

VEP Testing in Clinical Practice

VEP Case Review: Ocular Hypertension

Case ID: 6OH

Patient Work-Up	
DOB	07/1950
Gender	Female
Age	61
Ethnicity	White
Complaints/Symptoms	Ocular Hypertension
Family History	None
IOP (mmHg) OD	26
IOP (mmHg) OS	23
Refraction OD	+3.25
Refraction OS	+3.25
BCVA OD	20/30
BCVA OS	20/30
Preliminary Diagnosis	Ocular Hypertension

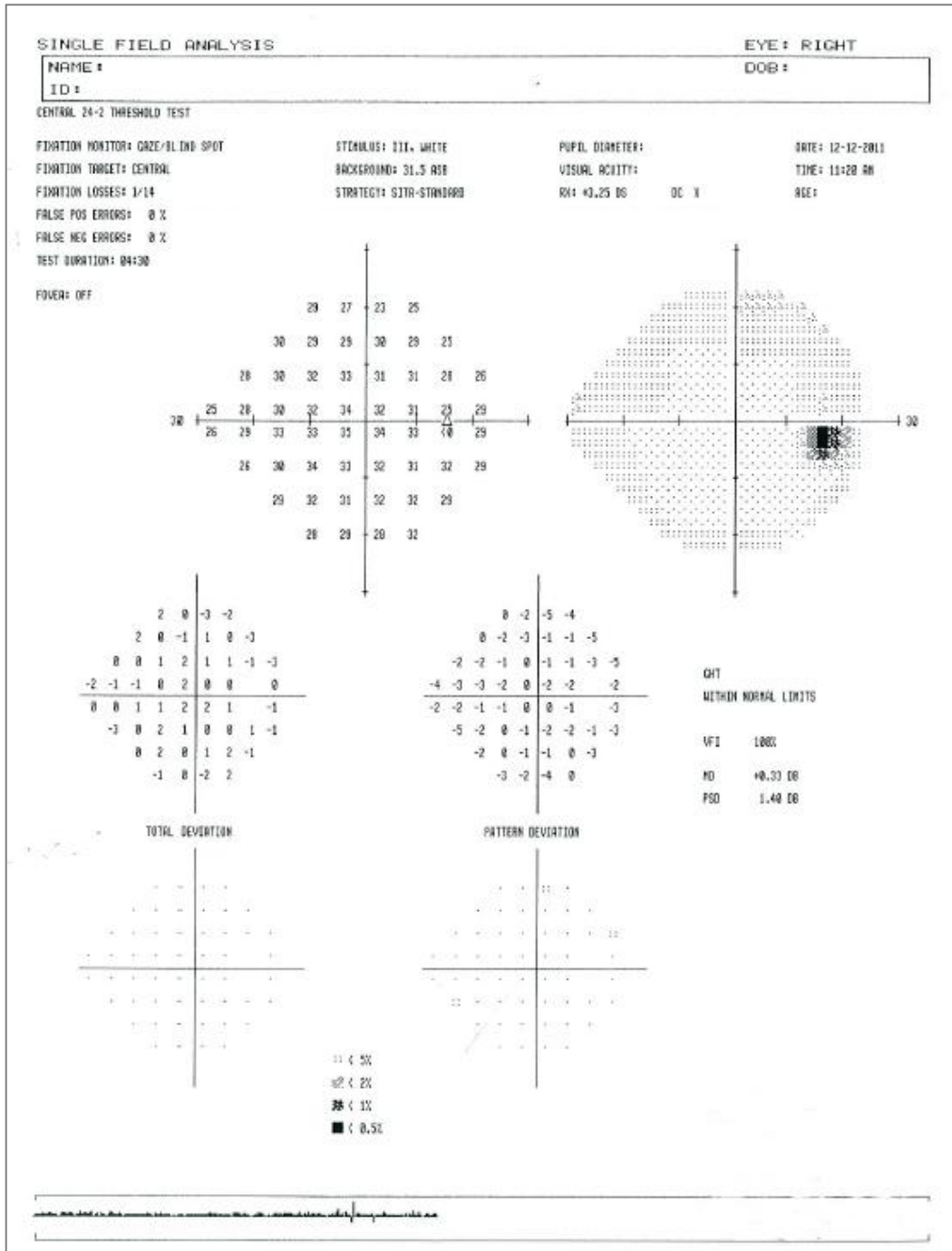
Tests Performed

- **Visual Field:** OU within normal limits.
- **OCT:** RNFL thickness within normal values.
- **VEP:** low contrast latencies delayed OU.

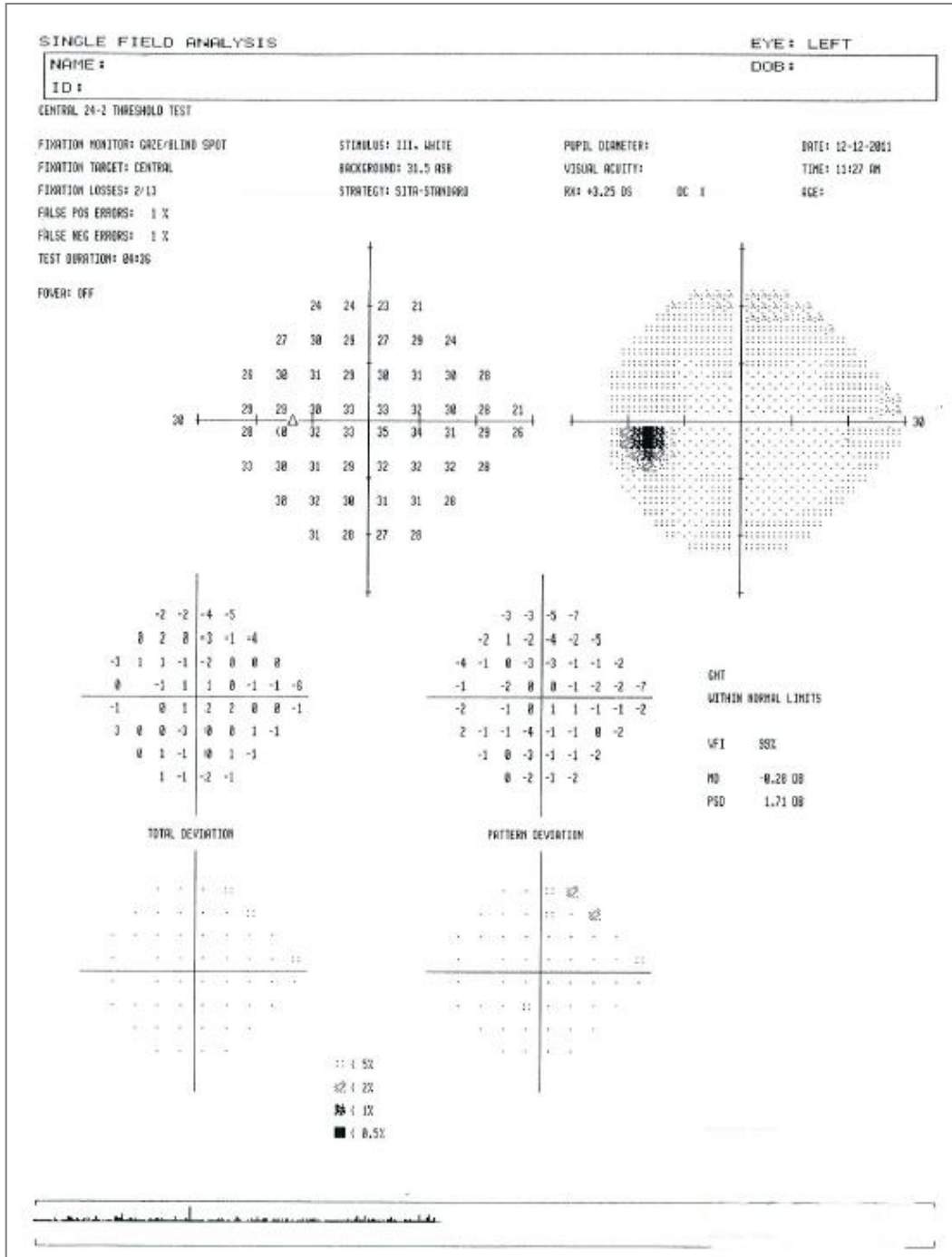
Conclusion

This suggests an early dysfunction of the ganglion cells due to the influence of high intraocular pressures. VEP abnormalities are considered a risk factor for conversion from ocular hypertension to glaucoma. The clinician chose to closely follow the patient and a return to the office in about 6 months to confirm the dysfunction or its progression.

Visual Field - OD



Visual Field - OS



OCT

ONH/GCC Symmetry Analysis Report

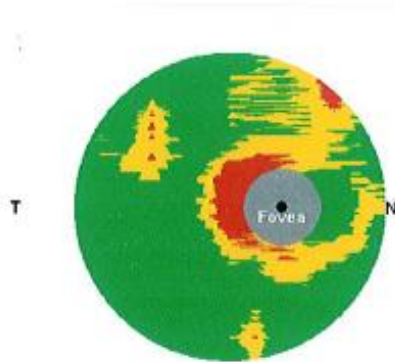
OD/OS

Patient:
Physician:
Operator:
Disease:

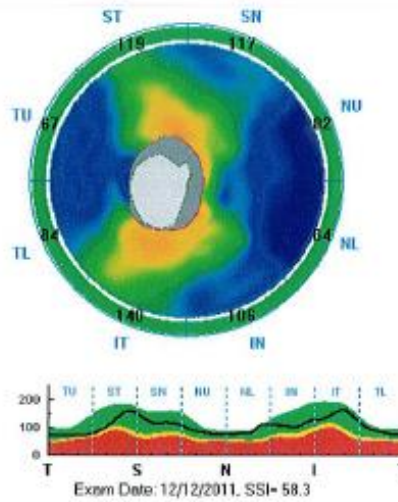
Gender:
ID:

Exam Date: 12/12/2011
DOB(age):
Ethnicity:
Algorithm Version: A6, 1, 0, 4

OD GCC Significance



Optic Nerve Head Map



RNFL Parameters	OD	OS
Avg. RNFL	99.86	108.47
Sup. Avg	96.34	105.95
Inf. Avg	103.39	110.99

Nerve Head Parameters	OD	OS
Rim Volume (mm ³)	0.099	0.124
Nerve Head Vols (mm ³)	0.158	0.223
Cup Volume (mm ³)	0.112	0.083

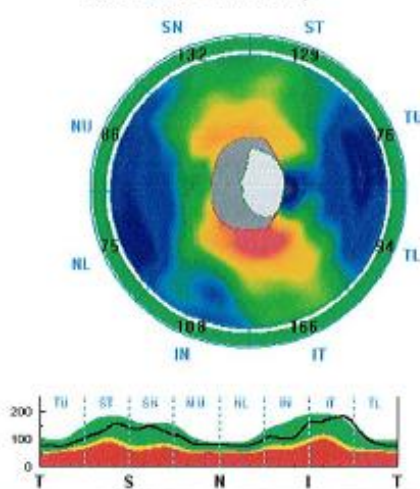
Nerve Head Parameters	OD	OS
Optic Disk Area (mm ²)	1.83	1.75
Cup/Disc Area Ratio	0.58	0.41
Horizontal C/D Ratio	0.79	0.61
Vertical C/D Ratio	0.81	0.75
Rim Area (mm ²)	0.77	1.04
Cup Area (mm ²)	1.06	0.72

95% Within Normal
5% Borderline
5% Outside Normal

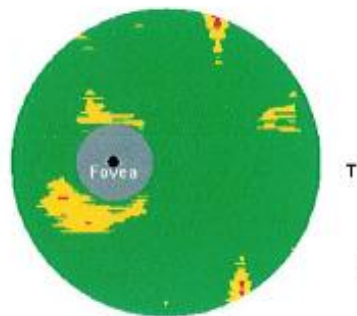
OS

Exam Date: 12/12/2011, SSI= 69.0

Optic Nerve Head Map

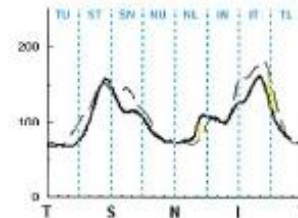


GCC Significance



GCC Parameters	OD	OS
Avg. GCC(µm)	82.33	84.07
Sup. GCC(µm)	79.30	84.03
Inf. GCC(µm)	85.35	85.71
FLV (%)	1.177	0.500
GLV (%)	13.659	11.623

Solid line - OD
Dash line - OS



Report Date: Friday March 16 14:31:53 2012

Software Version #6, 1, 0, 4

Comments:

Signature:

Defining the OCT Revolution

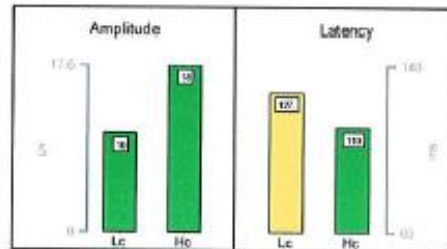
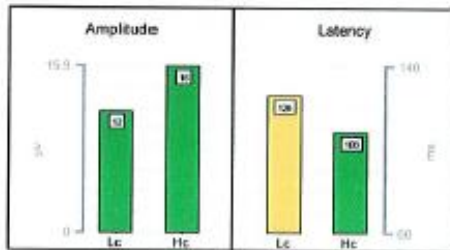
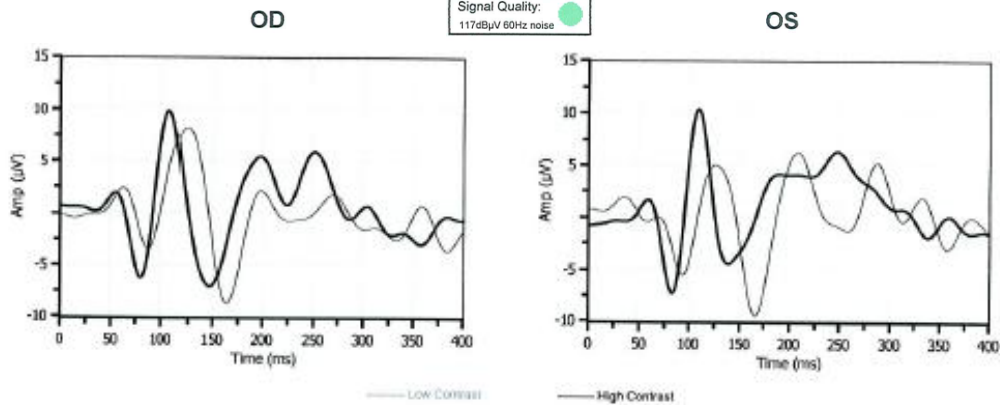


VEP - LX

DIOPSYN[®] 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: _____

Signal Quality: ●
117dB μ V 60Hz noise



Parameters	OD	OS	Difference	Unit	Remarks
Amplitude Low Contrast	11.60	10.47	1.13	μ V	N/A
Amplitude High Contrast	15.93	17.59	1.66	μ V	
Latency Low Contrast	125.97	126.95	0.98	ms	Both Delayed
Latency High Contrast	108.39	110.34	1.95	ms	

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

Comments:

Signature: