

Patient: ●●●●,Right eye,DOB ●●/●●/●●●●,●,JT = 167.98 hrs,●●●●

Plaque Simulator Treatment Plan

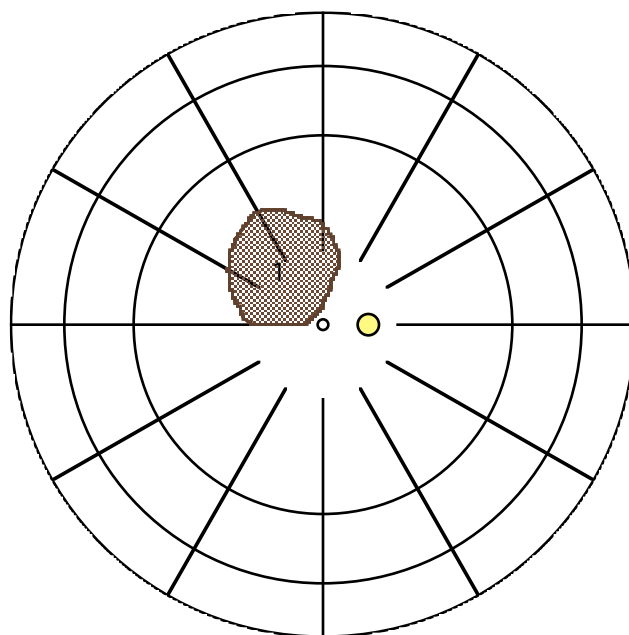
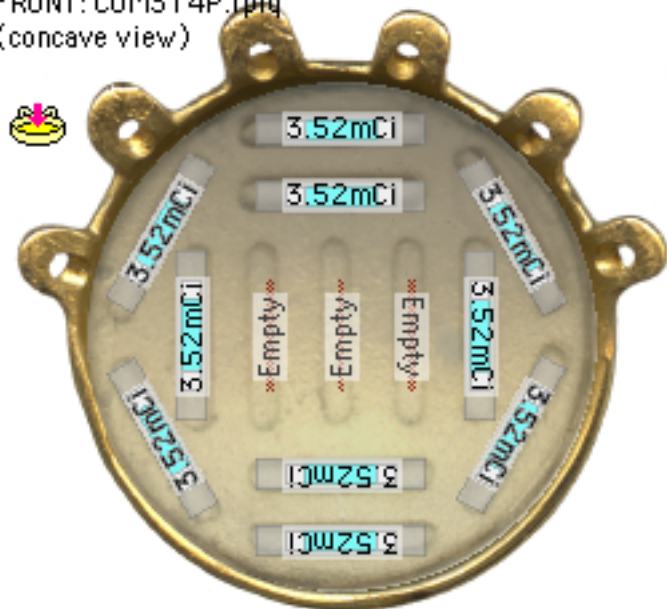
Patient name:	●●●●	DOB: 12/30/1971 Gender: F
Medical record #:	●●●●	
Other:	●●●●	
Misc. 1:	●●●●	
Misc. 2:	●●●●	
Institution:	●●●●	
Insertion:	Wednesday, December 7, 2011 8:00 AM _____	
Removal:	Wednesday, December 14, 2011 7:59 AM _____	
Duration:	167.983 (hours)	

Sources in plaque #	1
Total:	44.76U (35.24mCi)
Avg. per source	4.476U (3.524mCi)
Ref. date:	Wednesday, December 7, 2011

Plaque #	1
Name of plaque:	COMS14P.iplq
Nominal diameter:	15.00 mm
Number of seeds:	10
Scleral offset:	0.00 mm

Tumor #	1
Apex of tumor:	5.60 mm
Radial (COMS BM):	10.20 mm
Circumferential:	10.36 mm
Longest dimension:	10.77 mm
Nominal width:	10.14 mm
Surface area:	82.7 mm^2
% of retinal surface:	7.0 %
Approx. volume:	0.23 mL

FRONT: COMS14P.iplq
(concave view)



Plan by Astrahan for _____, approved by _____ (MD)

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Plaque Simulator Treatment Plan

Plaque 1 CAX (mm)	Avg. dose rate (cGy/hr)	Total Dose (Gy)	
0.00 (external sclera)	153.5	257.8	
1.00 (inner sclera)	155.0	260.3	
2.00	134.3	225.6	
3.00	110.7	185.9	
4.00	89.11	149.7	
5.00	71.37	119.9	
6.00	57.41	96.44	
7.00	46.60	78.29	
8.00	38.18	64.14	
9.00	31.50	52.92	
10.00	26.21	44.03	
Critical Site	Avg. dose rate (cGy/hr)	Total Dose (Gy)	Dist. from plaque (mm)
Prescription point	50.60	84.99	6.600 Tumor 1 Apex @ 5.60 mm
Sclera	155.0	260.3	1.000 (from plaque center)
Optic disc	37.19	62.48	9.686 (center to center)
Opposite retina	4.229	7.104	23.30 (from plaque center)
Lens	7.279	12.23	18.78 (center to center)
Eye origin	18.18	30.53	12.15 (from plaque center)
Macula (posterior pole)	95.95	161.2	6.792 (center to center)
Apex of tumor #1	50.60	84.99	6.600 (from plaque center)
Dose calc. mode: Standard, Line, F[Ø], Pexp, T(r,u), Shell			

RADIATION SAFETY SURVEYS:

In: OR# _____ mR/hr meter _____

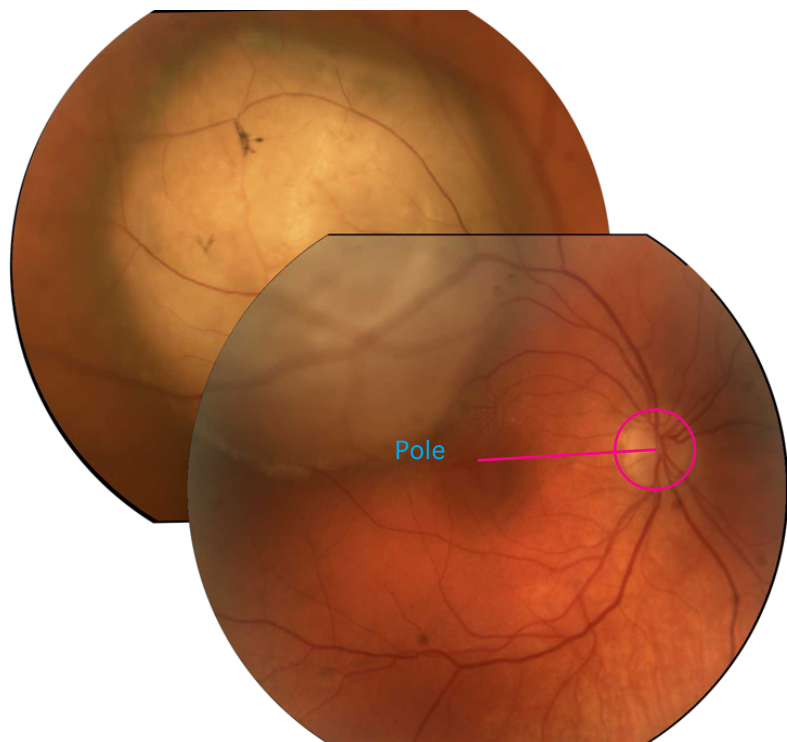
signature _____ date _____

Out: OR# _____ mR/hr meter _____

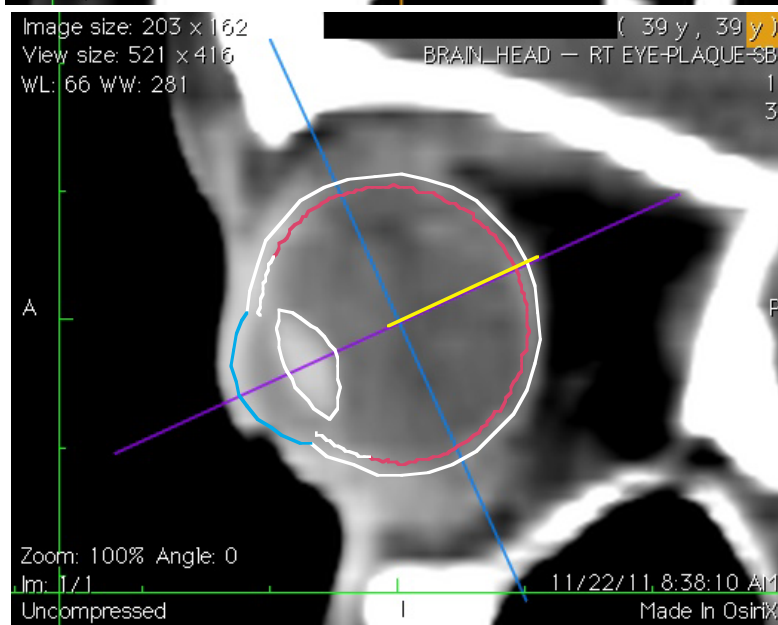
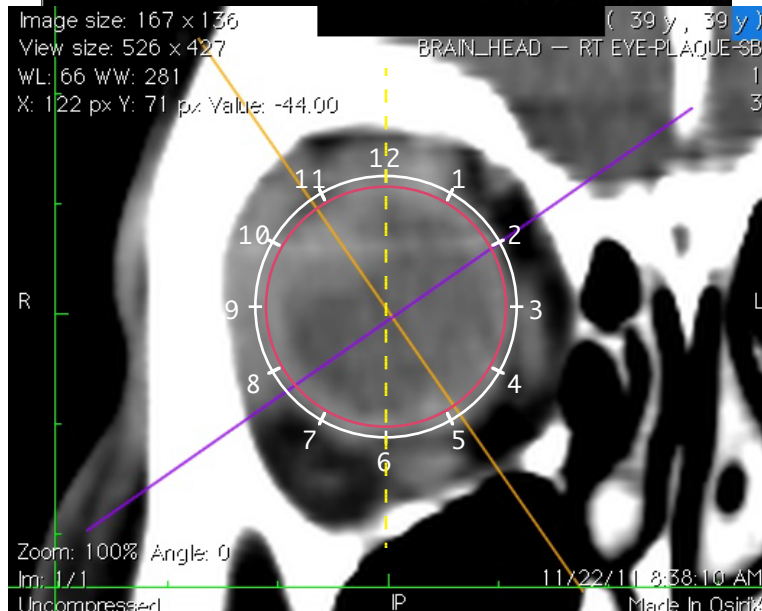
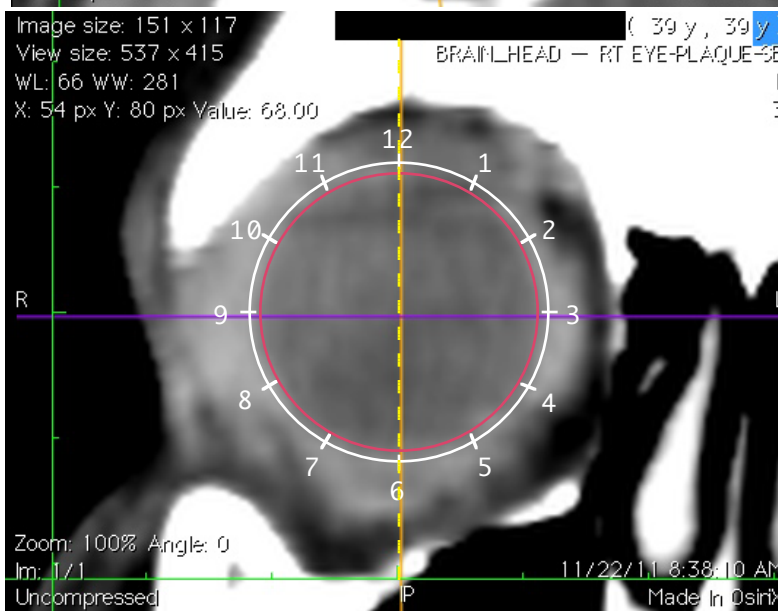
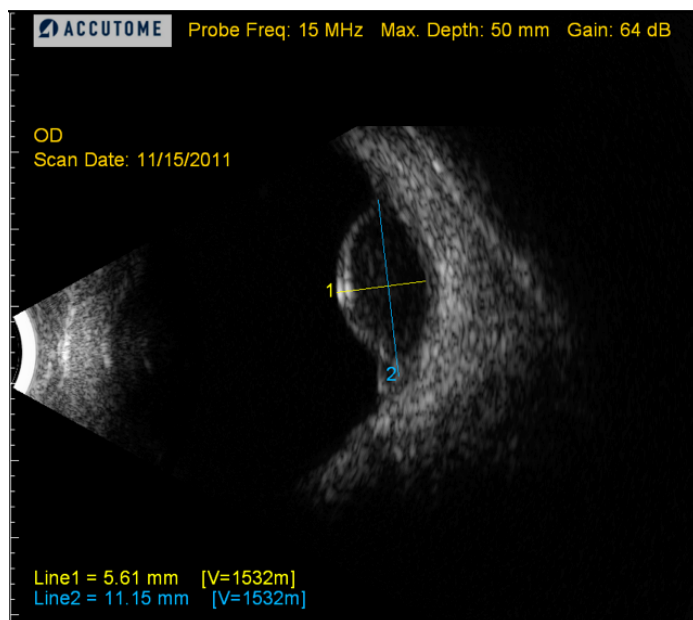
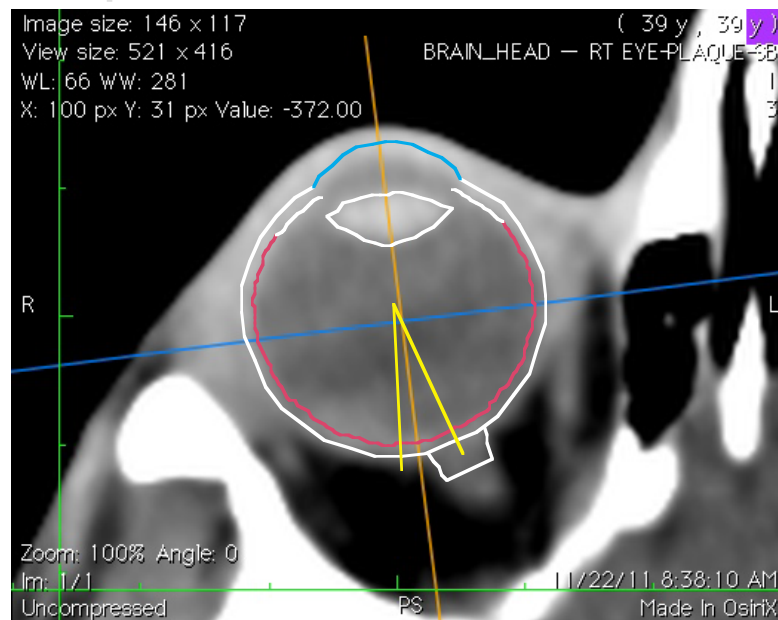
Patient _____ mR/hr meter _____

#seeds returned _____ misc. _____

signature _____ date _____



Plaque Simulator Treatment Plan

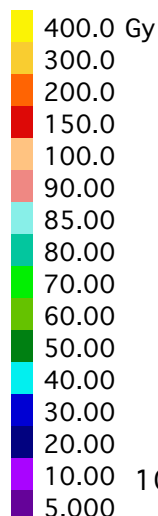


Plan by Astrahan for _____, approved by _____ (MD)

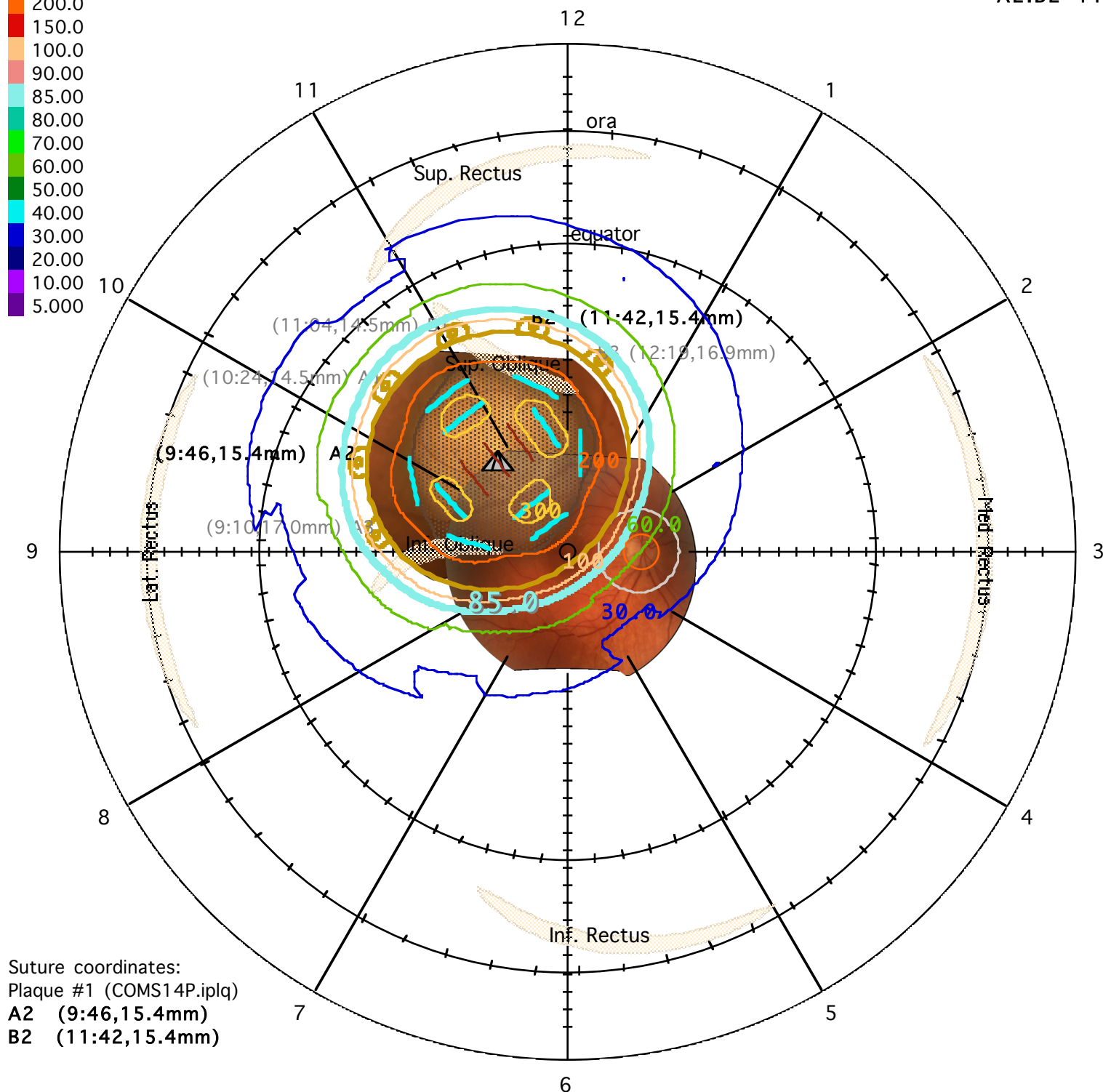
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Plaque Simulator Retinal Diagram

Current plaque	1 (COMS14P.iplq)
Dose matrix set	1 ()
Prescribed (Rx) dose	84.99 Gy to Tumor 1 Apex @ 5.60 mm
Dose matrix max	317.19 Gy



Distance between sutures (mm):
Plaque #1 (COMS14P.iplq)
A2:B2=11.2



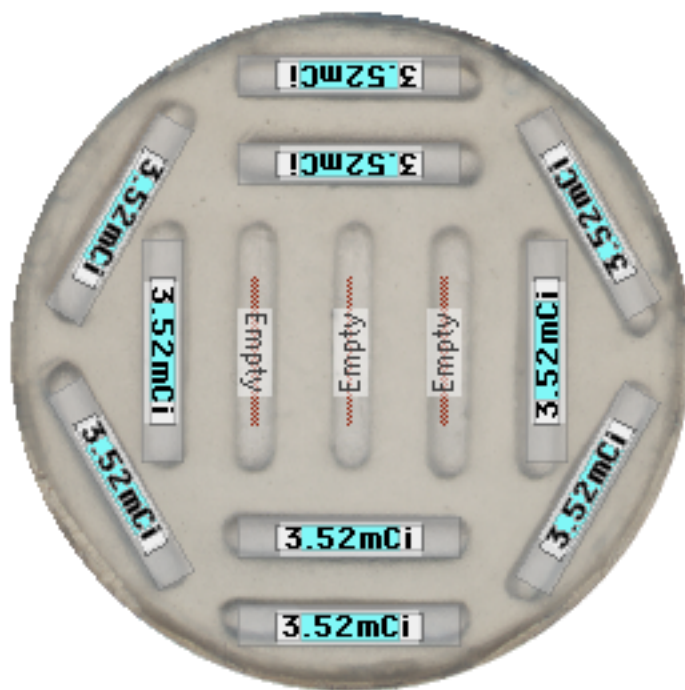
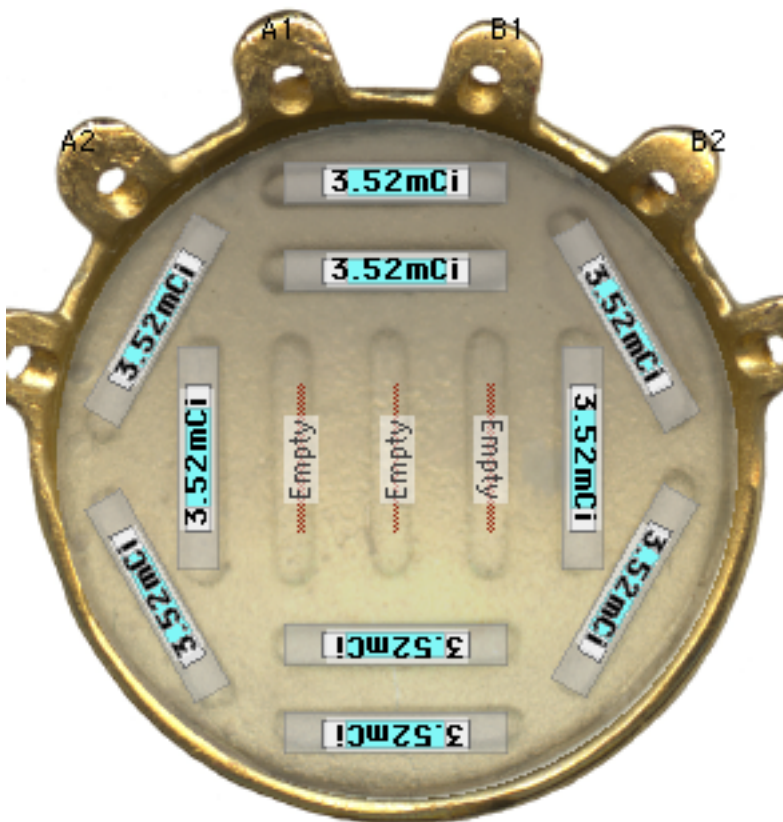
Plaque Simulator Loading Diagram

Isotope summary:

Plaque	#1 (COMS14P.iplq)
Isotope	I-125 (IAI-125A)
Inventory name	●●●●●
Number of sources used	10
Assay date	12/7/11
Avg. source strength @ assay	3.52 mCi
Total strength @ assay	35.24 mCi
Total strength @ implant	35.24 mCi

FRONT: COMS14P.iplq
(concave view)

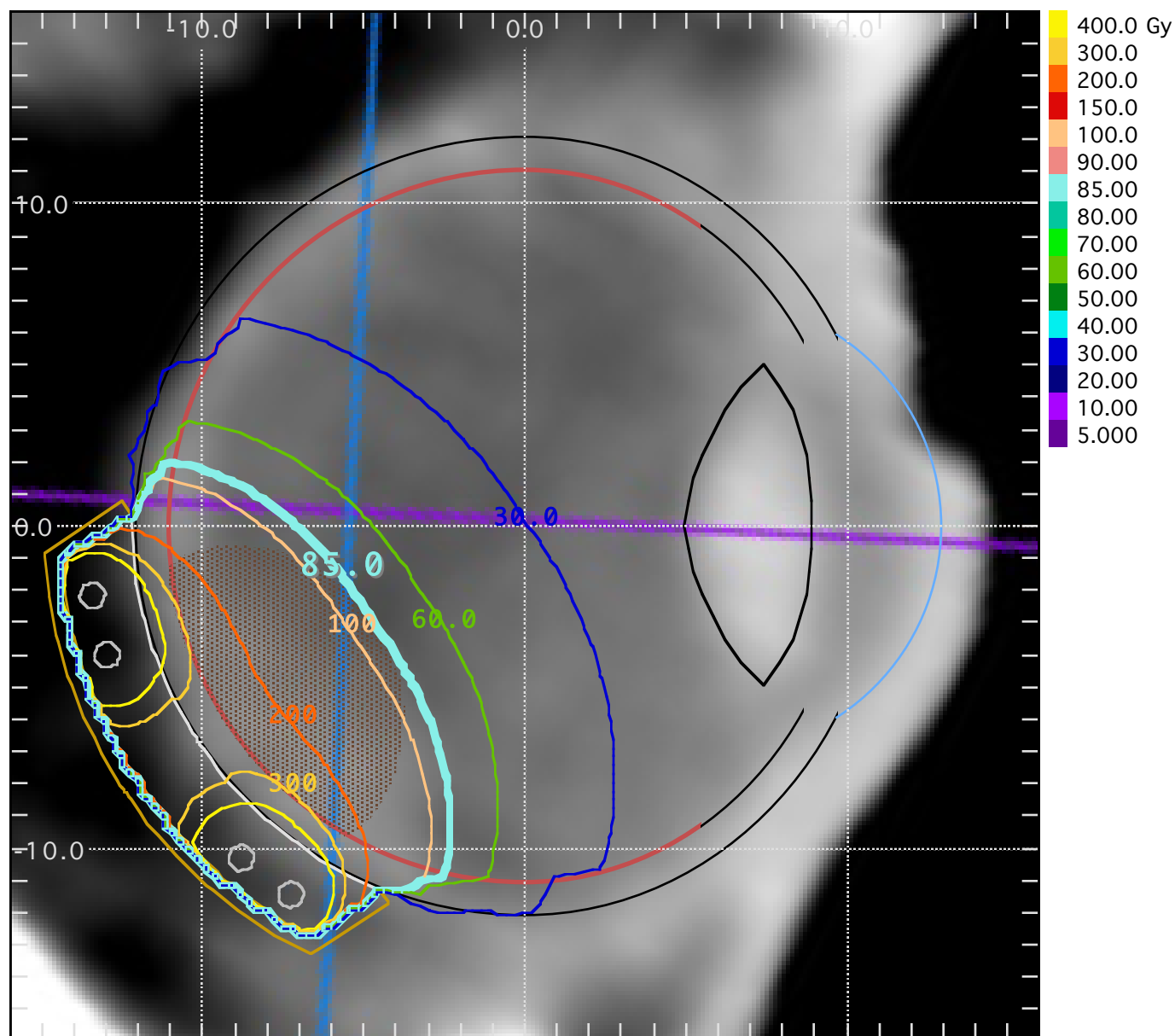
BACK: COMS14P.iplq
(convex view)



Patient: ●●●●,Right eye,DOB ●●/●●/●●●●,●,fT = 167.98 hrs,●●●●

Plaque Simulator Isodose Plot

Markers	1 mm
Scale	5.00:1
Meridian plane longitudes	39° & 219°
Current plaque	1 (COMS14P.iplq)
Dose matrix set	1 (meridian longitude 39° & 219°)
Prescribed (Rx) dose	84.99 Gy to Tumor 1 Apex @ 5.60 mm
Dose matrix max	11765.58 Gy



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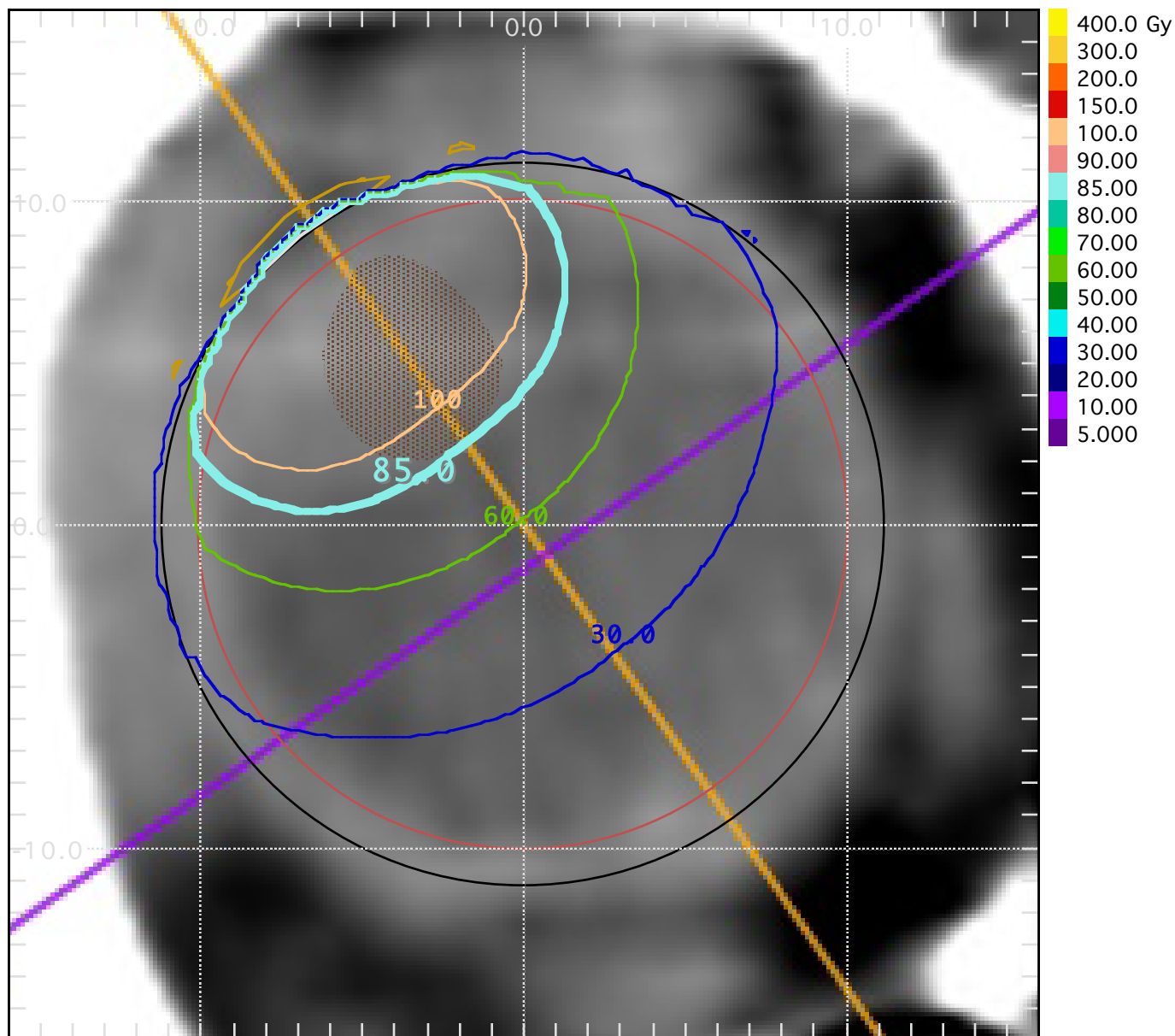
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Plaque Simulator™ 5.6.2 Monday, February 13, 2012 4:38 PM (licensed to astrahan.2012)

Patient: ●●●●,Right eye,DOB ●●/●●/●●●●,●,fT = 167.98 hrs,●●●●

Plaque Simulator Isodose Plot

Markers	1 mm
Scale	5.00:1
Equatorial plane offset	-4.61 mm
Current plaque	1 (COMS14P.iplq)
Dose matrix set	1 (equatorial offset -4.61 mm)
Prescribed (Rx) dose	84.99 Gy to Tumor 1 Apex @ 5.60 mm
Dose matrix max	180.45 Gy

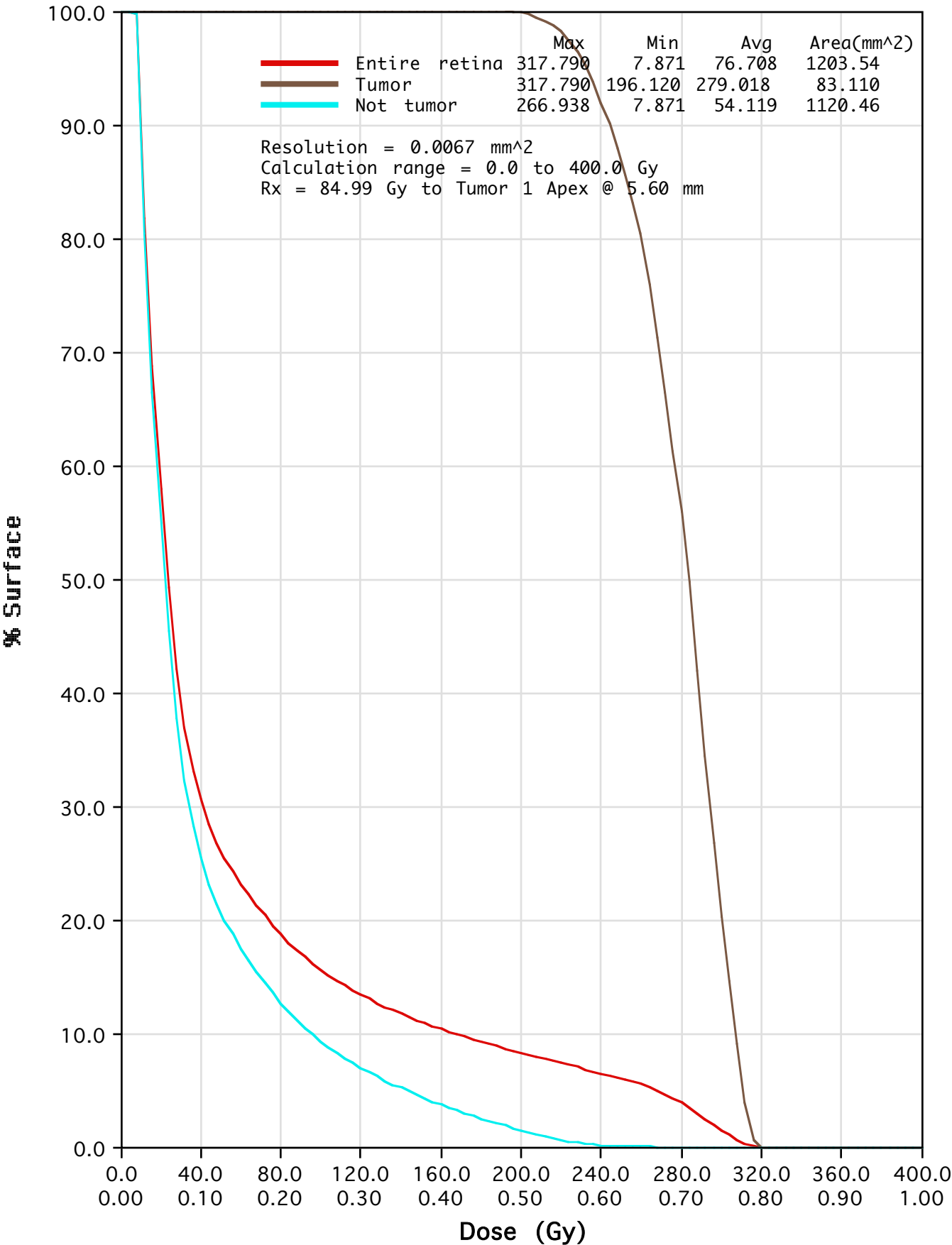


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Plaque Simulator™ 5.6.2 Monday, February 13, 2012 4:38 PM (licensed to astrahan.2012)

Plaque Simulator Dose Surface Histogram (Retina)



Patient: ●●●●●,Right eye,DOB ●●/●●/●●●●,●,fT = 167.98 hrs,●●●●●

Plaque Simulator Dose Surface Histogram (Retina)

Dose Gy	% range (0.0...400.0 Gy)	Entire retina % Surface (1203.5 mm^2)	Tumor % Surface (83.1 mm^2)	Not tumor % Surface (1120.5 mm^2)
0.0	0.0	99.99	100.00	99.98
10.0	2.5	89.65	100.00	88.88
20.0	5.0	57.98	100.00	54.86
30.0	7.5	39.37	100.00	34.87
40.0	10.0	30.58	100.00	25.43
50.0	12.5	26.13	100.00	20.66
60.0	15.0	23.17	100.00	17.47
70.0	17.5	20.77	100.00	14.89
80.0	20.0	18.68	100.00	12.65
90.0	22.5	16.98	100.00	10.82
100.0	25.0	15.57	100.00	9.30
110.0	27.5	14.39	100.00	8.04
120.0	30.0	13.37	100.00	6.94
130.0	32.5	12.49	100.00	6.00
140.0	35.0	11.72	100.00	5.17
150.0	37.5	11.02	100.00	4.42
160.0	40.0	10.36	100.00	3.71
170.0	42.5	9.78	100.00	3.08
180.0	45.0	9.23	100.00	2.50
190.0	47.5	8.74	100.00	1.97
200.0	50.0	8.25	99.88	1.46
210.0	52.5	7.79	99.31	1.00
220.0	55.0	7.35	98.19	0.61
230.0	57.5	6.92	95.94	0.31
240.0	60.0	6.48	92.00	0.14
250.0	62.5	6.04	86.72	0.05
260.0	65.0	5.57	80.43	0.01
270.0	67.5	4.75	68.82	0.00
280.0	70.0	3.86	55.86	0.00
290.0	72.5	2.64	38.19	0.00
300.0	75.0	1.40	20.24	0.00
310.0	77.5	0.42	6.05	0.00
320.0	80.0	0.00	0.00	0.00
330.0	82.5	0.00	0.00	0.00
340.0	85.0	0.00	0.00	0.00
350.0	87.5	0.00	0.00	0.00
360.0	90.0	0.00	0.00	0.00
370.0	92.5	0.00	0.00	0.00
380.0	95.0	0.00	0.00	0.00
390.0	97.5	0.00	0.00	0.00
400.0	100.0	0.00	0.00	0.00



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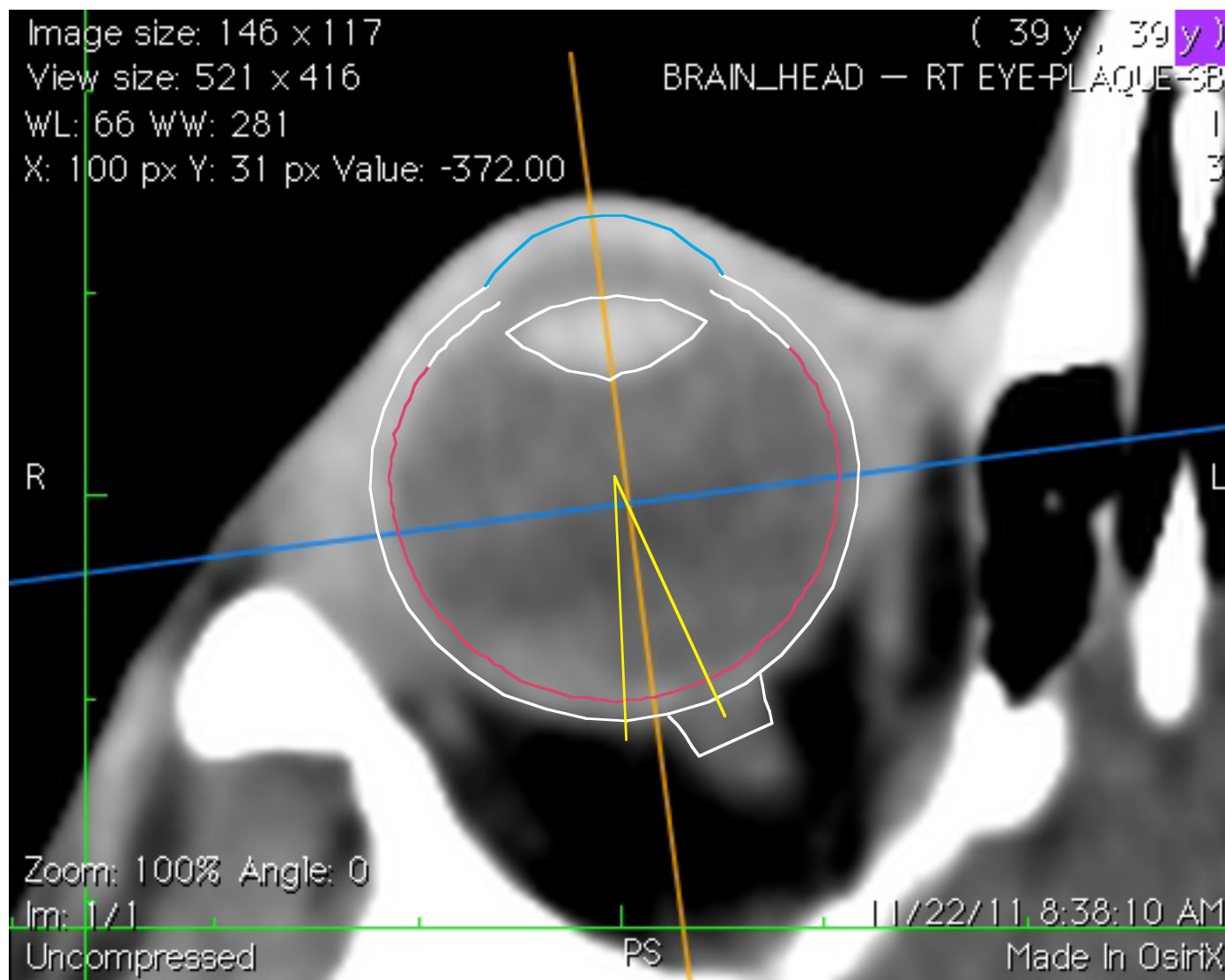
Patient: ●●●●●,Right eye,DOB ●●/●●/●●●●●,●,fT = 167.98 hrs,●●●●●

Plaque Simulator Image

Description: axial plane through the poles and optic disc (3 o'clock meridian)

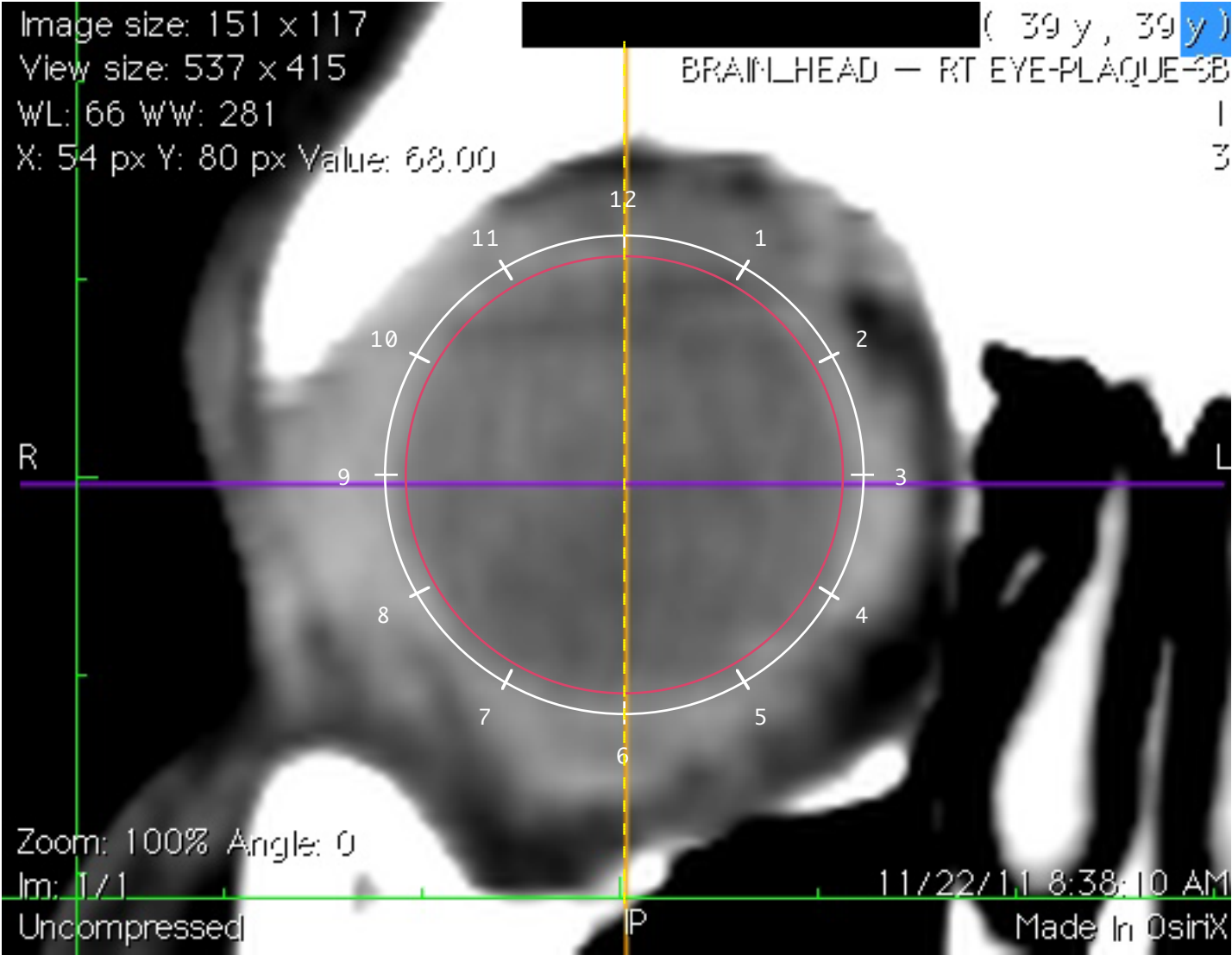
File: ●●●●●

PS image[0], type = Axial, size = 518 x 415 px, 1.29 MB



Plaque Simulator Image

Description: coronal plane at the equator
File: ●●●●●
PS image[3], type = Coronal, size = 534 x 414 px, 1.33 MB



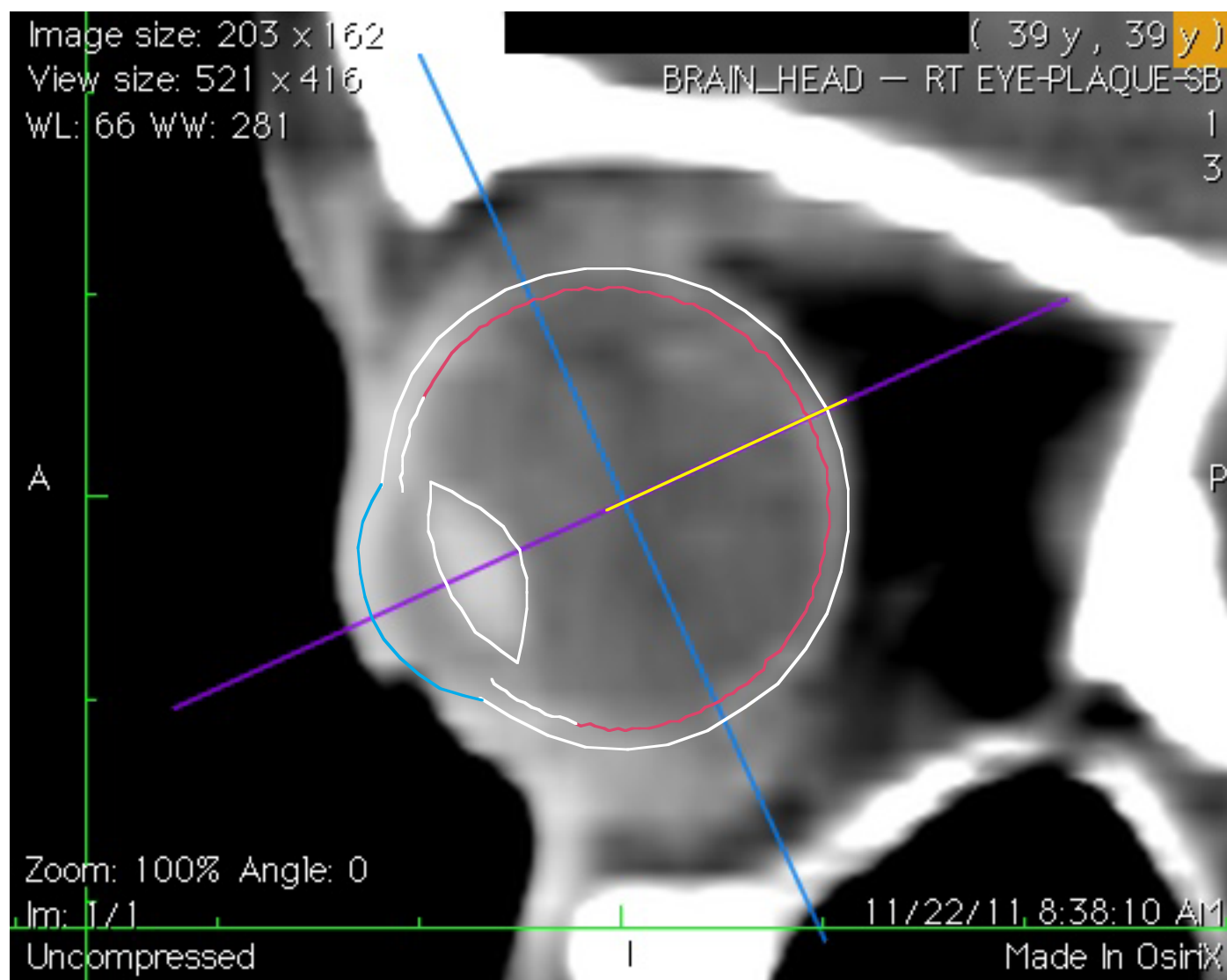
Patient: ●●●●●,Right eye,DOB ●●/●●/●●●●,●,fT = 167.98 hrs,●●●●●

Plaque Simulator Image

Description: sagittal plane (12 o'clock meridian)

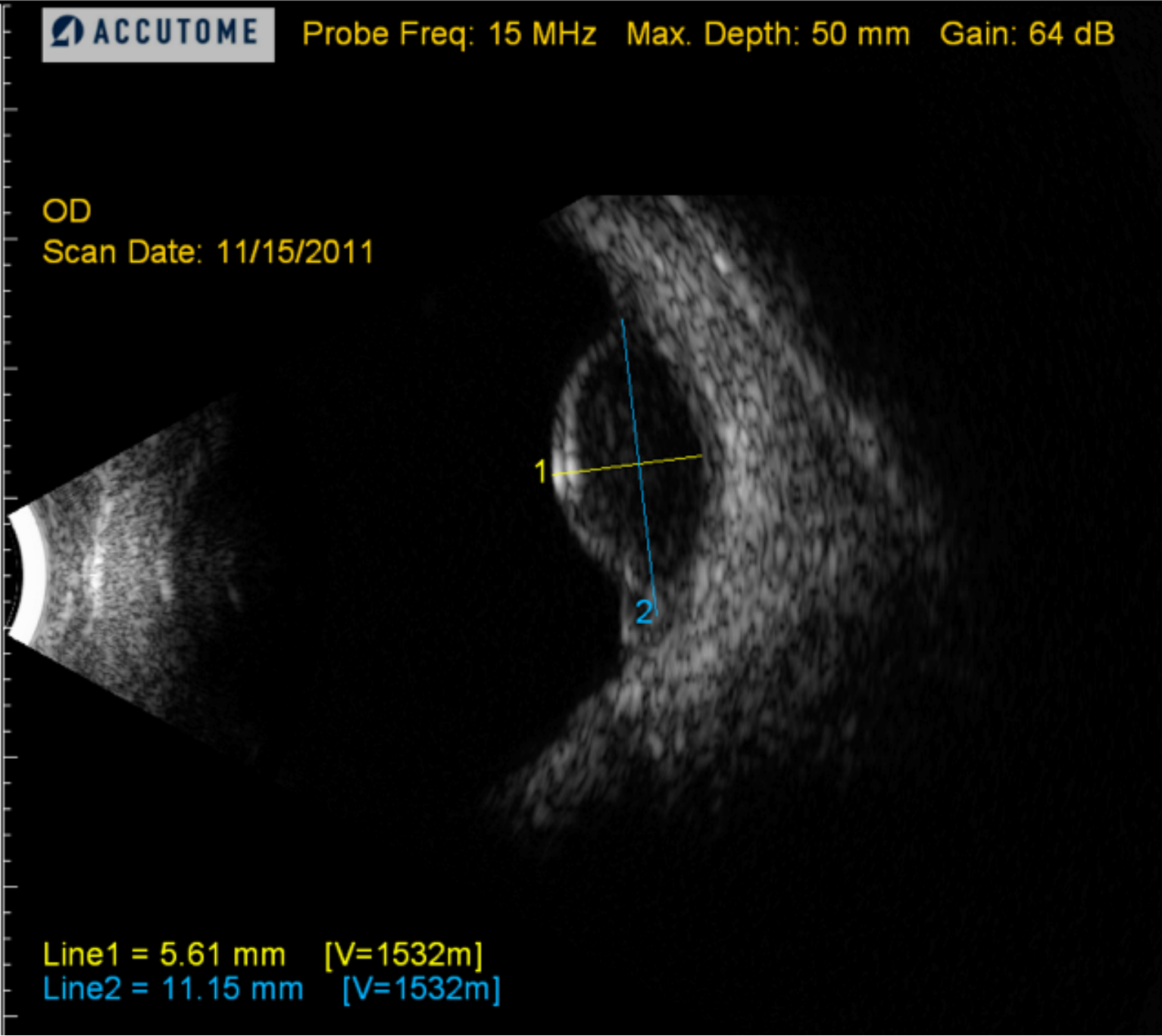
File: ●●●●●

PS image[4], type = Sagittal, size = 520 x 415 px, 1.30 MB



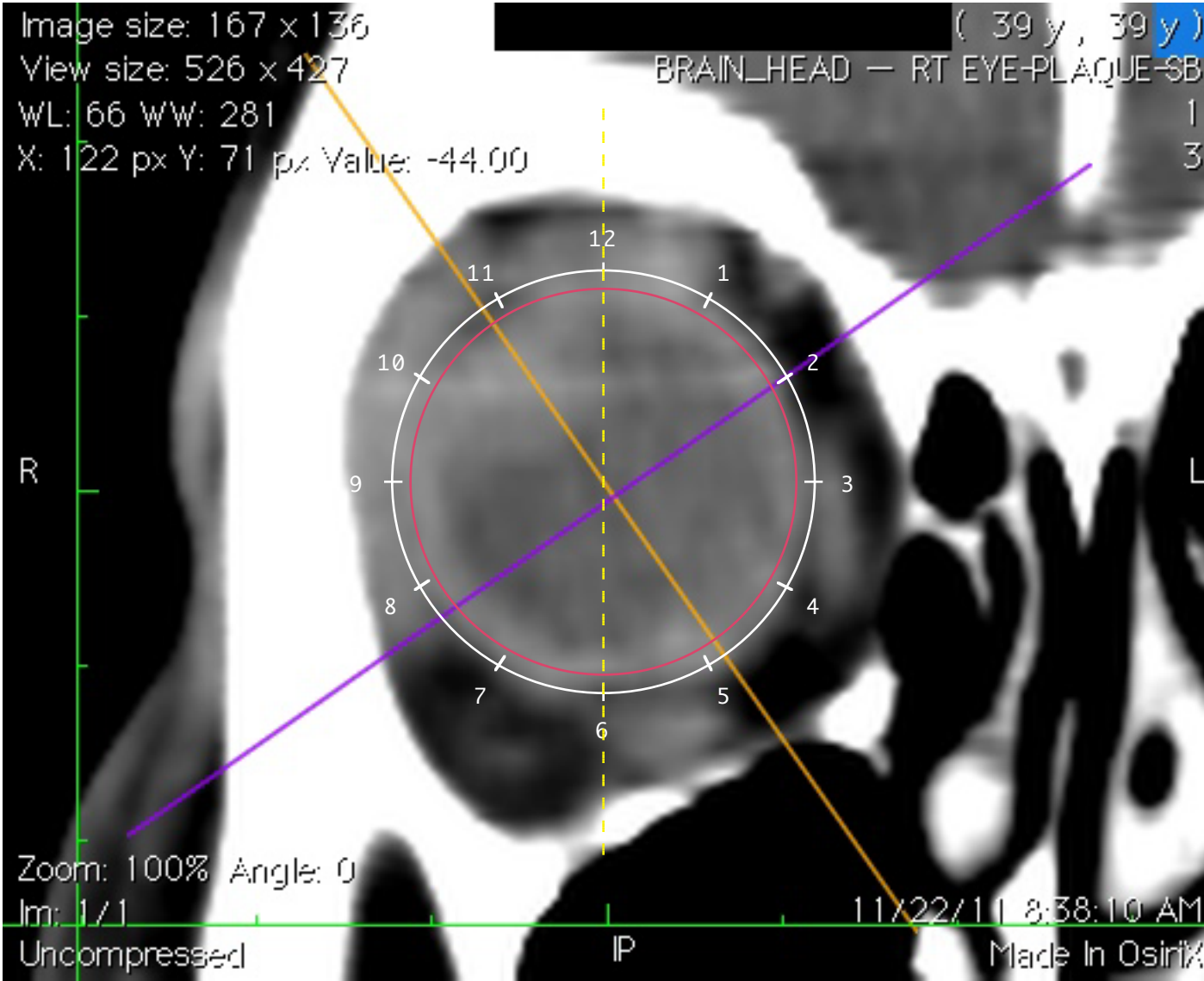
Plaque Simulator Image

Description: ultrasound showing tumor height
File: ●●●●●
PS image[2], type = Ultrasound, size = 638 x 569 px, 2.18 MB



Plaque Simulator Image

Description: coronal plane through the tumor
File: ●●●●●
PS image[5], type = T-Coronal, size = 523 x 426 px, 1.34 MB

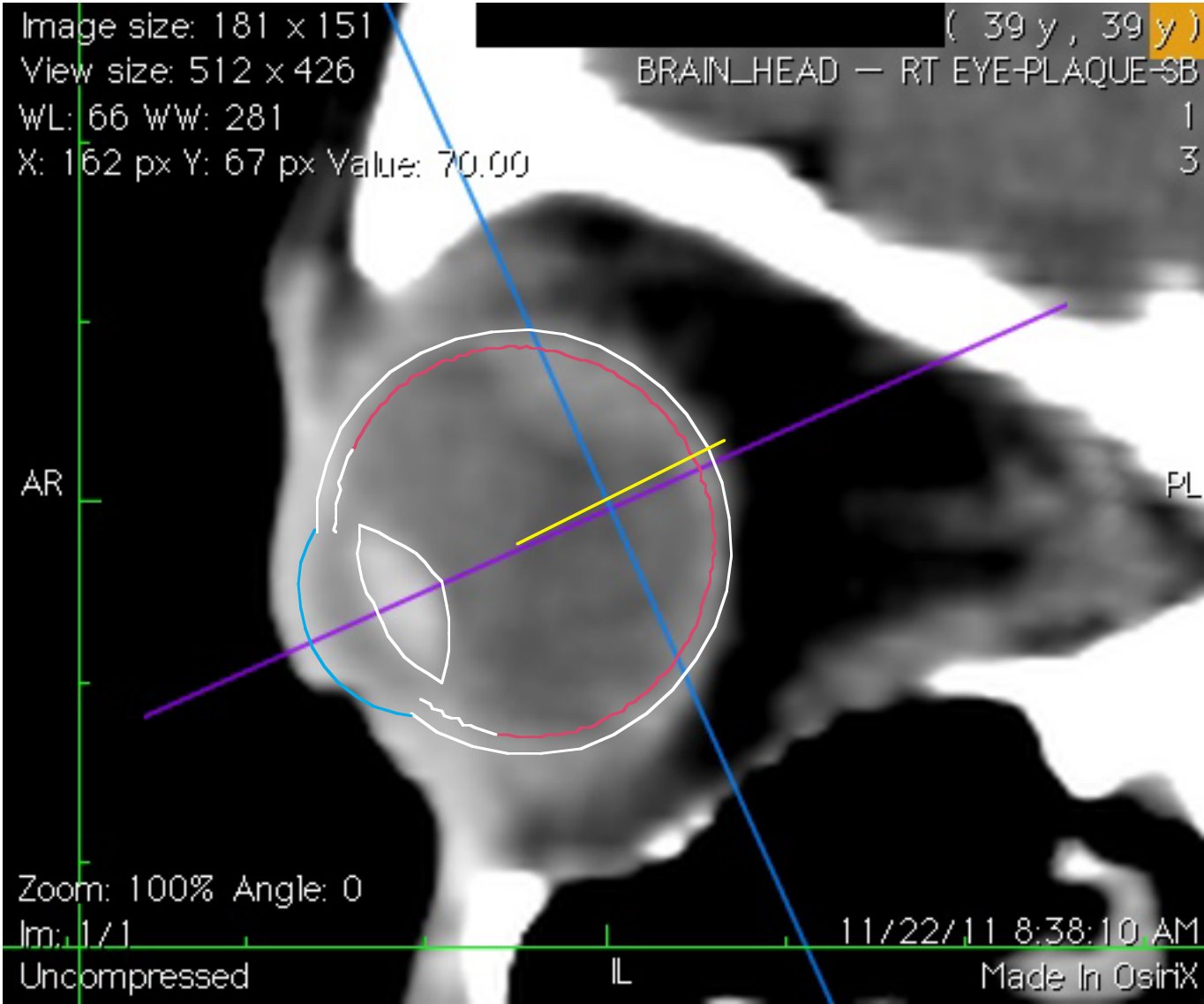


Plaque Simulator Image

Description: meridian plane through the tumor apex

File: ●●●●●

PS image[6], type = T-Meridian, size = 510 x 425 px, 1.30 MB

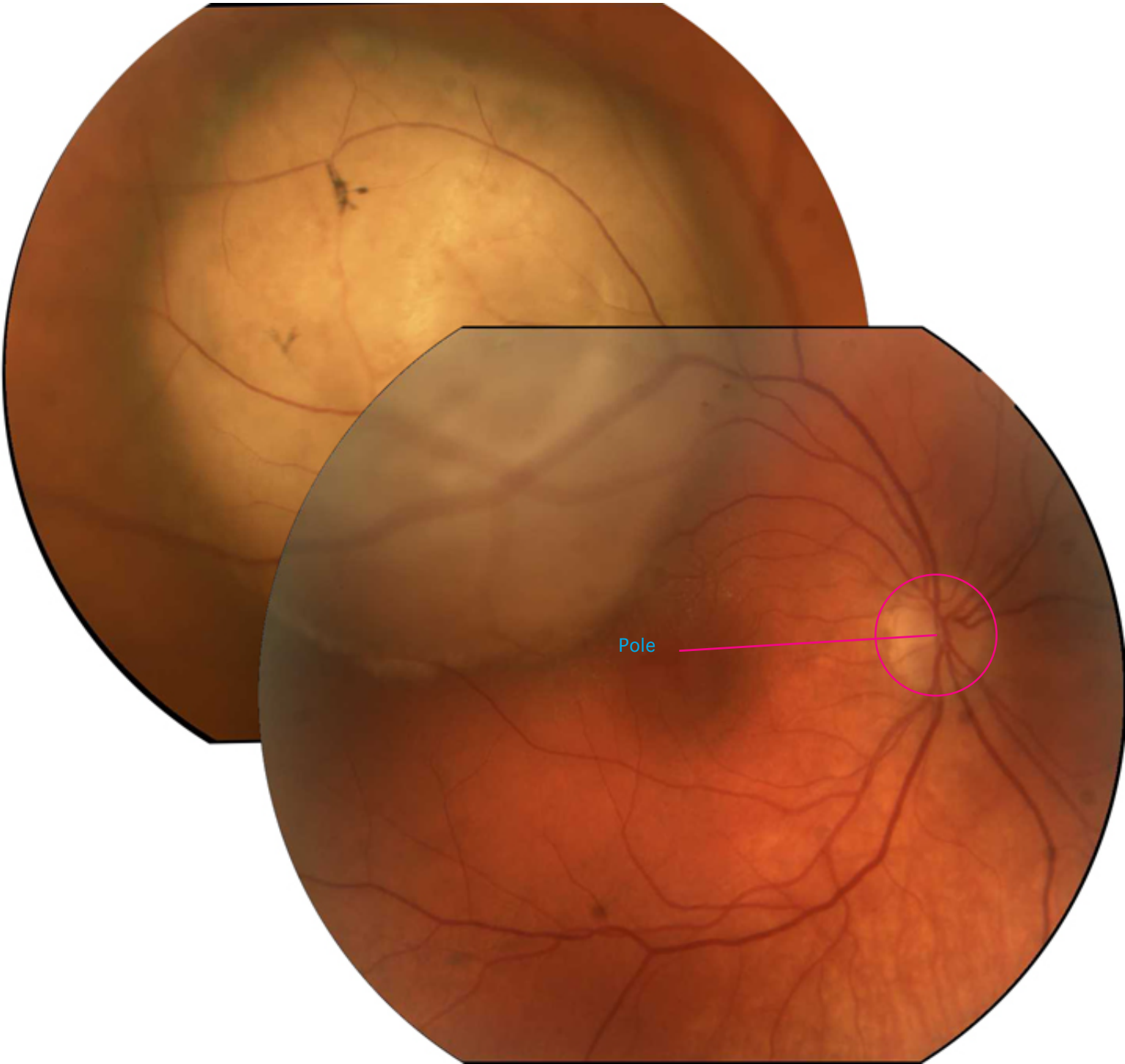


Plaque Simulator Image

Description: fundus collage

File: ●●●●●

PS image[1], type = Fundus, size = 719 x 678 px, 2.93 MB



Plaque Simulator Setup

