

Prova pratica: piano prostata

Paziente di 70aa; intermediate risk, nessuna comorbidità:

- a) descriva il processo di pianificazione dalla TAC alla prima seduta
- b) nomini gli organi a rischio e le corrispondenti dosi tollerate (TD 5/5) in trattamento radiante, nonché i possibili effetti tardivi sulla base della pubblicazione di Emami nel Red Journal 1995 e secondo i recenti dati QUANTEC.
- c) diuisione e interpretazione del piano
- d) conosce tecniche alternative

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Plan Report

Patient data

Patient ID
 Patient name
 Patient gender
 Patient birth date
 Case data

Case name	Prostata
Physician	-
Body site	-

Treatment plan data

Treatment plan name	Prostata Vmat
Plan last save time	14 May 2018, 10:18:40 (hr:min:sec)
Planned by	
Number of beam sets	2
Patient treatment position	HFS : Head First Supine
Treatment plan approval data	
Approved	Yes
Approved by	RAYSTATION\raybz
Approval time	14 May 2018, 10:18:40 (hr:min:sec)
Plan comment	
Planning image set	
Name	CT 1
Modality	CT
Imaging system	AquilionLB 29 Jan 2014, 14:04:29 (hr:min:sec)
Patient scanning position	HFS
Series date and time	24 Apr 2018, 13:12:40 (hr:min:sec)
Acquisition date and time	24 Apr 2018, 13:12:49 (hr:min:sec)
External ROI	External

General data

Treatment planning system	RayStation 7 (7.0.0.19)
Report creation time	06 Jun 2018, 08:31:31 (hr:min:sec)
Time zone info	UTC+02:00 (using daylight saving time)
Template name	Report BZ_Ver12_7
Patient coordinate system	IEC 61217

Signatures

06/06/2018 
 Signature 1 (Name/Signature/Date)

Signature 2 (Name/Signature/Date)

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Plan dose data

Isocenter name

● Prostata Vmat 1

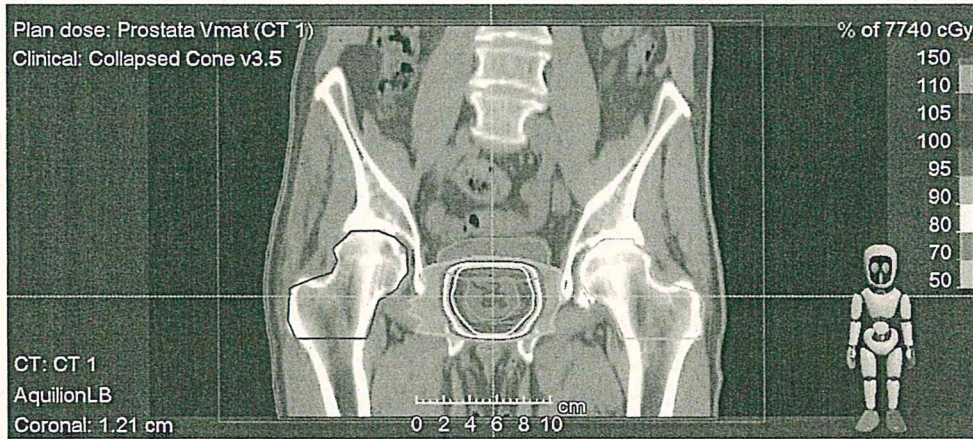
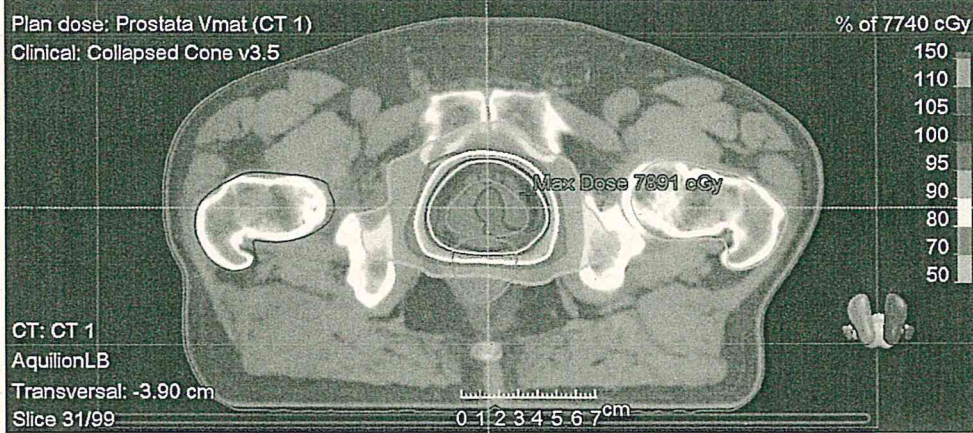
● Prostata Vmat_2 1

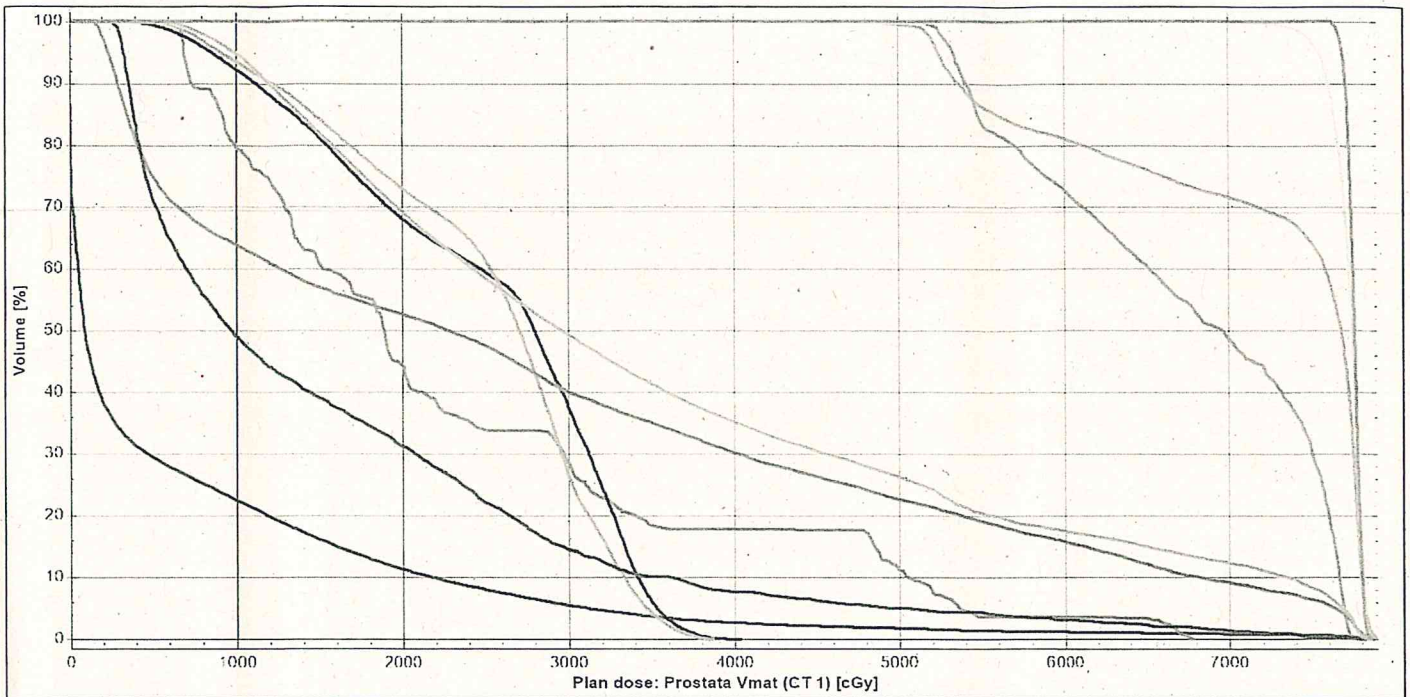
Isocenter [cm]

Right-Left: -1.97 Inf-Sup: -3.89 Post-Ant: 1.21

Dose grid resolution [cm]

Right-Left: 0.20 Inf-Sup: 0.20 Post-Ant: 0.20





POI Dose statistics

Dose	POI	Dose [cGy]	Position		
			Right-Left: [cm]	Inf-Sup: [cm]	Post-Ant: [cm]
Plan dose: Prostata Vmat (CT 1)	● Reference point	3617	-0.17	0	0.06

ROI Dose statistics [Plan dose]

Name	Volume [cm ³]	D99 [cGy]	D98 [cGy]	D95 [cGy]	Average [cGy]	D50 [cGy]	D2 [cGy]	D1 [cGy]	% outside grid
■ analcanal	20.87	291	303	329	1619	972	6696	7140	0
■ bladder	186.66	728	811	994	3552	2964	7758	7779	0
■ External	16660.65	0	0	0	665	93	4605	6389	0
■ femoral head left	160.75	670	748	914	2475	2711	3611	3691	0
■ femoral head right	177.74	572	668	860	2479	2803	3663	3743	0
■ penile bulb	2.57	680	685	700	2387	1890	6656	6703	0
■ prostata	24.11	7653	7666	7690	7757	7761	7824	7831	0
■ PTV 1	143.03	5136	5184	5241	7139	7677	7838	7852	0
■ PTV 2	92.95	7371	7458	7549	7721	7744	7847	7859	0
■ rectum	112.52	184	199	239	2824	2282	7757	7790	0
■ Seminal Vesicle	10.83	5233	5261	5334	6723	6968	7708	7717	0

■ External This ROI is set as the external ROI that defines the outer border of the patient

Clinical Goals (Plan dose)

Prio	R O I	Clinical goal	Value	Fulfilled	% outside grid
	rectum	At most 50.00 % volume at 5000 cGy dose	22.68 %	● Yes	0 %
	rectum	At most 35.00 % volume at 6000 cGy dose	15.75 %	● Yes	0 %
	rectum	At most 25.00 % volume at 6500 cGy dose	12.20 %	● Yes	0 %
	rectum	At most 20.00 % volume at 7000 cGy dose	9.10 %	● Yes	0 %
	bladder	At most 50.00 % volume at 6500 cGy dose	14.98 %	● Yes	0 %
	bladder	At most 35.00 % volume at 7000 cGy dose	12.28 %	● Yes	0 %
	bladder	At most 25.00 % volume at 7500 cGy dose	8.30 %	● Yes	0 %
	femoral head left	At most 4500 cGy average dose	2475 cGy	● Yes	0 %
	femoral head right	At most 4500 cGy average dose	2479 cGy	● Yes	0 %

Evaluated on Plan Dose

ROI properties

Name	Material	Mass density [g/cm ³]
ibeam	Carbon fiber	1.700

Beam Set overview

Beam Set name	Prostata Vmat
Treatment technique	VMAT
Treatment unit	SynBz-3160
Number of beams	2

Beam Set overview

Beam Set name	boost
Treatment technique	3D-CRT
Treatment unit	SynBz-3160
Number of beams	5

Warnings [Prostata Vmat]

Warnings confirmed at report creation by: RAYSTATION\raybz.

- The ROI 'PTV 1' is derived but it has been overridden on image set 'CT 1'.

Warnings [boost]

Warnings confirmed at report creation by: RAYSTATION\raybz.

- The ROI 'PTV 1' is derived but it has been overridden on image set 'CT 1'.

Beam Set Report

Beam Set data

Beam Set name	Prostata Vmat
Modality	Photons
Treatment technique	VMAT
Number of beams	2
Number of segments	230
DICOM Plan UID	1.2.752.243.1.1.20180514101809899.8000.81034
Planning image set	CT 1
CT to density table	AquilionLB 29 Jan 2014, 14:04:29 (hr:min:sec)
Treatment unit	SynBz-3160
Commission time	18 May 2016, 15:07:11 (hr:min:sec)
Treatment machine scale	IEC 61217
Jaw labeling standard	IEC 61217
Energy [MV]	6.00
Dose calculation algorithm	Collapsed Cone, Version 3.5
Density calculation algorithm version	2.0
MU per fraction	438.85
Number of fractions	28
ROI(s) with density override	ibeam
Beam set approval data	
Approved	Yes
Approved by	RAYSTATION\raybz
Approval time	14 May 2018, 10:18:09 (hr:min:sec)
Structure set UID	1.2.752.243.1.1.20180514101700402.4000.61035
Structure set approval data	
Approved	Yes
Approved by	RAYSTATION\raybz
Approval time	14 May 2018, 10:18:09 (hr:min:sec)

Beam Data Overview [●Right-Left: -1.97 Inf-Sup: -3.89 Post-Ant: 1.21]

#	Beam name	Number of segments	Maximum jaw aperture [cm]		Start gantry angle [deg]	Stop gantry angle [deg]	Coll. angle [deg]	Couch angle [deg]	MU per fraction	Bolus [Y/N]
			Y1	Y2						
1	arc1	115	-4.00	5.50	190.0	170.0	350.0	0.0	214.98	N
2	arc2	115	-4.00	5.50	170.0	190.0	10.0	0.0	223.87	N

Prescription

Prescription	180 cGy x 28 fx = 5040 cGy
Prescription Type	Median dose (D50%)
ROI	PTV 1
Fulfillment	●Fulfilled (180 cGy x 28 fx = 5040 cGy)
Dose type	Relates to beam set dose

Patient setup

Localization point	
POI	●Reference point
Treatment position	HFS : Head First Supine
Position [cm]	X(Right-Left) = -0.17 , Y(Inf-Sup) = 0 , Z(Post-Ant) = 0.06
Patient setup	
Beams	arc1, arc2
Isocenter [cm]	●Prostata Vmat 1 - X(R-L) = -1.97 , Y(I-S) = -3.89 , Z(P-A) = 1.21
Localization point - Isocenter [cm]	X(R-L) = 1.8 , Y(I-S) = 3.89 , Z(P-A) = -1.15

Position patient such that lasers line up with patient marks.
 Perform the couch shift so that the PATIENT is moved according to the instructions below:
 Left 1.8 cm (patient's left)
 Superior 3.89 cm
 Posterior 1.15 cm

Beamset dose data

Isocenter name

Isocenter [cm]

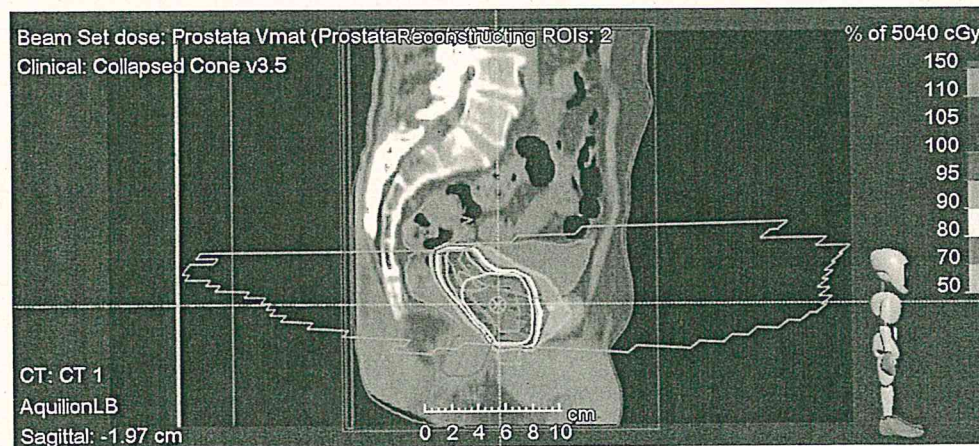
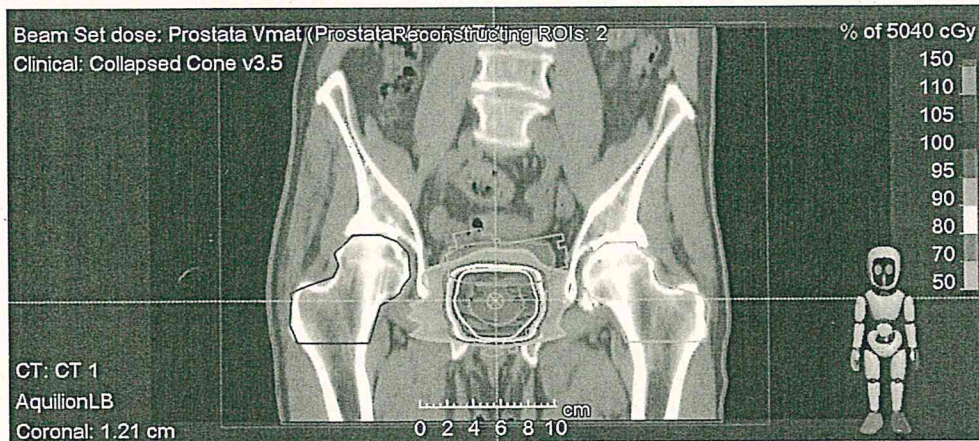
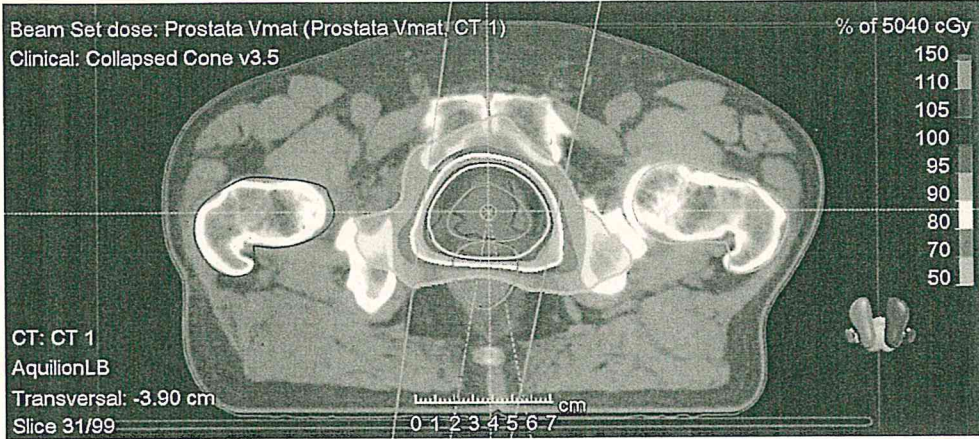
Dose grid resolution [cm]

Beams

● Prostata Vmat 1

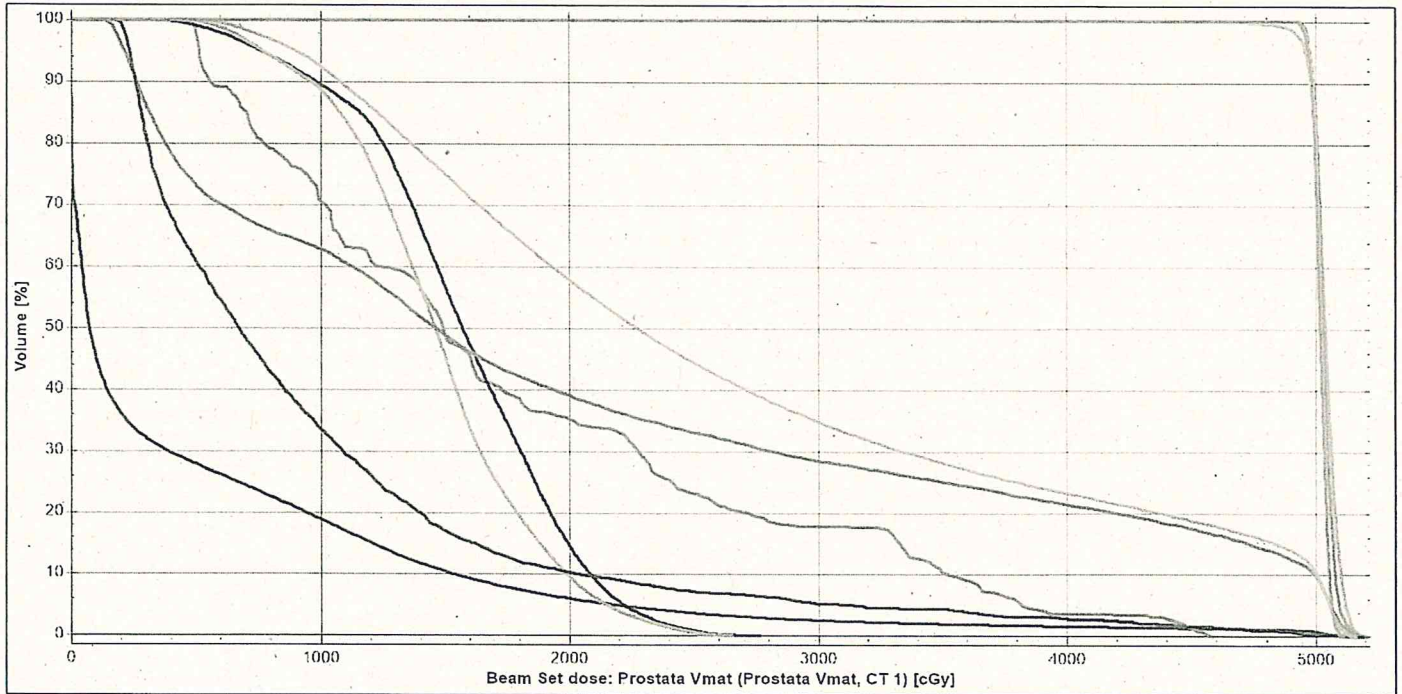
Right-Left: -1.97 Inf-Sup: -3.89 Post-Ant: 1.21

Right-Left: 0.20 Inf-Sup: 0.20 Post-Ant: 0.20
arc1, arc2



Points Of Interest

Name	Reference point	Beam isocenters [cm]		Point - Isocenter [cm]
		Localization point	Right-Left: -1.97	Right-Left: 1.80
Type	3447 [Interpolated]	Inf-Sup: -3.89	Inf-Sup: 3.89	Inf-Sup: 3.89
Dose [cGy]		Post-Ant: 1.21	Post-Ant: -1.15	Post-Ant: -1.15
Location [cm]	Right-Left: -0.17			
	Inf-Sup: 0			
	Post-Ant: 0.06			



POI Dose statistics

Dose	POI	Dose [cGy]	Position		
			Right-Left: [cm]	Inf-Sup: [cm]	Post-Ant: [cm]
Beam Set dose: Prostata Vmat (Prostata Vmat, CT 1)	● Reference point	3447	-0.17	0	0.06

ROI Dose statistics [Beam Set dose]

Name	Volume [cm ³]	D99 [cGy]	D98 [cGy]	D95 [cGy]	Average [cGy]	D50 [cGy]	D2 [cGy]	D1 [cGy]	% outside grid
■ analcanal	20.87	206	215	235	980	677	4292	4732	0
■ bladder	186.66	658	731	898	2664	2277	5089	5109	0
■ External	16660.65	0	0	0	491	73	3384	4862	0
■ femoral head left	160.75	587	649	770	1466	1461	2334	2431	0
■ femoral head right	177.74	505	593	762	1562	1572	2374	2471	0
■ penile bulb	2.57	495	501	514	1791	1492	4466	4512	0
■ prostata	24.11	4948	4956	4970	5019	5018	5076	5085	0
■ PTV 1	143.03	4881	4922	4959	5039	5040	5144	5158	0
■ PTV 2	92.95	4878	4922	4959	5035	5035	5134	5145	0
■ rectum	112.52	164	178	213	2042	1462	5102	5126	0
■ Seminal Vesicle	10.83	4957	4964	4976	5033	5030	5120	5144	0

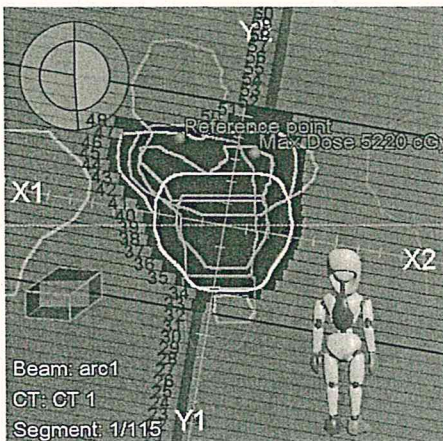
■ External This ROI is set as the external ROI that defines the outer border of the patient

Beam data

Beam name	arc1
Beam number	1
Beam description	
Patient coordinate system	IEC 61217
Isocenter [cm]	● Prostata Vmat 1 - Right-Left: -1.97 Inf-Sup: -3.89 Post-Ant: 1.21
Start gantry angle [deg]	190.0
Stop gantry angle [deg]	170.0
Rotation direction	CW
Collimator angle [deg]	350.0
Couch angle [deg]	0.0
Treatment technique	VMAT
Number of fractions	28
Beam MU/fraction	214.98
Total beam MU	6019.57
Beam weight [%]	49.0
Number of segments	115
Dose calculation algorithm	Collapsed Cone, Version 3.5
Treatment unit	SynBz-3160
Commission time	18 May 2016, 15:07:11 (hr:min:sec)
Energy [MV]	6.00
Jaw max aperture width [cm]	-
X1 [cm]	-
X2 [cm]	-
Jaw max aperture height [cm]	9.50
Y1 [cm]	-4.00
Y2 [cm]	5.50
Source to skin distance (isocenter) [cm]	89.09
Source to surface distance (isocenter) [cm]	88.54
Bolus data	
No bolus	

Beam dose specification point

Coordinates [cm]	Isocenter
Dose per fraction [cGy]	88.3
Physical depth [cm]	14.11
Water equivalent depth [cm]	14.29
Source to skin distance [cm]	89.09
Source to surface distance [cm]	88.54

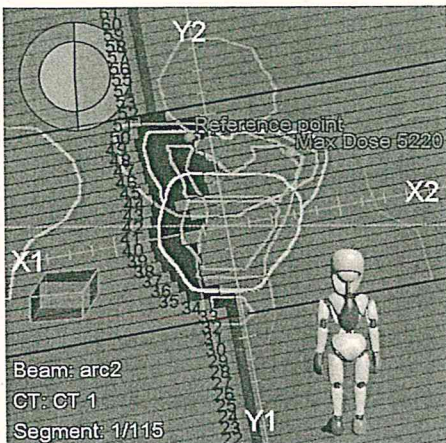


Beam data

Beam name	arc2
Beam number	2
Beam description	
Patient coordinate system	IEC 61217
Isocenter [cm]	Prostata Vmat 1 - Right-Left: -1.97 Inf-Sup: -3.89 Post-Ant: 1.21
Start gantry angle [deg]	170.0
Stop gantry angle [deg]	190.0
Rotation direction	CCW
Collimator angle [deg]	10.0
Couch angle [deg]	0.0
Treatment technique	VMAT
Number of fractions	28
Beam MU/fraction	223.87
Total beam MU	6268.26
Beam weight [%]	51.0
Number of segments	115
Dose calculation algorithm	Collapsed Cone, Version 3.5
Treatment unit	SynBz-3160
Commission time	18 May 2016, 15:07:11 (hr:min:sec)
Energy [MV]	6.00
Jaw max aperture width [cm]	-
X1 [cm]	-
X2 [cm]	-
Jaw max aperture height [cm]	9.50
Y1 [cm]	-4.00
Y2 [cm]	5.50
Source to skin distance (isocenter) [cm]	89.09
Source to surface distance (isocenter) [cm]	88.54
Bolus data	
No bolus	

Beam dose specification point

Coordinates [cm]	Isocenter
Dose per fraction [cGy]	88.3
Physical depth [cm]	14.11
Water equivalent depth [cm]	14.28
Source to skin distance [cm]	89.09
Source to surface distance [cm]	88.54



Beam Set Report

Beam Set data

Beam Set name	boost
Modality	Photons
Treatment technique	3D-CRT
Number of beams	5
Number of segments	5
DICOM Plan UID	1.2.752.243.1.1.20180514101840364.9000.28638
Planning image set	CT 1
CT to density table	AquilionLB 29 Jan 2014, 14:04:29 (hr:min:sec)
Treatment unit	SynBz-3160
Commission time	18 May 2016, 15:07:11 (hr:min:sec)
Treatment machine scale	IEC 61217
Jaw labeling standard	IEC 61217
Energy [MV]	15.00
Dose calculation algorithm	Collapsed Cone, Version 3.5
Density calculation algorithm version	2.0
MU per fraction	223.79
Number of fractions	15
ROI(s) with density override	ibeam
Beam set approval data	
Approved	Yes
Approved by	RAYSTATION\raybz
Approval time	14 May 2018, 10:18:40 (hr:min:sec)
Structure set UID	1.2.752.243.1.1.20180514101700402.4000.61035
Structure set approval data	
Approved	Yes
Approved by	RAYSTATION\raybz
Approval time	14 May 2018, 10:18:09 (hr:min:sec)

Beam Data Overview [Right-Left: -1.97 Inf-Sup: -3.89 Post-Ant: 1.21]

#	Beam name	Number of segments	Maximum jaw aperture [cm]		Gantry angle [deg]	Coll. angle [deg]	Couch angle [deg]	MU per fraction	Bolus [Y/N]	Block [Y/N]
			Y1	Y2						
1	b_ap1	1	-3.29	2.68	320.0	0.0	0.0	35.81	N	N
2	b_relat	1	-3.28	2.70	270.0	0.0	0.0	53.71	N	N
3	b_pa	1	-3.26	2.70	180.0	0.0	0.0	44.76	N	N
4	b_lilat	1	-3.28	2.70	90.0	0.0	0.0	53.71	N	N
5	b_ap2	1	-3.29	2.68	40.0	0.0	0.0	35.81	N	N

Prescription

Prescription	180 cGy x 15 fx = 2700 cGy
Prescription Type	Median dose (D50%)
ROI	PTV 2
Fulfillment	<input checked="" type="radio"/> Fulfilled (180 cGy x 15 fx = 2700 cGy)
Dose type	Relates to beam set dose

Patient setup

Localization point	
POI	<input checked="" type="radio"/> Reference point
Treatment position	HFS : Head First Supine
Position [cm]	X(Right-Left) = -0.17 , Y(Inf-Sup) = 0 , Z(Post-Ant) = 0.06
Patient setup	
Beams	b_ap1, b_relat, b_pa, b_lilat, b_ap2
Isocenter [cm]	<input checked="" type="radio"/> Prostate Vmat_2 1 - X(R-L) = -1.97 , Y(I-S) = -3.89 , Z(P-A) = 1.21
Localization point - Isocenter [cm]	X(R-L) = 1.8 , Y(I-S) = 3.89 , Z(P-A) = -1.15

Position patient such that lasers line up with patient marks.
 Perform the couch shift so that the PATIENT is moved according to the instructions below:
 Left 1.8 cm (patient's left)
 Superior 3.89 cm
 Posterior 1.15 cm

Beamset dose data

Isocenter name

Isocenter [cm]

Dose grid resolution [cm]

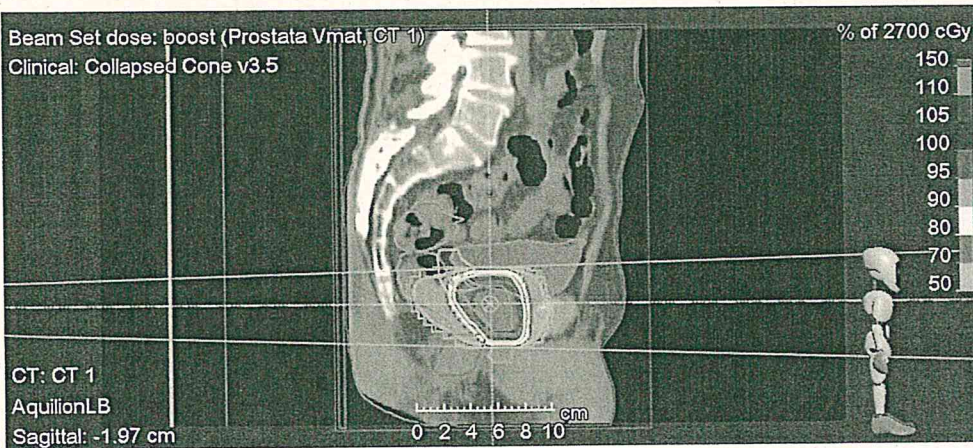
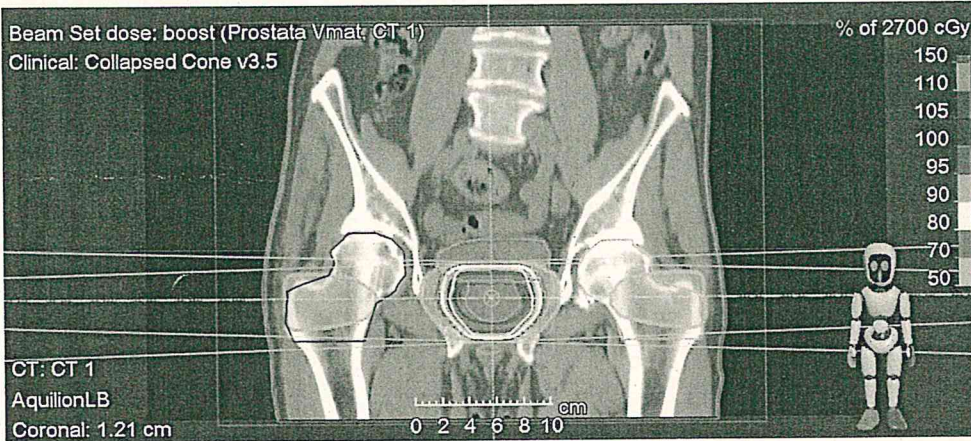
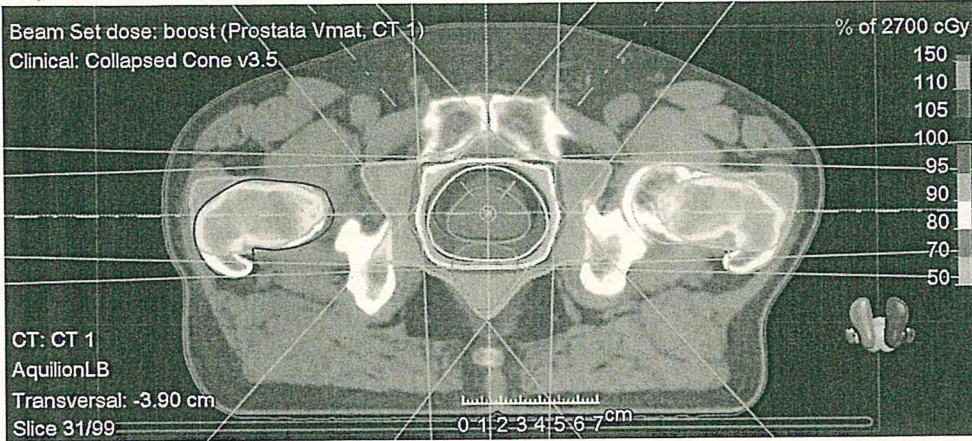
Beams

● Prostata Vmat_2 1

Right-Left: -1.97 Inf-Sup: -3.89 Post-Ant: 1.21

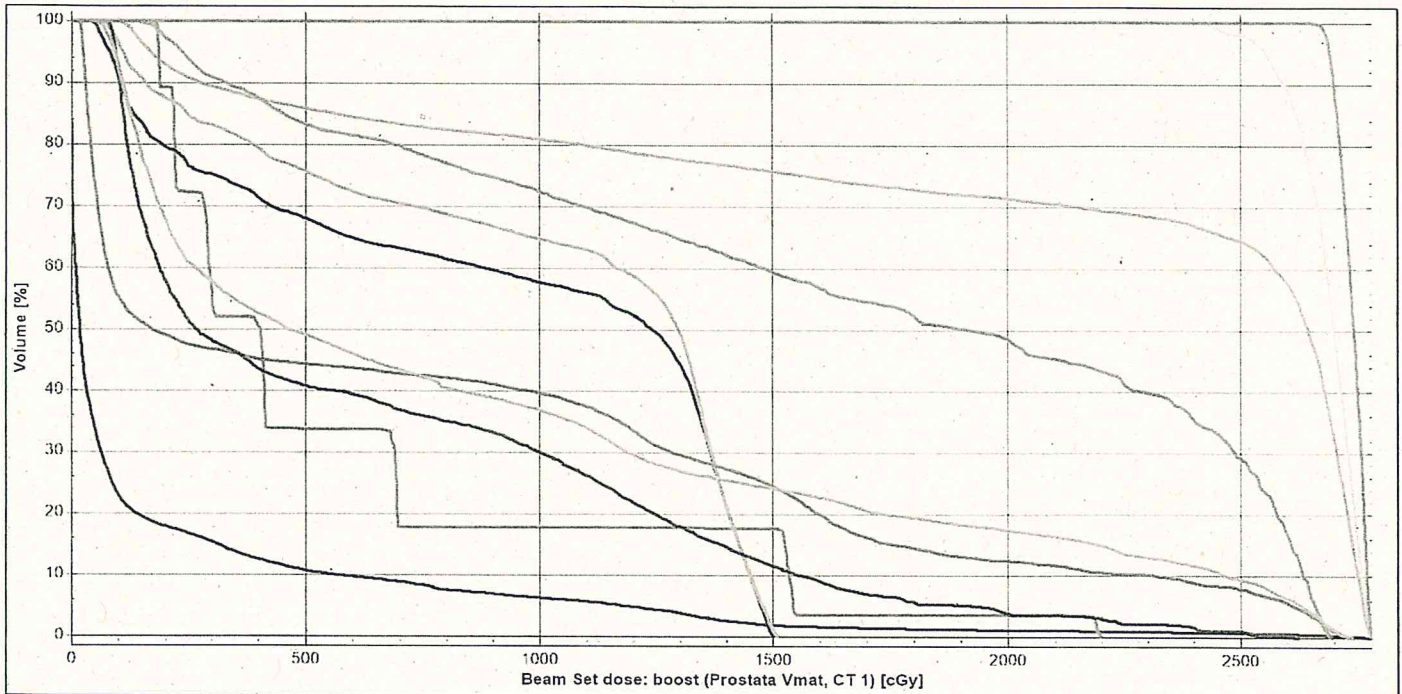
Right-Left: 0.20 Inf-Sup: 0.20 Post-Ant: 0.20

b_ap1, b_rel, b_pa, b_lilat, b_ap2



Points Of Interest

Name	Reference point	Beam isocenters [cm]		Point - Isocenter [cm]
		Localization point	Right-Left: -1.97	Right-Left: 1.80
Type	170 [Interpolated]	Inf-Sup: -3.89	Inf-Sup: 3.89	
Dose [cGy]	Right-Left: -0.17	Post-Ant: 1.21	Post-Ant: -1.15	
Location [cm]	Inf-Sup: 0			
	Post-Ant: 0.06			



POI Dose statistics

Dose	POI	Dose [cGy]	Position		
			Right-Left: [cm]	Inf-Sup: [cm]	Post-Ant: [cm]
Beam Set dose: boost (Prostata Vmat, CT 1)	● Reference point	170	-0.17	0	0.06

ROI Dose statistics [Beam Set dose]

Name	Volume [cm ³]	D99 [cGy]	D98 [cGy]	D95 [cGy]	Average [cGy]	D50 [cGy]	D2 [cGy]	D1 [cGy]	% outside grid
■ analcanal	20.87	85	88	94	639	266	2369	2480	0
■ bladder	186.66	69	77	92	888	461	2687	2706	0
■ External	16660.65	0	0	0	174	18	1470	2111	0
■ femoral head left	160.75	80	90	109	1008	1298	1495	1501	0
■ femoral head right	177.74	55	61	81	917	1242	1488	1493	0
■ penile bulb	2.57	183	183	185	596	405	2190	2192	0
■ prostata	24.11	2678	2684	2691	2739	2743	2777	2778	0
■ PTV 1	143.03	123	135	168	2100	2645	2770	2774	0
■ PTV 2	92.95	2451	2495	2554	2686	2700	2772	2775	0
■ rectum	112.52	20	21	25	782	172	2679	2701	0
■ Seminal Vesicle	10.83	177	192	235	1690	1920	2675	2686	0

■ External

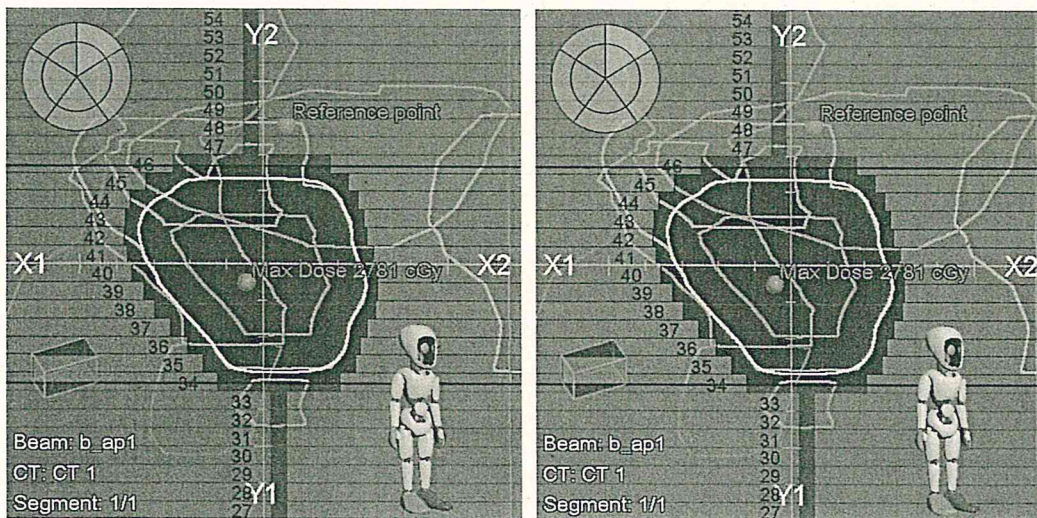
This ROI is set as the external ROI that defines the outer border of the patient

Beam data

Beam name	b_ap1
Beam number	1
Beam description	
Patient coordinate system	IEC 61217
Isocenter [cm]	● Prostata Vmat_2 1 - Right-Left: -1.97 Inf-Sup: -3.89 Post-Ant: 1.21
Gantry angle [deg]	320.0
Collimator angle [deg]	0.0
Couch angle [deg]	0.0
Treatment technique	3D-CRT
Number of fractions	15
Beam MU/fraction	35.81
Total beam MU	537.09
Beam weight [%]	16.0
Number of segments	1
Dose calculation algorithm	Collapsed Cone, Version 3.5
Treatment unit	SynBz-3160
Commission time	18 May 2016, 15:07:11 (hr:min:sec)
Energy [MV]	15.00
Jaw max aperture width [cm]	-
X1 [cm]	-
X2 [cm]	-
Jaw max aperture height [cm]	5.98
Y1 [cm]	-3.29
Y2 [cm]	2.68
Source to skin distance (isocenter) [cm]	88.67
Source to surface distance (isocenter) [cm]	88.67
Bolus data	
No bolus	

Beam dose specification point

Coordinates [cm]	Isocenter
Dose per fraction [cGy]	32.5
Physical depth [cm]	11.33
Water equivalent depth [cm]	11.21
Source to skin distance [cm]	88.67
Source to surface distance [cm]	88.67



Segments

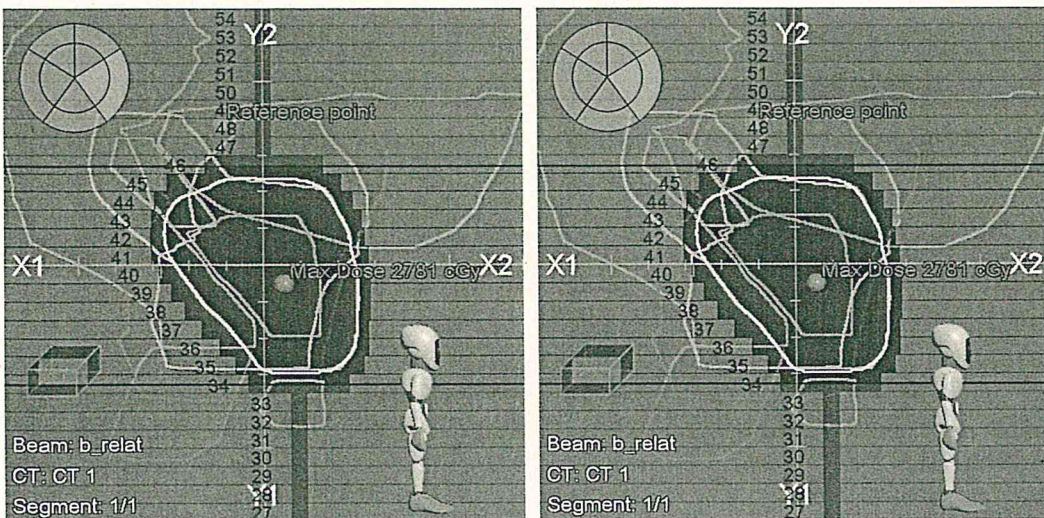
Seg. No.	MU/Fraction	Jaw positions [cm]	
		Y1	Y2
1	35.81	-3.29	2.68

Beam data

Beam name	b_relat
Beam number	2
Beam description	
Patient coordinate system	IEC 61217
Isocenter [cm]	● Prostata Vmat_2 1 - Right-Left: -1.97 Inf-Sup: -3.89 Post-Ant: 1.21
Gantry angle [deg]	270.0
Collimator angle [deg]	0.0
Couch angle [deg]	0.0
Treatment technique	3D-CRT
Number of fractions	15
Beam MU/fraction	53.71
Total beam MU	805.63
Beam weight [%]	24.0
Number of segments	1
Dose calculation algorithm	Collapsed Cone, Version 3.5
Treatment unit	SynBz-3160
Commission time	18 May 2016, 15:07:11 (hr:min:sec)
Energy [MV]	15.00
Jaw max aperture width [cm]	-
X1 [cm]	-
X2 [cm]	-
Jaw max aperture height [cm]	5.98
Y1 [cm]	-3.28
Y2 [cm]	2.70
Source to skin distance (isocenter) [cm]	83.09
Source to surface distance (isocenter) [cm]	83.09
Bolus data	
No bolus	

Beam dose specification point

Coordinates [cm]	Isocenter
Dose per fraction [cGy]	39.8
Physical depth [cm]	16.91
Water equivalent depth [cm]	17.71
Source to skin distance [cm]	83.09
Source to surface distance [cm]	83.09



Segments

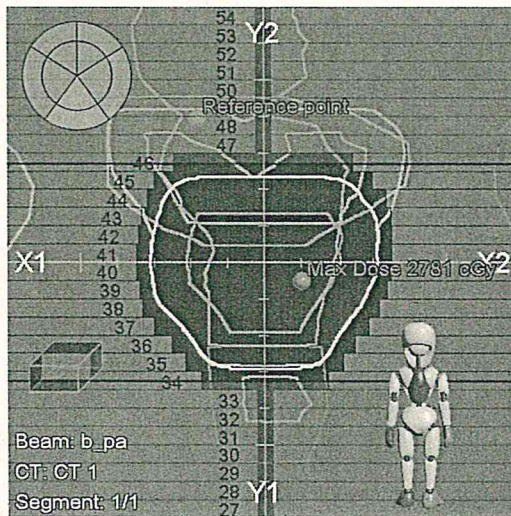
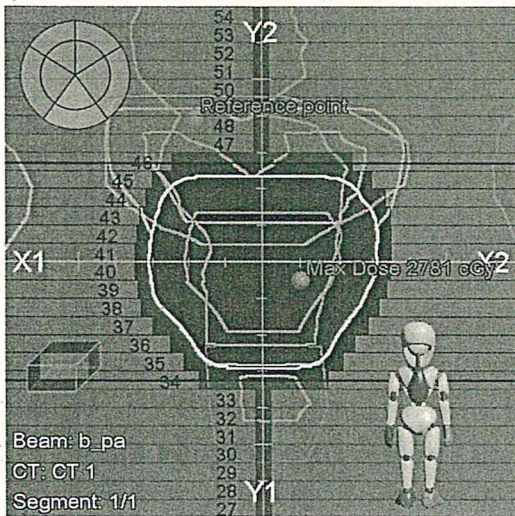
Seg. No.	MU/Fraction	Jaw positions [cm]	
		Y1	Y2
1	53.71	-3.28	2.70

Beam data

Beam name	b_pa
Beam number	3
Beam description	
Patient coordinate system	IEC 61217
Isocenter [cm]	● Prostate Vmat_2 1 - Right-Left: -1.97 Inf-Sup: -3.89 Post-Ant: 1.21
Gantry angle [deg]	180.0
Collimator angle [deg]	0.0
Couch angle [deg]	0.0
Treatment technique	3D-CRT
Number of fractions	15
Beam MU/fraction	44.76
Total beam MU	671.36
Beam weight [%]	20.0
Number of segments	1
Dose calculation algorithm	Collapsed Cone, Version 3.5
Treatment unit	SynBz-3160
Commission time	18 May 2016, 15:07:11 (hr:min:sec)
Energy [MV]	15.00
Jaw max aperture width [cm]	-
X1 [cm]	-
X2 [cm]	-
Jaw max aperture height [cm]	5.97
Y1 [cm]	-3.26
Y2 [cm]	2.70
Source to skin distance (isocenter) [cm]	89.30
Source to surface distance (isocenter) [cm]	88.71
Bolus data	No bolus

Beam dose specification point

Coordinates [cm]	Isocenter
Dose per fraction [cGy]	40.4
Physical depth [cm]	11.29
Water equivalent depth [cm]	11.59
Source to skin distance [cm]	89.30
Source to surface distance [cm]	88.71



Segments

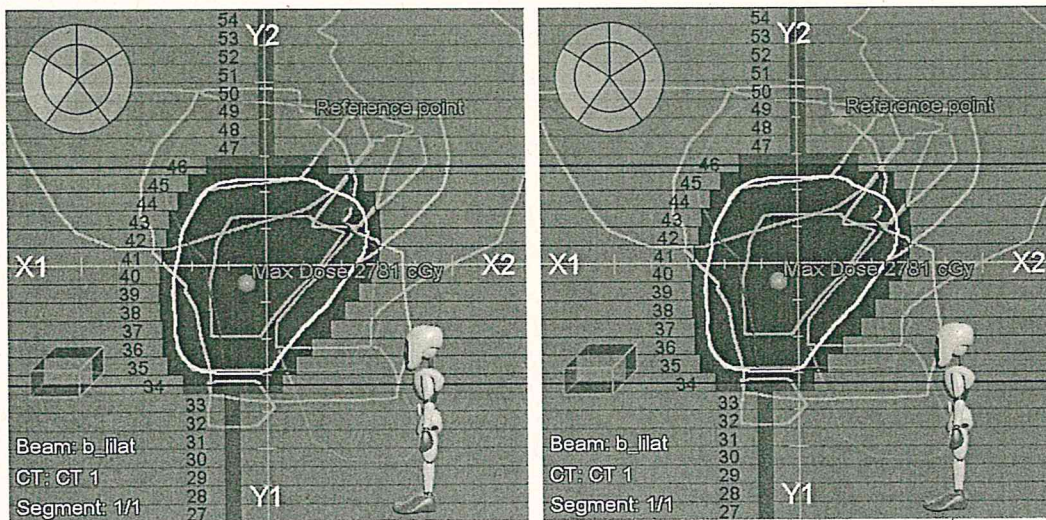
Seg. No.	MU/Fraction	Jaw positions [cm]	
		Y1	Y2
1	44.76	-3.26	2.70

Beam data

Beam name	b_lilat
Beam number	4
Beam description	
Patient coordinate system	IEC 61217
Isocenter [cm]	● Prostata Vmat_2 1 - Right-Left: -1.97 Inf-Sup: -3.89 Post-Ant: 1.21
Gantry angle [deg]	90.0
Collimator angle [deg]	0.0
Couch angle [deg]	0.0
Treatment technique	3D-CRT
Number of fractions	15
Beam MU/fraction	53.71
Total beam MU	805.63
Beam weight [%]	24.0
Number of segments	1
Dose calculation algorithm	Collapsed Cone, Version 3.5
Treatment unit	SynBz-3160
Commission time	18 May 2016, 15:07:11 (hr:min:sec)
Energy [MV]	15.00
Jaw max aperture width [cm]	-
X1 [cm]	-
X2 [cm]	-
Jaw max aperture height [cm]	5.98
Y1 [cm]	-3.28
Y2 [cm]	2.70
Source to skin distance (isocenter) [cm]	82.65
Source to surface distance (isocenter) [cm]	82.65
Bolus data	
No bolus	

Beam dose specification point

Coordinates [cm]	Isocenter
Dose per fraction [cGy]	38.8
Physical depth [cm]	17.35
Water equivalent depth [cm]	18.79
Source to skin distance [cm]	82.65
Source to surface distance [cm]	82.65



Segments

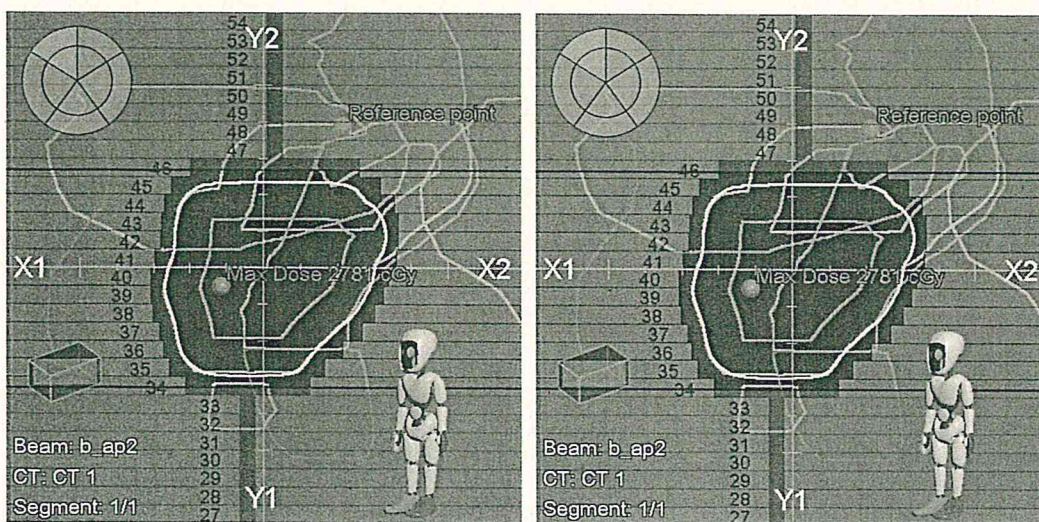
Seg. No.	MU/Fraction	Jaw positions [cm]	
		Y1	Y2
1	53.71	-3.28	2.70

Beam data

Beam name	b_ap2
Beam number	5
Beam description	
Patient coordinate system	IEC 61217
Isocenter [cm]	● Prostata Vmat_2 1 - Right-Left: -1.97 Inf-Sup: -3.89 Post-Ant: 1.21
Gantry angle [deg]	40.0
Collimator angle [deg]	0.0
Couch angle [deg]	0.0
Treatment technique	3D-CRT
Number of fractions	15
Beam MU/fraction	35.81
Total beam MU	537.09
Beam weight [%]	16.0
Number of segments	1
Dose calculation algorithm	Collapsed Cone, Version 3.5
Treatment unit	SynBz-3160
Commission time	18 May 2016, 15:07:11 (hr:min:sec)
Energy [MV]	15.00
Jaw max aperture width [cm]	-
X1 [cm]	-
X2 [cm]	-
Jaw max aperture height [cm]	5.98
Y1 [cm]	-3.29
Y2 [cm]	2.68
Source to skin distance (isocenter) [cm]	88.37
Source to surface distance (isocenter) [cm]	88.37
Bolus data	No bolus

Beam dose specification point

Coordinates [cm]	Isocenter
Dose per fraction [cGy]	32.2
Physical depth [cm]	11.63
Water equivalent depth [cm]	11.69
Source to skin distance [cm]	88.37
Source to surface distance [cm]	88.37



Segments

Seg. No.	MU/Fraction	Jaw positions [cm]	
		Y1	Y2
1	35.81	-3.29	2.68