JANE, DOE

ID:	0005446181	**Exam Date:**	17.01.2022
Sex:	F	**Exam Description:**	External Patient:
Birthdate:	16.03.1949		

altris AI

Advanced OCT Report

JANE, DOE

ID:	0005446181	**Exam Date:**	17.01.2022
Sex:	F	**Exam Description:**	External Patient:
Birthdate:	16.03.1949		

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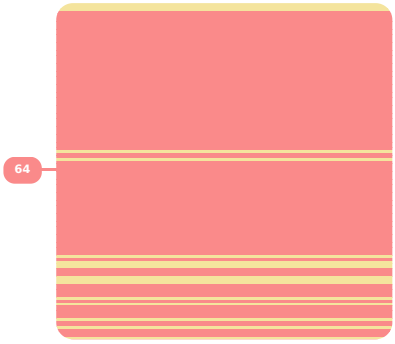
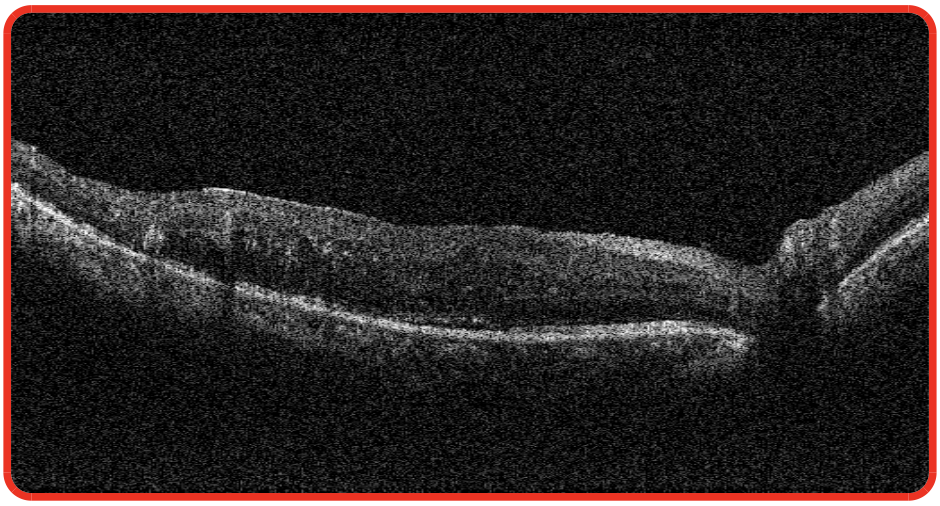
Scan severity

Right (OD) **Severity: Red** 64 / 128





No Severity (green): 0 / 128

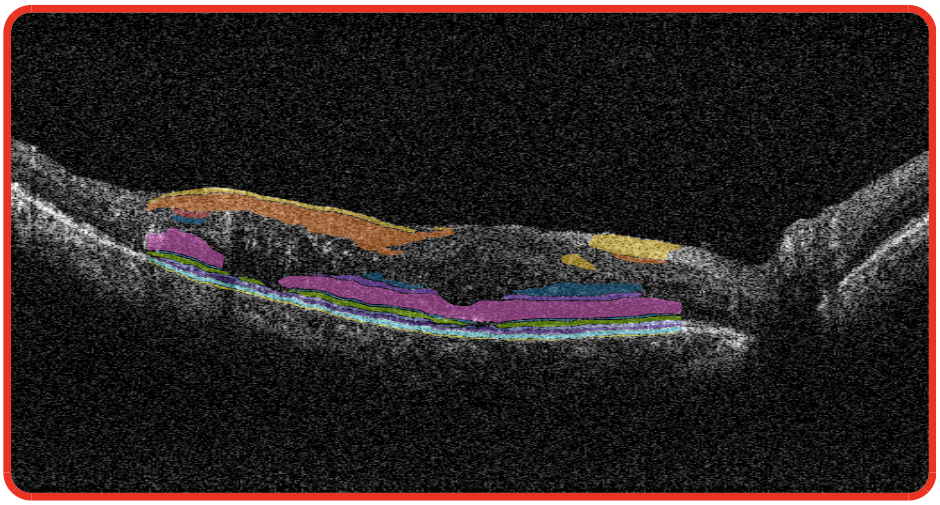
Moderate Severity (yellow): 17 / 128

Severe (red): 111 / 128

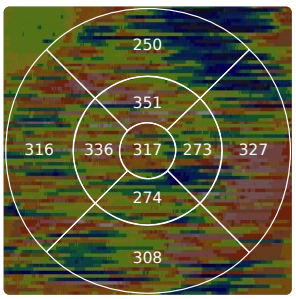
Retina layers

Right (OD) 64 / 128

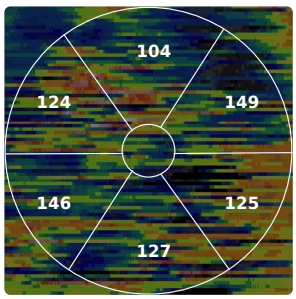
- **RNFL** (Retinal nerve fiber layer)
- **GCL** (Ganglion cell layer)
- **IPL** (Inner plexiform layer)
- **INL** (Inner nuclear layer)
- **OPL** (Outer plexiform layer)
- **ONL** (Outer nuclear layer + Henle`s nerve fiber layer)
- **ELM** (External limiting membrane)
- **MZ** (Myoid zone of the photoreceptors)
- **EZ** (Ellipsoid zone of the photoreceptors)
- **OS** (Outer segments of the photoreceptors)
- **RPE** (Retinal pigment epithelium)
- **BM** (Bruch's membrane)



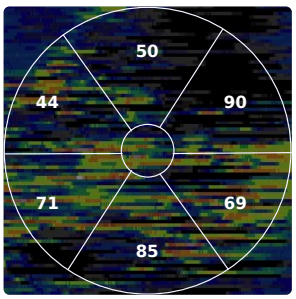
ETDRS Calculations



1/3/6 mm average thickness, µm



GCC thickness (RNFL+GCL+IPL)



GCC thickness (GCL+IPL)

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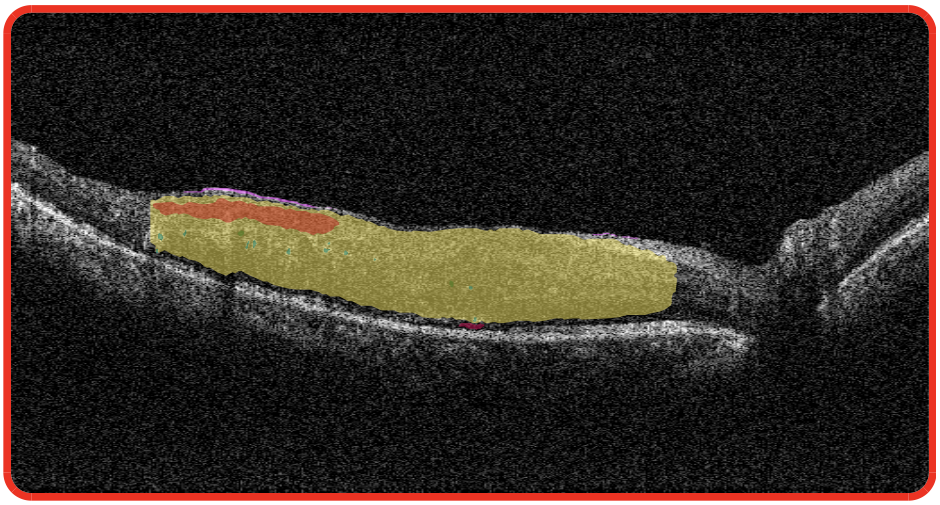
Pathologies detection — Right (OD)

Segmentation

64 / 128

- Diffuse edema
- Disorganization of retinal inner layers
- Epiretinal fibrosis
- Intraretinal cystoid fluid
- Intraretinal hyperreflective foci
- Subretinal fluid

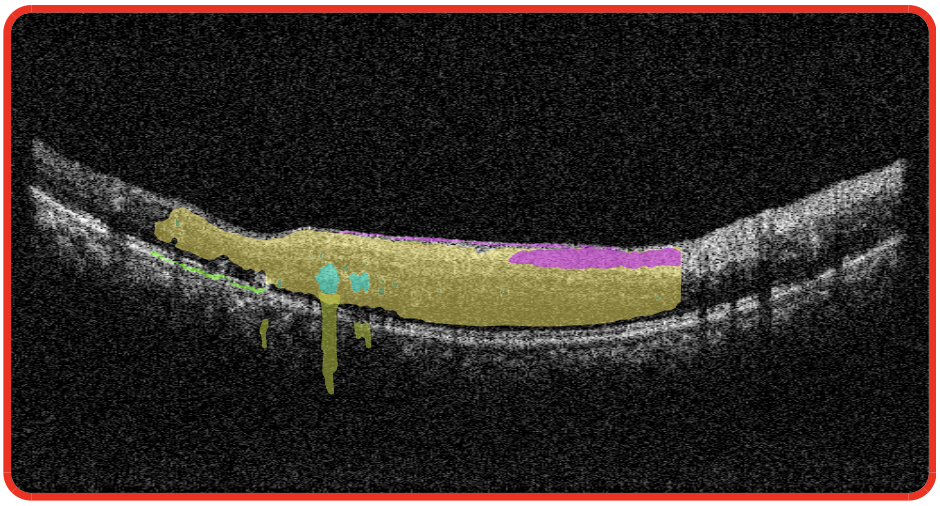


Classification: Diabetic macular edema | Diabetic retinopathy | Epiretinal fibrosis

Segmentation

23 / 128

- Diffuse edema
- Epiretinal fibrosis
- Hard exudates
- Hyperreflectivity of neurosensory retina
- Intraretinal hyperreflective foci
- RPE disruption
- Shadowing



Classification: Diabetic macular edema | Diabetic retinopathy

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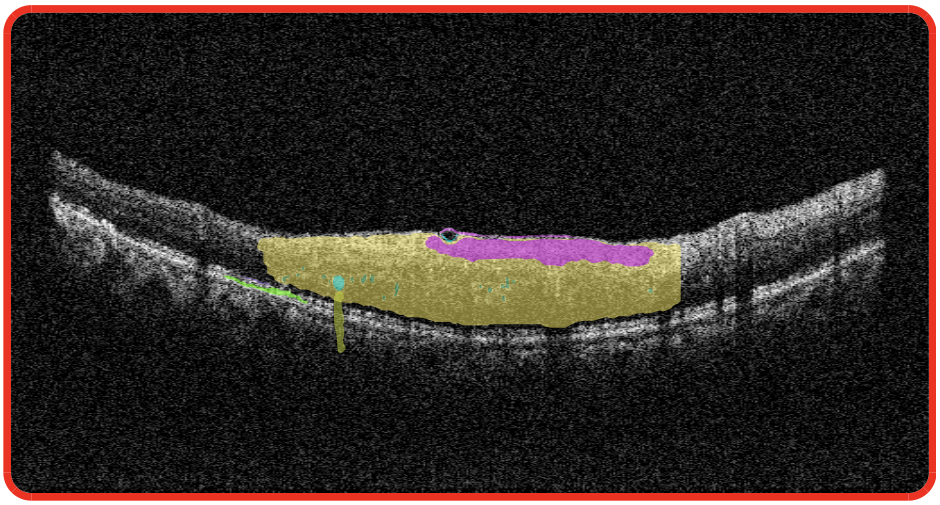
Pathologies detection — Right (OD)

Segmentation

17 / 128

- Diffuse edema
- Ellipsoid zone disruption
- Epiretinal fibrosis
- Hard exudates
- Hyperreflectivity of neurosensory retina
- Intraretinal hyperreflective foci
- RPE disruption
- Retinal wrinkling
- Shadowing

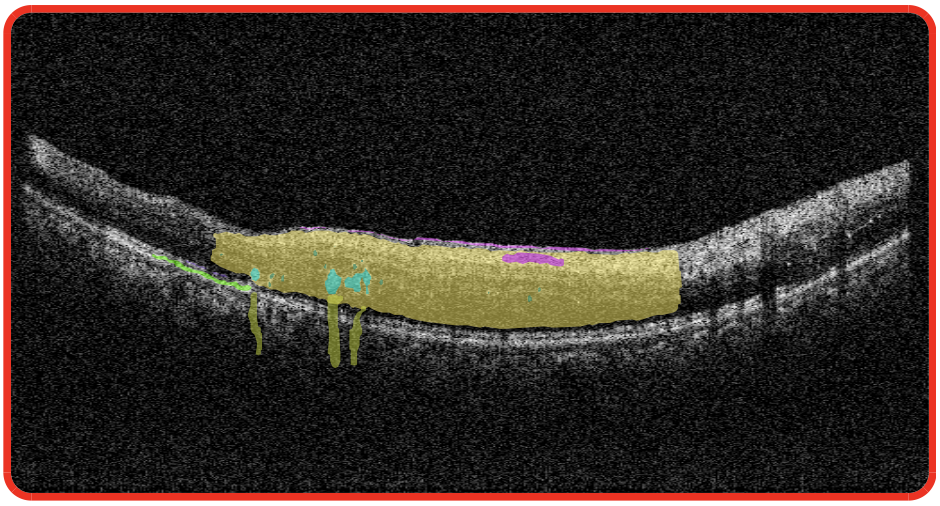


Classification: Diabetic macular edema | Diabetic retinopathy

Segmentation

25 / 128

- Diffuse edema
- Ellipsoid zone disruption
- Epiretinal fibrosis
- Hard exudates
- Hyperreflectivity of neurosensory retina
- Intraretinal hyperreflective foci
- RPE disruption
- Shadowing



Classification: Diabetic macular edema | Diabetic retinopathy

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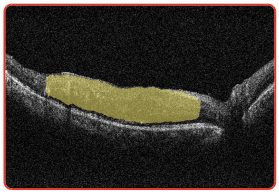
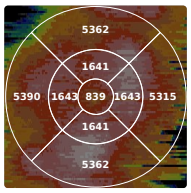
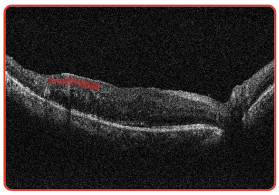
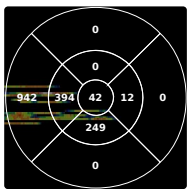
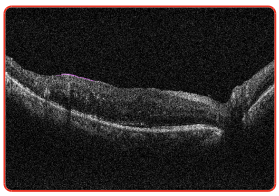
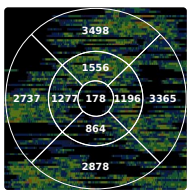
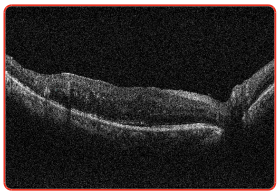
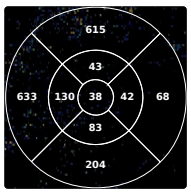
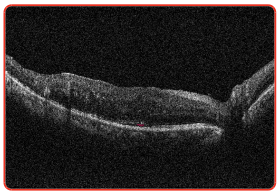
Pathologies Area and Volume — Right (OD) — Scan: 64

Name	Volume (mm^3) (ETDRS 1 mm)	Volume (mm^3) (ETDRS 3 mm)	Volume (mm^3) (ETDRS 6 mm)	B-scan area (mm^2)	B-scan area view	En face area view (mm^2 * 1000)
Diffuse edema	0.3026	2.8888	10.5276	2.4497		
Disorganization of retinal inner layers	0.0032	0.0521	0.1334	0.1868		
Epiretinal fibrosis	0.0018	0.0591	0.2004	0.0322		
Intraretinal cystoid fluid	0.0000	0.0051	0.0188	0.0047		
Intraretinal hyperreflective foci	0.0006	0.0058	0.0375	0.0181		
Subretinal fluid	0.0000	0.0057	0.0057	0.0076		

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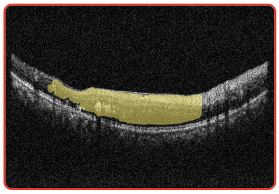
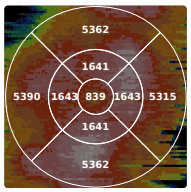
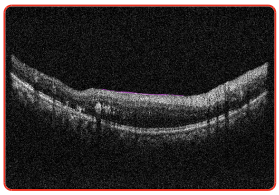
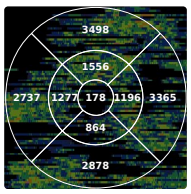
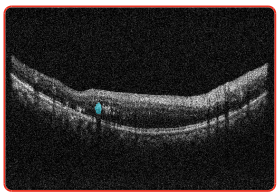
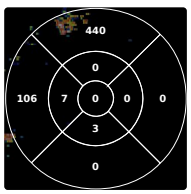
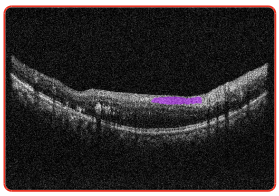
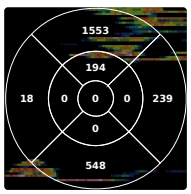
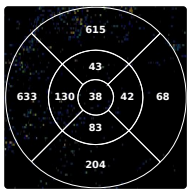
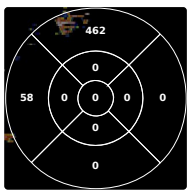
Pathologies Area and Volume — Right (OD) — Scan: 23

Name	Volume (mm^3) (ETDRS 1 mm)	Volume (mm^3) (ETDRS 3 mm)	Volume (mm^3) (ETDRS 6 mm)	B-scan area (mm^2)	B-scan area view	En face area view (mm^2 * 1000)
Diffuse edema	0.3026	2.8888	10.5276	1.9558		
Epiretinal fibrosis	0.0018	0.0591	0.2004	0.0495		
Hard exudates	0.0000	0.0003	0.0394	0.0539		
Hyperreflectivity of neurosensory retina	0.0000	0.0197	0.2015	0.1787		
Intraretinal hyperreflective foci	0.0006	0.0058	0.0375	0.0206		
RPE disruption	0.0053	0.0141	0.0265	0.0291		
Shadowing	0.0000	0.0000	0.1250	0.1263		

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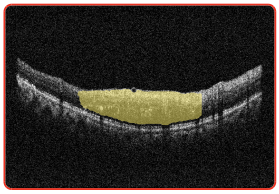
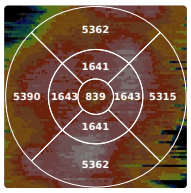
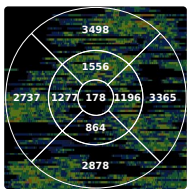
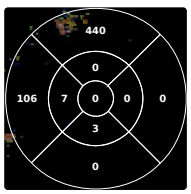
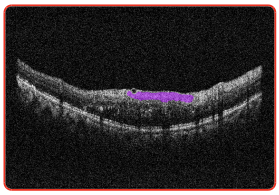
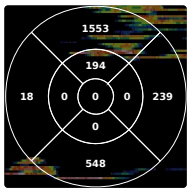
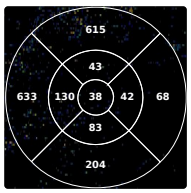
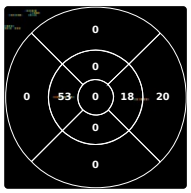
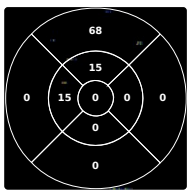
Pathologies Area and Volume — Right (OD) — Scan: 17

Name	Volume (mm^3) (ETDRS 1 mm)	Volume (mm^3) (ETDRS 3 mm)	Volume (mm^3) (ETDRS 6 mm)	B-scan area (mm^2)	B-scan area view	En face area view (mm^2 * 1000)
Diffuse edema	0.3026	2.8888	10.5276	1.825		
Epiretinal fibrosis	0.0018	0.0591	0.2004	0.0222		
Hard exudates	0.0000	0.0003	0.0394	0.0092		
Hyperreflectivity of neurosensory retina	0.0000	0.0197	0.2015	0.2677		
Intraretinal hyperreflective foci	0.0006	0.0058	0.0375	0.0311		
Ellipsoid zone disruption	0.0000	0.0008	0.0011	0.0044		
Retinal wrinkling	0.0000	0.0006	0.0020	0.0033		

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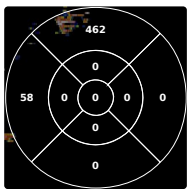
Pathologies Area and Volume — Right (OD) — Scan: 17

Name	Volume (mm^3) (ETDRS 1 mm)	Volume (mm^3) (ETDRS 3 mm)	Volume (mm^3) (ETDRS 6 mm)	B-scan area (mm^2)	B-scan area view	En face area view (mm^2 * 1000)
RPE disruption	**0.0053**	**0.0141**	**0.0265**	**0.0262**		
Shadowing	**0.0000**	**0.0000**	**0.1250**	**0.0343**		

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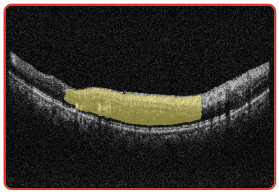
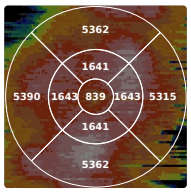
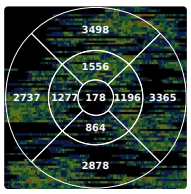
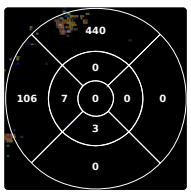
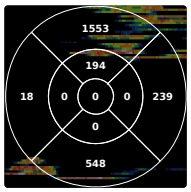
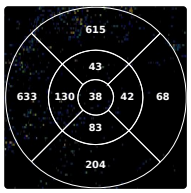
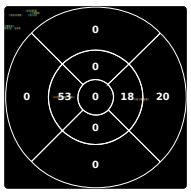
Pathologies Area and Volume — Right (OD) — Scan: 25

Name	Volume (mm^3) (ETDRS 1 mm)	Volume (mm^3) (ETDRS 3 mm)	Volume (mm^3) (ETDRS 6 mm)	B-scan area (mm^2)	B-scan area view	En face area view (mm^2 * 1000)
Diffuse edema	0.3026	2.8888	10.5276	1.8671		
Epiretinal fibrosis	0.0018	0.0591	0.2004	0.0502		
Hard exudates	0.0000	0.0003	0.0394	0.0484		
Hyperreflectivity of neurosensory retina	0.0000	0.0197	0.2015	0.035		
Intraretinal hyperreflective foci	0.0006	0.0058	0.0375	0.0165		
Ellipsoid zone disruption	0.0000	0.0008	0.0011	0.0061		
RPE disruption	0.0053	0.0141	0.0265	0.0308		

JANE, DOE

ID:	0005446181	**Exam Date:**	17.01.2022
Sex:	F	**Exam Description:**	External Patient:
Birthdate:	16.03.1949		

This report cannot be considered a clinical diagnosis report. AI/ML components/models/applications used for the report are intended for research purposes and decision support assistance only.

Pathologies Area and Volume — Right (OD) — Scan: 25

Name	Volume (mm^3) (ETDRS 1 mm)	Volume (mm^3) (ETDRS 3 mm)	Volume (mm^3) (ETDRS 6 mm)	B-scan area (mm^2)	B-scan area view	En face area view (mm^2 * 1000)
Shadowing	0.0000	0.0000	0.1250	0.1228		

JANE, DOE

ID:	0005446181	**Exam Date:**	17.01.2022
Sex:	F	**Exam Description:**	External Patient:
Birthdate:	16.03.1949		

This report cannot be considered a clinical diagnosis report. AI/ML components/models/applications used for the report are intended for research purposes and decision support assistance only.

Glaucoma Risk analysis is unavailable for this examination.
This could be due to:

- **Pathologies present in the scans affecting the GCC complex, making accurate calculation impossible.**
- **One of the thicknesses out of boundaries of 125 µm**