About Analyzer

Logjn SIgnUP

Automated Fundus Image Analysis for Glaucoma Detection

A Smart AI Glaucoma Analyzer: The Future of Vision Preservation

About

Automated Fundus Image Analysis for Glaucoma Detection or FIA-G (Findus Image Analysis - Glaucoma)

FIA-G (Findus Image Analysis - Glaucoma) is equipped with advanced Imaging algorithms to help detect an early onset of Glaucomatous disc damage. Built with the insight from numerous industry experts, FIA-G analyses three different parameters to detect glaucoma. It estimates glaucomatous disc damage with high accuracy and precision.

Analyze glaucoma with three risk Factors

CDR Test

Estimates Glaucoma damage in the retina and optic nerve. With futures like Vertical CDR & Horizontal CDR, Cup to Disc Ratio (CDR) analysis is now more accurate and reliable than ever before.

ISNT Test

The changes in the appearance of neuro retinal rim holds the key to quantifying glaucomatous disc damage. The Analyzer carefully examines the neuro retinal rim, the pattern of thickness and areas of focal thinning.

DDLS Test

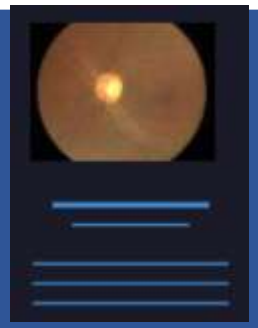
Disc Damage Likelihood Scale (DDLS) is a reproducible method of estimating the amount of optic nerve damage caused by glaucoma. Taking advantage of the smart algorithms, analyzer accurately stages the optic nerve according to the DDLS.

Work Process

Patient visits the doctor to get his eyes examined

Doctor scans the eye using advanced fundus camera

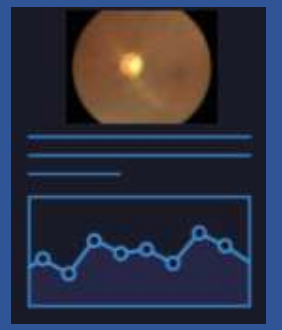
Fundus Image



Fundus image is sent to FIA-G Server.

FIA-G

FIA-G analysis



FIA-G analyses the images & sends back the result

Doctor makes an informed decision based on the analysis.

Cup to Disc Ratio

Fundus Image
(Uploaded for processing in FIA-G)

Detected Blood vessels

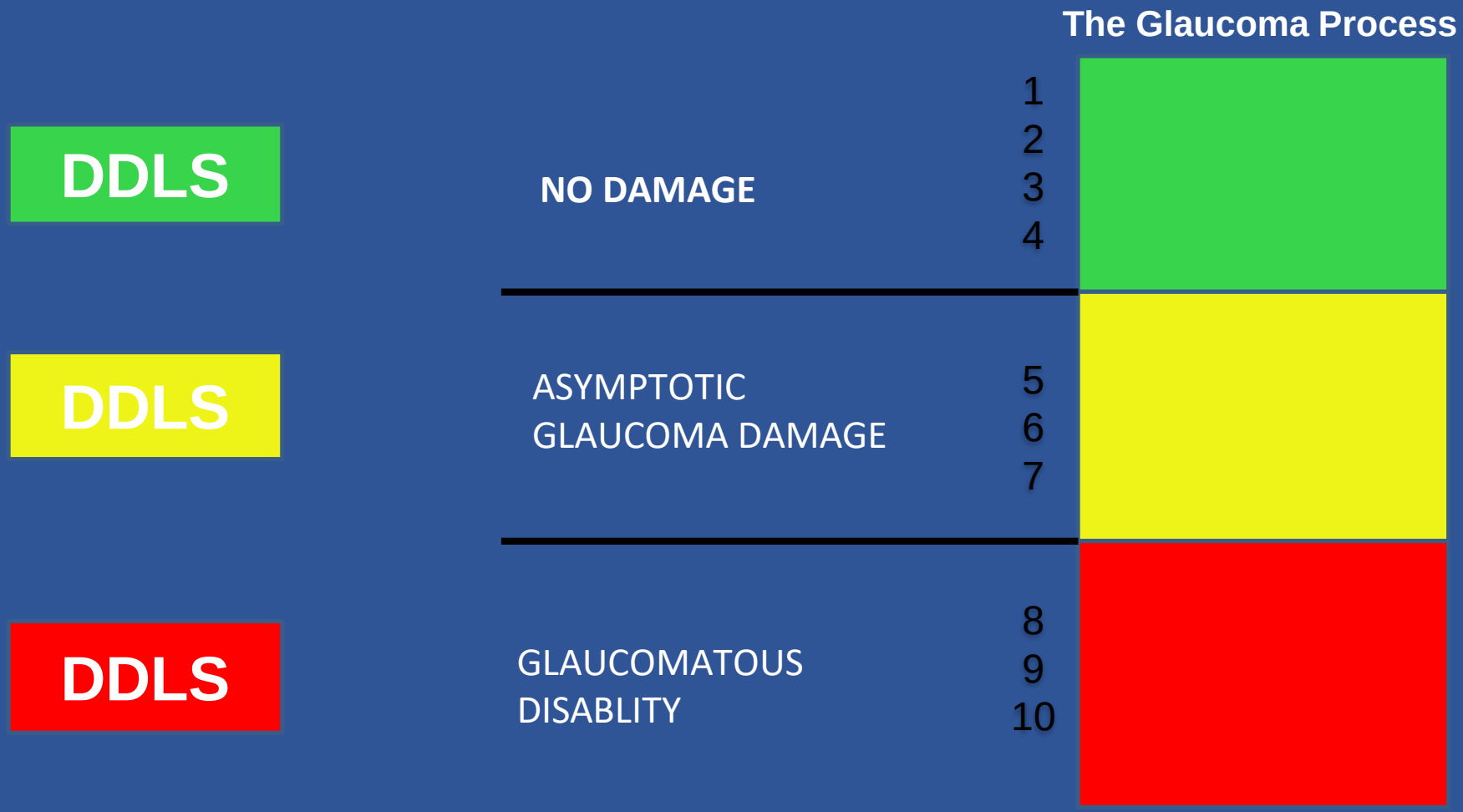
Blood vessels Implanted

Cup gets detected

Disc gets detected

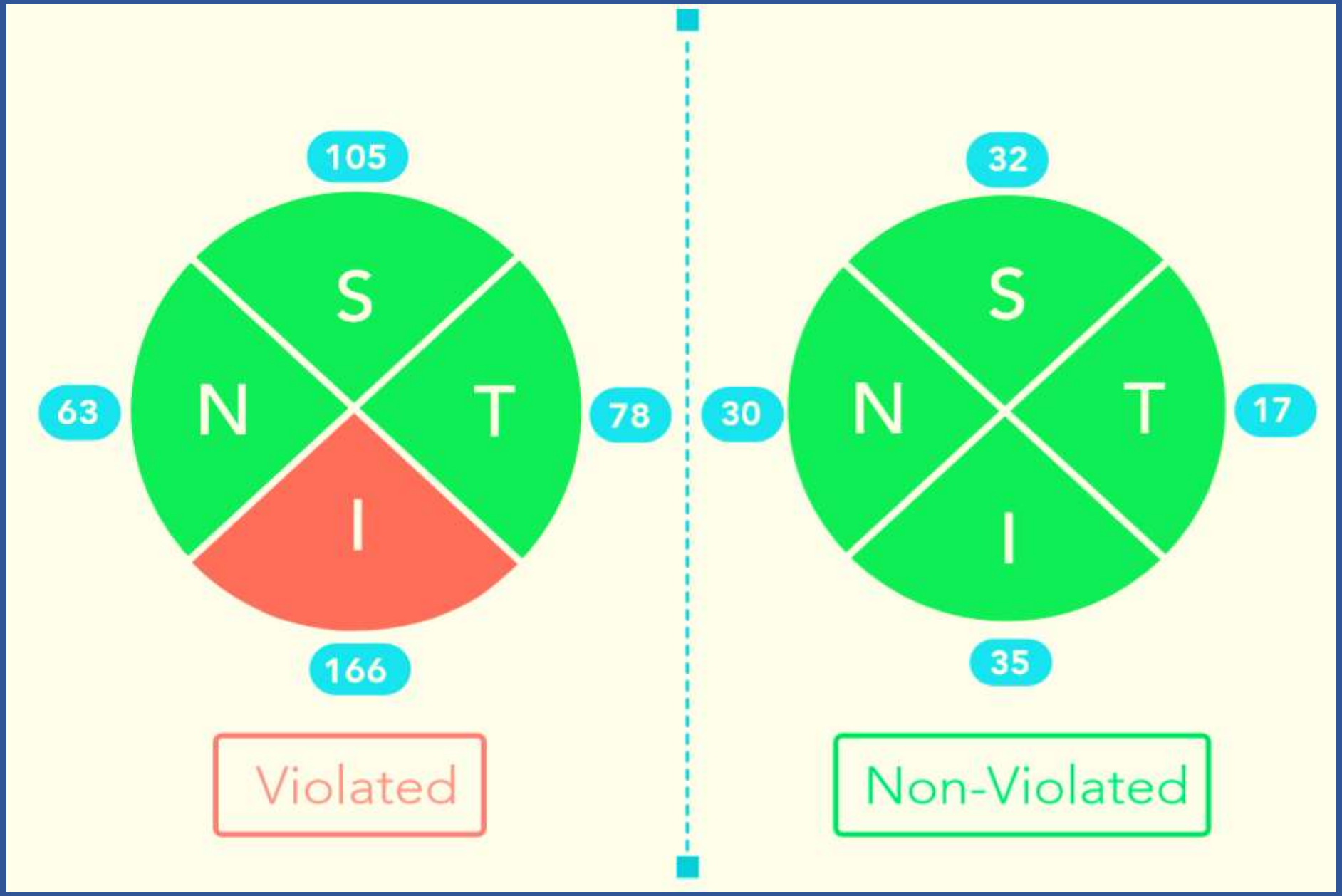
Features for CDR	
Rim Area	
Disc Area	14808
Avg. CDR	0.53
Horizontal CDR	0.51
Vertical CDR	0.55

Disc Damage Likelihood Scale



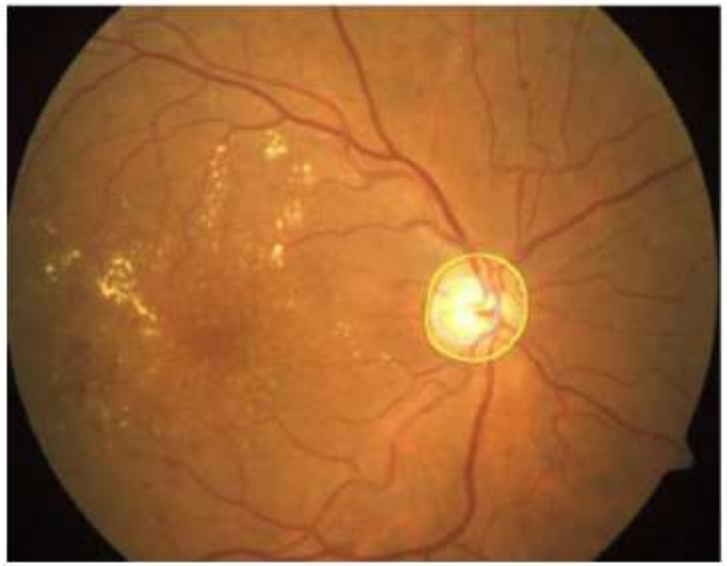
FIA-G uses a color coding standards to help differentiate between a glaucomatous eye & a normal healthy eye. 1-4 on DDLS scale shows a green color, 5-7 shows a yellow color & anything above 7 on DDLS scale shows a red color which means the person is having glaucoma.

Inferior Superior Nasal Temporal

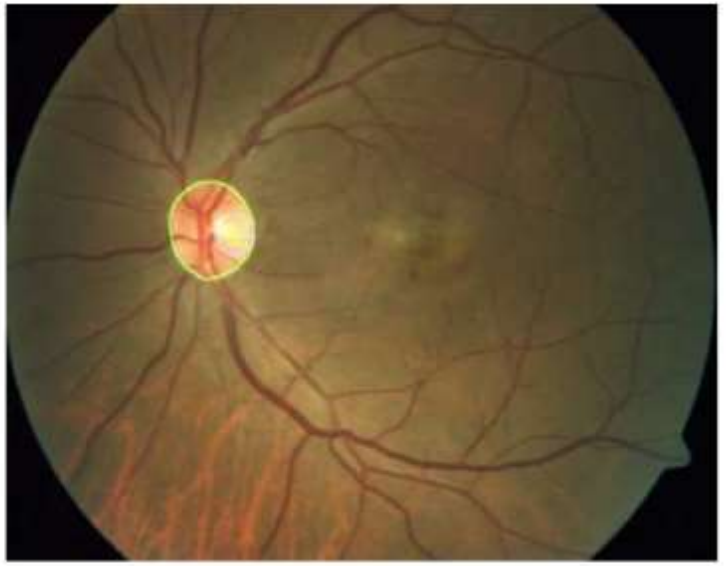


Final Report

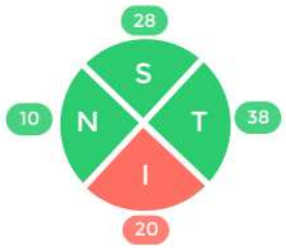
Patient Name: PREF ID:

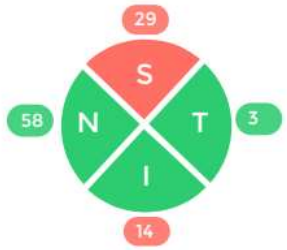


FEATURES		
11043	Rim Area	11043
14808	Disc Area	14808
14808	Avg. CDR	14808
0.51	Horizontal CDR	0.51
0.51	Vertical CDR	0.51



ISNT RULE





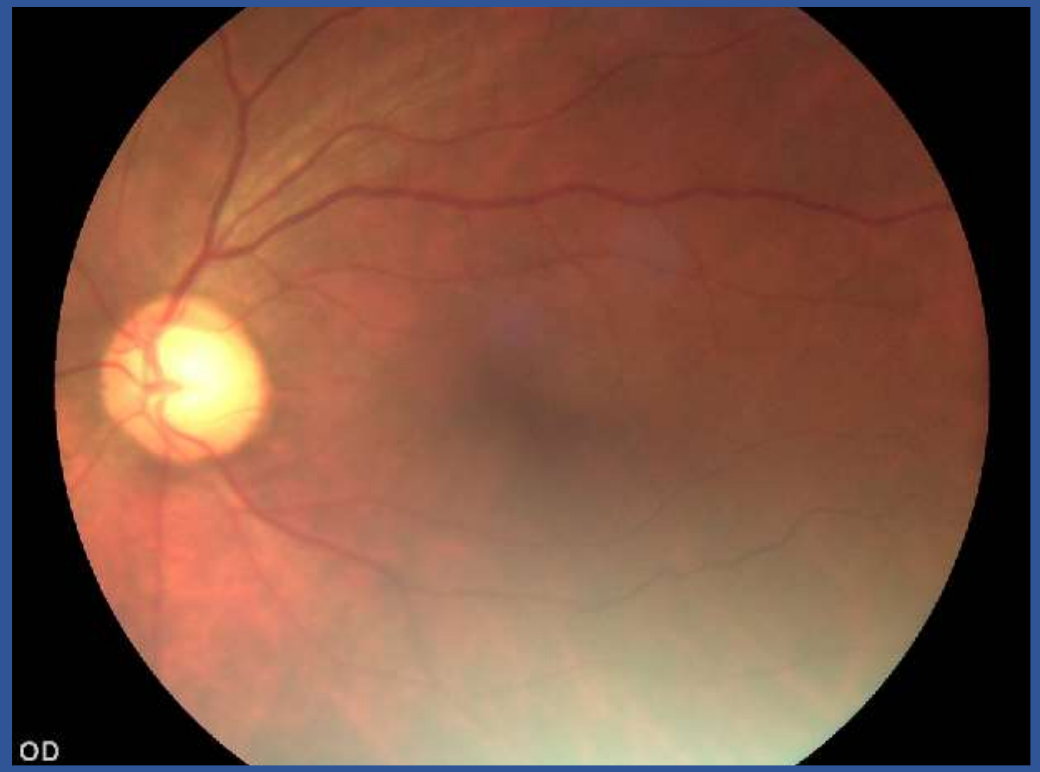
DDLS

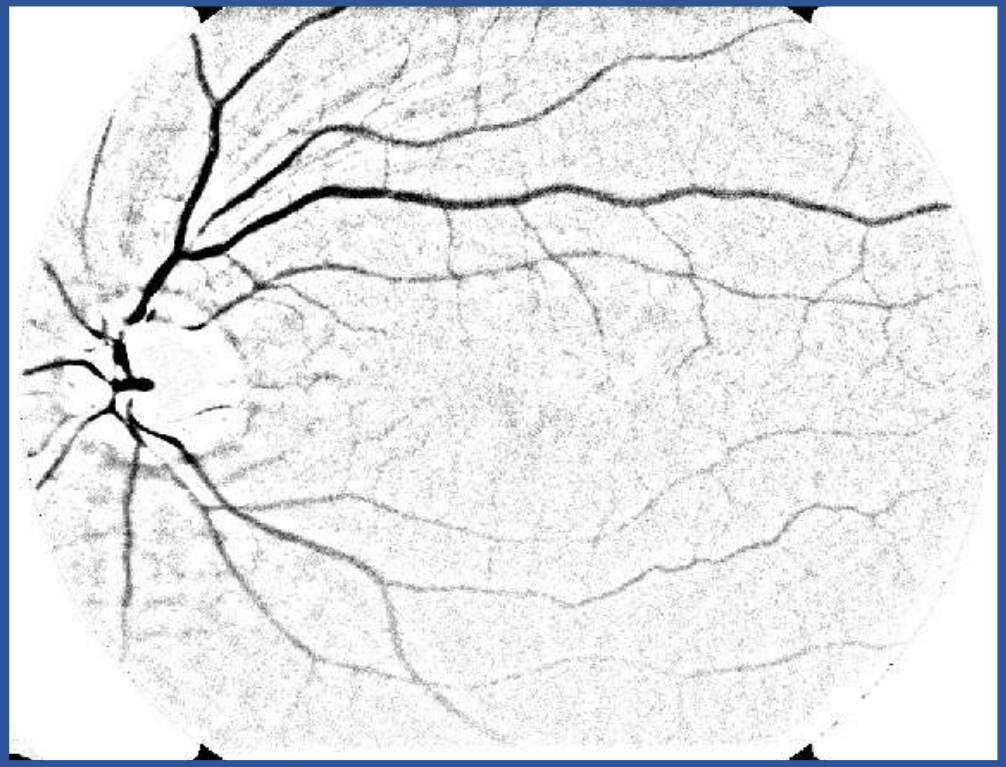
DDLS

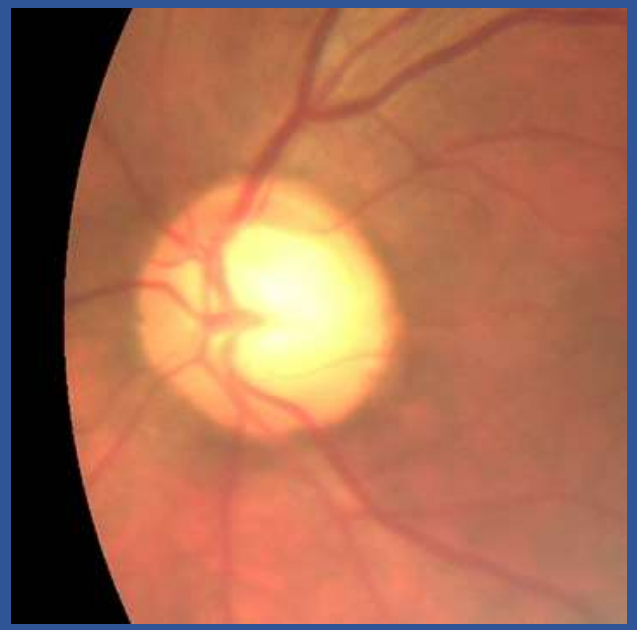
4

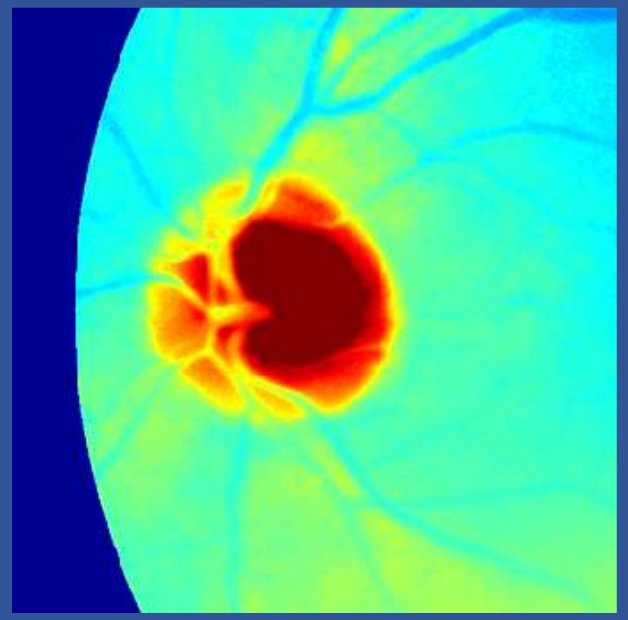
DDLS

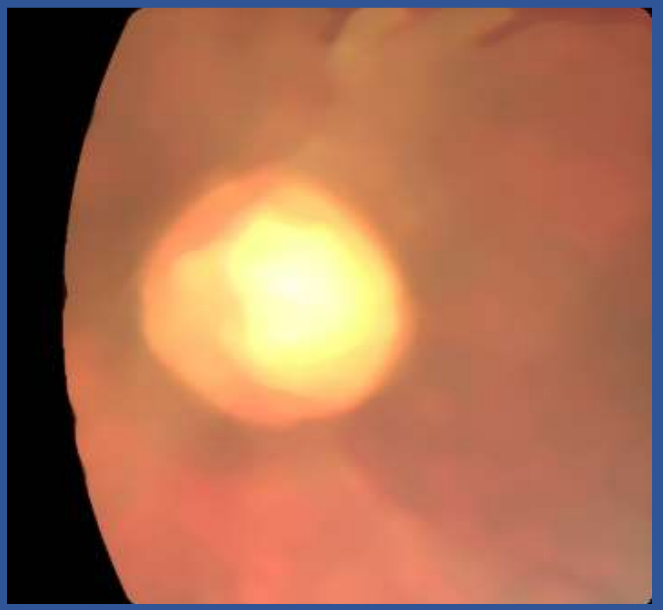
7


OD









Disk Vertical Diameter : 153
Disk Horizontal Diameter : 148
Cup Vertical Diameter : 107
Cup Horizontal Diameter : 107
Horizontal CDR: 0.72297
Vertical CDR : 0.69935

Disk Area : 17148
Cup Area: 9074
Cup to Disk Area Ratio : 0.52916

Minimum Rim Width : 9.434
Rim To Disk Diameter Ratio : 0.067165
Rim Area: 8074
DDLS Stage(New): 4; DDLS Stage(Old): 2

Inferior Distance : 0.27174
Superior Distance : 0.26087
Nasal Distance : 0.32609
Temporal Distance : 0.1413
Violates ISNT Rule