

VEP Testing in Clinical Practice

VEP Case Review: Pre-Parametric Open Angle Glaucoma

Case ID: 4PG

Patient Work-Up	
DOB	10/1953
Gender	Female
Age	58
Ethnicity	White
Family History	Glaucoma (1)
IOP (mmHg) OD	21
IOP (mmHg) OS	22
Refraction OD	-2.00 -0.50 x 76
Refraction OS	-2.00
BCVA OD	20/20
BCVA OS	20/20
Preliminary Diagnosis	Pre-Parametric Open Angle Glaucoma

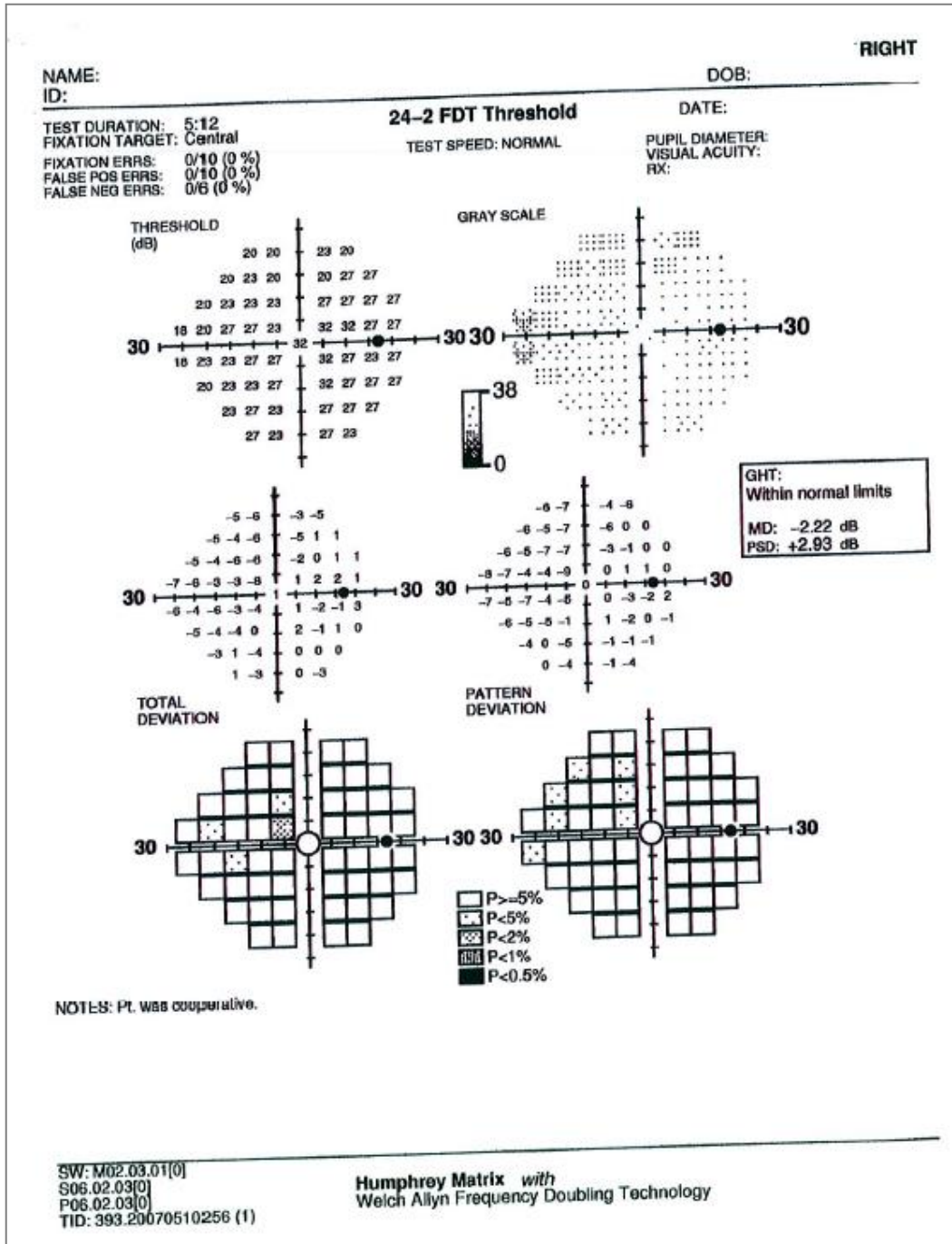
Tests Performed

- **Visual Field:** OU within normal limits.
- **OCT:** RNFL outside normal limits in the inferior temporal sector of OD; borderline sectors temporal and superior temporal. RNFL within normal limits OS.
- **VEP:** shows significantly different low contrast latencies between eyes, with the longer delay OD.

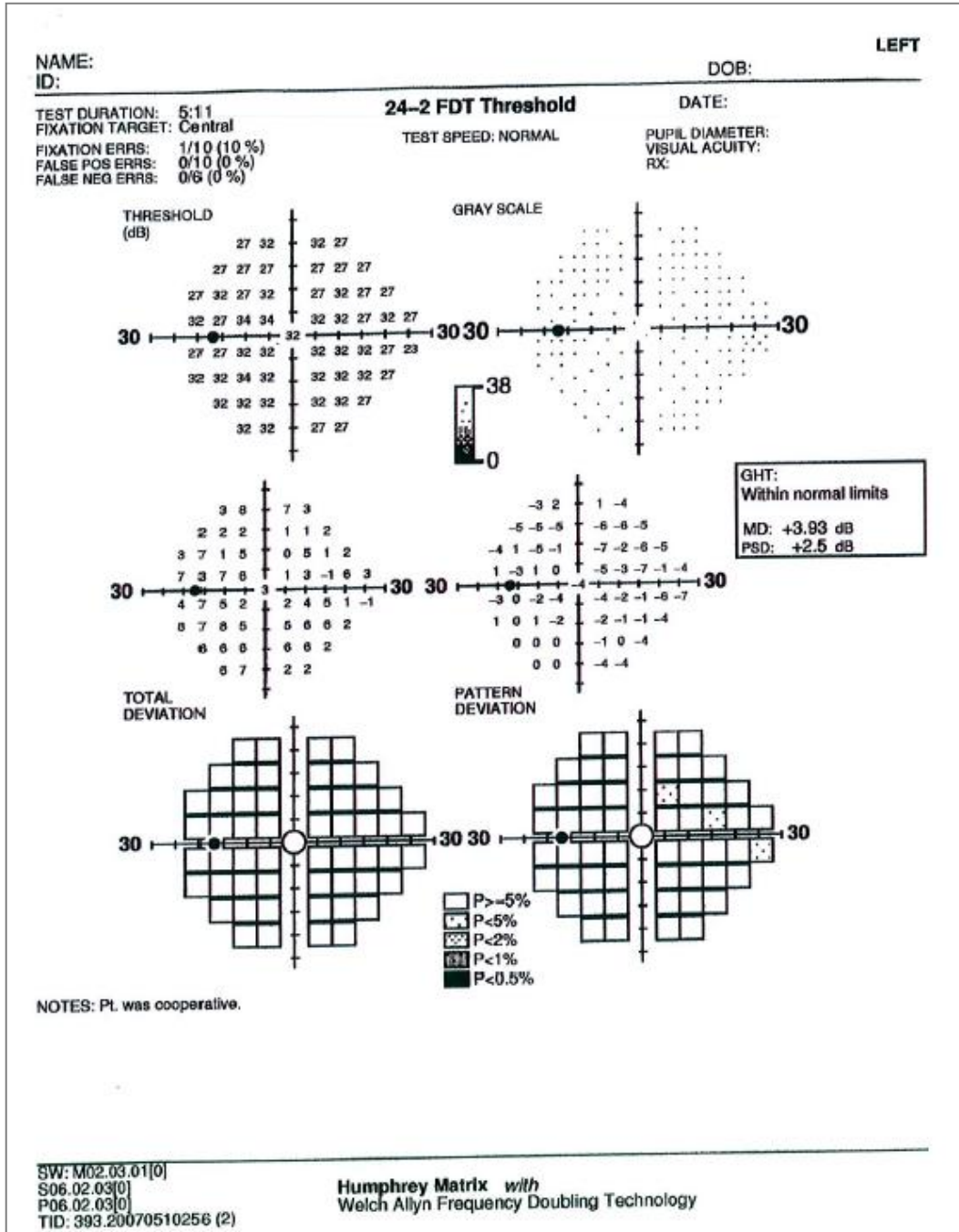
Conclusion

This is a case of pre-parametric open angle glaucoma. The appearance of the optic nerve, high intraocular pressure, RNFL thinning and family history of glaucoma together with the significant difference between OD and OS low contrast VEP results, confirms an early dysfunction of the optic nerve OD. The clinician chose to begin the patient on drops and use VEP to track treatment effect and compliance.

Visual Field - OD



Visual Field - OS



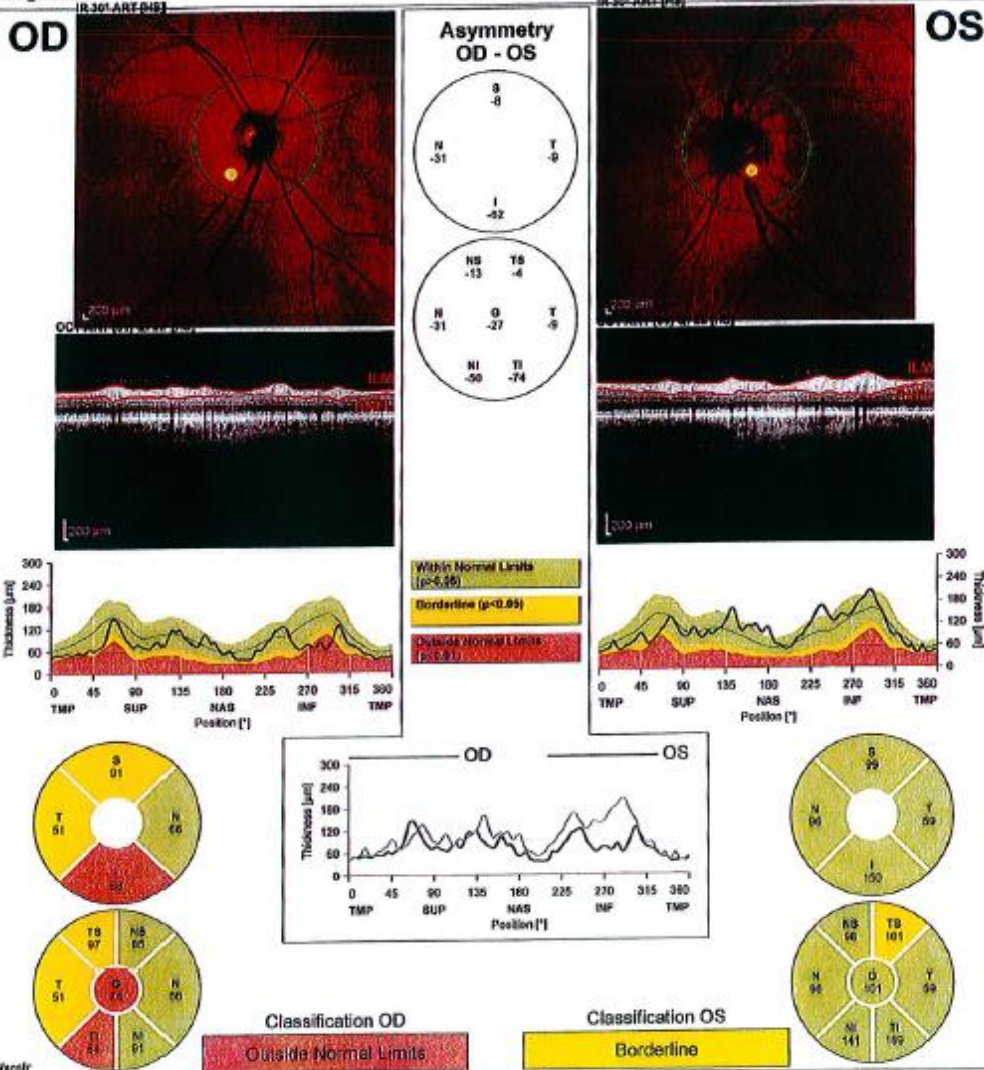
OCT

**HEIDELBERG
ENGINEERING**

Patient:
Patient ID:
Diagnosis:

DOB:
Exam.:
Comment:

Sex:



Words: _____

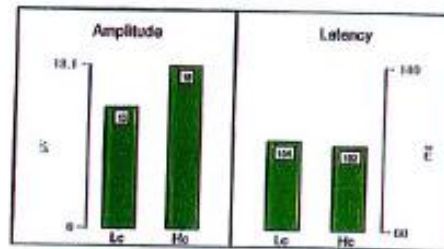
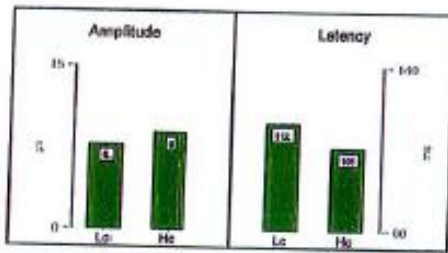
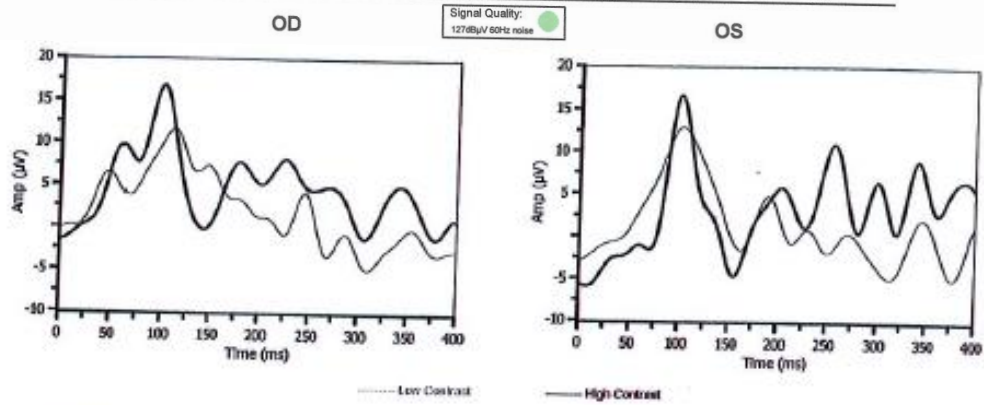
Notes: _____

Date: _____ Signature: _____

VEP - LX

DIOPSYS[®] NOVA-LX OFFICE BASED NEURO OPTIC VISION ASSESSMENT

First Name: _____ DOB: _____
 Last Name: _____ Age: _____
 Gender: _____
 Exam Date: _____ OD: S/C/Ax/Ad:// VA: _____
 Exam Time: _____ OS: S/C/Ax/Ad:// VA: _____



Parameters	OD	OS	Difference	Unit	Remarks
Amplitude Low Contrast	7.78	13.49	5.71	μ V	N/A Significant Difference
Amplitude High Contrast	8.91	16.09	9.18	μ V	
Latency Low Contrast	112.30	103.61	8.79	ms	
Latency High Contrast	100.68	101.56	0.98	ms	

Classification based on statistics. Diagnosis is doctor's responsibility.

Comments:

Signature: