



Patient Name: Andrew Jackson, Patient ID: M3D0010

Plan Name: Base of tongue

Physician: Dr. S. Smith

Institution: East Hospital

Reference Dose: 58.6 Gy (Max Dose) in 25 Fractions

Delivery: Varian 21iX

Mobius3D Version: 1.0.0 Beta

Target Coverage	DVH Limits	3D Gamma	Deliverable

Notes

Approvals

Dosimetrist:	Date:
Physicist:	Date:
Physician:	Date:



Patient Name: Andrew Jackson

Patient ID: M3D0010

Received: Thu, July 26, 2012, 05:05 PM

Institution: East Hospital

Dose: 58.6 Gy (Max Dose)

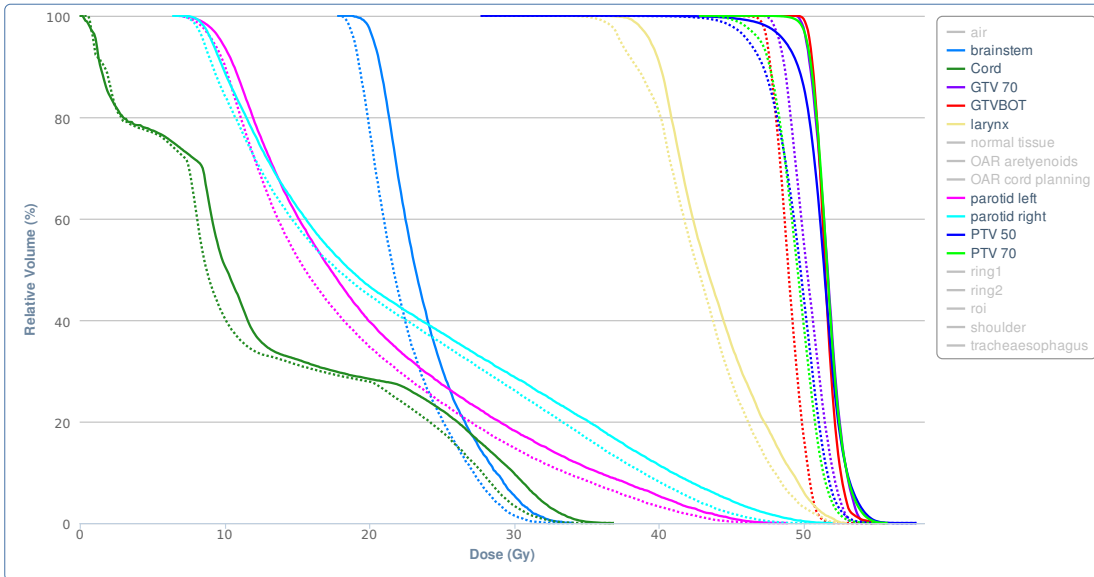
Checked: Thu, July 26, 2012, 05:05 PM

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DVH Graph



Solid: TPS; Dashed: Mobius3D

Target Coverage


TPS Name	Mean Dose			90% Coverage			Stray Voxels	
	TPS	M3D	% Diff	TPS	M3D	% Diff		
PTV 50	51.2 Gy	49.5 Gy	-3.0%	49.5 Gy	47.1 Gy	-4.1%	No	
GTV 70	51.6 Gy	50.2 Gy	-2.4%	50.4 Gy	48.6 Gy	-3.0%	No	
PTV 70	51.6 Gy	49.4 Gy	-3.7%	50.4 Gy	47.6 Gy	-4.9%	No	
GTVBOT	51.5 Gy	48.9 Gy	-4.4%	50.5 Gy	47.6 Gy	-5.0%	No	

DVH Limits

Limit Set Conventional Fractionation Tolerance Scaling 1.00

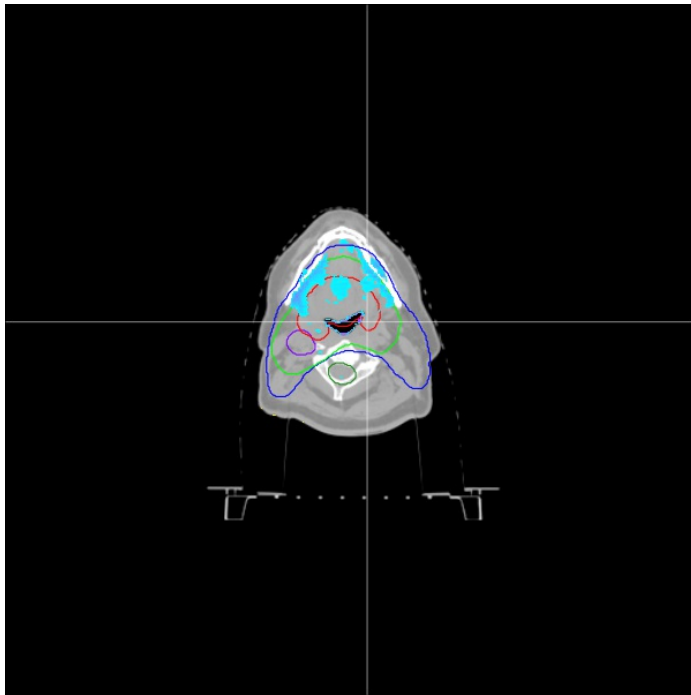
TPS Name	Limit Name	Volume	Dose	TPS	M3D
parotid right	Parotid gland (one)	50%	<30.0 Gy	18.5 Gy	17.7 Gy
parotid right	Parotid gland (one)	Mean	<26.0 Gy	22.5 Gy	21.3 Gy
parotid left	Parotid gland (one)	50%	<30.0 Gy	17.2 Gy	15.5 Gy
parotid left	Parotid gland (one)	Mean	<26.0 Gy	20.2 Gy	18.8 Gy
larynx	Glottic larynx	Mean	<45.0 Gy	43.9 Gy	42.9 Gy
brainstem	Brainstem	1%	<54.0 Gy	32.0 Gy	30.4 Gy
brainstem	Brainstem	Max	<60.0 Gy	33.9 Gy	32.2 Gy
Cord	Spinal cord	Max	<45.0 Gy	36.7 Gy	34.9 Gy

3D Gamma

Passing Rate	Criteria	Reference Dose	Threshold Dose	TPS Voxels	M3D Voxels
97.2% 	5.0% / 3.0 mm	58.6 Gy (Max Dose)	5.86 Gy	3.0 mm	3.0 mm

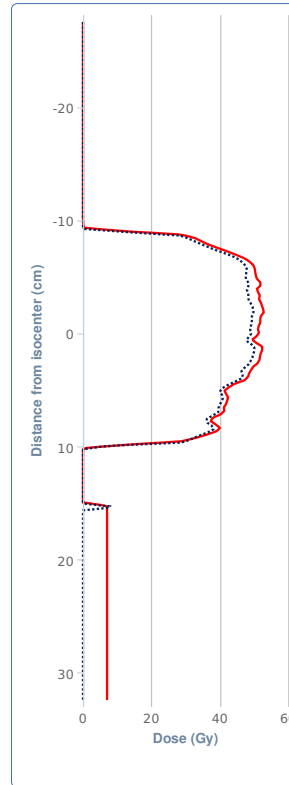
Transverse Gamma

Transverse Plane at 0.0 cm from Isocenter

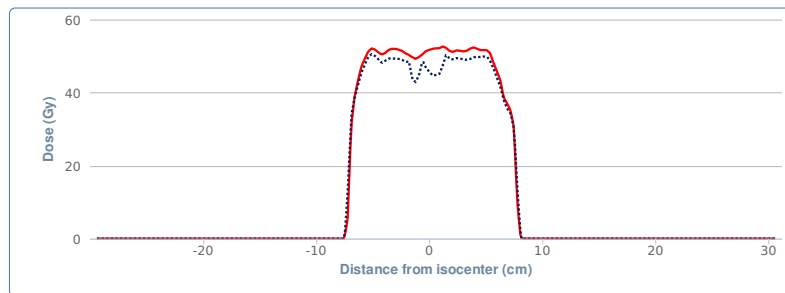


CT Table Height -17.32 cm from isocenter; CT couch removed.







Vertical Dose Profile



Horizontal Dose Profile



Solid: TPS; Dashed: Mobius3D

Gamma	M3D Dose
	≥ 2.0 Hottest
	1.5 Hotter
	1.0 Hot
	-1.0 Cool
	-1.5 Cooler
	≤ -2.0 Coolest



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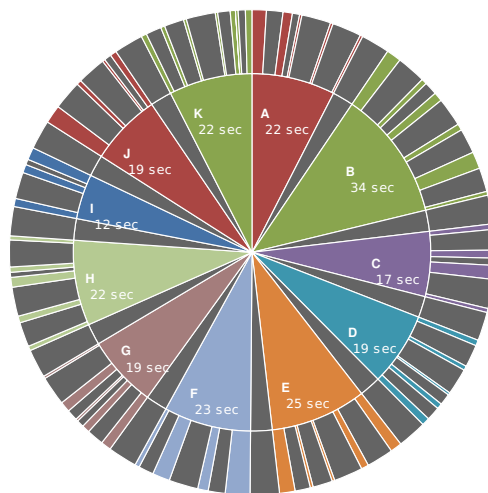
Beam Information

Number of Fractions Planned	25
Treatment Machine Name	Varian 21iX

Beam	A	B	C	D	E	F	G	H	I	J	K
Energy (MV)	6	6	6	6	6	6	6	6	6	6	6
MU	40.0	72.0	40.0	33.0	51.0	73.0	43.0	39.0	37.0	41.0	37.0
TPS Beam Dose (cGy)	25.2	23.8	15.8	12.3	23.0	30.9	21.8	12.6	12.3	19.6	11.5
M3D Beam Dose (cGy)	24.5	20.2	15.5	11.8	21.6	28.6	20.4	11.9	9.82	19.7	11.1
Dose Difference	-2.8%	-15.2%	-2.1%	-4.5%	-6.2%	-7.6%	-6.5%	-5.8%	-20.3%	0.9%	-4.2%
Control Points	10	12	8	10	10	8	10	10	6	8	14
X1 / X2 Jaws (cm)	-12.5 5.0	-12.5 5.0	-12.5 5.0	-12.5 5.0	-12.5 5.0	-12.5 5.0	-12.5 5.0	-12.5 5.0	-13.0 5.0	-13.0 5.0	-12.5 5.0
Y1 / Y2 Jaws (cm)	-11.0 13.0	-7.5 11.5	-7.5 7.5	-7.5 11.0	-9.5 12.5	-12.5 11.5	-13.0 9.0	-11.0 7.5	-8.0 7.5	-11.0 8.5	-12.5 12.0
Wedge	None	None	None	None	None	None	None	None	None	None	None
MLCs	SnS	SnS	SnS	SnS	SnS	SnS	SnS	SnS	SnS	SnS	SnS
Rotation	Static	Static	Static	Static	Static	Static	Static	Static	Static	Static	Static
Gantry	198.0°	231.0°	264.0°	297.0°	330.0°	0.0°	33.0°	66.0°	99.0°	132.0°	165.0°
Collimator	90.0°	90.0°	90.0°	90.0°	90.0°	90.0°	90.0°	90.0°	90.0°	90.0°	90.0°
Couch	0.0°	0.0°	0.0°	0.0°	0.0°	0.0°	0.0°	0.0°	0.0°	0.0°	0.0°
Gantry Clearance (cm)	✓ 14.7	✓ 6.38	✓ 9.0	✓ 15.6	✓ 22.2	✓ 26.1	✓ 20.7	✓ 15.0	✓ 7.42	✓ 6.16	✓ 15.7
Deliverable	✓ Yes	✓ Yes	✓ Yes	✓ Yes	✓ Yes	✓ Yes	✓ Yes	✓ Yes	✓ Yes	✓ Yes	✓ Yes

Delivery Information

Total Delivery Time: 4 min 48 sec
Beam On Time: 1 min 16 sec
Total MU: 506 MU





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ROI Overview

TPS Name	Volume	3D Gamma (5.0% / 3.0 mm)	Mean Dose			Density Override
			TPS	M3D	% Diff	
parotid right	21.7 cc	100.0%	22.5 Gy	21.3 Gy	-2.0%	None
parotid left	21.7 cc	98.5%	20.2 Gy	18.8 Gy	-2.5%	None
tracheaesophagus	33.3 cc	99.3%	39.6 Gy	38.1 Gy	-2.6%	None
larynx	27.4 cc	99.9%	43.9 Gy	42.9 Gy	-1.7%	None
air	1.84 cc	94.2%	36.0 Gy	33.6 Gy	-4.0%	None
brainstem	6.38 cc	100.0%	23.9 Gy	22.4 Gy	-2.6%	None
ring1	1734 cc	90.8%	49.7 Gy	48.2 Gy	-2.5%	None
shoulder	782 cc	100.0%	7.92 Gy	7.44 Gy	-0.8%	None
roi	734 cc	91.4%	51.1 Gy	49.5 Gy	-2.7%	None
ring2	5744 cc	96.9%	29.4 Gy	28.6 Gy	-1.5%	None
normal tissue	14499 cc	99.9%	4.31 Gy	4.16 Gy	-0.3%	None
PTV 50	1133 cc	87.5%	51.2 Gy	49.5 Gy	-3.0%	None
GTV 70	16.9 cc	96.5%	51.6 Gy	50.2 Gy	-2.4%	None
PTV 70	427 cc	76.4%	51.6 Gy	49.4 Gy	-3.7%	None
Cord	39.0 cc	97.3%	13.4 Gy	12.3 Gy	-1.9%	None
GTVBOT	61.8 cc	64.1%	51.5 Gy	48.9 Gy	-4.4%	None
OAR cord planning	135 cc	98.5%	15.7 Gy	14.7 Gy	-1.8%	None
OAR aretyenoids	2.18 cc	100.0%	45.6 Gy	44.8 Gy	-1.3%	None