

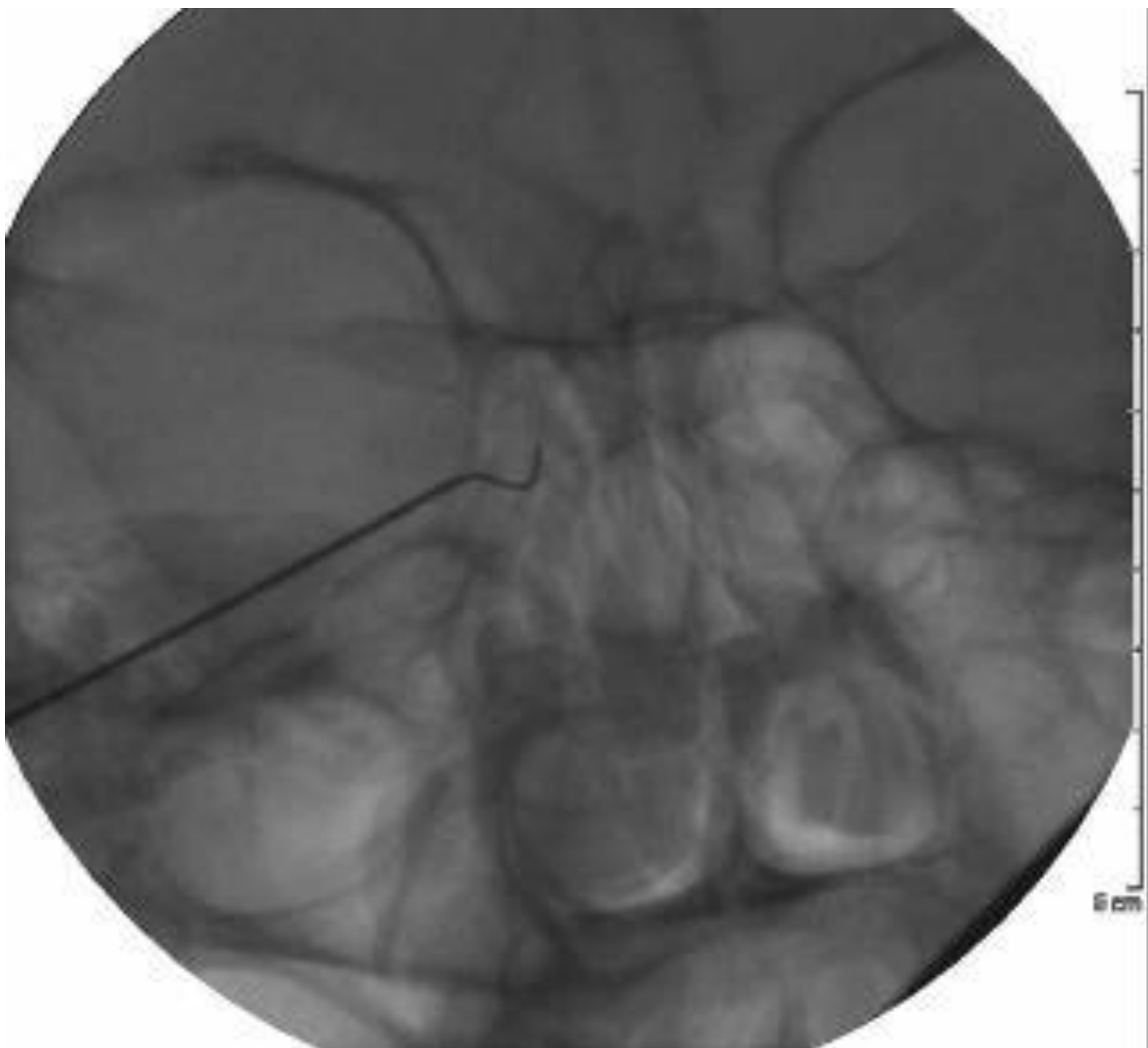
Supplementary Figure 31: Hess screen on this 71 year old patient confirms subtle abnormalities in elevation, depression, abduction, and adduction on the right compatible with a mild right III and VI cranial nerve palsy related to her carotid cavernous fistula.



Supplementary Figure 32: Coronal angiogram demonstrates a carotid cavernous fistula.



Supplementary Figure 32: Coronal angiogram demonstrates a carotid cavernous fistula.



Supplementary Figure 33: Demonstrates a percutaneous placement of a needle through the right orbit directly into the cavernous sinus to provide access for embolization of the CC fistula.

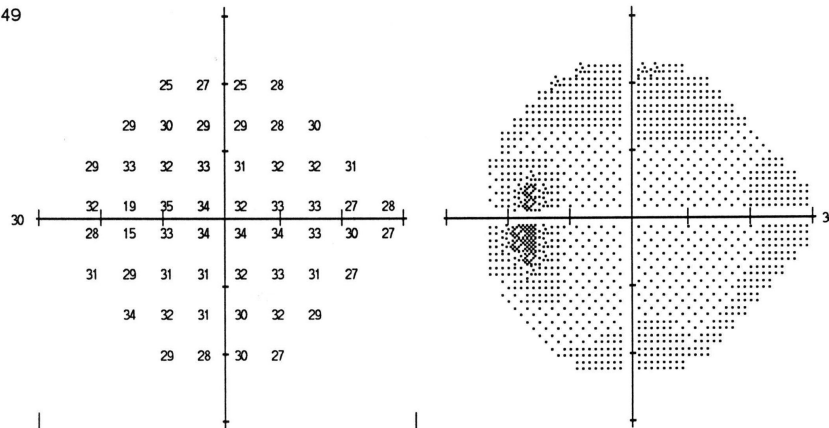
Fixation Monitor: Gaze Track
 Fixation Target: Central
 Fixation Losses: 0/0
 False POS Errors: 0 %
 False NEG Errors: 8 %
 Test Duration: 02:49

Stimulus: III, White
 Background: 31.5 ASB
 Strategy: SITA-Fast

Pupil Diameter: 5.1 mm
 Visual Acuity: 20/20
 RX: DS DC X

Date: 04-02-2002
 Time: 3:09 PM
 Age: 39

Fovea: 36 dB



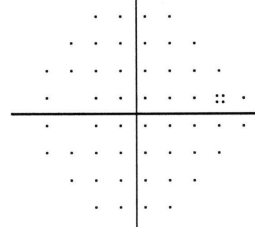
-3	-1	-3	-1				
0	0	-1	-1	-2	0		
-1	2	1	1	-1	0	0	2
2	2	1	-2	0	1	-3	0
-3	0	0	0	1	0	-1	-1
1	-2	-1	-2	-1	0	-1	-3
3	0	-1	-2	0	-1		
-1	-2	-1	-3				

Total
Deviation



-4	-2	-4	-1				
-1	-1	-2	-2	-3	-1		
-1	1	0	0	-2	-1	0	1
1	1	0	-2	0	0	-4	-1
-4	-1	-1	0	0	0	-2	-2
0	-3	-2	-3	-2	0	-2	-4
2	-1	-1	-3	-1	-2		
-2	-3	-2	-4				

Pattern
Deviation



GHT
Within normal limits

MD -0.44 dB
 PSD 1.49 dB

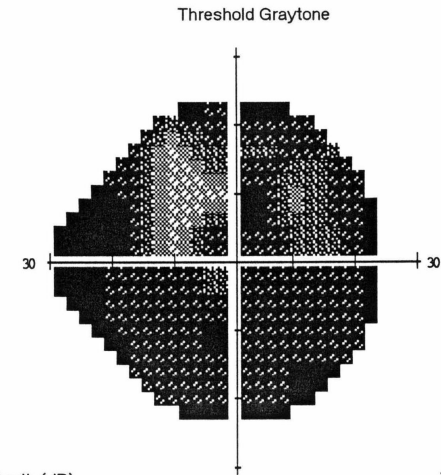
Fixation Monitor: OFF
 Fixation Target: Large Diamond
 Fixation Losses: 0/0
 False POS Errors: 0/12
 False NEG Errors: 6/10 xx
 Test Duration: 11:31

Fovea: <0 dB

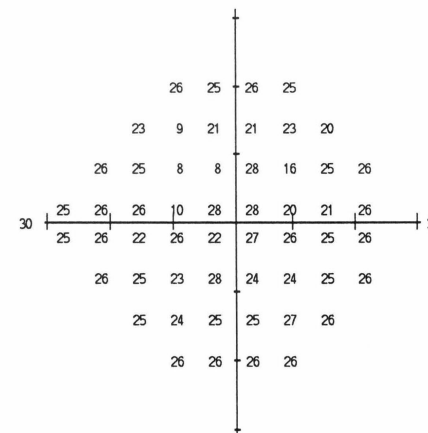
Stimulus: V, White
 Background: 31.5 ASB
 Strategy: Full Threshold

Pupil Diameter:
 Visual Acuity:
 RX: DS DC X

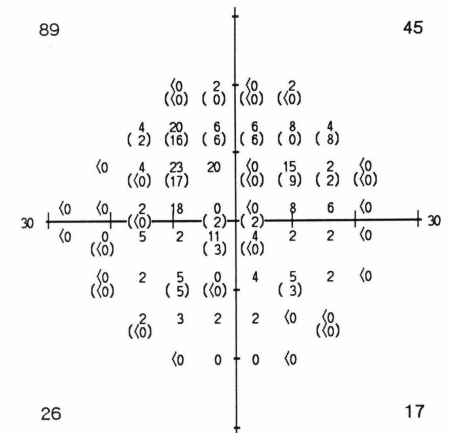
Date: 04-02-2002
 Time: 3:22 PM
 Age: 39



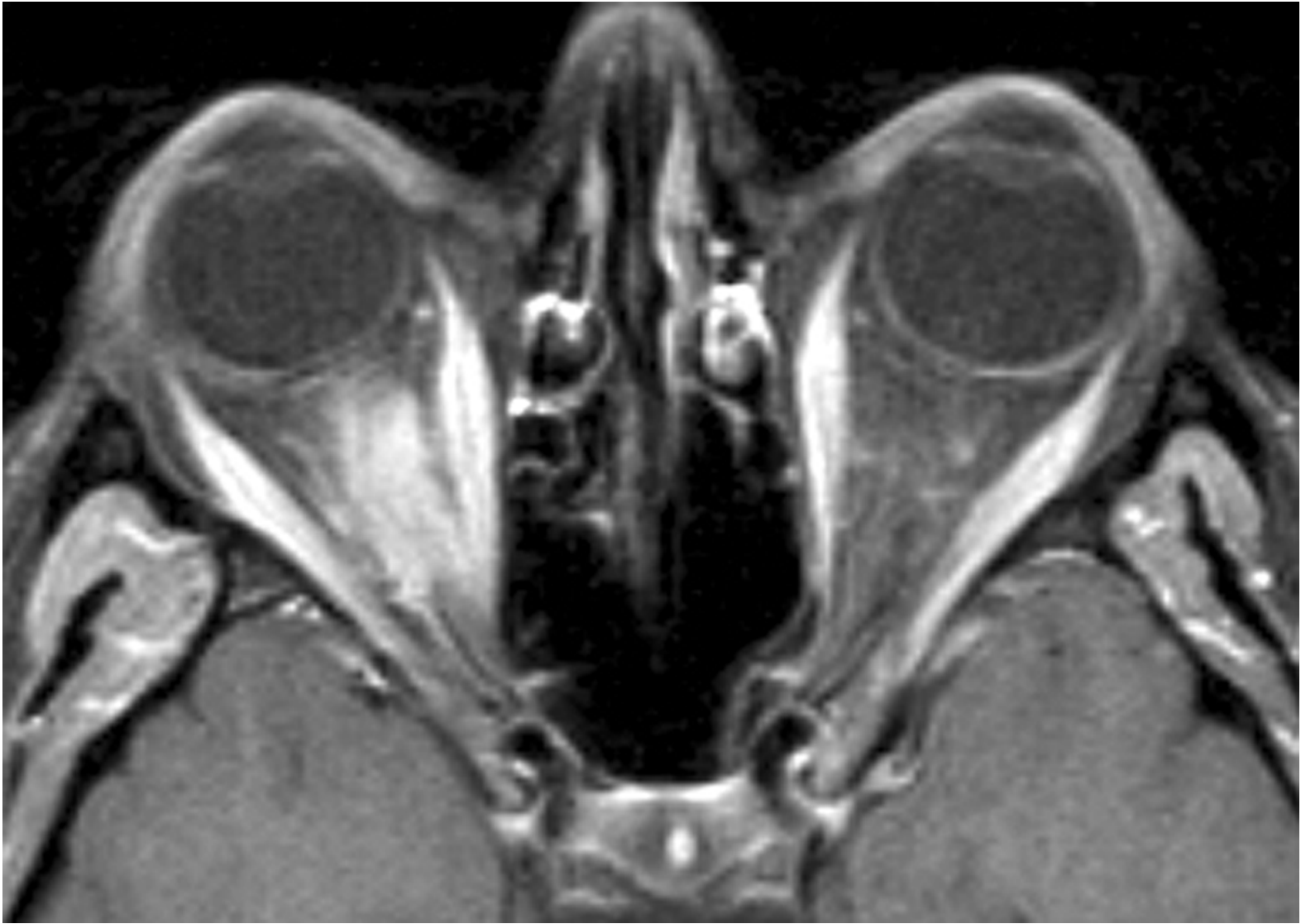
Defect Depth (dB)



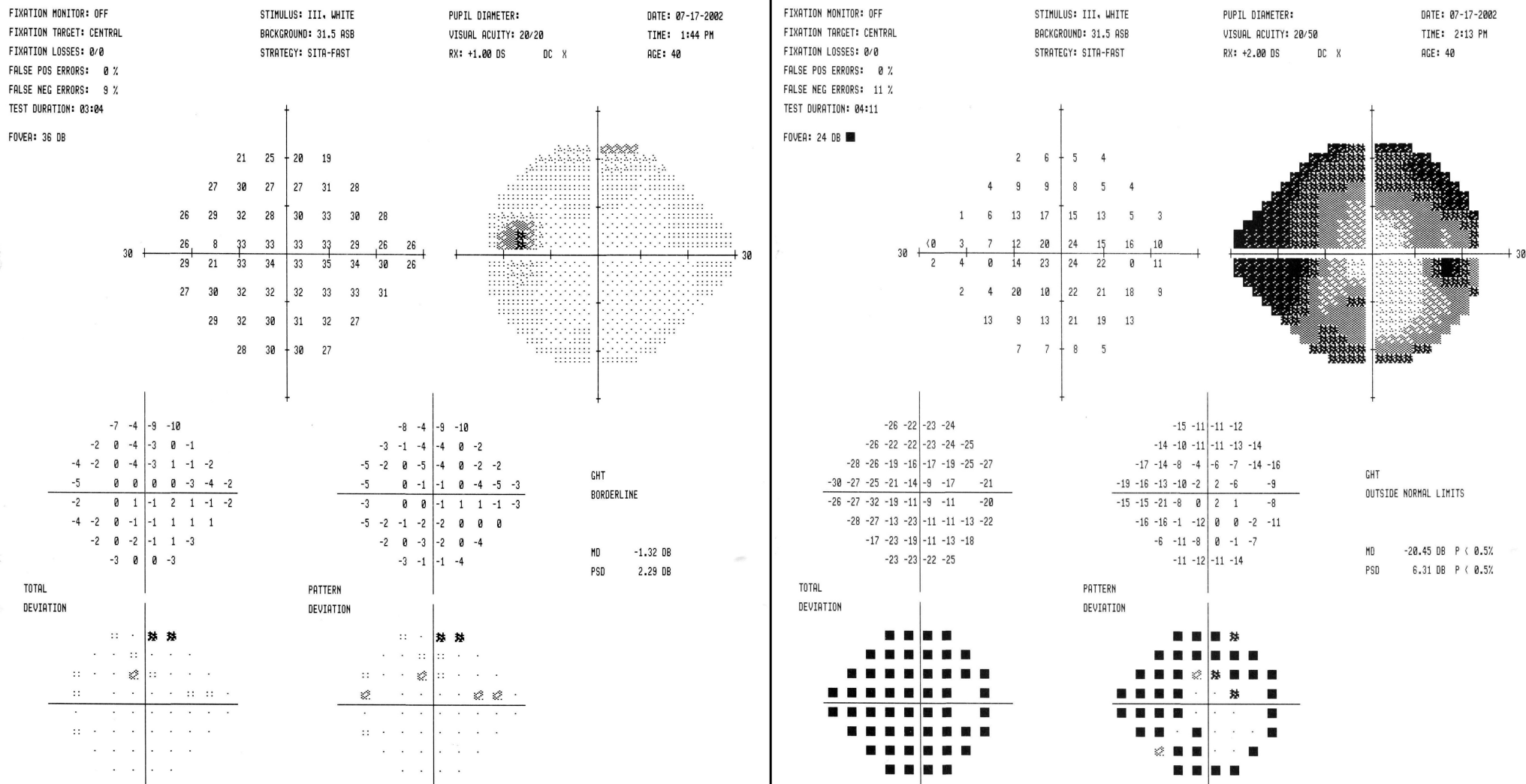
Threshold (dB)



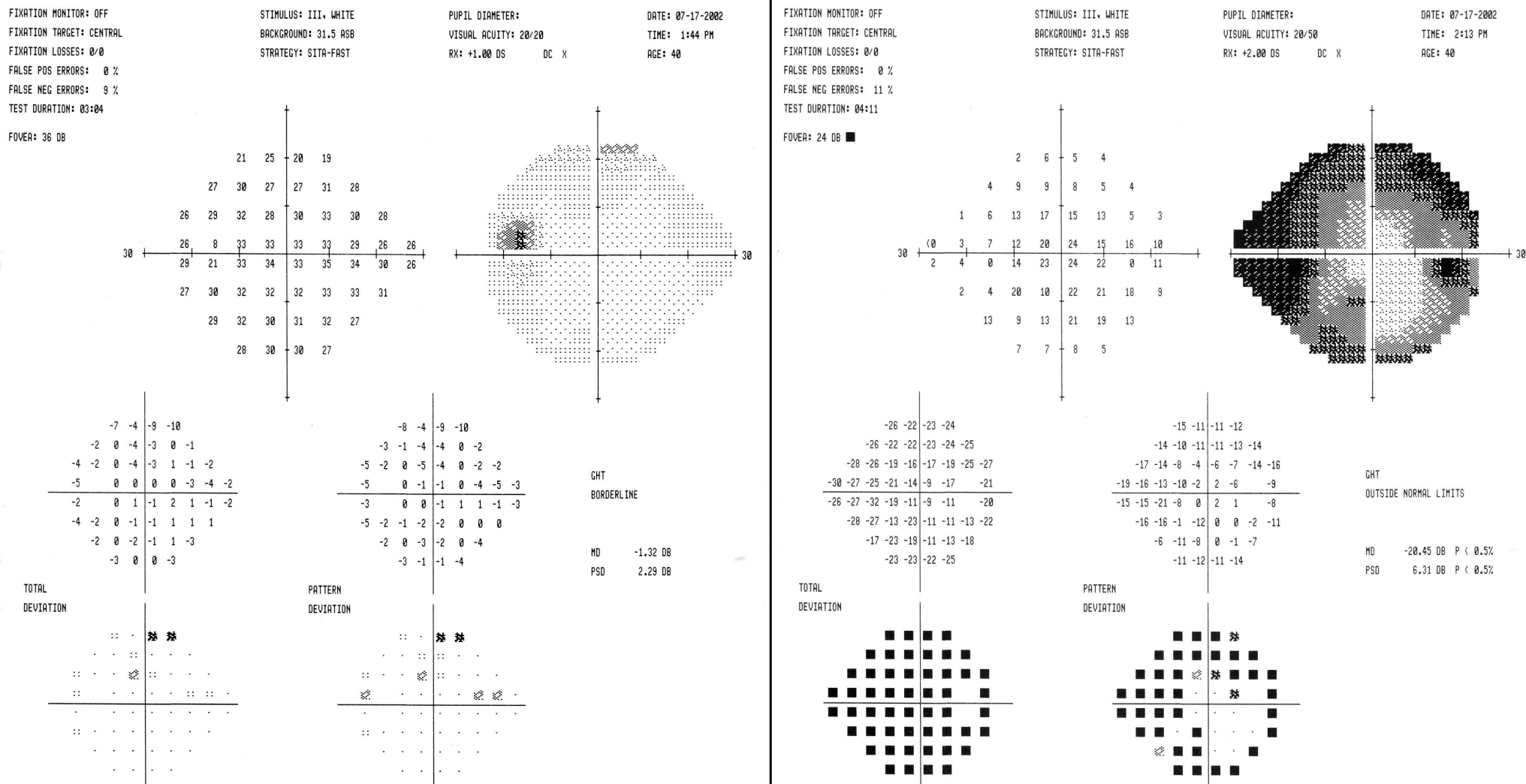
Supplementary Figure 34: These are the fields of a 39 year old woman who presented with a three year history of loss of vision to 2/200 OD. Use of the V size test object on the right demonstrates a small residual island of vision nasally.



Supplementary Figure 35: A fat sat gadolinium enhanced axial MRI scan of the orbits demonstrates enhancement of the optic nerve sheath on the right side compatible with a right optic nerve sheath meningioma.



Supplementary Figure 36: Three months following 50 Gy radiation therapy patient subjectively feels her vision has improved and has a marked reduction in the visual field constriction on the right side, now done with a III size test object.



Supplementary Figure 36: Three months following 50 Gy radiation therapy patient subjectively feels her vision has improved and has a marked reduction in the visual field constriction on the right side, now done with a III size test object.

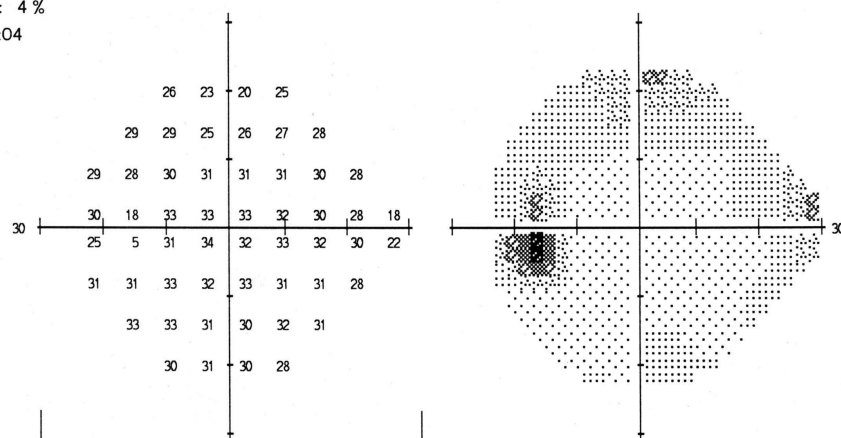
Fixation Monitor: OFF
 Fixation Target: Central
 Fixation Losses: 0/0
 False POS Errors: 3 %
 False NEG Errors: 4 %
 Test Duration: 03:04

Stimulus: III, White
 Background: 31.5 ASB
 Strategy: SITA-Fast

Pupil Diameter:
 Visual Acuity: 20/20
 RX: +1.50 DS DC X

Date: 07-25-2006
 Time: 10:51 AM
 Age: 44

Fovea: 36 dB



-2	-5	-9	-4
0	-1	-5	-5
-1	-3	-1	-1
-1	0	0	0
-6	-2	0	-1
1	-1	1	0
2	1	-1	-2
-1	0	-1	-2

-2	-6	-9	-4
-1	-1	-5	-5
-1	-3	-2	-1
-1	0	0	0
-6	-2	0	-1
0	-1	0	-1
1	1	-1	-2
-1	0	-1	-2

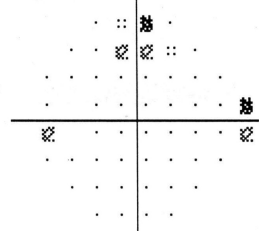
GHT
 Borderline

MD -1.43 dB P < 10%
 PSD 2.07 dB P < 5%

Total
 Deviation



Pattern
 Deviation



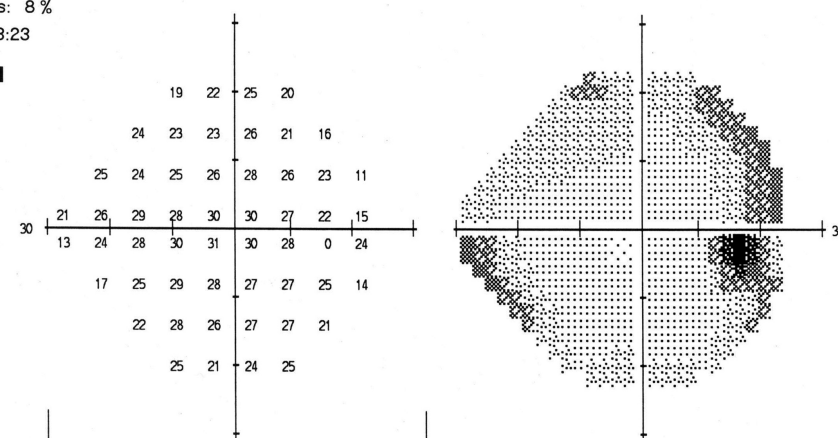
Fixation Monitor: OFF
 Fixation Target: Central
 Fixation Losses: 0/0
 False POS Errors: 4 %
 False NEG Errors: 8 %
 Test Duration: 03:23

Stimulus: III, White
 Background: 31.5 ASB
 Strategy: SITA-Fast

Pupil Diameter:
 Visual Acuity: 20/30
 RX: +3.00 DS DC X

Date: 07-25-2006
 Time: 10:59 AM
 Age: 44

Fovea: 31 dB



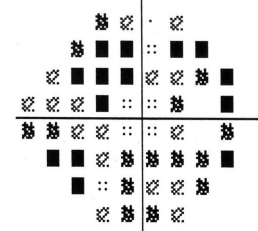
-9	-6	-3	-8
-6	-8	-7	-4
-5	-7	-7	-4
-7	-5	-3	-5
-16	-7	-4	-3
-13	-7	-3	-5
-9	-3	-6	-5
-5	-9	-6	-5

-6	-3	0	-5
-3	-4	-4	0
-2	-3	-4	-3
-4	-1	0	-2
-12	-4	-1	0
-10	-4	0	-2
-5	0	-2	-1
-1	-6	-3	-2

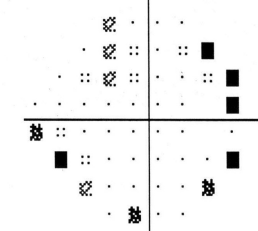
GHT
 Outside normal limits

MD -6.38 dB P < 0.5%
 PSD 3.57 dB P < 1%

Total
 Deviation

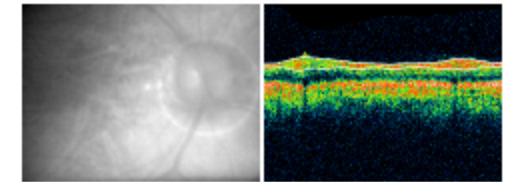
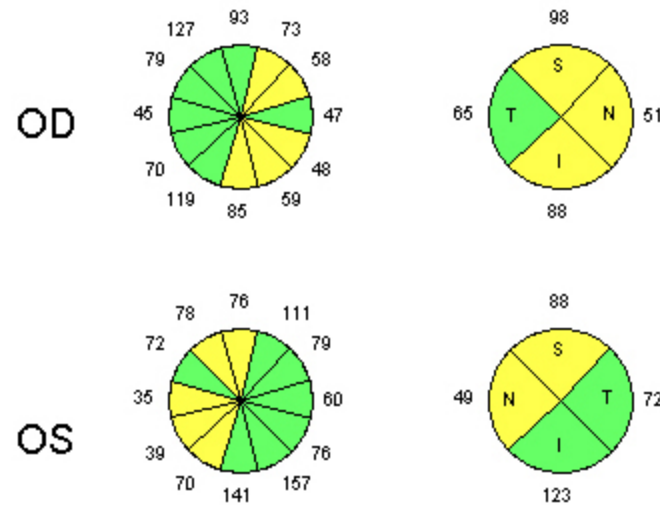
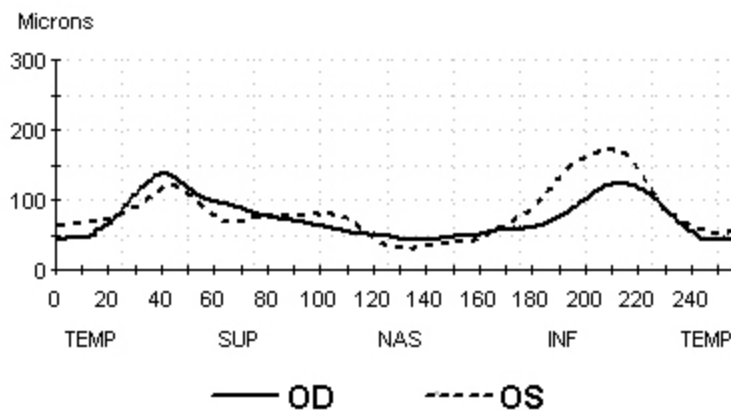
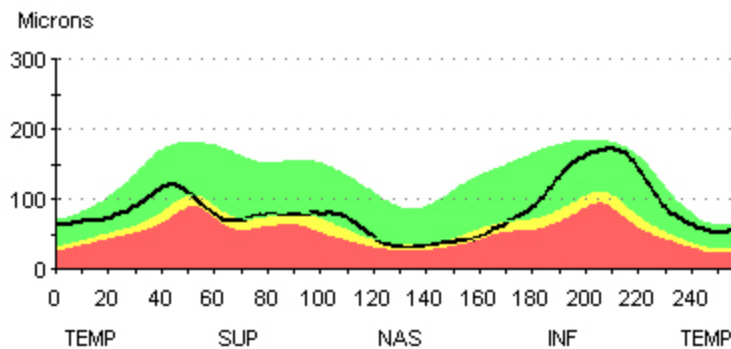
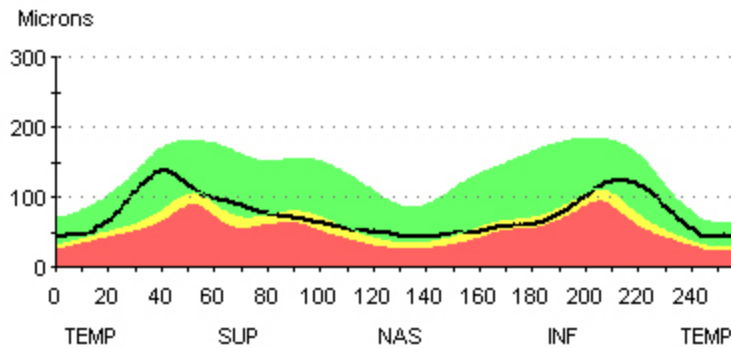


Pattern
 Deviation

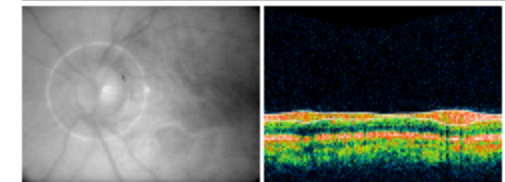


Supplementary Figure 37: Two years following radiation therapy to the right optic nerve sheath there has been a substantial further improvement in visual fields with residual moderate diffuse depression in sensitivity on the right with inferior greater than superior arcuate changes.

RNFL THICKNESS AVERAGE ANALYSIS

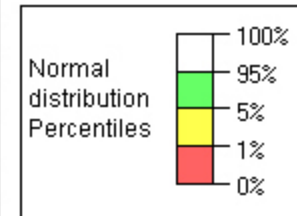


Signal Strength (Max 10) 8



Signal Strength (Max 10) 10

	OD (N=3)	OS (N=3)	OD-OS
lmax/Smax	0.90	1.43	-0.53
Smax/lmax	1.11	0.70	0.41
Smax/Tavg	2.11	1.67	0.44
lmax/Tavg	1.91	2.40	-0.49
Smax/Navg	2.70	2.44	0.26
Max-Min	95.00	141.00	-46.00
Smax	137.00	120.00	17.00
lmax	124.00	172.00	-48.00
Savg	98.00	88.00	10.00
lavg	88.00	123.00	-35.00
Avg.Thickness	75.22	82.92	-7.70



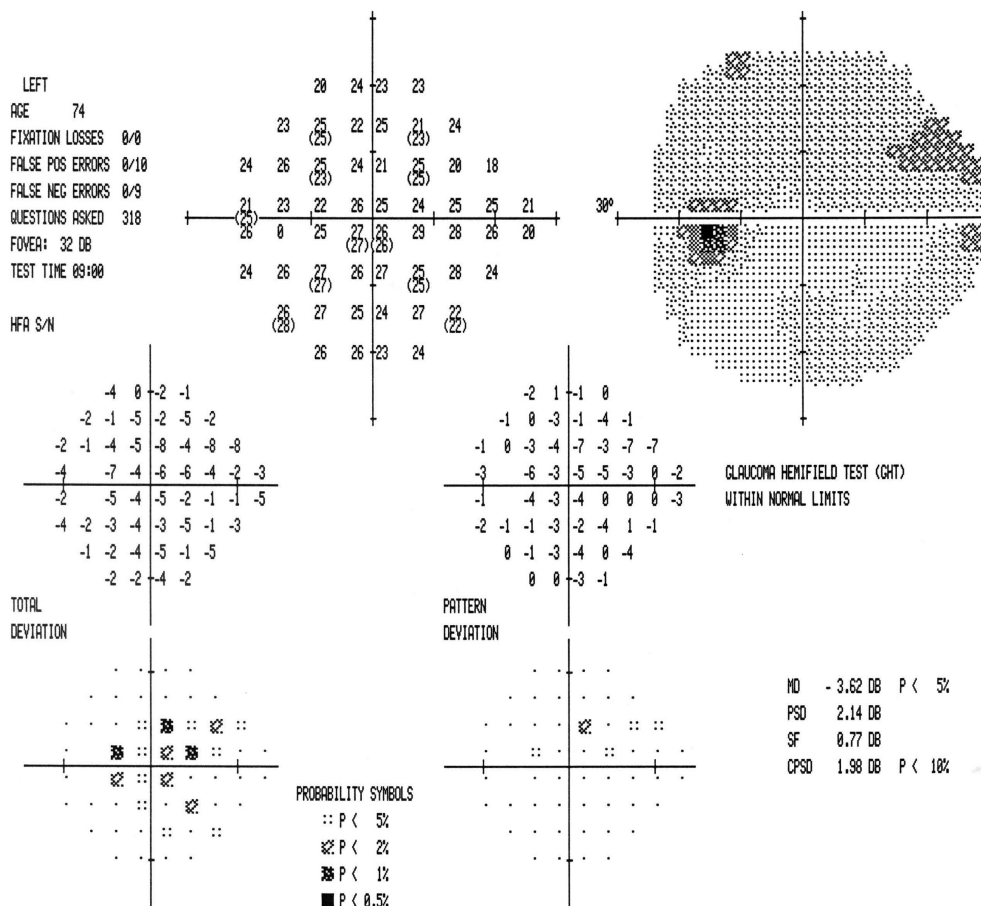
Patient/Scan Information	
DOB: 5/17/1962, ID:	Female
Scan Type	Fast RNFL Thickness (3.4)
Scan Date	7/25/2006
Scan Length	10.87 mm

Supplementary Figure 38: OCT of the patient with optic nerve sheath meningioma does demonstrate residual thinning of nerve fiber layer on the right side

CENTRAL 24 - 2 THRESHOLD TEST

NAME
STIMULUS III, WHITE, BCKGND 31.5 ASB BLIND SPOT CHECK SIZE OFF
STRATEGY FULL THRESHOLD

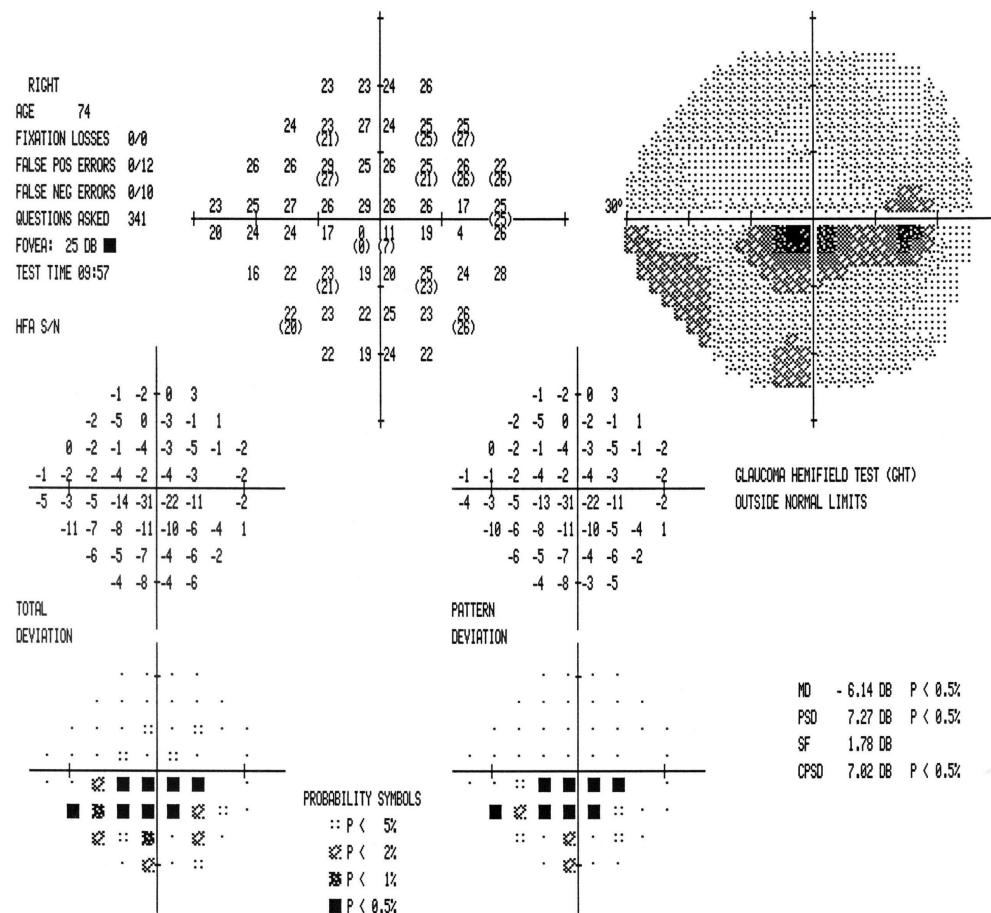
BIRTHDATE 07-29-14 DATE 12-15-88
FIXATION TARGET CENTRAL ID 491637 TIME 12:58:53 PM
RX USED 4.00 DS 1.25 DCX 135 DEG PUPIL DIAMETER 7.0 MM VA



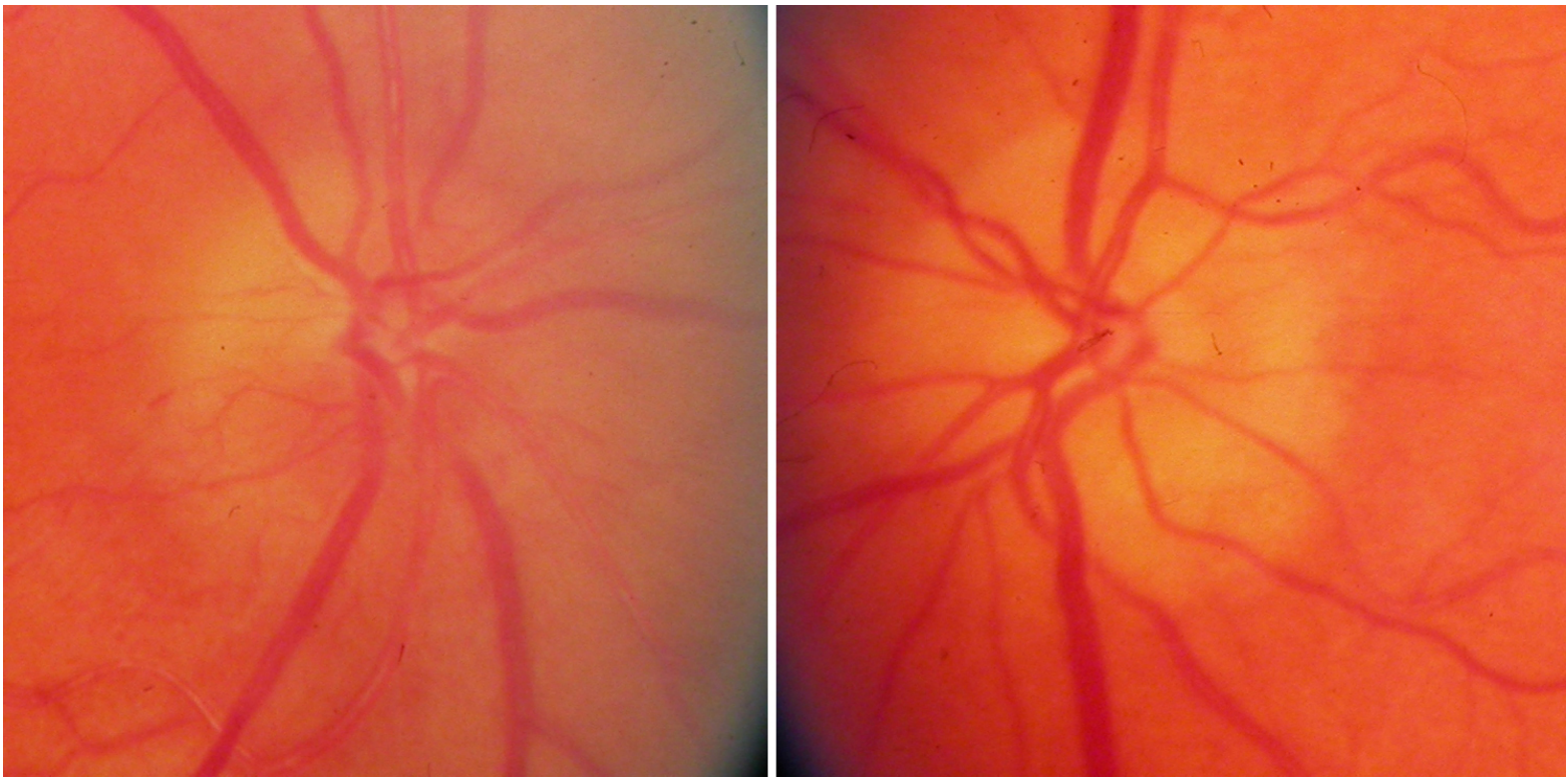
CENTRAL 24 - 2 THRESHOLD TEST

NAME
STIMULUS III, WHITE, BCKGND 31.5 ASB BLIND SPOT CHECK SIZE OFF
STRATEGY FULL THRESHOLD

BIRTHDATE 07-29-14 DATE 12-15-88
FIXATION TARGET CENTRAL ID 491637 TIME 12:47:01 PM
RX USED 3.75 DS 1.25 DCX 080 DEG PUPIL DIAMETER 7.0 MM VA



Supplementary Figure 39: Automated static perimetry 24-2 program in a 75 year old patient complaining of blurred vision in his right eye demonstrates an inferior paracentral arcuate visual field defect in the right eye.



Supplementary Figure 40: Optic disc of a 75 year old patient demonstrates small discs bilaterally with essentially no cup-disc ratio and evidence of hyperemia involving the optic disc on the right side.