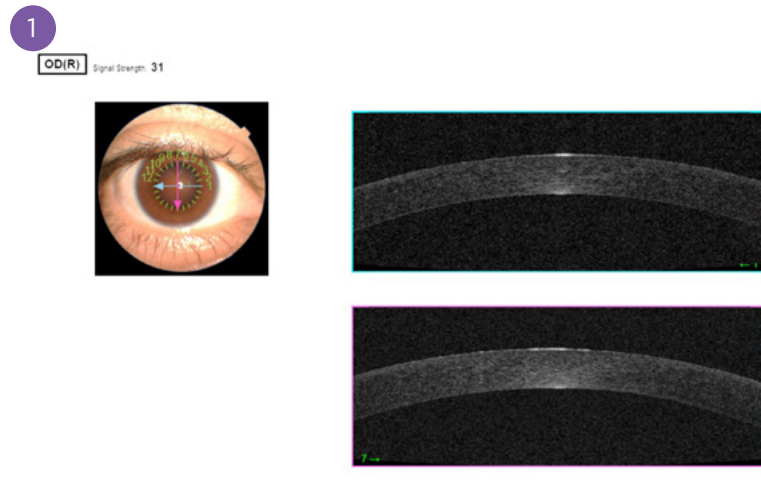


Anterior Segment



Simplified reports of powerful anterior segment OCT scans including the ability to display measurements

- 1 Anterior Radial Report (12 clock-hour scans of the cornea)
- 2 Anterior Radial Scan (scleral lens with caliper tool measurement)
- 3 Anterior Line Report (angle)

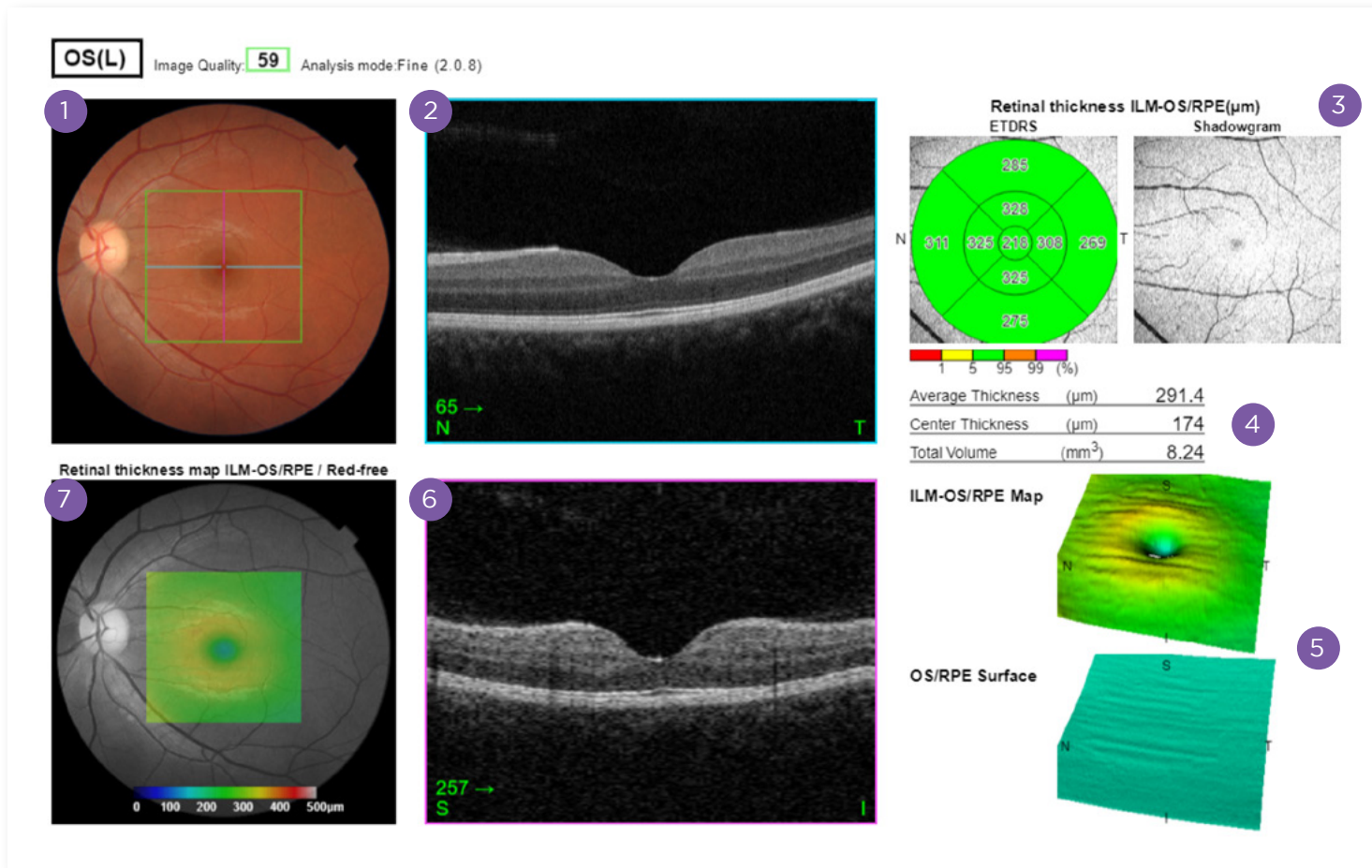


3D Macula Report



Classic 6x6mm macular OCT scan report with conventional analyses and photography in a unilateral report

- 1 True-color 45° fundus photograph with horizontal (blue) and vertical (pink) scan position reference
- 2 Horizontal OCT scan (any horizontal scan can be selected for printing)
- 3 ETDRS thickness with reference data and OCT shadowgram
- 4 Average thickness, center thickness, and total volume
- 5 ILM-OS/RPE and OS/RPE three-dimensional layer segmentation maps
- 6 Vertical OCT scan (derived; any vertical scan can be selected for printing)
- 7 Red-free 45° fundus photograph with ILM-OS/RPE thickness overlay with color scale



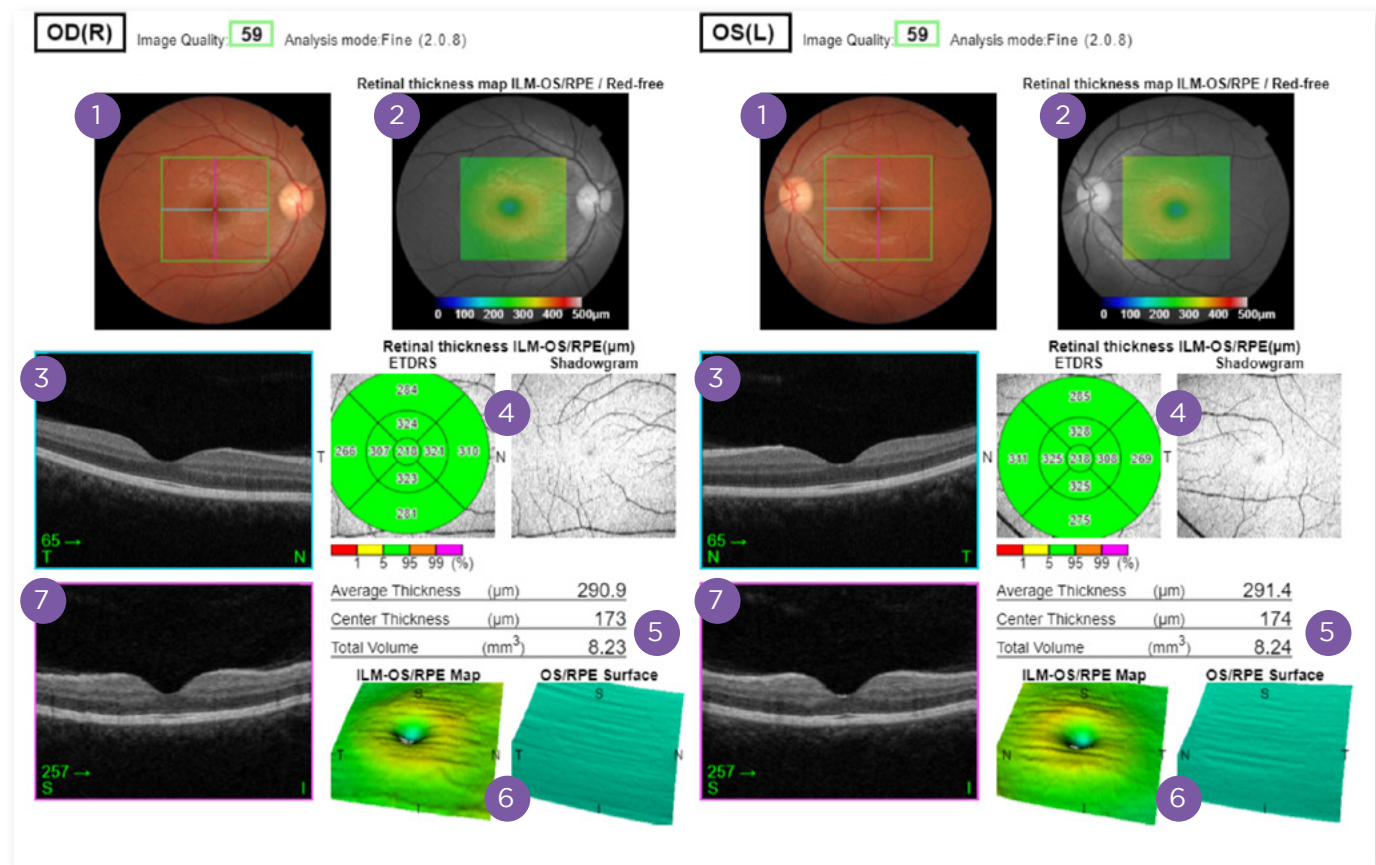
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3D Macula Report (OU) Retina Analysis



Classic 6x6mm macular OCT scan report with conventional analyses and photography in a bilateral report

- 1 True-color 45° fundus photograph with horizontal (blue) and vertical (pink) scan positions
- 2 Red-free 45° fundus photograph with ILM-OS/RPE thickness overlay with color scale
- 3 Horizontal OCT scan
- 4 ETDRS thickness with reference data and OCT shadowgram
- 5 Average thickness, center thickness, and total volume
- 6 ILM-OS/RPE and OS/RPE three-dimensional layer segmentation maps
- 7 Vertical OCT scan (derived)



3D Macula Report (OU) GCL Analysis

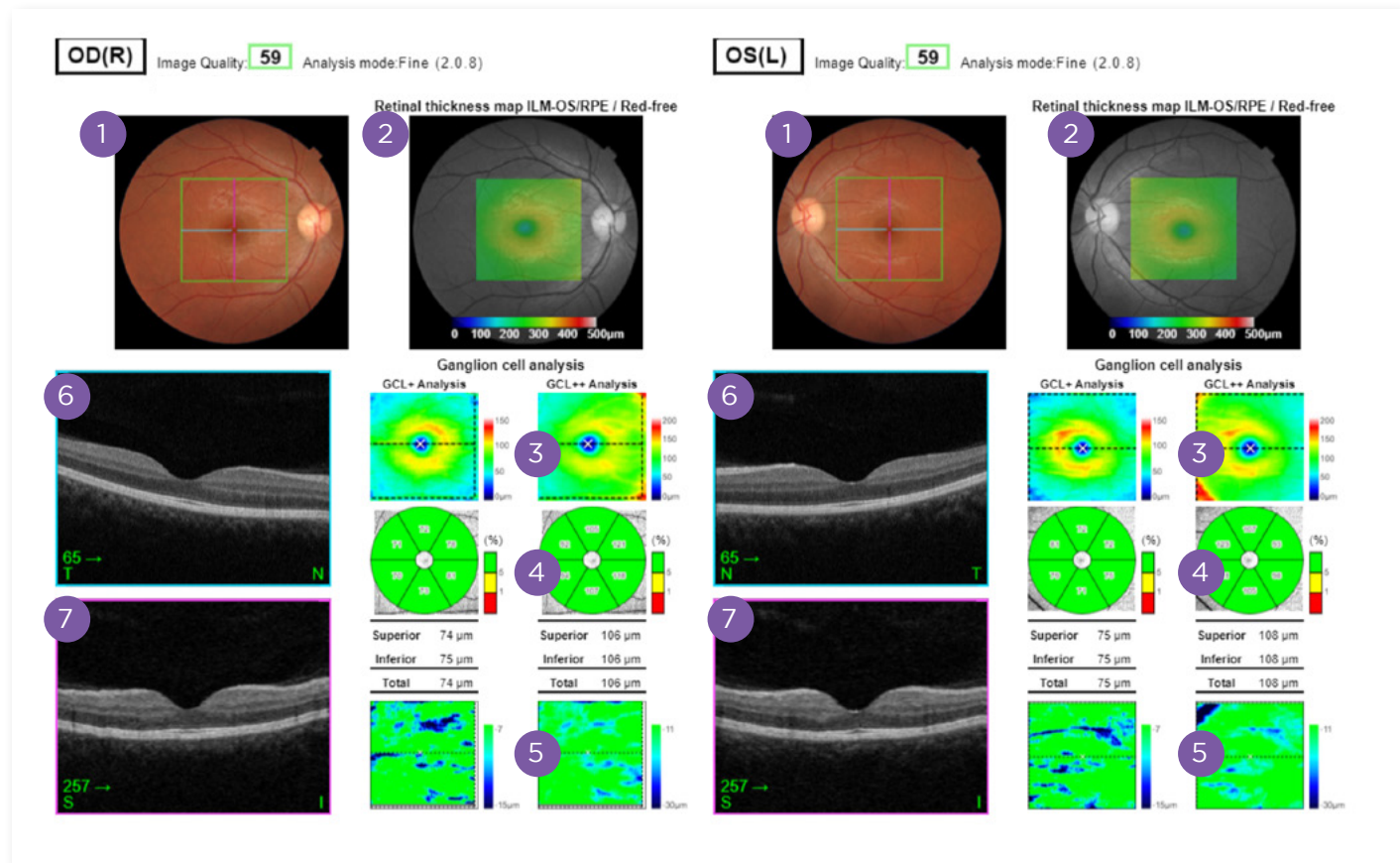


- Classic and powerful macular OCT bilateral scan report with emphasis on glaucoma analyses
- Includes true-color and red-free fundus photography with OCT thickness overlay, high-resolution OCT scans, both GCL+ and GCL++ thicknesses compared to reference data and superior/inferior thickness asymmetry maps



Complements the glaucoma patient traditionally scanned with 3D Disc

- 1 True-color 45° fundus photograph with horizontal (blue) and vertical (pink) scan positions
- 2 Red-free 45° fundus photograph with ILM-OS/RPE thickness overlay with color scale
- 3 GCL+, GCL++ thickness maps with color scale
- 4 GCL+, GCL++ and macula 6 sector grid values with reference data
- 5 Asymmetry thickness map between upper/lower GCL from the center line. Two points at line-symmetric are compared. Thinner is blue, equal is green.
- 6 Horizontal OCT scan
- 7 Vertical OCT scan (derived)



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Retina Comparison Report

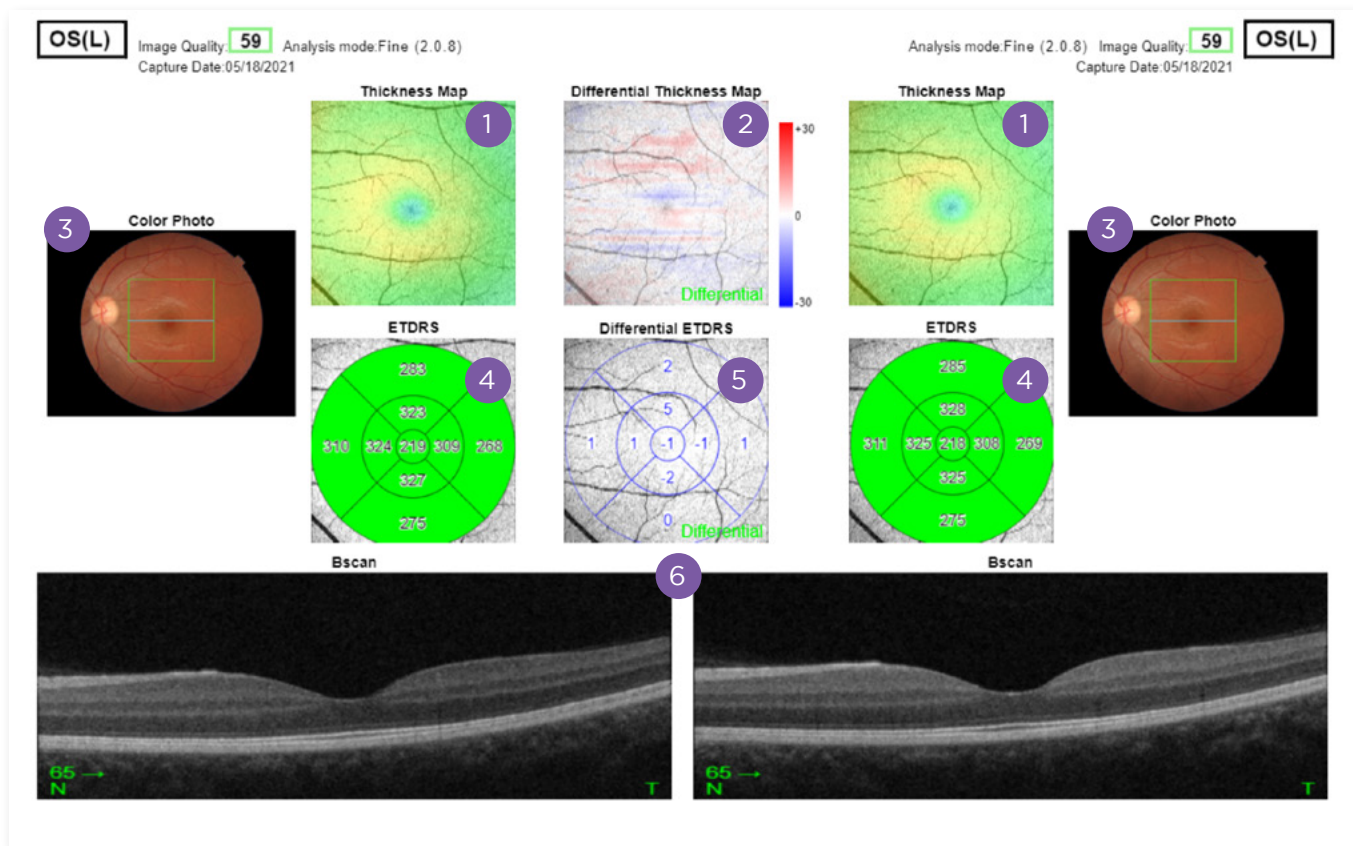


- Unilateral visit-to-visit change report with 45° true-color fundus photography, intervisit-registered OCT scans (3D Macula or 3D Wide) and ETDRS thickness maps for each visit
- Includes color-coded Differential ETDRS Map and Differential ETDRS displaying thickness variance in +/- microns

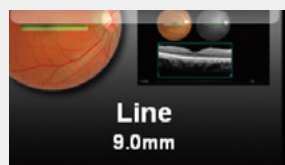


A report that may be used to assess visit-to-visit laser and/or intravitreal treatment outcomes

- 1 OCT Thickness Maps
- 2 OCT Differential Thickness Map with color scale
- 3 True-color 45° fundus photograph
- 4 ETDRS thickness
- 5 Differential ETDRS
- 6 Intervisit-registered OCT B-scans



Line Reports

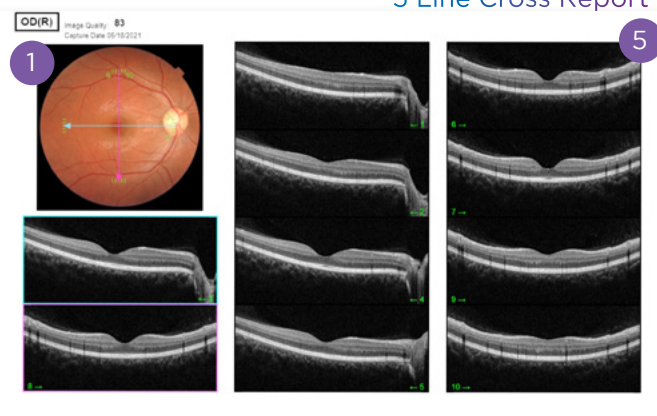
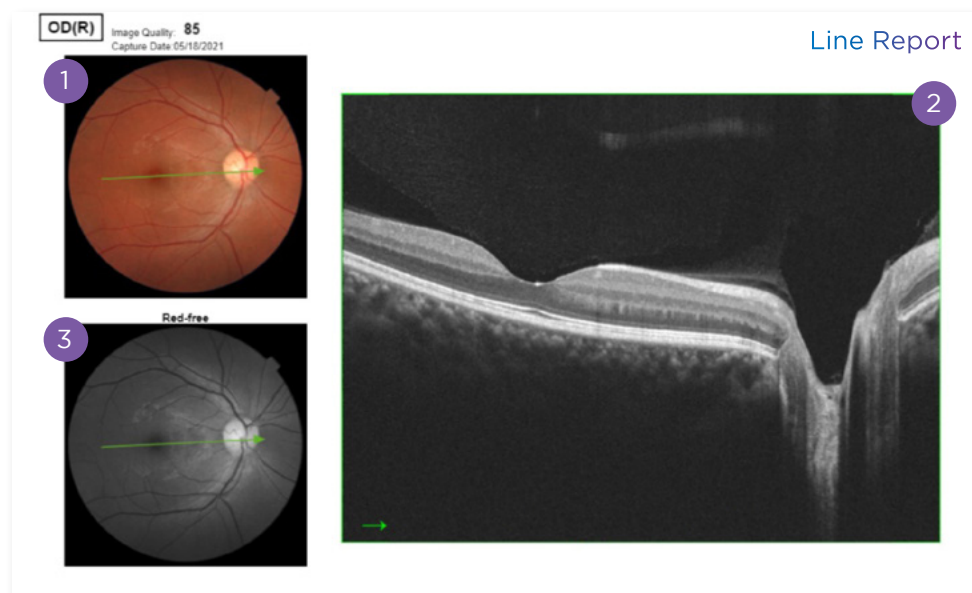


Line Report: 45° color and red-free fundus photograph with highest resolution OCT scan

5 Line Cross Report: 45° color and red-free fundus photographs with 5 horizontal and 5 vertical high resolution OCT scans with enlarged horizontal/vertical OCT Scans

5 Line Cross Report (Evenly): 45° color fundus photograph with 5 horizontal and 5 vertical high resolution OCT scans shown equally sized

- 1 True-color 45° fundus photograph with scan position(s)
- 2 OCT scan (any horizontal 5 Line Cross scan can be selected for printing)
- 3 Red-free 45° fundus photograph with scan position(s)
- 4 Vertical OCT scan (any vertical 5 Line Cross scan can be selected for printing)
- 5 Evenly sized OCT scans



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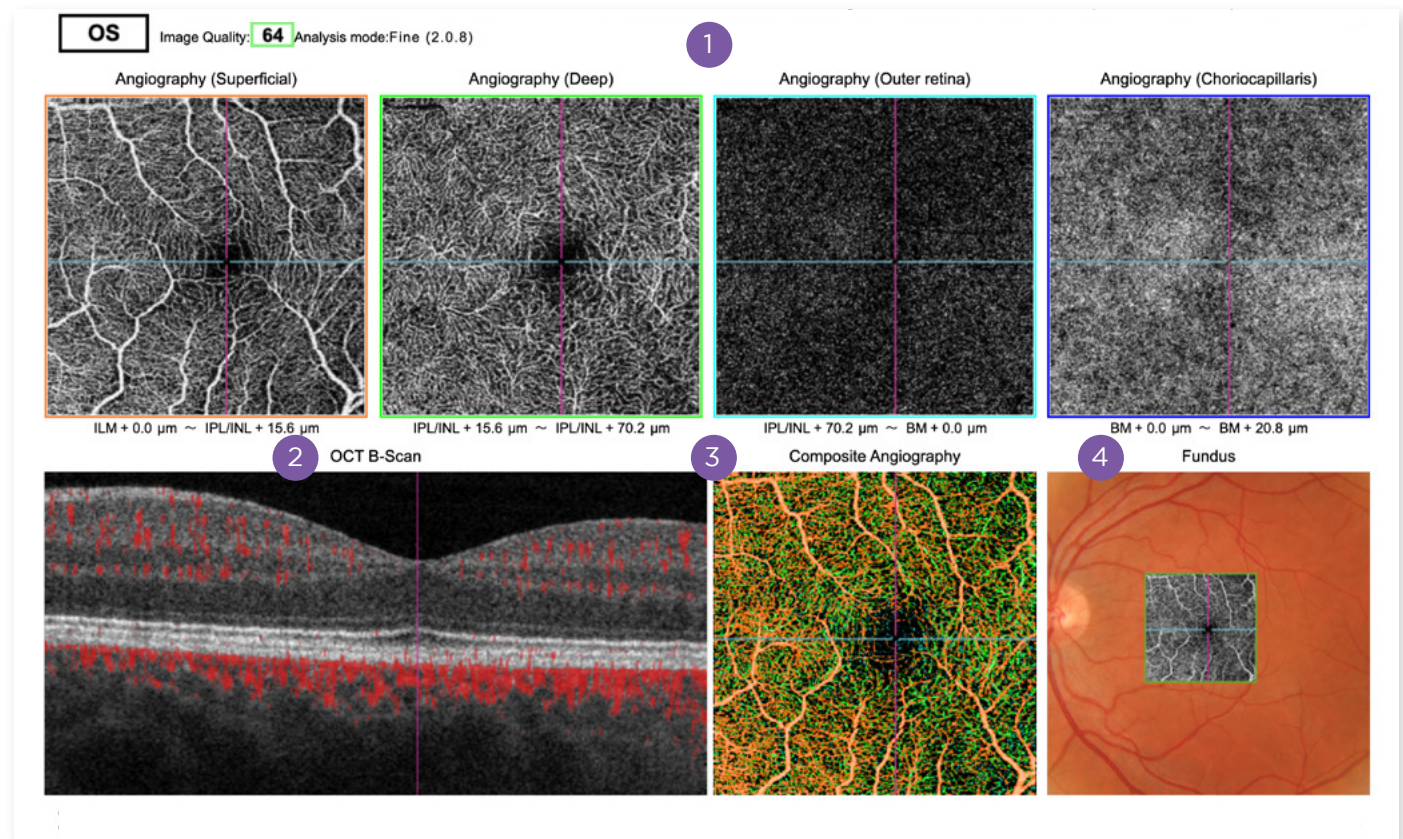
OCT Angiography Report - Standard View

Angio



- OCTA non-invasive imaging and visualization of retinal and choroidal vasculature
- Vascular flow is inferred by movement of red blood cells between successive OCT scans
- 3x3mm (pictured below), 4.5x4.5mm and 6x6mm cube scans

- 1 OCTA Angio slabs: Superficial, Deep, Outer Retina, and Choriocapillaris plexuses
- 2 Angio B view of OCT B-scan
- 3 Composite Angiography: Individual slabs are combined for this view. Vessels are color-coded to represent the tissue depth in which they lie and correspond to the border of the slab shown above.
- 4 Fundus image: An overlay can be turned off or on to display OCTA (shown here), Retina Thickness, RNFL Thickness, GCL++ Thickness, or GCL+ Thickness.



OCT Angiography Report - Standard View

En Face

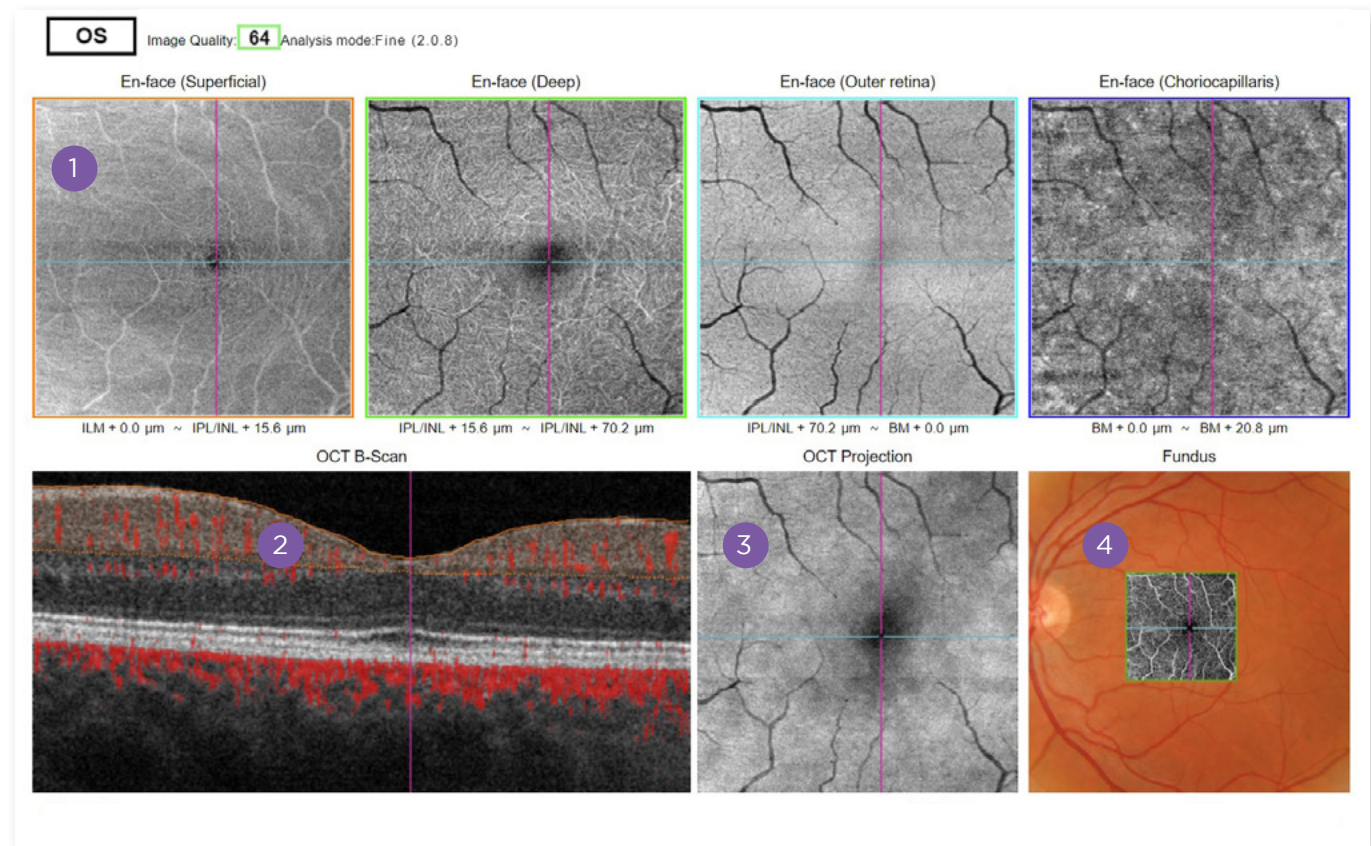


- This OCTA En Face Report is generated from Standard View of a 3x3mm, but can be generated from all available OCTA cube scans



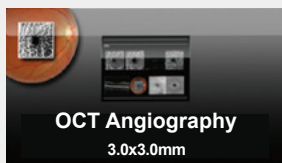
This novel OCT En Face report leverages OCTA high density B-scan volume to visualize retinal structures in fine detail.

- OCT structural En Face slabs: Superficial, Deep, Outer Retina, Choriocapillaris
- OCT B-Scan with Angio B visualization
- Display can be selected as OCT Projection (shown here), Retina Thickness, RNFL Thickness, GCL++ Thickness, and GCL+ Thickness
- Fundus Image. An overlay can be turned off or on to display OCTA (shown here), Retina Thickness, RNFL Thickness, GCL++ Thickness, or GCL+ Thickness



OCT Angiography Report - Standard View

Angio/En Face



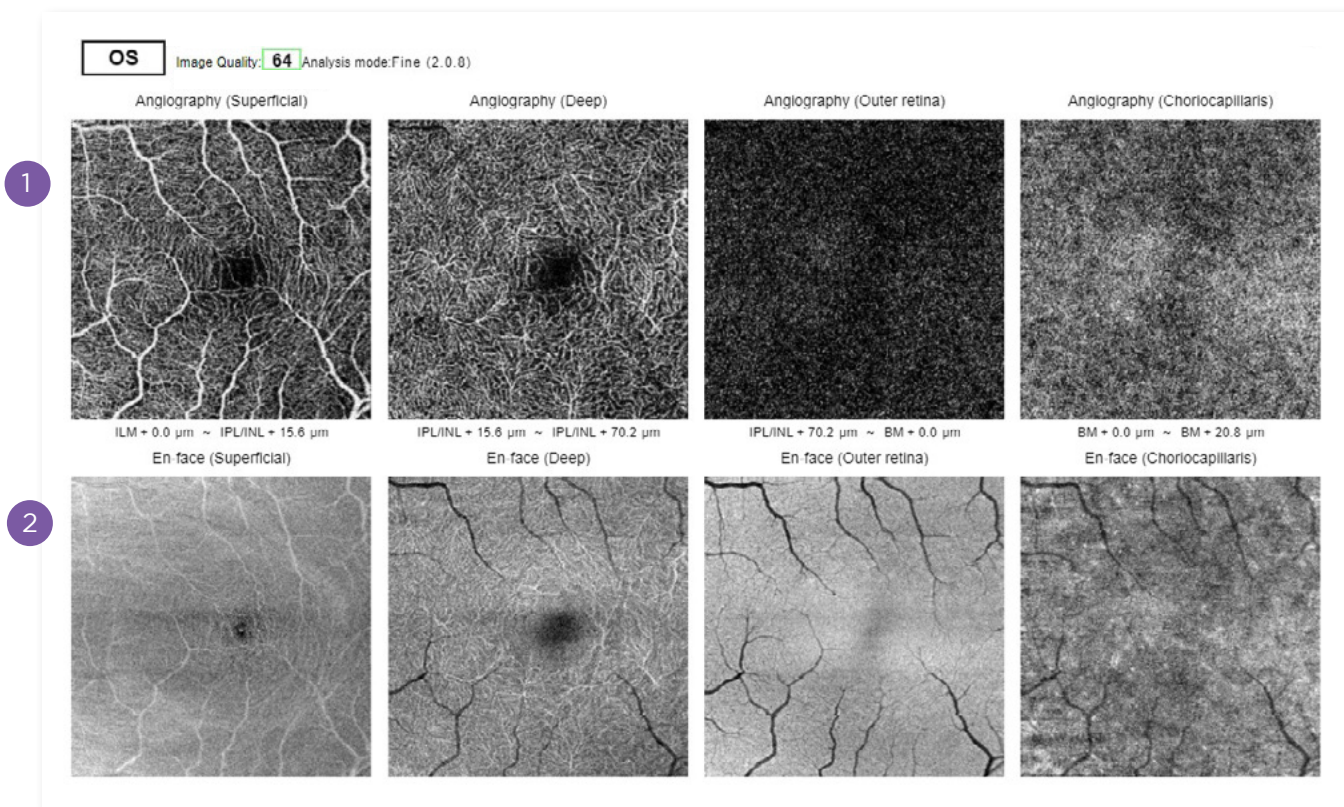
- This OCT Angiography and En Face Report is generated from Standard View of a 3x3mm scan, but can be generated from all available OCTA cube scans.



This novel report may be used in the assessment of AMD patients undergoing intravitreal therapy, for both wet and dry AMD.

1 OCTA Angio slabs: Superficial, Deep, Outer Retina, Choriocapillaris plexuses

2 OCT structural En Face slabs: Superficial, Deep, Outer Retina, Choriocapillaris



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OCT Angiography Report - Wide View

Angio



- This OCT Angiography Report is generated from Wide View of a 6x6mm scan, but can be generated from all available OCTA cube scans.

- 1 OCTA Angio Slabs: Retina, Outer retina, Vitreous, Choriocapillaris, Superficial, Choroid, Deep, and Sub-RPE
- 2 Selected slab, framed in orange, is shown in enlarged image
- 3 Enlarged image, as selected from left
- 4 Angio B view of OCTA B-Scan



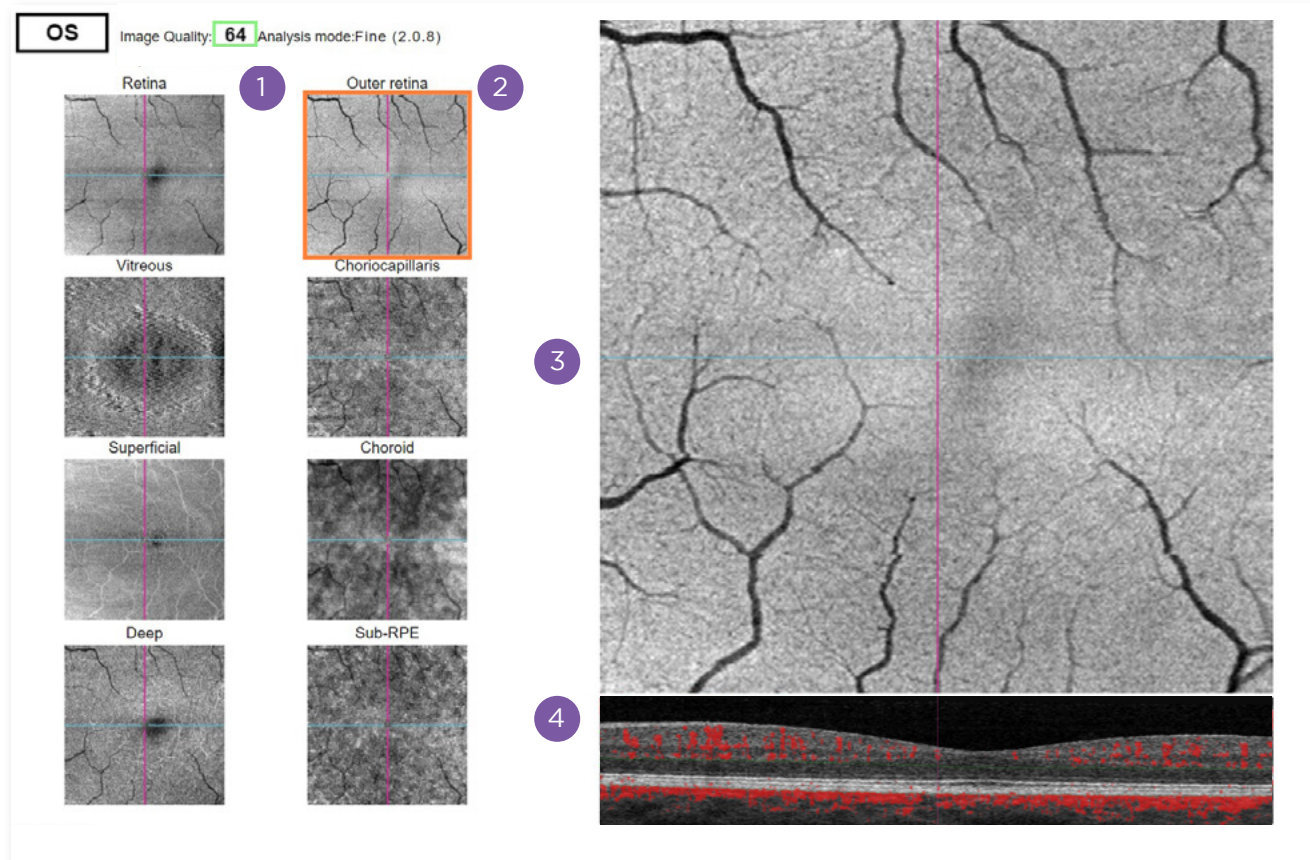
OCT Angiography Report - Wide View

En Face



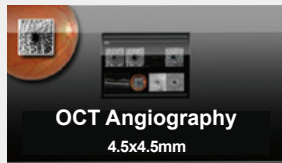
- This OCTA En Face Report is generated from Wide View of a 3x3mm scan, but can be generated from all available OCTA cube scans.

- OCT Structural En Face slabs: Retina, Outer retina, Vitreous, Choriocapillaris, Superficial, Choroid, Deep, Sub-RPE
- Selected slab, framed in orange, is shown in enlarged image.
- Enlarged slab as selected from the left
- Angio B view of OCT B-scan



OCT Angiography Report - Standard View

Angio Disc



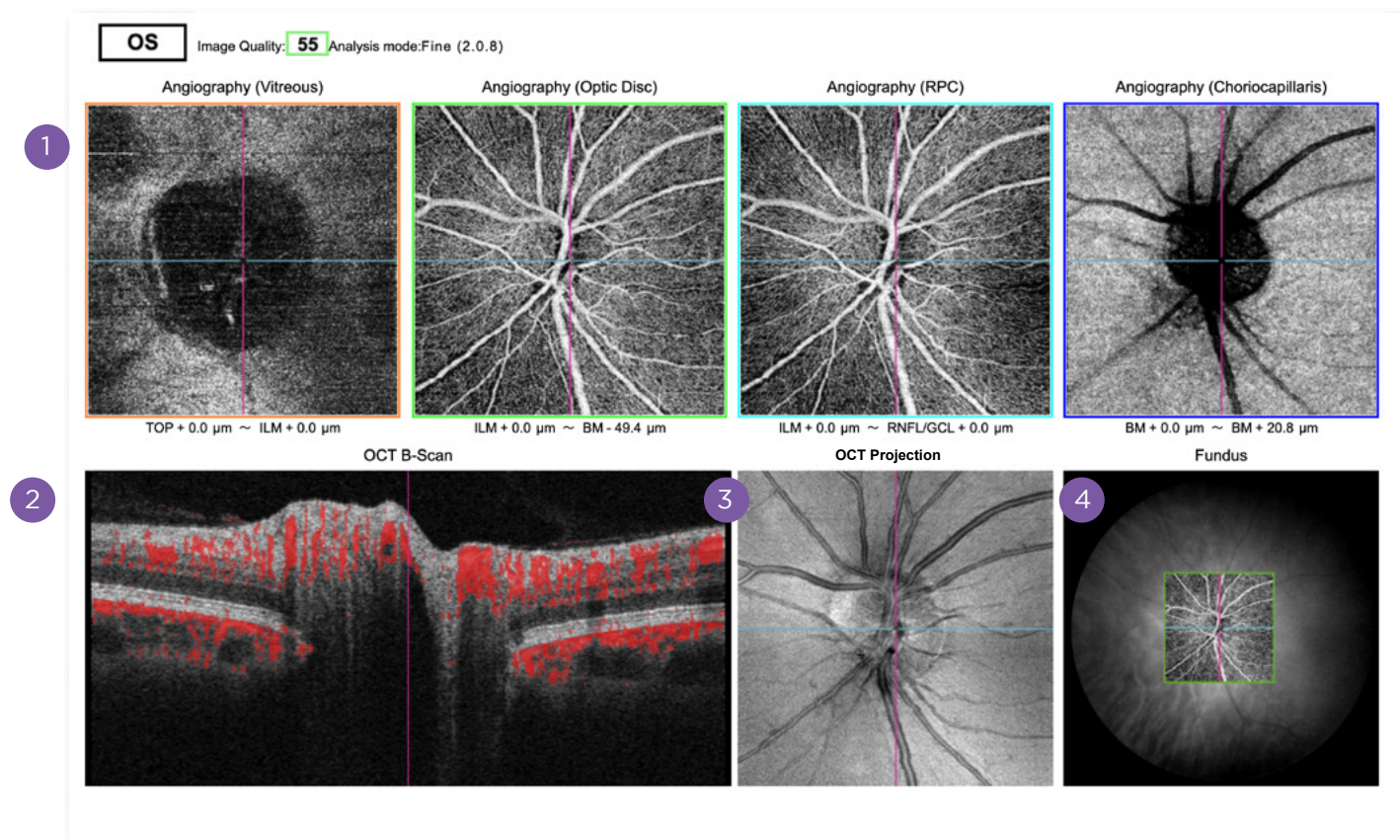
- This OCT Angio Disc Report is generated from a 4.5x4.5mm Angio Disc scan
- Unique OCTA scan slabs are featured in this analysis for the assessment of the optic nerve.

1 OCTA Angio Slabs: Vitreous, Optic Disc, RPC, Choriocapillaris

2 Angio view of OCT B-Scan

3 Display can be selected as OCT Projection (shown here), En Face, Retina Thickness, RNFL Thickness, GCL++ Thickness, and GCL+ Thickness

4 Fundus image: An overlay can be turned off or on to display OCTA (shown here), Retinal Thickness, RNFL Thickness, or GCL++ Thickness, GCL+



GLOSSARY OF TERMS

| | |
|------------------------------|---|
| Angio B | Color-coded OCT B-scan showing motion of blood flow |
| cpRNFL | Circumpapillary Retinal Nerve Fiber Layer |
| CDR | Cup-to-Disc Ratio |
| Composite Angiography | Vasculature and pathology are color-coded indicating depth in tissue |
| En Face | In OCTA, a top-down view of predefined or customized layers in tissue |
| ETDRS | Early Treatment Diabetic Retinopathy Study |
| GCL | Ganglion Cell Layer |
| GCL+ | GCL and IPL Layers |
| GCL++ | RNFL, GCL and IPL Layers |
| IPL | Inner Plexiform Layer |
| NSTIN | Nasal-Superior-Temporal-Inferior-Nasal |
| OCT | Optical Coherence Tomography |
| OD | Right Eye |
| OS | Left Eye |
| OU | Both Eyes |
| RPC | Radial Peripapillary Capillary Layer |
| RNFL | Retinal Nerve Fiber Layer |
| RPE | Retinal Pigment Epithelium |
| TSNIT | Temporal-Superior-Nasal-Inferior-Temporal |

OPTIC DISC AREA REFERENCE RANGES (Age 18-88)

| Scan Pattern | Minimum Disc Area (mm ²) | Maximum Disc Area (mm ²) |
|----------------|--------------------------------------|--------------------------------------|
| 3D Disc | 1.03 | 3.85 |
| 3D Wide | 1.25 | 3.97 |

LEARN MORE

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or scan here



*All OCT reports in this guide can be generated on Topcon Maestro OCTs with IMAGEnet® 6 software, unless otherwise noted.

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