

# ERG Testing in Clinical Practice

## ERG Case Review: Glaucoma Suspect

Case ID: 14GS

Patient Work-Up	
Gender	Female
Age	56
Ethnicity	White
Complaints/Symptoms	None
Personal History	Glaucoma
IOP (mmHg) OD	21
IOP (mmHg) OS	20
Refraction OD	+2.25
Refraction OS	+2.00
VCVA OD	20/20
VCVA OS	20/20
Preliminary Diagnosis	Glaucoma Suspect

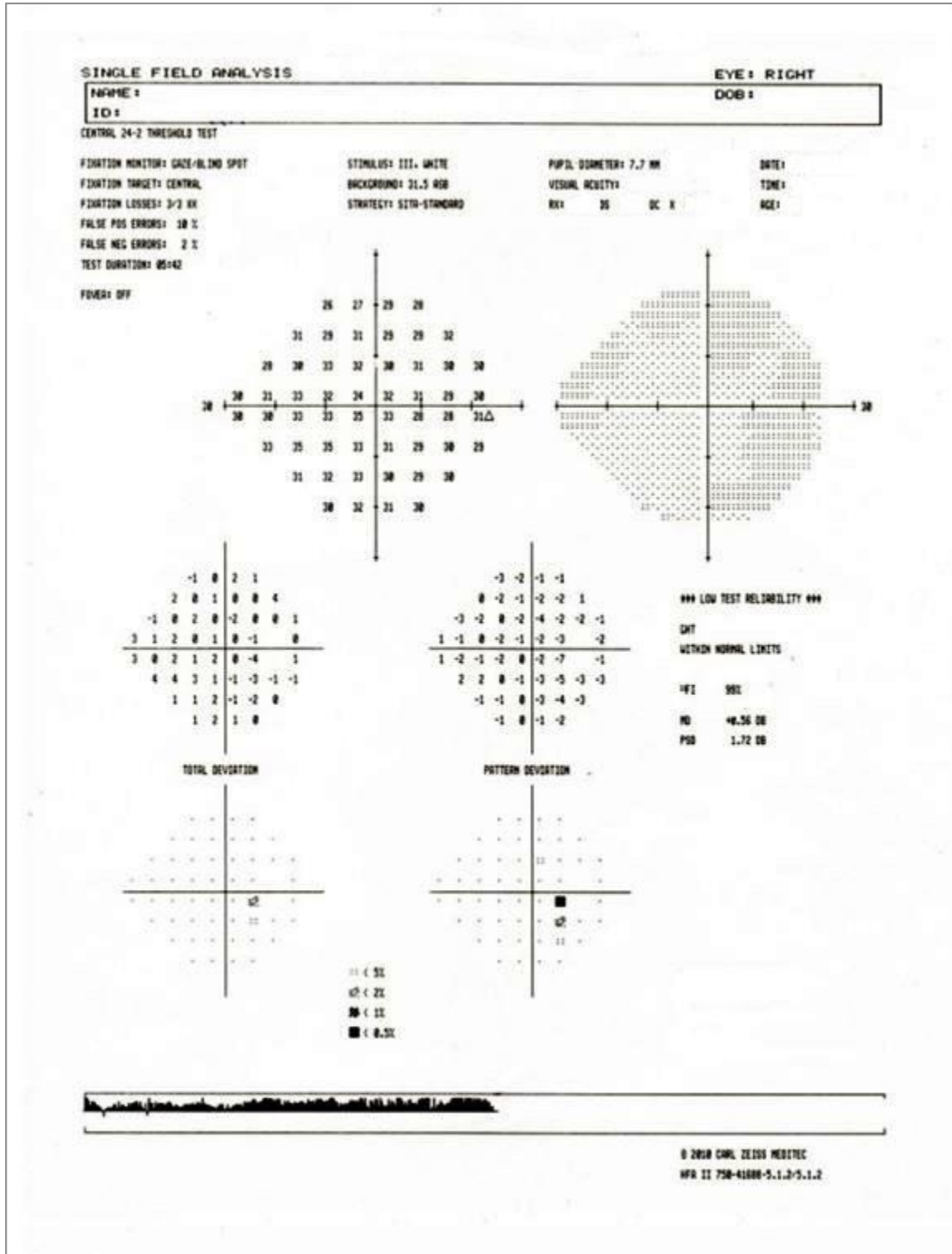
### Tests Performed

- **OCT:** shows normal thickness OU, and a borderline thinning of the RNFL in the temporal sector OD.
- **Visual Field:** within normal limits with a Glaucoma Hemifield Test (GHT) also within normal limits OU.
- **ERG Contrast Sensitivity Protocol:** shows acceptable statistical ranges of Magnitude and MagnitudeD.

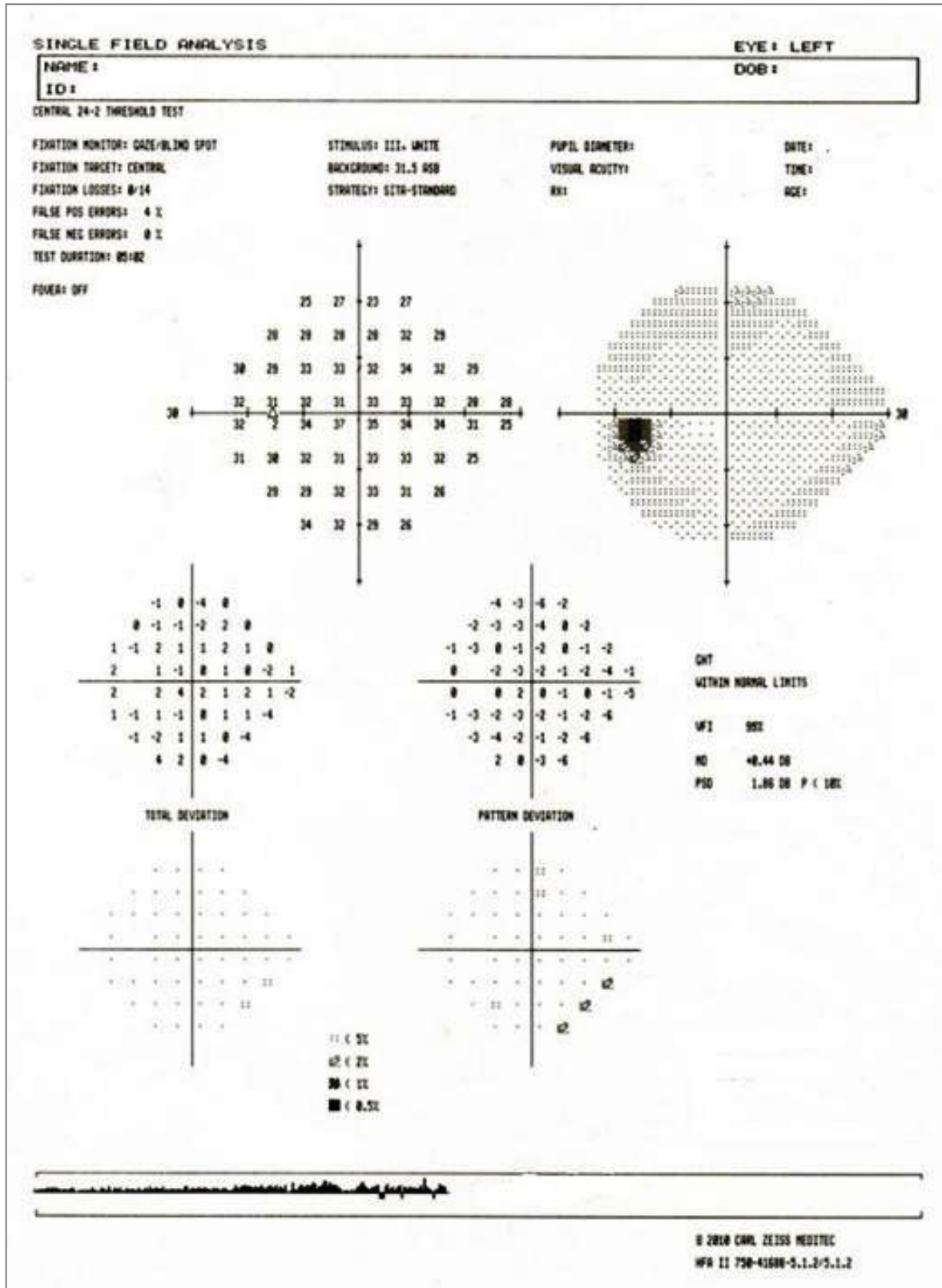
### Conclusion

This patient is a Glaucoma suspect due to a family history of glaucoma, optic disc appearance and borderline IOP. ERG findings suggest normal retinal function. The clinician chose not to treat this patient and to follow the patient annually.

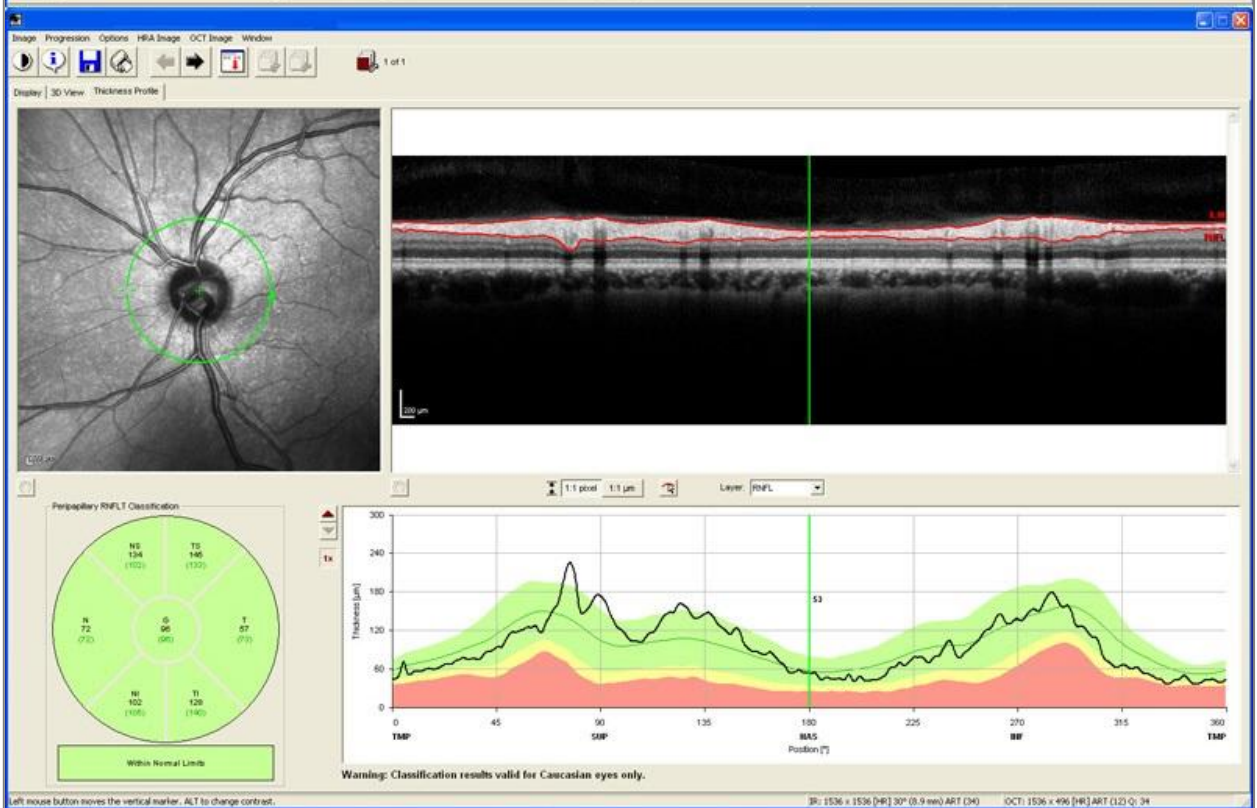
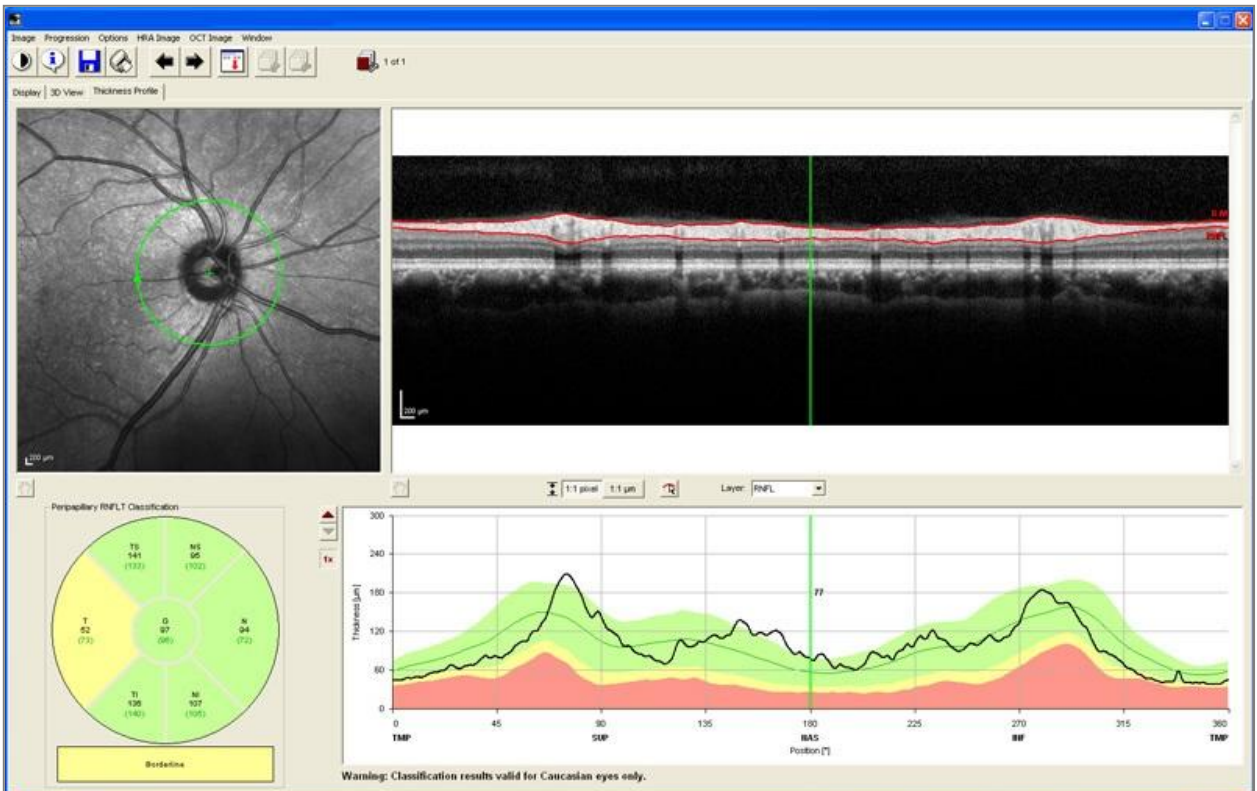
# Visual Field - OD



# Visual Field - OS



# OCT



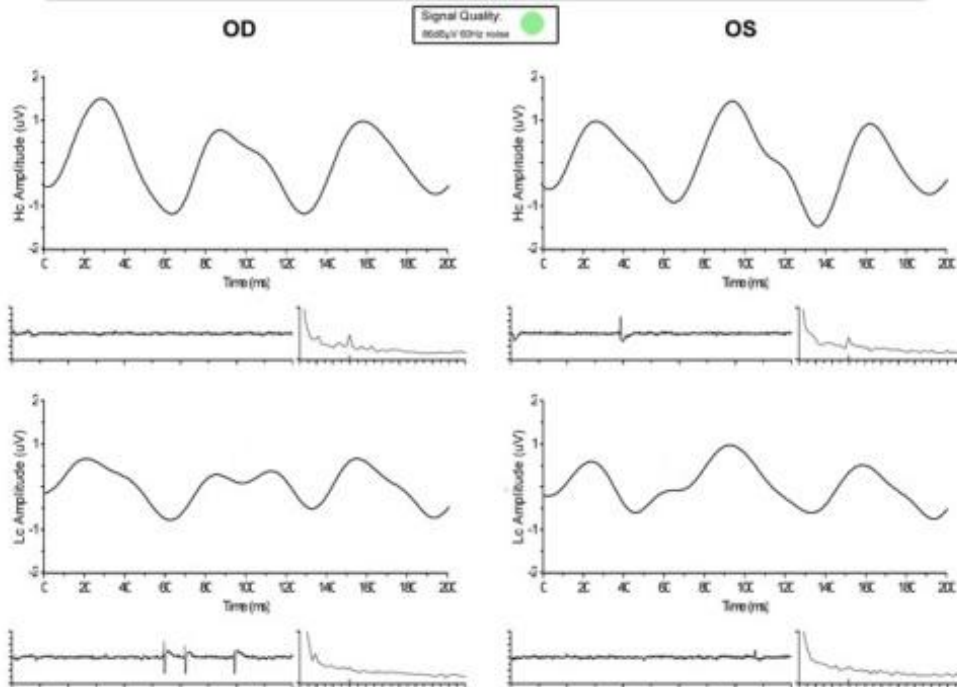
Left mouse button moves the vertical marker. ALT to change contrast.

IR: 1536 x 1536 [4R] 3P (0.9 mm) ART (3H) OCT: 1536 x 496 [4R] ART (L2) Q: 34

# ERG - Contrast Sensitivity

## DIOPSYS NOVA-ERG OFFICE BASED PATTERN ELECTRORETINOGRAPHY TESTING CONTRAST SENSITIVITY

First Name: \_\_\_\_\_ DOB: \_\_\_\_\_  
 Last Name: \_\_\_\_\_ Age: \_\_\_\_\_  
 Gender: \_\_\_\_\_  
 Exam Date: \_\_\_\_\_ OD: \_\_\_\_\_ BCVA: \_\_\_\_\_  
 Exam Time: \_\_\_\_\_ OS: \_\_\_\_\_ BCVA: \_\_\_\_\_



Parameter	OD Hc	OD Lc	OS Hc	OS Lc
Magnitude (uV)	1.42	0.92	1.28	0.95
MagnitudeD	1.22	0.59	1.14	0.66
SNR @ 15Hz	13.6	2.3	8.9	2.6
Artifacts	0	0	0	0

Operator: \_\_\_\_\_

Comments: - Grating Size: 64

Signature: \_\_\_\_\_