

Study Name: UW TG244 Case 01 Prostate Fossa Nodes

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Participant Role: student

Participant Institution: University of Wisconsin La Crosse

Created: Wed Jul 19 2017 19:58:11 GMT+0000

TPS Manufacturer: ADAC

TPS Model: Pinnacle3

Number of Treatment Beams: 3

Radiation Type(s): Photon

Delivery Type(s): VMAT



METRIC	RESULT	MIN REQ							IDEAL		POINTS	WEIGHT
Volume (%) of the PTV_68 covered by 68 (Gy)	97.024	90	$ \checkmark $	BB			27p 93	30 95	95	\checkmark	30.00	30.00
Volume (%) of the PTV_56 covered by 56 (Gy)	99.332	90	$ \checkmark $	BB			27p 93	30 95	95	\checkmark	30.00	30.00
Volume (%) of the PROSTATE_BED covered by 68 (Gy)	100.000	94	$ \checkmark $)p 4			9 _D 97	10 99	99	\checkmark	10.00	10.00
Conformation Number [64.6 (Gy), PTV_68]	0.801	0.5)p).5		12p 0.75		15	⁵ P 1		12.61	15.00
Serial slice, dose-to-OAR failures [34 (Gy), RECTUM]	0.000	1	$ \checkmark $)p				10 0) ^p O	\checkmark	10.00	10.00
Dose (Gy) covering 0.03 (cc) of the PTV_68	72.011	74.8	Ø)p 74.8				10 71	71.4		8.20	10.00
Volume (cc) of the RECTUM covered by 68 (Gy)	1.230	45	Ø	}}	7p 35			10 10	[]] 10	\checkmark	10.00	10.00
Volume (%) of the RECTUM covered by 65 (Gy)	5.742	35	$ \checkmark $	}g	7p 25			10 5	^{)p} 5		9.89	10.00
Volume (%) of the RECTUM covered by 40 (Gy)	17.173	40		₿B	3 <u>5</u>			10 20	[]] 20	\checkmark	10.00	10.00
Volume (%) of the BLADDER covered by 65 (Gy)	16.617	40	Ø	₿B	3p 30			7	15		6.57	7.00
Volume (%) of the BLADDER covered by 40 (Gy)	38.273	70	Ø	PB			2.5p 50	3	4 0	\checkmark	3.00	3.00
Structure(s) containing the global max dose point	(3 values)	PTV_68	\checkmark						prostate_b	e	5.00	5.00
Estimated 'beam-on' time, all beams (minutes)	2.950											
Cumulative meterset over all treatment beams	911.000											
TOTALS		12 (of 12)							8 (of 12)		145.27	150.00



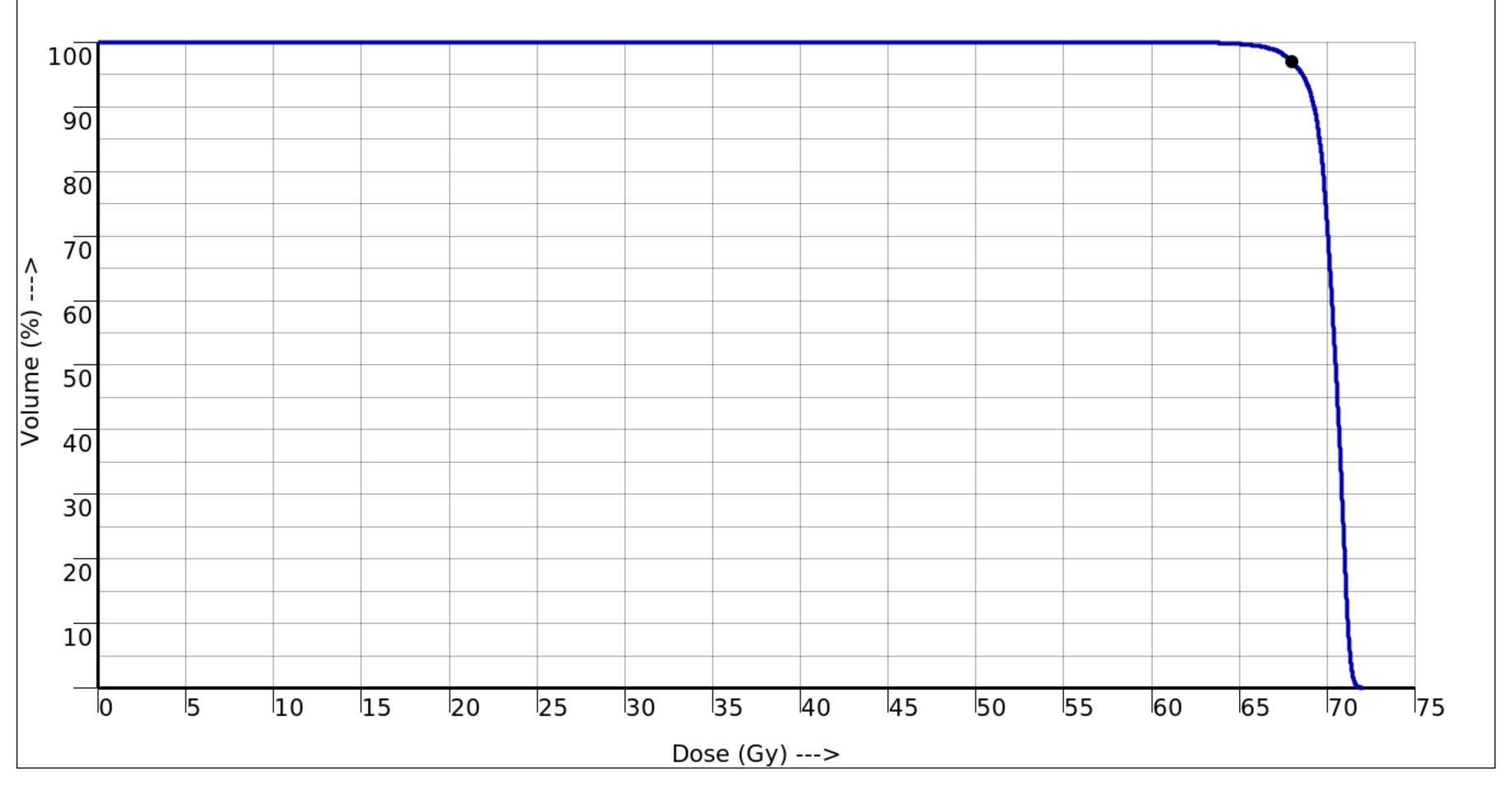
BEAM [#] NAME	MACHINE	MODALITY	ENERGY	METERSET	BEAM-ON TIME (Est.)
[1] Arc1a_C0	TrueBeamSTx	VMAT	6 MV	310 MU	61
[2] Arc1b_C0	TrueBeamSTx	VMAT	6 MV	310 MU	60
[3] Arc1c_C0	TrueBeamSTx	VMAT	6 MV	291 MU	56
				911 (TOTAL)	2.95 min (TOTAL)

BEAM [#] NAME	ISOCENTER	GEOMETRY	MODIFIERS
[1] Arc1a_C0	0, 0, 0 (DICOM -14.7, -360.7, 109.9)	Gantry (Dynamic CCW): 160 to 200	, Collimator: 15, Couch: 0
[2] Arc1b_C0	0, 0, 0 (DICOM -14.7, -360.7, 109.9)	Gantry (Dynamic CW): 205 to 155,	Collimator: 355, Couch: 0
[3] Arc1c_C0	0, 0, 0 (DICOM -14.7, -360.7, 109.9)	Gantry (Dynamic CCW): 158 to 202	, Collimator: 95, Couch: 0



METRIC	RESULT	MIN REC	?		IDEAL	POINTS	WEIGHT
Volume (%) of the PTV_68 covered by 68 (Gy)	97.024	90	Op 90	27p 93	^{30p} ₉₅ 95	30.00	30.00

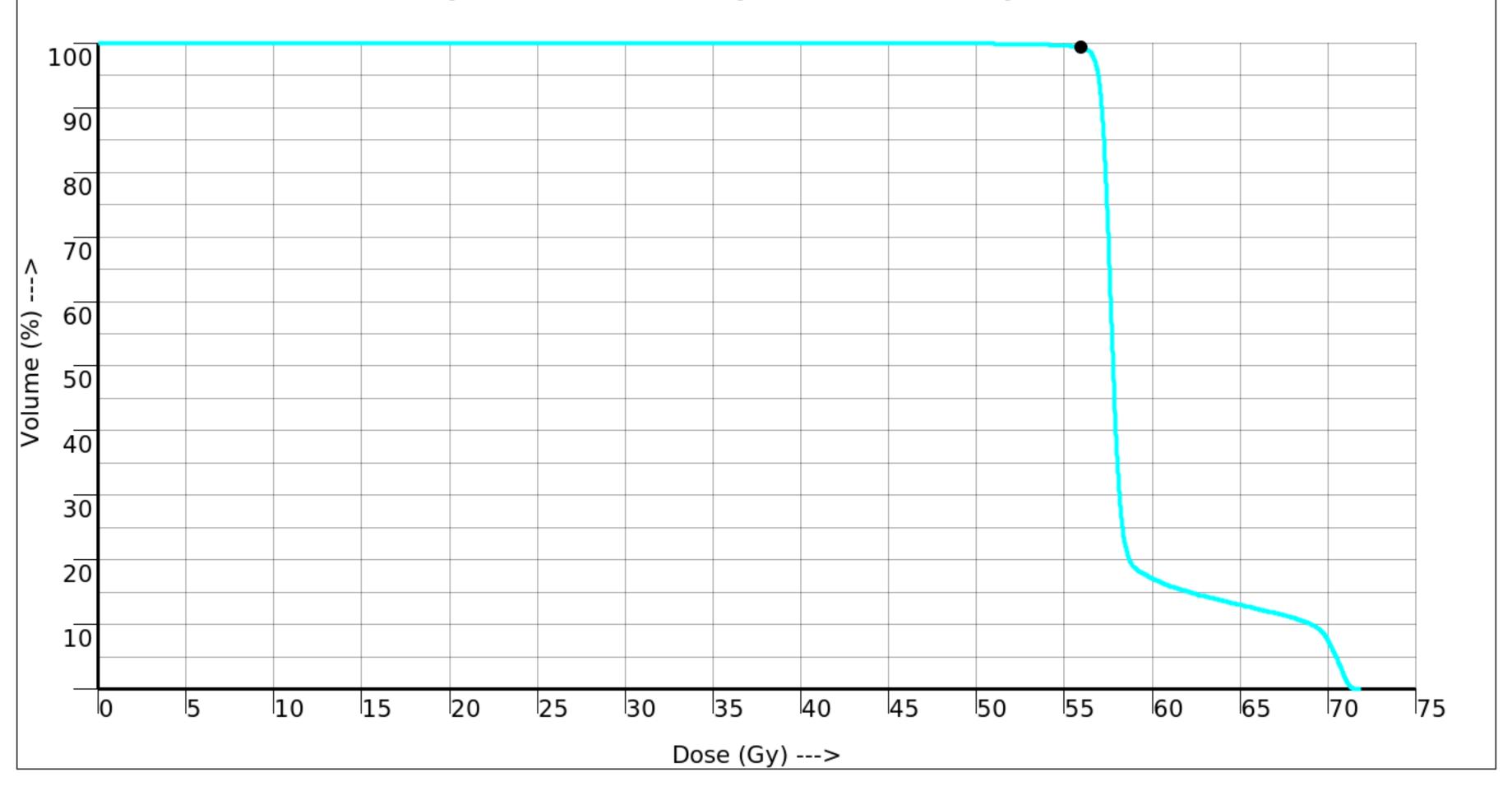
Cumulative DVH: PTV 68 (182.896 cc) Min: 61.463 Gy, Mean: 70.285 Gy, Max: 72.058 Gy, Vol: 182.896 cc





METRIC	RESULT	MIN REC	2		IDEAL	POINTS	WEIGHT
Volume (%) of the PTV_56 covered by 56 (Gy)	99.332	90	⊘ p 90	27p 93	^{30p} ₉₅ 95	30.00	30.00

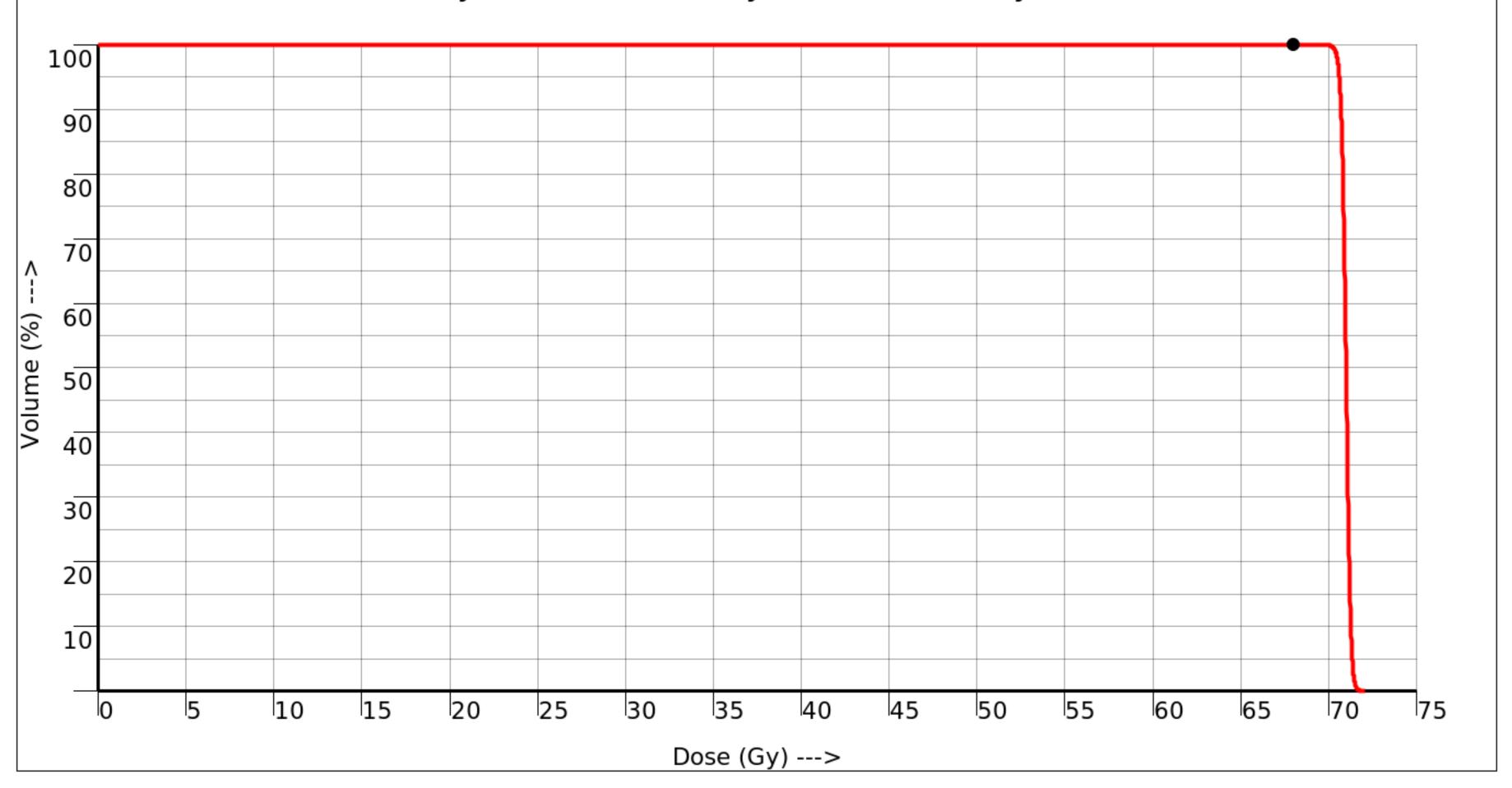
Cumulative DVH: PTV_56 (255.519 cc)
Min: 44.869 Gy, Mean: 59.405 Gy, Max: 71.860 Gy, Vol: 255.519 cc





METRIC	RESULT	MIN REQ)		IDEAL	POINTS	WEIGHT
Volume (%) of the PROSTATE_BED covered by 68 (Gy)	100.000	94	⊘ 0p 94	9p 97	^{10p} 99	10.00	10.00

Cumulative DVH: prostate_bed (65.168 cc)
Min: 69.470 Gy, Mean: 70.981 Gy, Max: 72.058 Gy, Vol: 65.168 cc

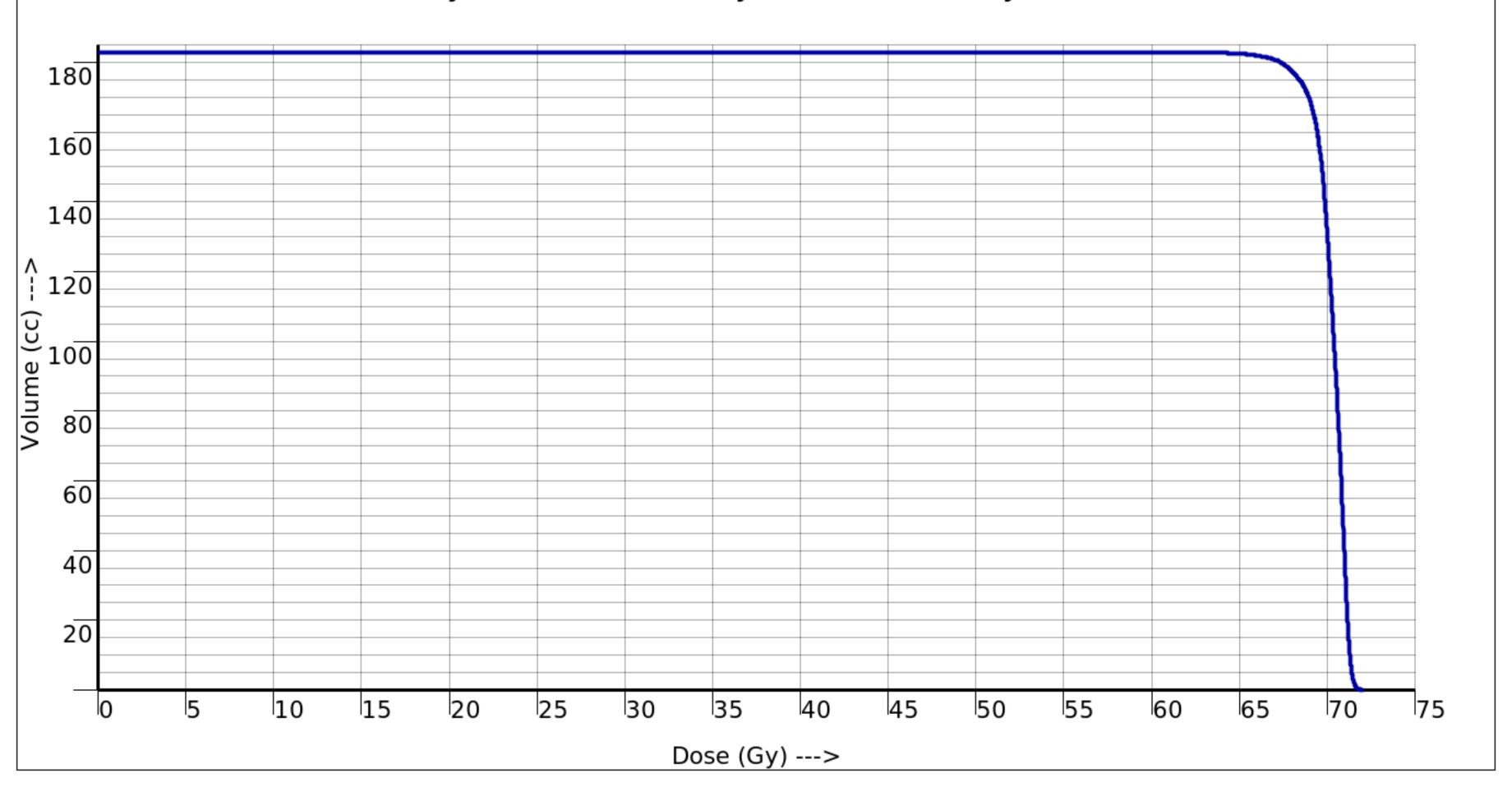




METRIC	RESULT	MIN RE	Q		IDEAL	POINTS	WEIGHT
Conformation Number [64.6 (Gy), PTV_68]	0.801	0.5	⊘ 0p 0.5	12p 0.75	15p 1	12.61	15.00

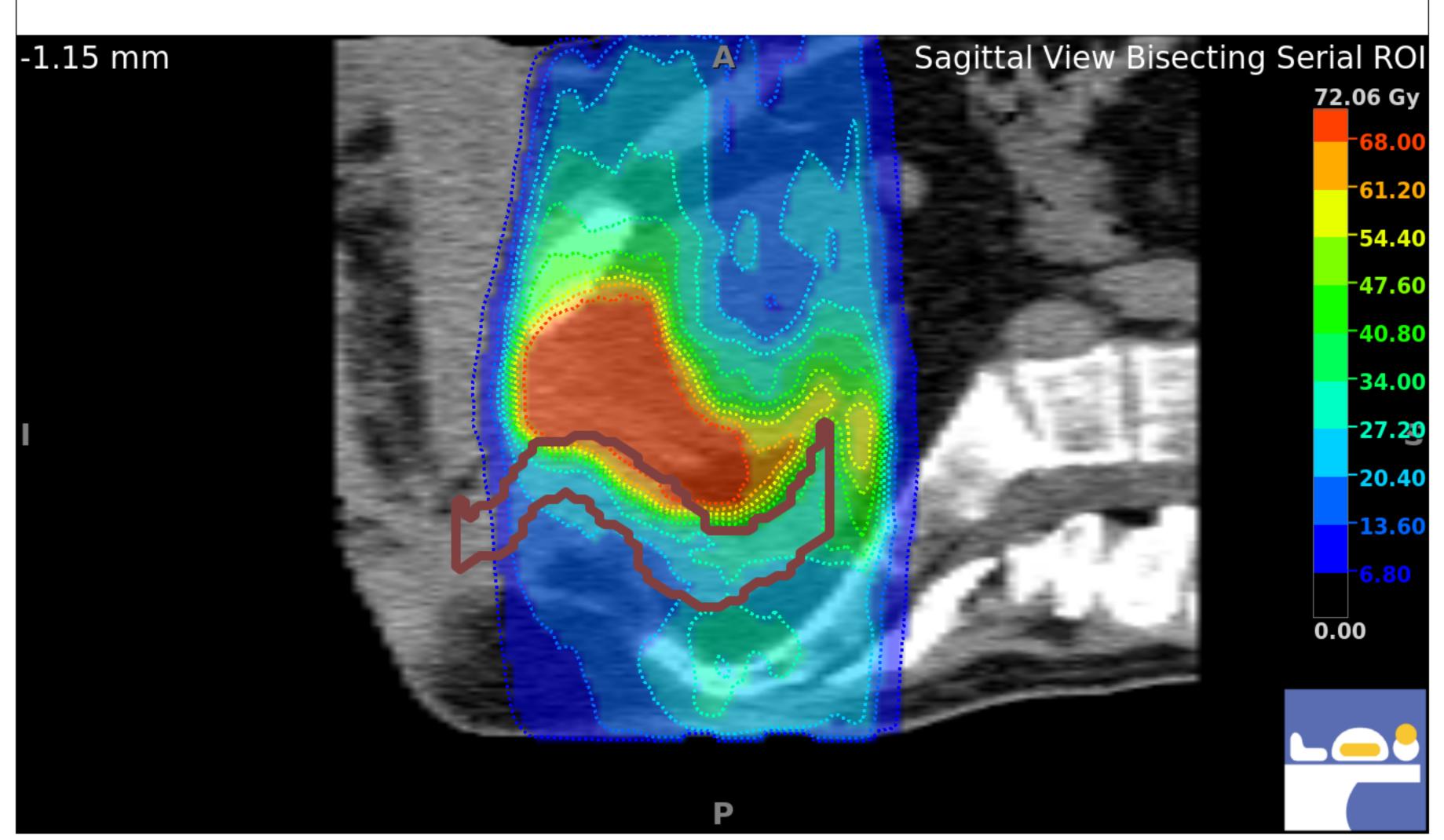
DETAILS: PTV_68 Vol Covered by 64.600 Gy (cc): 182.55, PTV_68 Vol (cc): 182.90, 64.600 Gy Irradiated Vol (cc): 227.45

Cumulative DVH: PTV 68 (182.896 cc) Min: 61.463 Gy, Mean: 70.285 Gy, Max: 72.058 Gy, Vol: 182.896 cc





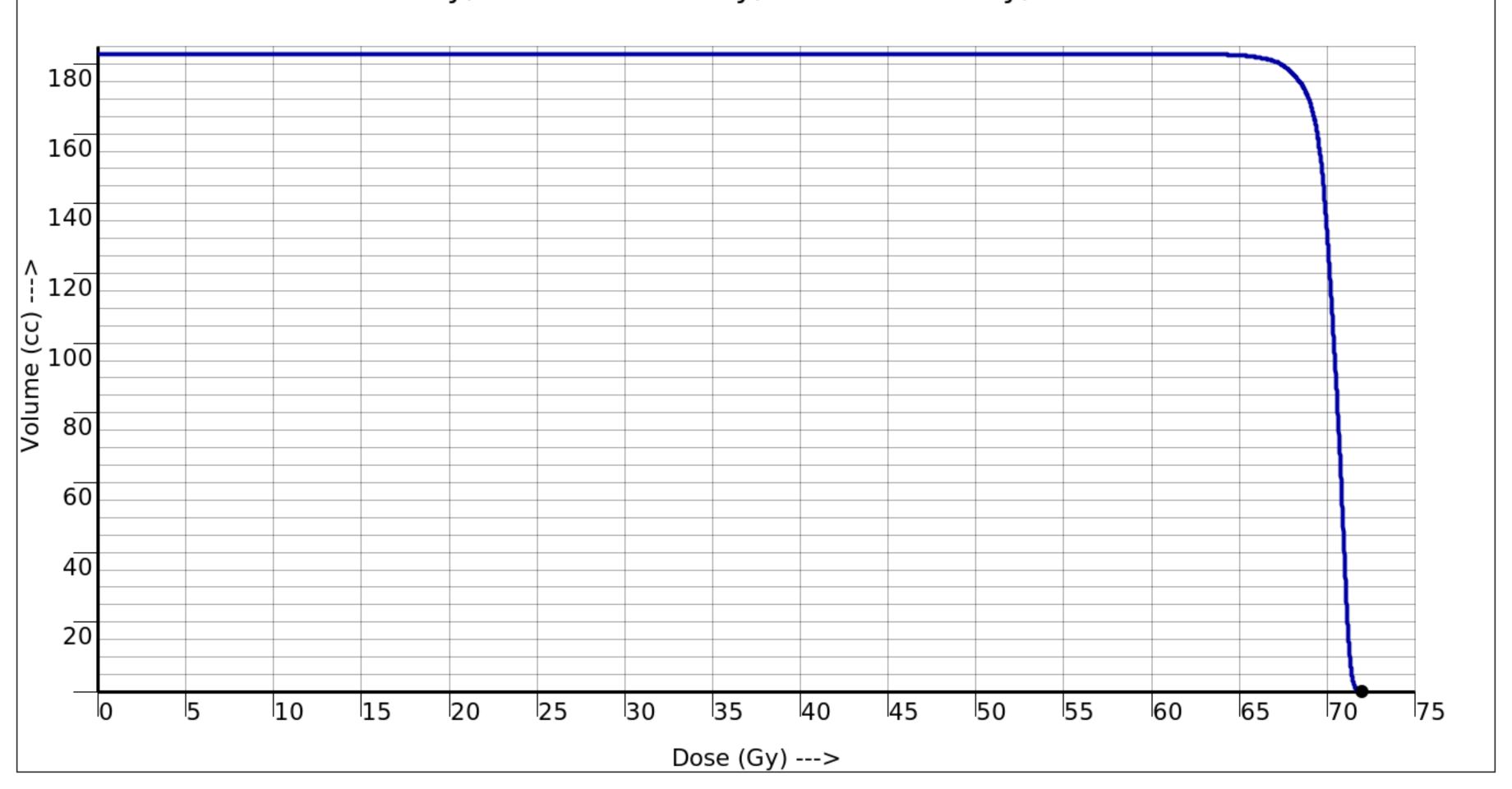
METRIC	RESULT	MIN REQ	IDEAL	POINTS	WEIGHT
Serial slice, dose-to-OAR failures [34 (Gy), RECTUM]	0.000	1	^{10p} ₀ 0	10.00	10.00



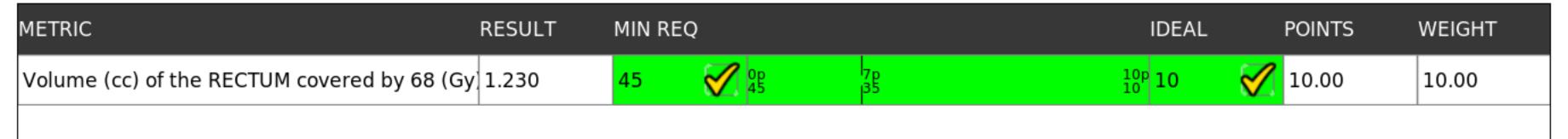


METRIC	RESULT	MIN REQ	IDEAL	POINTS	WEIGHT
Dose (Gy) covering 0.03 (cc) of the PTV_68	72.011	74.8 Op 74.8	^{10p} _{71.4} 71.4	8.20	10.00

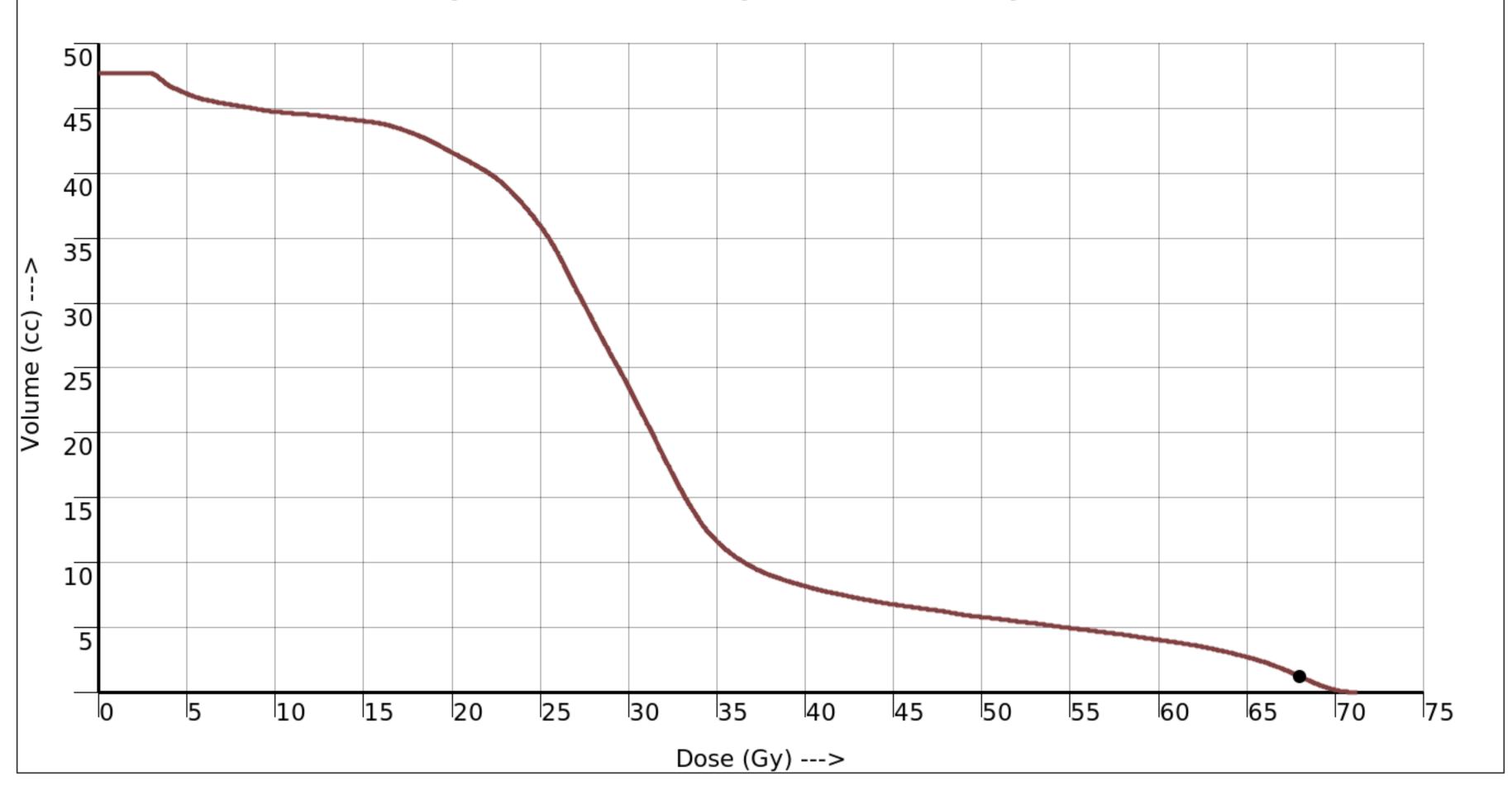
Cumulative DVH: PTV 68 (182.896 cc) Min: 61.463 Gy, Mean: 70.285 Gy, Max: 72.058 Gy, Vol: 182.896 cc



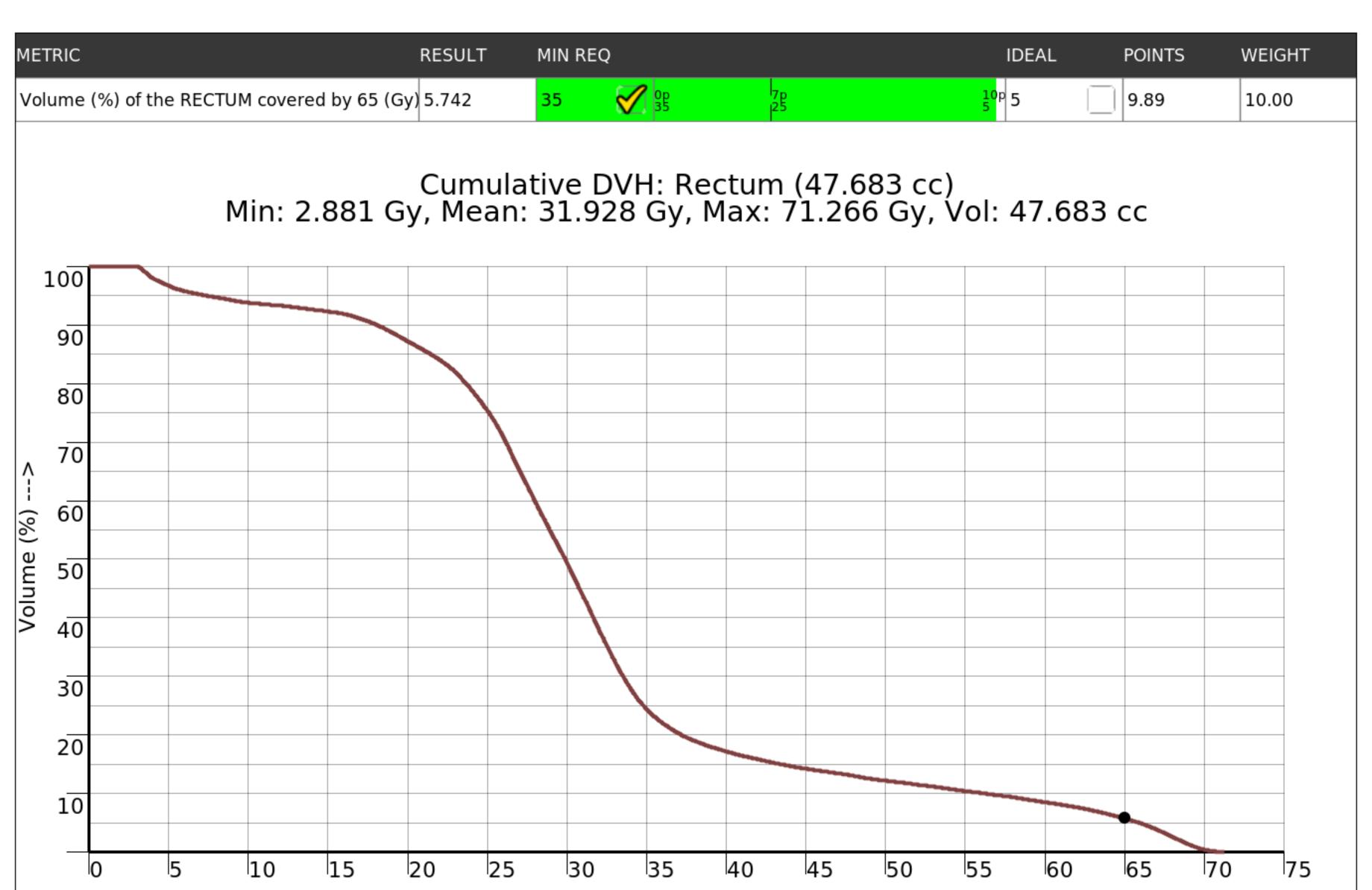




Cumulative DVH: Rectum (47.683 cc)
Min: 2.881 Gy, Mean: 31.928 Gy, Max: 71.266 Gy, Vol: 47.683 cc





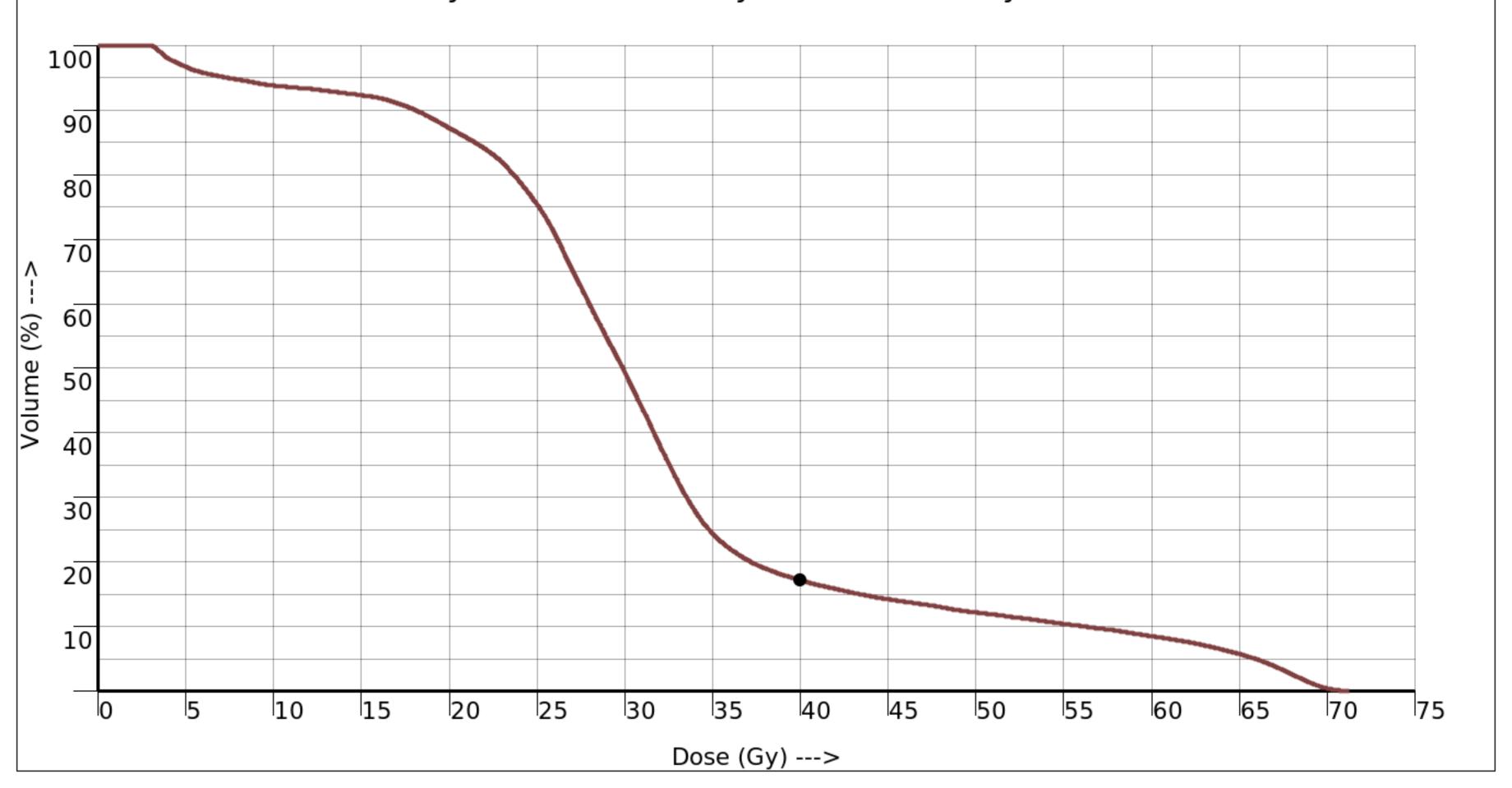


Dose (Gy) --->



METRIC	RESULT	MIN REC)		IDEAL	POINTS	WEIGHT
Volume (%) of the RECTUM covered by 40 (Gy	17.173	40	Op 40	7p 35	10p 20	10.00	10.00

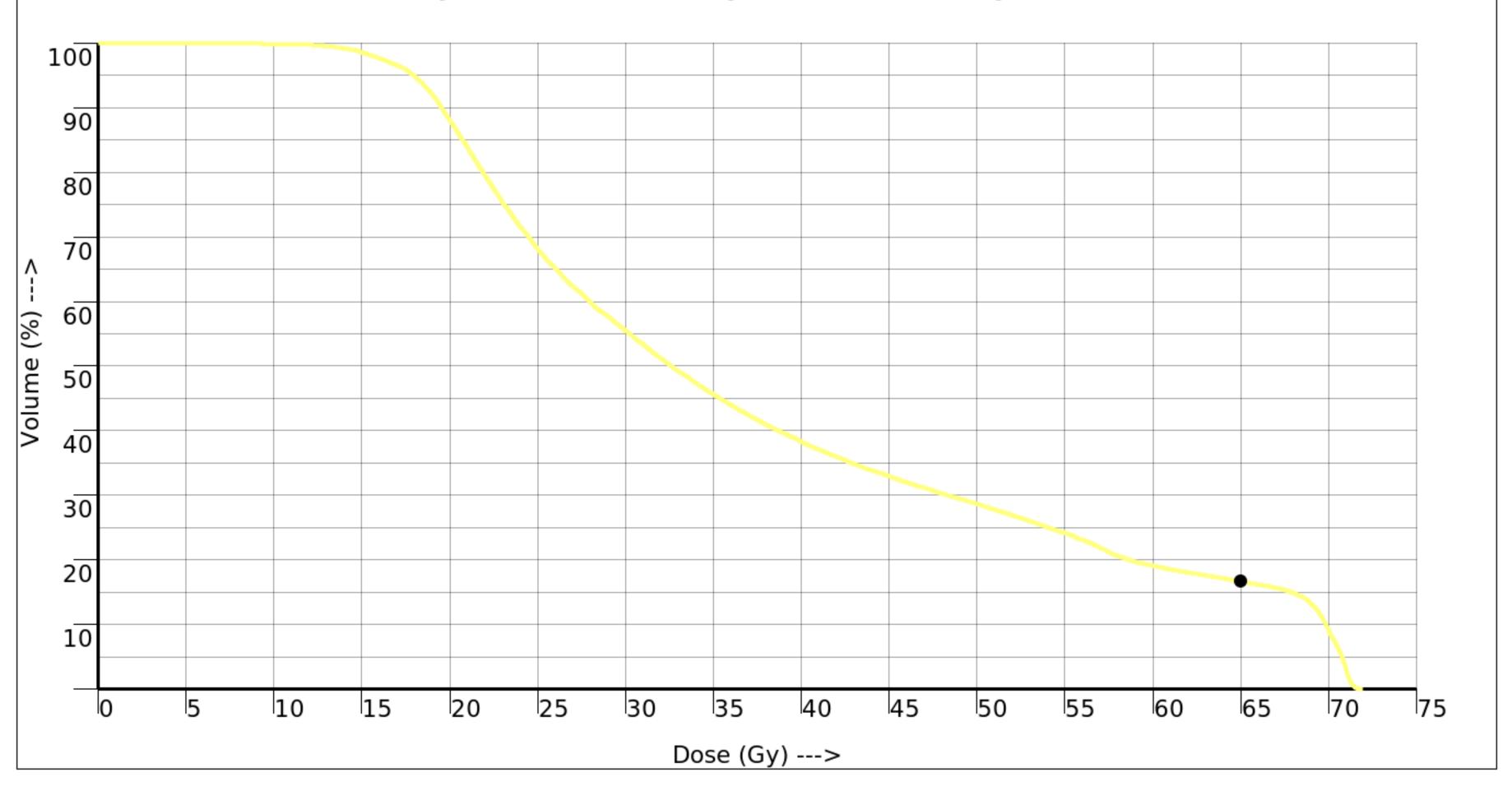
Cumulative DVH: Rectum (47.683 cc)
Min: 2.881 Gy, Mean: 31.928 Gy, Max: 71.266 Gy, Vol: 47.683 cc







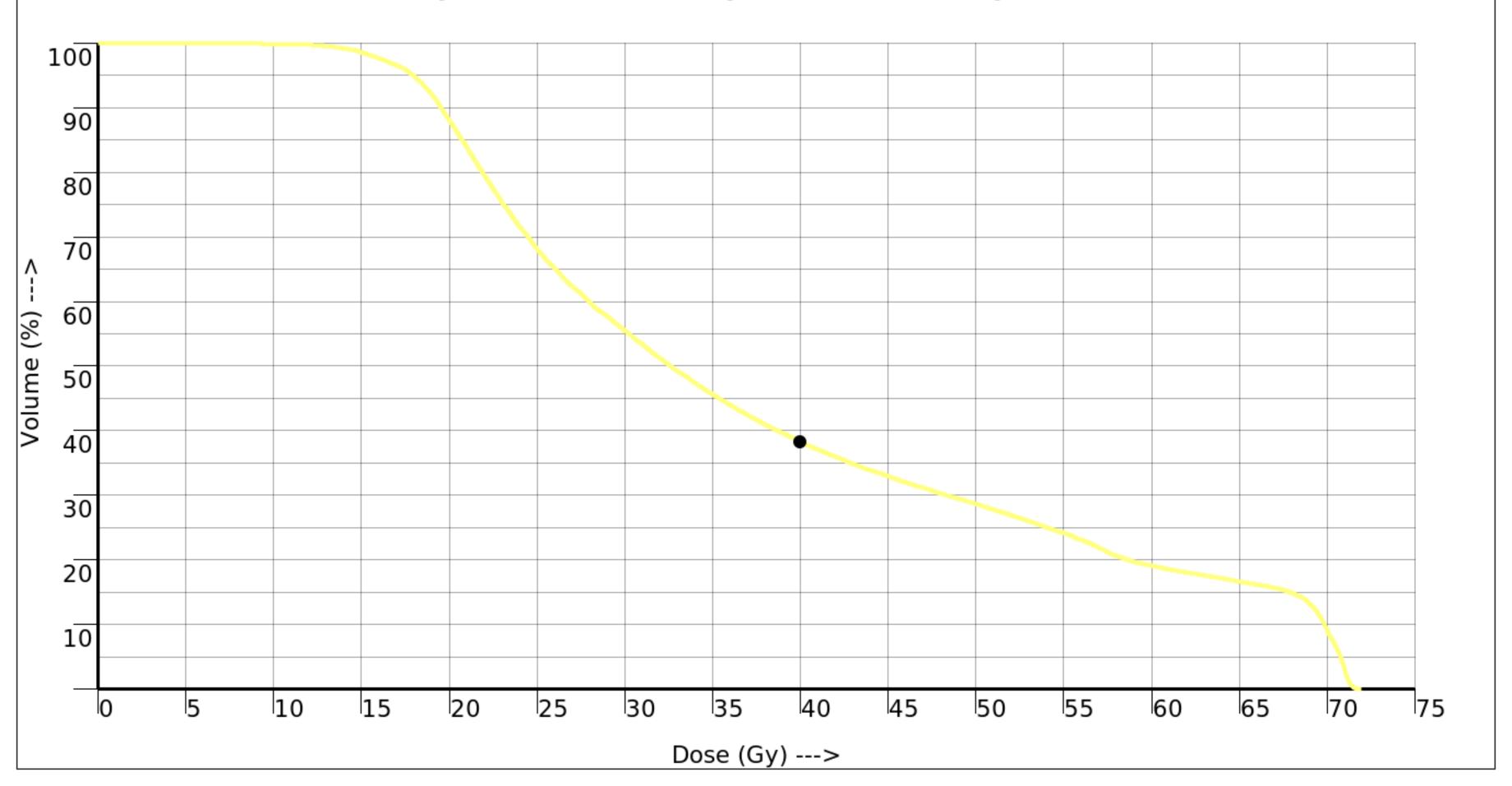
Cumulative DVH: Bladder (313.266 cc) Min: 8.603 Gy, Mean: 38.673 Gy, Max: 71.970 Gy, Vol: 313.266 cc





METRIC	RESULT	MIN RE	Q		IDEAL	POINTS	WEIGHT
Volume (%) of the BLADDER covered by 40 (Gy)	38.273	70	₹ 90 00 00 00 00 00 00 00 00 00 00 00 00	2.5p 50	^{3p} ₄₀ 40	3.00	3.00

Cumulative DVH: Bladder (313.266 cc) Min: 8.603 Gy, Mean: 38.673 Gy, Max: 71.970 Gy, Vol: 313.266 cc

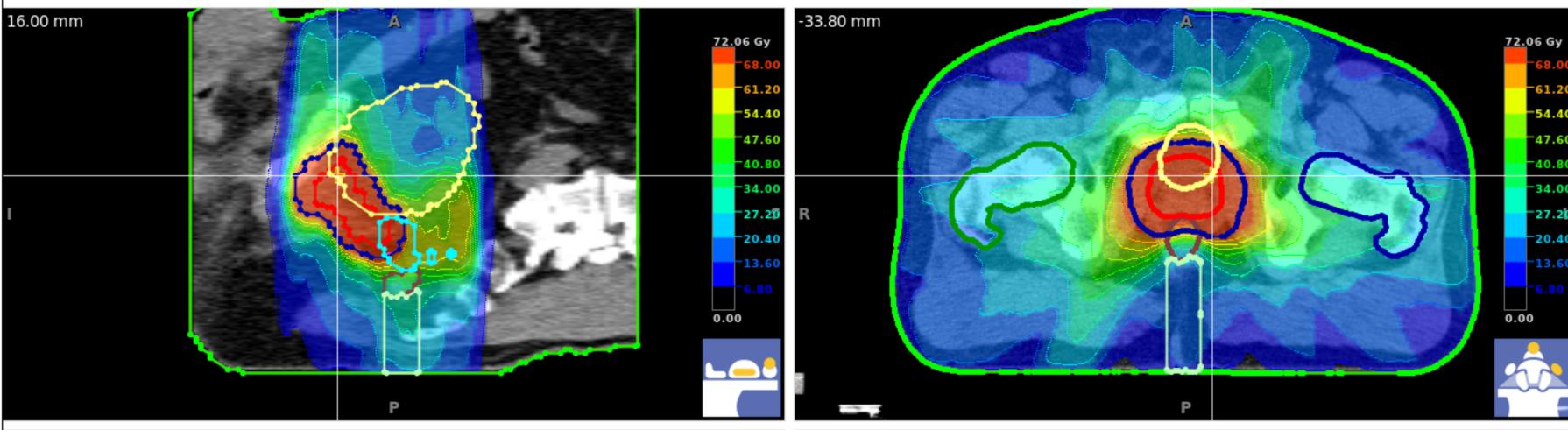




METRIC	RESULT	MIN REQ	IDEAL	POINTS	WEIGHT
Structure(s) containing the global max dose point	(3 values)	PTV_68 <	prostate W e	5.00	5.00

DETAILS: Global Max Location (mm): [16.00, -33.80, 23.34], Structure(s) containing the global max dose: prostate_bed, PTV_68, BODY

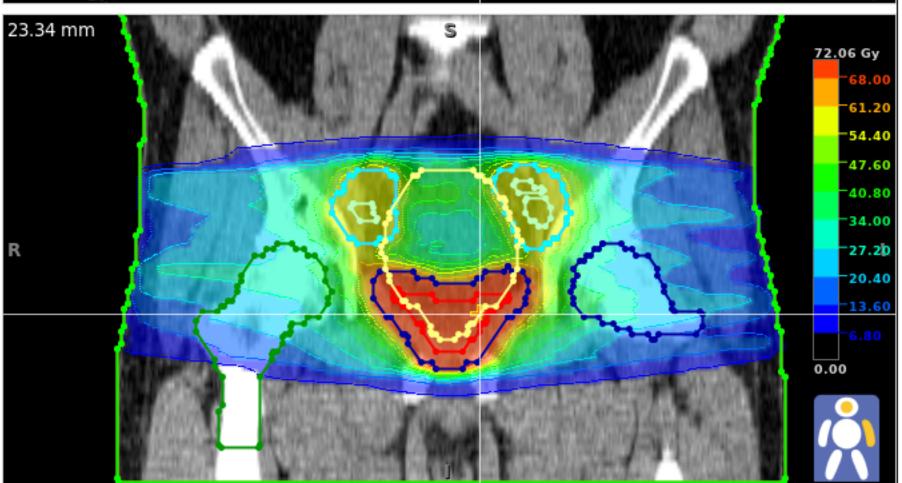
Planes Intersecting Global Max Dose



Global Max Dose (Gy): 72.05814 X (mm): -194.001 to 200.999 step 2.5 Y (mm): -128.801 to 143.699 step 2.5 Z (mm): -231.661 to 170.839 step 2.5

DICOM Origin (mm): (-14.735, -360.661, 109.948)

XYZ coordinates have been transformed into an intuitive "couch coordinate system" (IEC, not DICOM), where: +X is couch's lateral "left"; +Y is in towards gantry; and +Z is vertical up from couch. The (0,0,0) coordinate defaults to the first treatment beam isocenter if a plan is loaded or, if there is no plan, the origin from the DICOM RT Dose is preserved.





METRIC	RESULT	MIN REQ	IDEAL	POINTS	WEIGHT
Estimated 'beam-on' time, all beams (minutes)	2.950		 		

BEAM [#] NAME	MACHINE	MODALITY	ENERGY	METERSET	BEAM-ON TIME (Est.)
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[3] Arc1c_C0	0, 0, 0 (DICOM -14.7, -360.7, 109.9)	Gantry (Dynamic CCW): 158 to 2	202, Collimator: 95, Couch: 0



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Cumulative meterset over all treatment beams	911.000		 		

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