



SciMoCa Version 1.4.0.001

Plan Information			
Patient Name:	HALCYON PROSTATE	Plan Name:	79Gy9fld
Patient DOB:	1/1/1946	Prescription:	79.20 Gy
Patient ID:	AAMDRSS2016PS	Fraction(s):	44
Institution:	Anonymous Hospital	Delivery Type:	DynamicIMRT
Physician:		Date Received:	07/30/2019
Machine Name:	HALCYON	Report Date:	07/30/2019
Template Applied:	Prostate RTOG-0815		

Approval		
Status:	Reviewed By:	Timestamp:
Approved	ADMINISTRATOR	07/30/2019 05:11 PM (GMT+02:00)

Notes	
variation in Dmax negligible. Approved. 07/30/2019 05:11 PM GMT+02:00	Status: APPROVED User: ADMINISTRATOR



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Metric Values	TPS	SMC	% Diff
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PTV (PTV_1)			
DMin (> 75.24 Gy) Per Protocol DMin (> 73.66 Gy) Variation Acceptable	77.81 Gy	76.69 Gy	1.44 %
D0.03cc (< 107.00 % Rx)	107.05 % Rx	107.72 % Rx	-0.67 %
V79.2Gy (> 98.00 %)	99.98 %	98.67 %	1.31 %

Bladder			
V80Gy (< 15.00 %) Per Protocol V80Gy (< 20.00 %) Variation Acceptable	1.13 %	0.78 %	0.35 %
V75Gy (< 25.00 %) Per Protocol V75Gy (< 30.00 %) Variation Acceptable	3.15 %	3.04 %	0.12 %
V70Gy (< 35.00 %) Per Protocol V70Gy (< 40.00 %) Variation Acceptable	4.49 %	4.37 %	0.12 %
V65Gy (< 50.00 %) Per Protocol V65Gy (< 55.00 %) Variation Acceptable	5.67 %	5.52 %	0.14 %

Rectum			
V75Gy (< 15.00 %) Per Protocol V75Gy (< 20.00 %) Variation Acceptable	2.80 %	2.87 %	-0.07 %
V70Gy (< 25.00 %) Per Protocol V70Gy (< 30.00 %) Variation Acceptable	5.10 %	5.05 %	0.05 %
V65Gy (< 35.00 %) Per Protocol V65Gy (< 40.00 %) Variation Acceptable	7.20 %	7.09 %	0.11 %
V60Gy (< 50.00 %) Per Protocol V60Gy (< 55.00 %) Variation Acceptable	9.39 %	9.21 %	0.18 %

Penile bulb (PenileBulb)			
DMean (< 52.50 Gy)	4.69 Gy	4.88 Gy	-3.90 %





Right Femoral Head (Femur_R)			
DMean (< 35.00 Gy)	23.68 Gy	23.40 Gy	1.18 %



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Left Femoral Head (Femur_L)

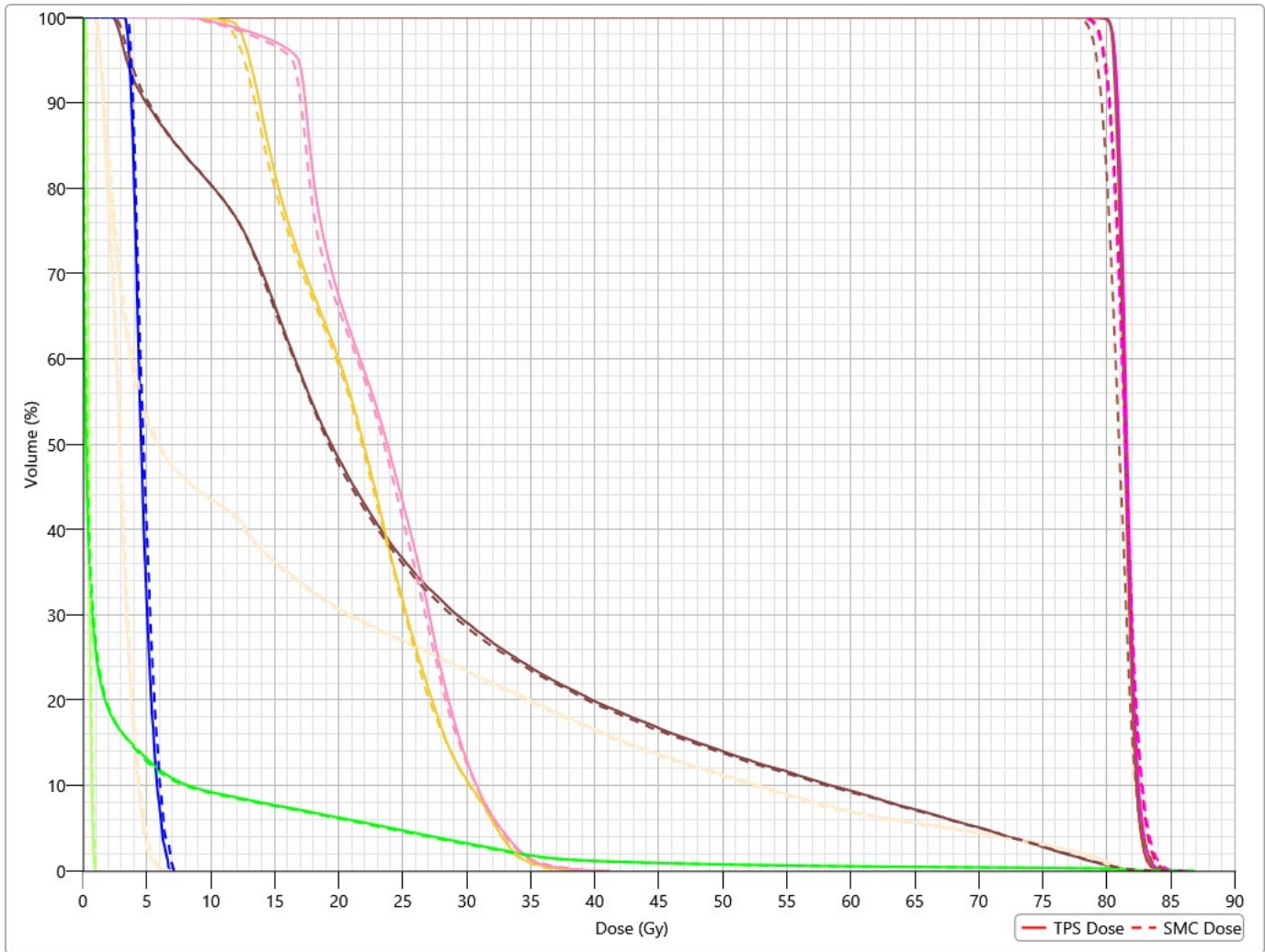
DMean (< 35.00 Gy)	21.81 Gy	21.62 Gy	0.87 %
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	Meets Limit
	Within Limits/Variation Acceptable
	Below/Exceeds Limit
	ROI not mapped



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Dose Volume Histogram



Structures	Min Dose (Gy)		Max Dose (Gy)		Mean Dose (Gy)			Total Volume (cc)	Density Override
	TPS	SMC	TPS	SMC	TPS	SMC	% Diff		
Prostate	77.81	76.69	84.75	85.43	81.56	81.48	0.11 %	48.54	-
PTV	77.81	76.69	85.58	86.90	81.64	81.46	0.23 %	93.63	-
Seminal Vesicles	79.62	77.77	84.85	85.02	81.48	80.96	0.66 %	5.96	-
Bladder	0.86	0.84	83.29	82.87	17.74	17.67	0.09 %	388.65	-
Rectum	2.31	2.32	83.72	85.91	25.65	25.51	0.18 %	56.87	-



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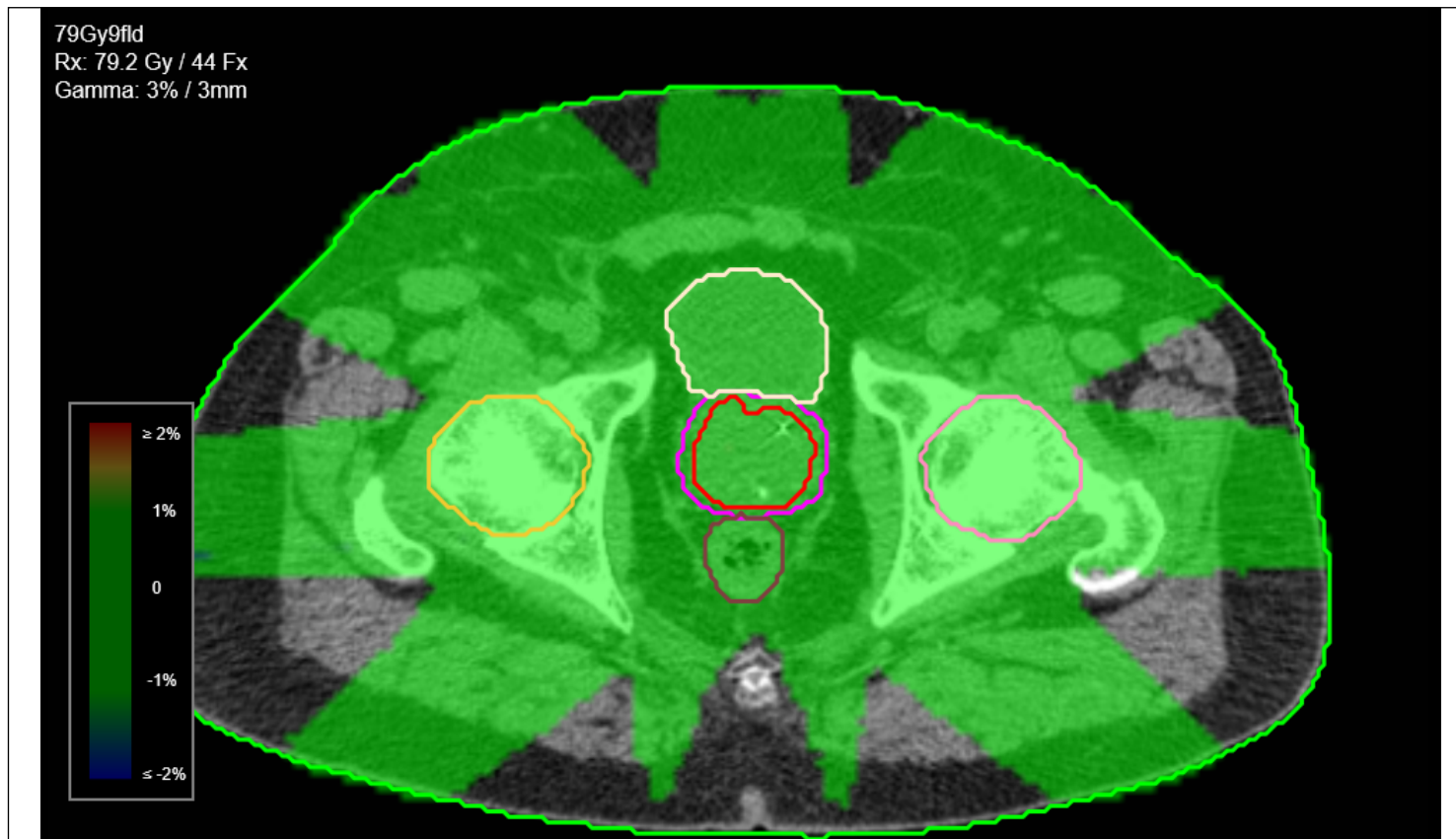
Structures	Min Dose (Gy)		Max Dose (Gy)		Mean Dose (Gy)			Total Volume (cc)	Density Override
	TPS	SMC	TPS	SMC	TPS	SMC	% Diff		
Bowel	1.01	0.98	7.14	7.23	2.91	3.02	-0.15 %	55.37	-
Left Femoral Head	8.97	8.59	40.52	40.37	21.81	21.62	0.24 %	79.20	-
Right Femoral Head	7.98	7.76	41.12	41.21	23.68	23.40	0.35 %	81.18	-
Testes	0.01	0.17	1.10	1.32	0.47	0.54	-0.08 %	178.76	-
Penile bulb	3.31	3.33	6.91	7.22	4.69	4.88	-0.23 %	3.83	-
BODY	0.00	0.00	85.58	86.90	3.32	3.32	0.00 %	48568.58	-

Gamma Analysis

Passing Rate	Criteria	Dose Cut-Off	Reference Dose	Analysis	TPS Voxel Size (mm)	SMC Voxel Size (mm)
99.9%	3.0% / 3 mm	10.0%	TPS	Global	3.00, 3.00, 3.00	3.00, 3.00, 3.00



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T: 417 mm

Structures List:

Prostate	PTV	Bladder	Rectum	Left Femoral Head	Right Femoral Head	BODY
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Patient:	HALCYON PROSTATE	ID:	AAMDRSS20 16PS
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Beam Information Table

Shared Beam Information	
Dose Gradient at Specification Point	0.76
Density at Specification Point	0.86
Density Gradient at Specification Point	0.04
Beam Dose Specification Point	-3.80, -4.50, -425.10
Energy (MV)	6FFF
Couch	0.00°
Collimator	0.00°
Beam Type	DynamicIMRT

Beam	1	2	3	4	5	6
Beam Name	IM230	IM265	IM295	IM320	IM0	IM40
TPS MU	48.31	89.83	74.72	59.52	95.99	70.13
SMC MU	46.75	86.93	72.30	57.60	92.89	67.87
TPS Beam Dose (Gy)	0.27	0.10	0.23	0.27	0.12	0.25
SMC Beam Dose (Gy)	0.28	0.10	0.24	0.28	0.12	0.26
Beam Dose Difference	-3.23%	-3.23%	-3.23%	-3.23%	-3.23%	-3.23%
Gantry	230.00°	265.00°	295.00°	320.00°	0.00°	40.00°

Beam	7	8	9
Beam Name	IM65	IM95	IM130
TPS MU	67.77	79.51	48.77
SMC MU	65.58	76.94	47.19
TPS Beam Dose (Gy)	0.23	0.13	0.25
SMC Beam Dose (Gy)	0.23	0.14	0.26
Beam Dose Difference	-3.23%	-3.23%	-3.23%
Gantry	65.00°	95.00°	130.00°



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Plan Settings

Calculation Parameters

Grid Voxel Size:	3.0, 3.0, 3.0 mm	Couch Removal:	Yes
Minimum Uncertainty:	Fast	Beam Model:	HALO6FFF
External Density Threshold:	g/cm ³	CT Density Table:	ICCCTtoED
Calibration:	DoseToMedium	CT Density Type:	Mass Density

Template

Template Name:	Prostate RTOG-0815	Fractions:	44
Template Last Modified:	Jul 30, 2019	Prescription:	79.20 Gy

Unmapped ROIs

Prostate	Seminal Vesicles
Bowel	Testes
BODY	