

Description

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Dose prescriptions

70.2 Gy (32), 19.8 Gy (5), 54 Gy (2), 25.2 Gy (2), 63 Gy (2), 68.4 Gy (2), 23.4 Gy (1), 59.4 Gy (1), 16.2 Gy (1), 10.8 Gy (1), 18 Gy (1)

Model summary

Number of targets	1
Number of OARs	5
Total number of plans	50

Target structures	Analyzed OAR structures
PTV 50	Rectum 49
	BLADDER 48
	Femur_L 50
	Femur_R 50
	PenileBulb 45

PTV

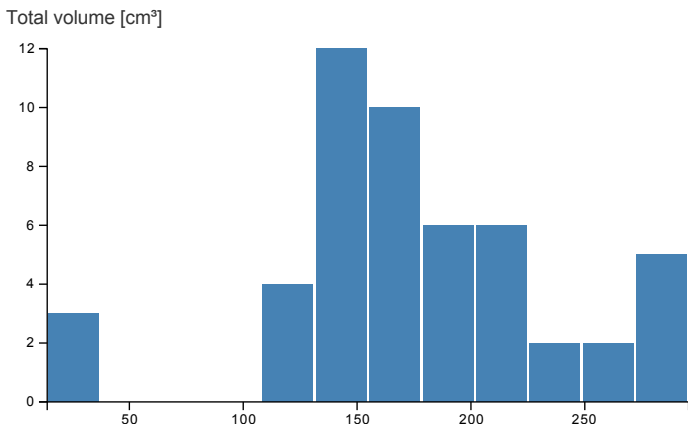
Matched ID:s

PTV 7020(15), PTV7020(4), ptv_TMS(1), PTV(8), PTV54(1), ptv(3), New PTV 6300(1), PTV 7020cGy(1), PTV_7020(3), PTV AS Final(1), ptv 7020(1), PTV5940(1), PTV 7560(1), PTV Prostate Bed(1), PTV ProstFossa(1), PTV 6300(1), New Boost PTV(1), PTV Boost(1), ptv boost(1), PTV70.2_new(1), PTV70.2_EG(1), PTV 7020 mod(1)

Geometric information

Shows volume data for the structure. Reports if more data is needed for a certain volume range.

Feature	Min	Max	Mean	Std
Total volume [cm ³]	13.92	295.58	177.05	63.38



Consider adding the following to the model

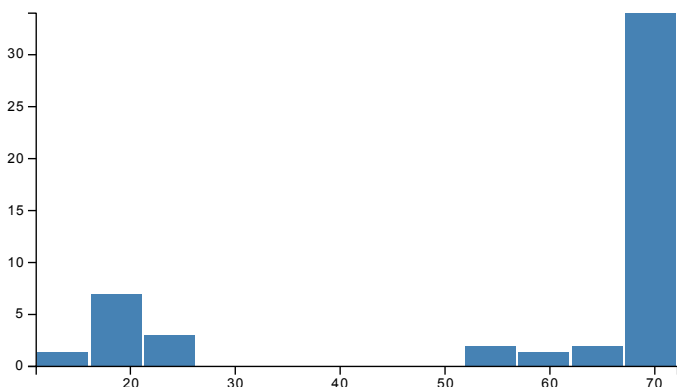
Reason
Not enough data exists for Target volume between 36.49cm ³ and 115.65cm ³ . To fill the data gap, consider adding more plans to the model.

Dosimetric information

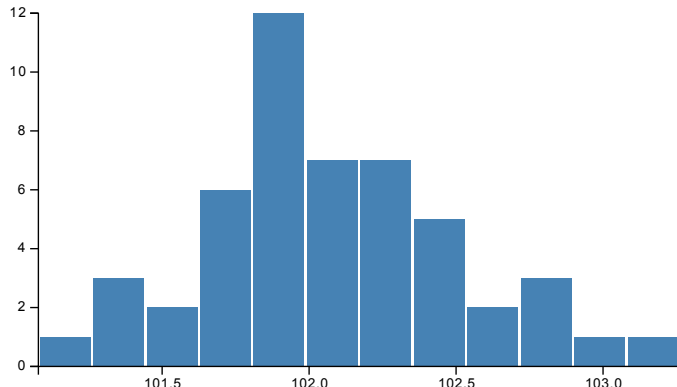
Shows the dose that the target structure receives as well as its dose homogeneity. Reports if homogeneity in this target is lower than in the majority of targets and lists potential trade-offs.

Feature	Min	Max	Mean	Std
Mean dose [Gy]	11.02	72.17	59.09	21.29
Mean dose [%]	101.08	103.26	102.06	0.45
Sigma index	0.16	1.63	1.09	0.43

Mean dose [Gy]



Mean dose [%]



No suggestions

Rectum

Matched ID:s

Rectum(49)

Model information

Reports deviant or influential plan structures. They have the greatest effect on the accuracy of DVH estimates.

Consider removing the following from the model

No suggestions

Check the following plans

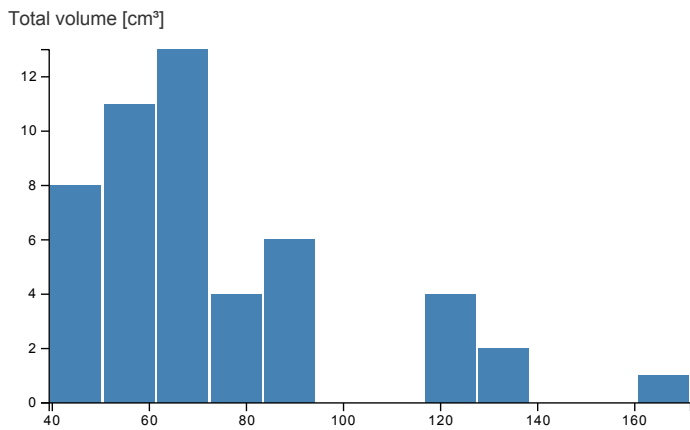
Plan #	Structure	Reason
45	Rectum	The geometry of the structure seems to differ from the majority: The expected dose for the OAR (based on distance from the target) is smaller than the average.
44	Rectum	The geometry of the structure seems to differ from the majority: The expected dose for the OAR (based on distance from the target) is smaller than the average.

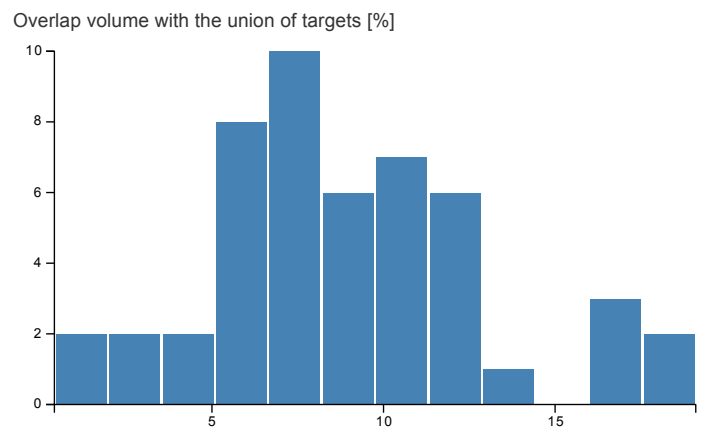
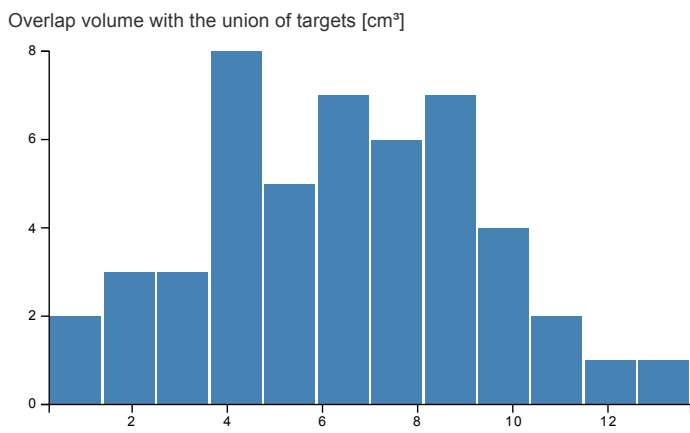
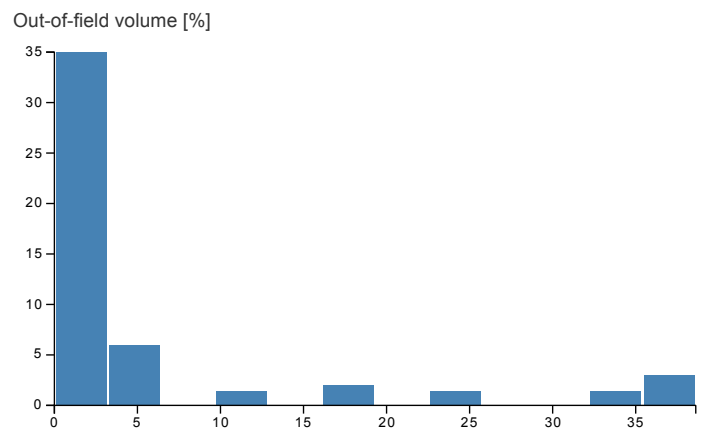
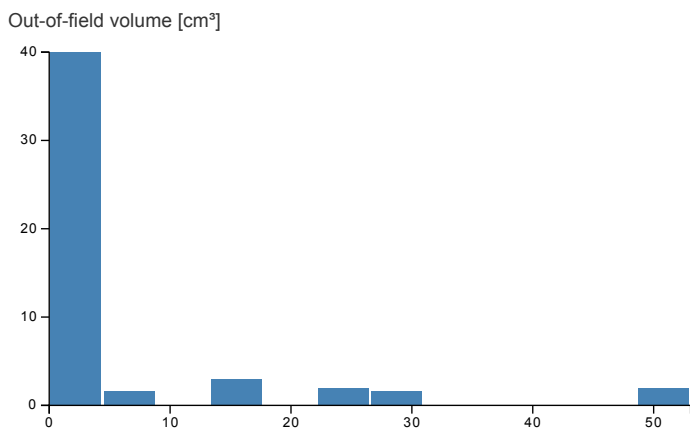
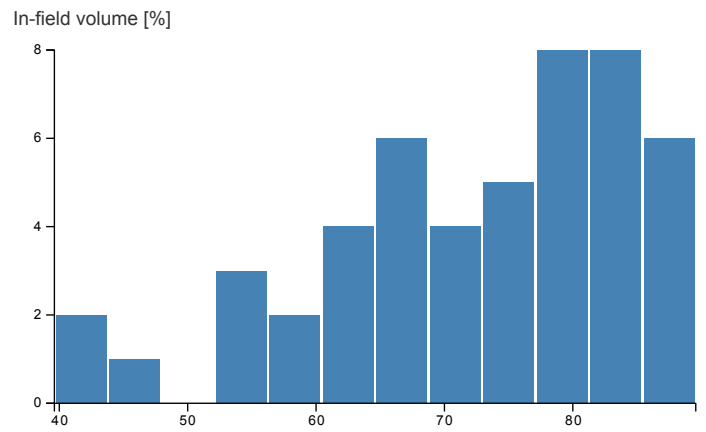
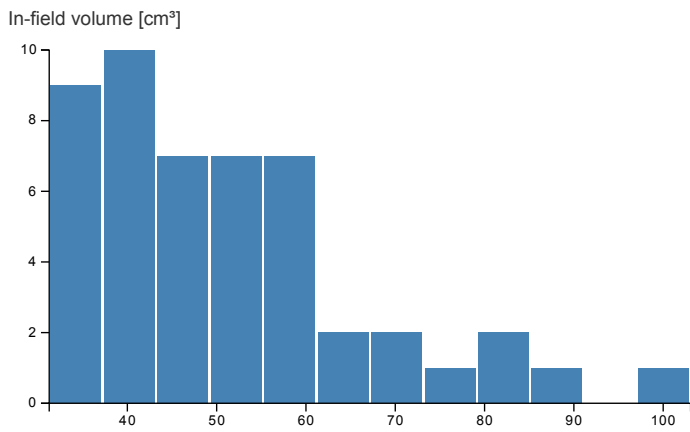
Plan #	Structure	Reason
67	Rectum	The geometry of the structure seems to differ from the majority: The expected dose for the OAR (based on distance from the target) is bigger than the average.
52	Rectum	The geometry of the structure seems to differ from the majority: The expected dose for the OAR (based on distance from the target) is smaller than the average.
39	Rectum	The geometry of the structure seems to differ from the majority: The expected dose for the OAR (based on distance from the target) is bigger than the average.
60	Rectum	The geometry of the structure seems to differ from the majority: OAR volume is much bigger than the average (171.50cm ³ vs. 73.82cm ³).

Geometric information

Shows volume data for the structure. Reports if more data is needed for a certain volume range.

Feature	Min	Max	Mean	Std
Total volume [cm ³]	39.36	171.50	73.82	28.45
In-field volume [cm ³]	31.25	103.07	51.44	15.77
In-field volume [%]	39.62	89.58	72.28	12.63
Out-of-field volume [cm ³]	0.00	53.06	5.26	11.99
Out-of-field volume [%]	0.00	38.62	5.33	10.92
Overlap volume with the union of targets [cm ³]	0.26	13.74	6.36	2.99
Overlap volume with the union of targets [%]	0.41	19.10	9.02	4.15





Consider adding the following to the model

Reason

Not enough data exists for OAR volume between 91.69cm³ and 117.07cm³. To fill the data gap, consider adding more plans to the model.

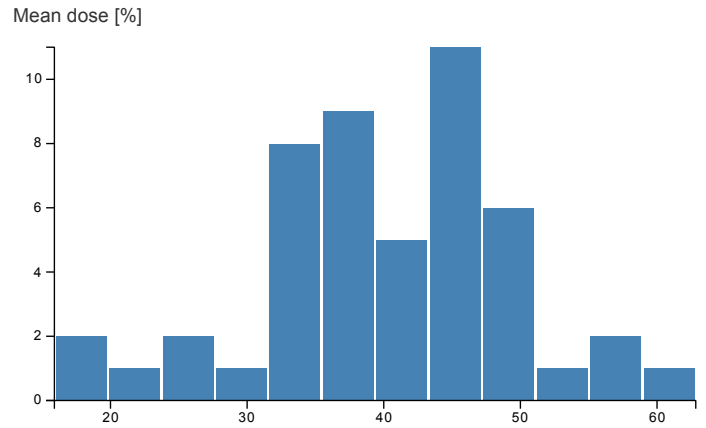
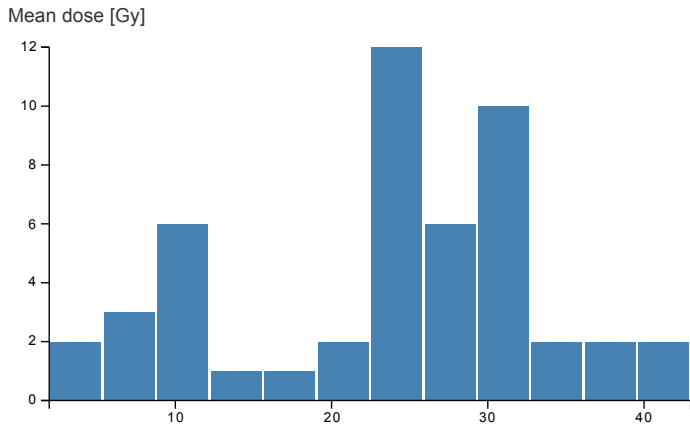
Not enough data exists for OAR overlap volume with the union of targets (%) between 12.91% and 16.38%. To fill the data gap, consider adding more plans to the model.

Not enough data exists for OAR in-field volume between 88.74cm³ and 103.07cm³. To fill the data gap, consider adding more plans to the model.

Dosimetric information

Shows dose that the structure receives. Reports if dose is higher than estimated and lists potential trade-offs.

Feature	Min	Max	Mean	Std
Mean dose [Gy]	1.93	42.98	23.41	10.07
Mean dose [%]	15.89	62.83	40.22	9.35



Plan #	Structure	Criteria
33	Rectum	The mean dose for the structure (43 Gy) seems higher than its estimated range (34-40 Gy).

BLADDER

Matched ID:s

Bladder(48)

Model information

Reports deviant or influential plan structures. They have the greatest effect on the accuracy of DVH estimates.

Consider removing the following from the model

No suggestions

Check the following plans

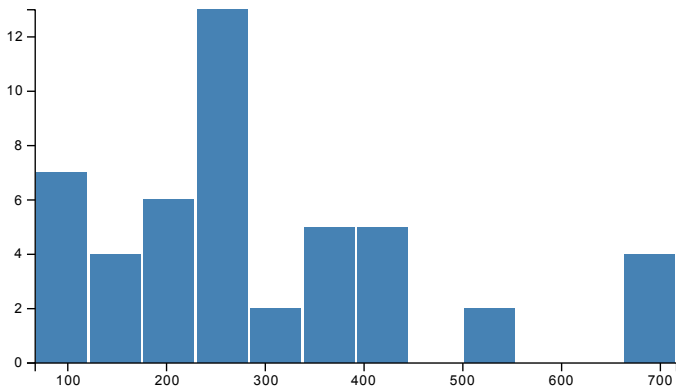
Plan #	Structure	Reason
29	Bladder	The structure may distort the shape and position of estimated DVHs. The geometry of the structure seems to differ from the majority: The expected dose for the OAR (based on distance from the target) is bigger than the average.
62	Bladder	The geometry of the structure seems to differ from the majority: OAR in-field volume is much bigger than the average (251.29cm ³ vs. 103.37cm ³).
39	Bladder	The geometry of the structure seems to differ from the majority: OAR in-field volume is much bigger than the average (254.81cm ³ vs. 103.37cm ³).

Geometric information

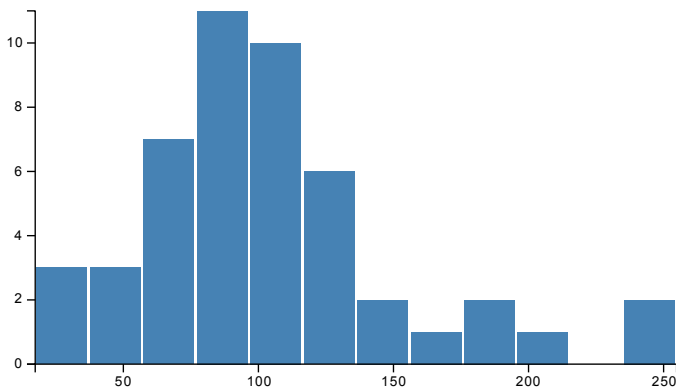
Shows volume data for the structure. Reports if more data is needed for a certain volume range.

Feature	Min	Max	Mean	Std
Total volume [cm ³]	67.03	716.41	294.10	165.52
In-field volume [cm ³]	17.37	254.81	103.37	50.66
In-field volume [%]	7.43	69.21	40.09	15.21
Out-of-field volume [cm ³]	0.00	569.80	69.72	120.80
Out-of-field volume [%]	0.00	79.54	15.75	21.16
Overlap volume with the union of targets [cm ³]	2.73	101.33	49.33	20.99
Overlap volume with the union of targets [%]	0.69	59.93	23.09	15.40

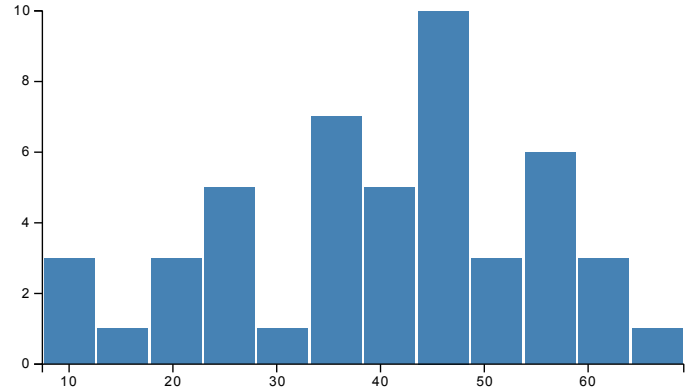
Total volume [cm³]



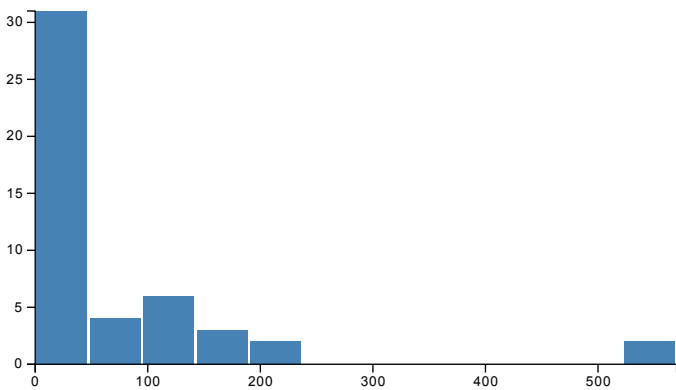
In-field volume [cm³]



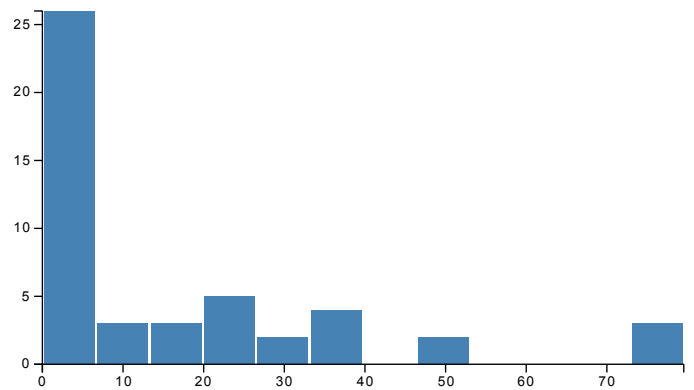
In-field volume [%]



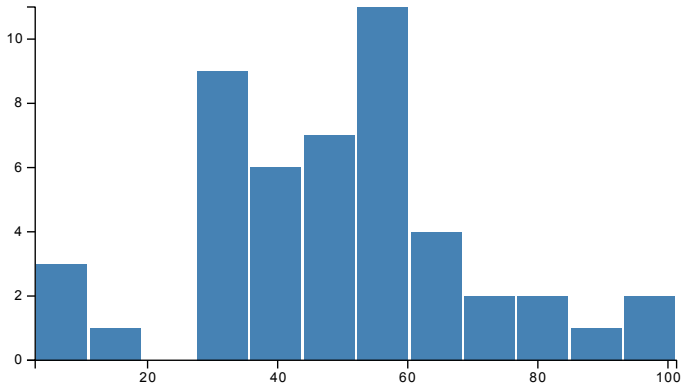
Out-of-field volume [cm³]



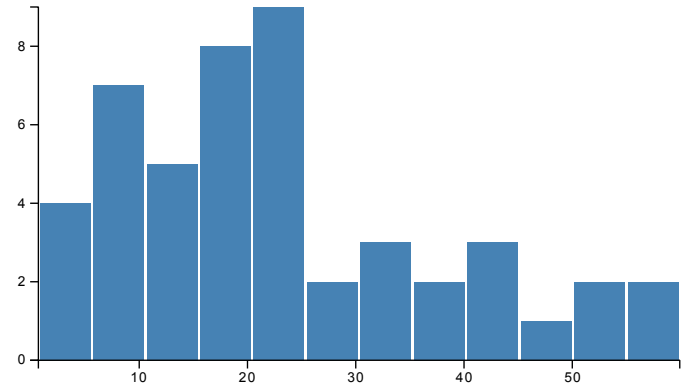
Out-of-field volume [%]



Overlap volume with the union of targets [cm³]



Overlap volume with the union of targets [%]



Consider adding the following to the model

Reason

Not enough data exists for OAR volume between 527.15cm³ and 672.53cm³. To fill the data gap, consider adding more plans to the model.

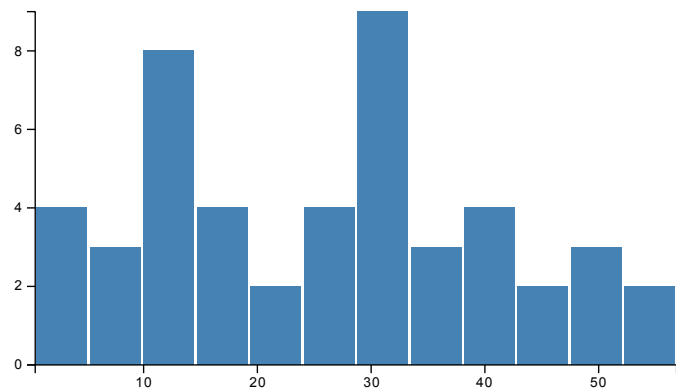
Not enough data exists for OAR in-field volume between 205.33cm³ and 251.29cm³. To fill the data gap, consider adding more plans to the model.

Dosimetric information

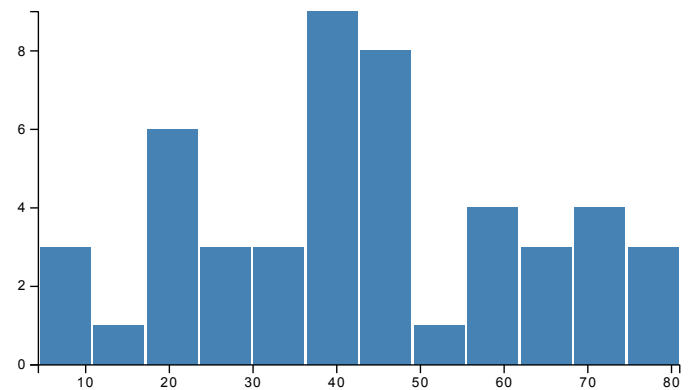
Shows dose that the structure receives. Reports if dose is higher than estimated and lists potential trade-offs.

Feature	Min	Max	Mean	Std
Mean dose [Gy]	0.47	56.85	26.06	15.37
Mean dose [%]	4.35	80.98	43.19	20.46

Mean dose [Gy]



Mean dose [%]



No suggestions

Femur_L

Matched ID:s

Fem Head LT(43), Femur_L(7)

Model information

Reports deviant or influential plan structures. They have the greatest effect on the accuracy of DVH estimates.

Consider removing the following from the model

No suggestions

Check the following plans

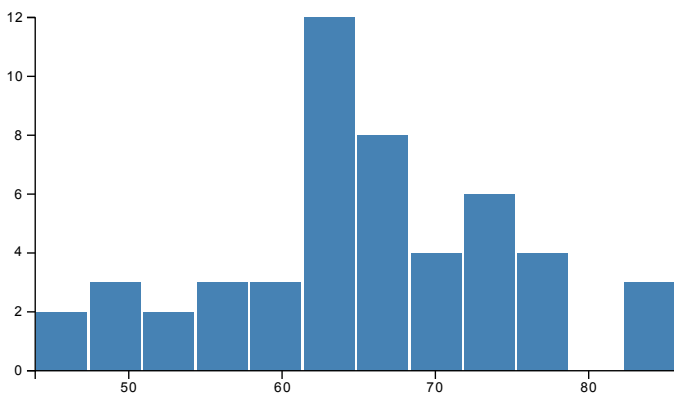
Plan #	Structure	Reason
46	Fem Head LT	The structure may distort the shape and position of estimated DVHs. The generated DVH estimate for this structure seems to be lower than for the majority of structures.
52	Fem Head LT	The geometry of the structure seems to differ from the majority: OAR in-field volume (%) is much smaller than the average (31.66% vs. 92.81%).
45	Fem Head LT	The geometry of the structure seems to differ from the majority: The expected dose for the OAR (based on distance from the target) is smaller than the average.
28	Fem Head LT	The geometry of the structure seems to differ from the majority: OAR in-field volume (%) is much smaller than the average (48.57% vs. 92.81%).

Geometric information

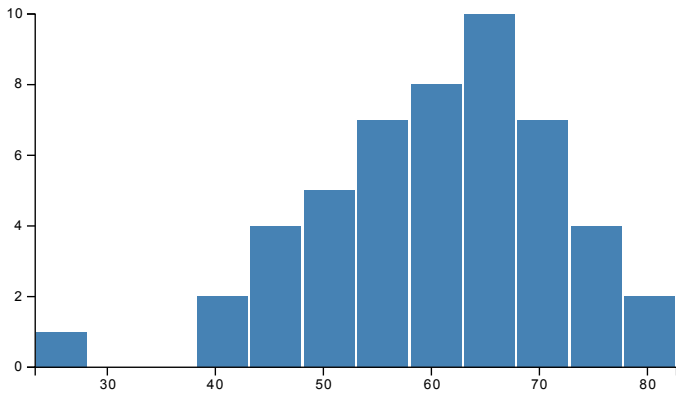
Shows volume data for the structure. Reports if more data is needed for a certain volume range.

Feature	Min	Max	Mean	Std
Total volume [cm ³]	43.90	85.73	65.50	9.41
In-field volume [cm ³]	23.32	82.70	60.33	11.32
In-field volume [%]	31.66	100.00	92.81	14.42
Out-of-field volume [cm ³]	0.00	27.98	1.21	5.10
Out-of-field volume [%]	0.00	37.98	1.60	6.64
Overlap volume with the union of targets [cm ³]	0.00	0.00	0.00	0.00
Overlap volume with the union of targets [%]	0.00	0.00	0.00	0.00

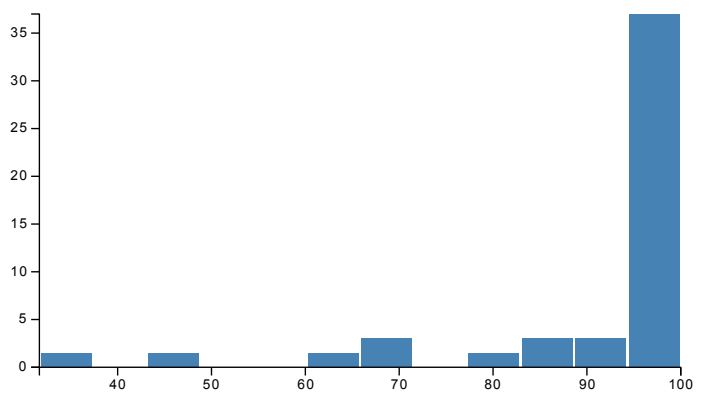
Total volume [cm³]



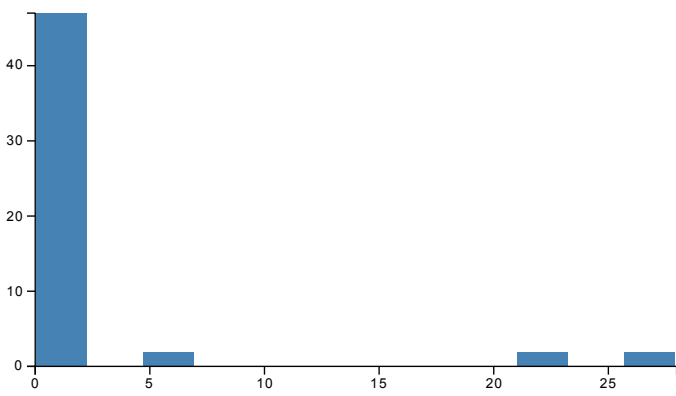
In-field volume [cm³]



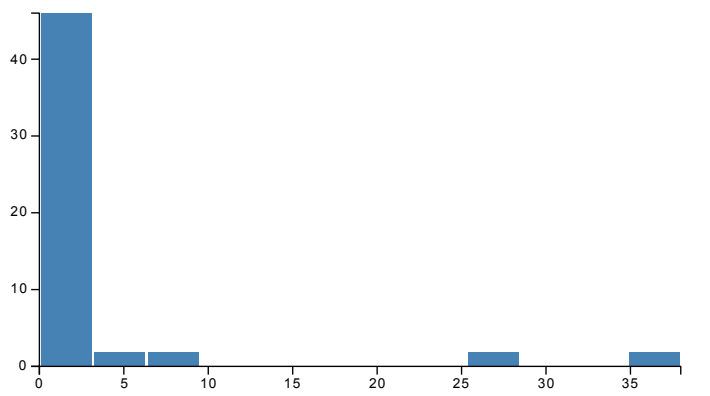
In-field volume [%]



Out-of-field volume [cm³]



Out-of-field volume [%]



Overlap volume with the union of targets [cm³]

All values are 0

Overlap volume with the union of targets [%]

All values are 0

Consider adding the following to the model

Reason

Not enough data exists for OAR volume between 76.52cm³ and 83.35cm³. To fill the data gap, consider adding more plans to the model.

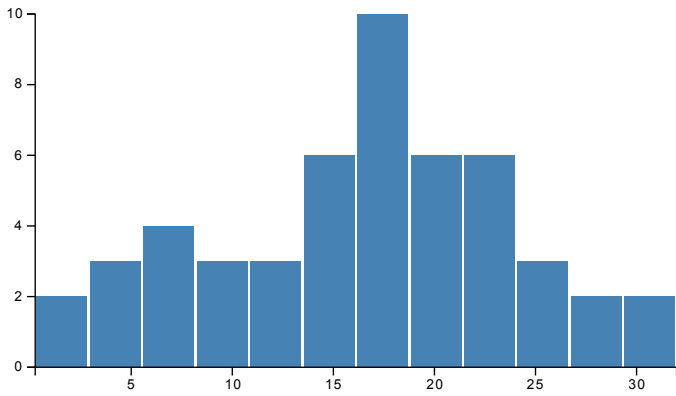
Not enough data exists for OAR in-field volume (%) between 31.66% and 61.95%. Not enough data exists for OAR in-field volume between 23.32cm³ and 40.48cm³. To fill the data gap, consider adding more plans to the model.

Dosimetric information

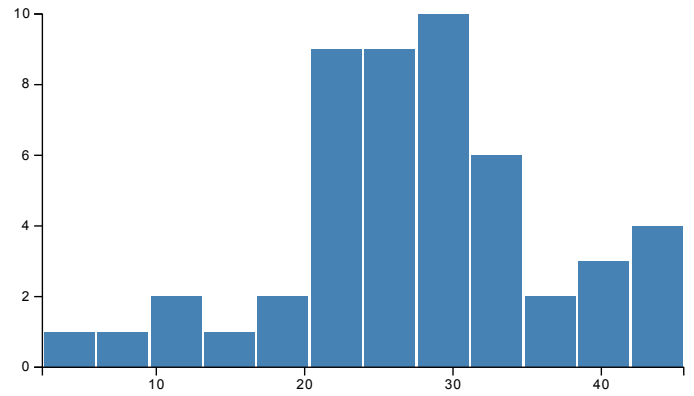
Shows dose that the structure receives. Reports if dose is higher than estimated and lists potential trade-offs.

Feature	Min	Max	Mean	Std
Mean dose [Gy]	0.25	31.98	16.23	7.68
Mean dose [%]	2.32	45.55	27.55	9.33

Mean dose [Gy]



Mean dose [%]



Plan #	Structure	Criteria
29	Fem Head LT	The mean dose for the structure (32 Gy) seems higher than its estimated range (21-26 Gy). Potential trade-off with: Rectum [Rectum].
35	Femur_L	The mean dose for the structure (27 Gy) seems higher than its estimated range (18-24 Gy).
42	Fem Head LT	The mean dose for the structure (11 Gy) seems higher than its estimated range (7.3-9.6 Gy).

Femur_R

Matched ID:s

Fem Head RT(43), Femur_R(7)

Model information

Reports deviant or influential plan structures. They have the greatest effect on the accuracy of DVH estimates.

Consider removing the following from the model

No suggestions

Check the following plans

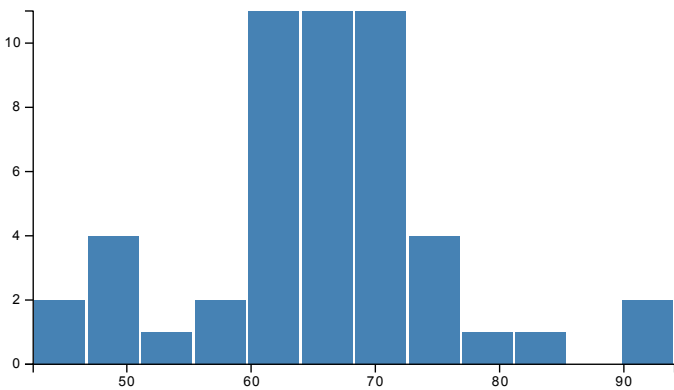
Plan #	Structure	Reason
29	Fem Head RT	The shape of the estimated DVH seems to differ from the original DVH curve, or the dose of the structure may differ considerably from the average.
45	Fem Head RT	The geometry of the structure seems to differ from the majority: OAR in-field volume (%) is much smaller than the average (61.13% vs. 93.17%).
28	Fem Head RT	The geometry of the structure seems to differ from the majority: OAR in-field volume (%) is much smaller than the average (29.37% vs. 93.17%).
43	Fem Head RT	The geometry of the structure seems to differ from the majority: OAR volume is much bigger than the average (93.34cm ³ vs. 65.76cm ³).
52	Fem Head RT	The geometry of the structure seems to differ from the majority: OAR in-field volume (%) is much smaller than the average (31.48% vs. 93.17%).

Geometric information

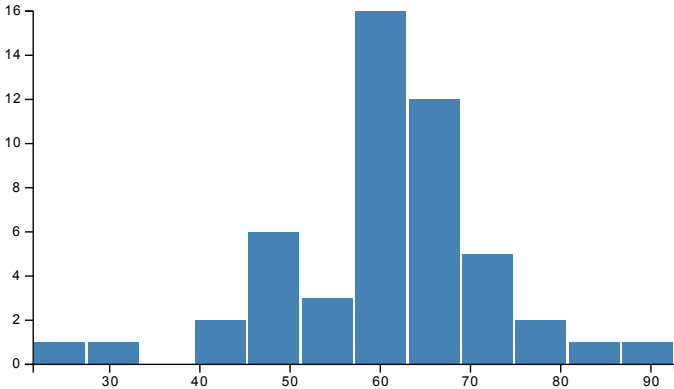
Shows volume data for the structure. Reports if more data is needed for a certain volume range.

Feature	Min	Max	Mean	Std
Total volume [cm ³]	42.47	94.08	65.76	10.22
In-field volume [cm ³]	21.52	92.63	60.64	12.09
In-field volume [%]	29.37	100.00	93.17	15.57
Out-of-field volume [cm ³]	0.00	45.57	1.63	7.35
Out-of-field volume [%]	0.00	48.44	2.03	8.63
Overlap volume with the union of targets [cm ³]	0.00	0.00	0.00	0.00
Overlap volume with the union of targets [%]	0.00	0.00	0.00	0.00

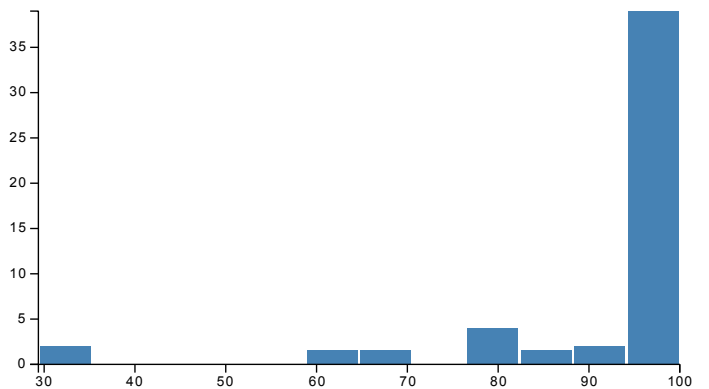
Total volume [cm³]



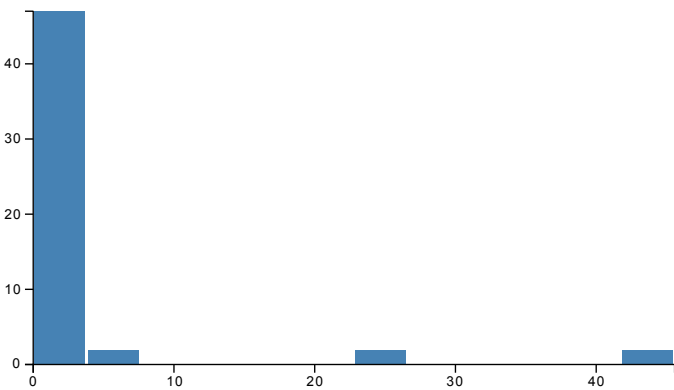
In-field volume [cm³]



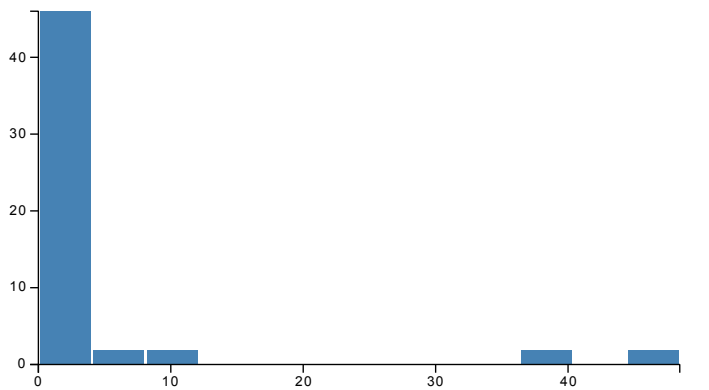
In-field volume [%]



Out-of-field volume [cm³]



Out-of-field volume [%]



Overlap volume with the union of targets [cm³]

Overlap volume with the union of targets [%]

All values are 0

All values are 0

Consider adding the following to the model

Reason

Not enough data exists for OAR volume between 85.18cm³ and 93.34cm³. To fill the data gap, consider adding more plans to the model.

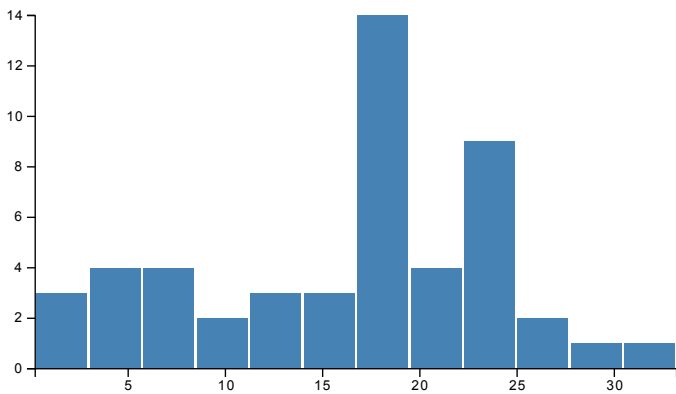
Not enough data exists for OAR in-field volume (%) between 31.48% and 61.13%. Not enough data exists for OAR in-field volume between 27.63cm³ and 41.70cm³. To fill the data gap, consider adding more plans to the model.

Dosimetric information

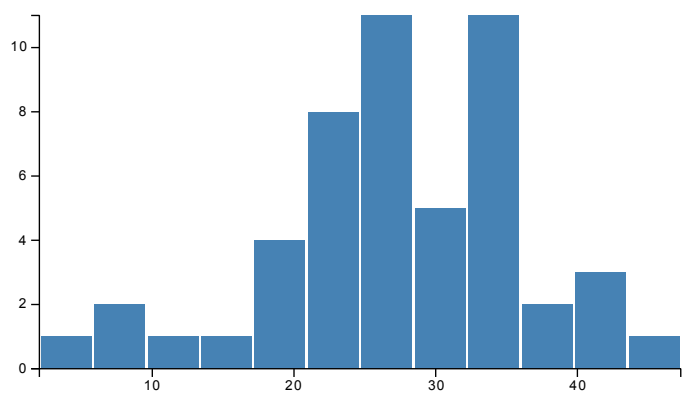
Shows dose that the structure receives. Reports if dose is higher than estimated and lists potential trade-offs.

Feature	Min	Max	Mean	Std
Mean dose [Gy]	0.22	33.20	16.40	7.78
Mean dose [%]	2.03	47.29	27.53	8.91

Mean dose [Gy]



Mean dose [%]



Plan #	Structure	Criteria
18	Fem Head RT	The mean dose for the structure (23 Gy) seems higher than its estimated range (15-21 Gy).
29	Fem Head RT	The mean dose for the structure (33 Gy) seems higher than its estimated range (21-27 Gy). Potential trade-off with: Rectum [Rectum].
35	Femur_R	The mean dose for the structure (27 Gy) seems higher than its estimated range (18-23 Gy).
42	Fem Head RT	The mean dose for the structure (11 Gy) seems higher than its estimated range (6.8-9.2 Gy).

PenileBulb

Matched ID:s

Penile Bulb(38), PenileBulb(7)

Model information

Reports deviant or influential plan structures. They have the greatest effect on the accuracy of DVH estimates.

Consider removing the following from the model

No suggestions

Check the following plans

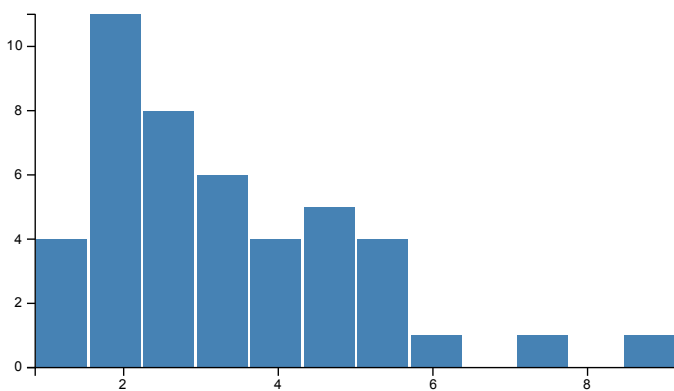
Plan #	Structure	Reason
43	Penile Bulb	The structure may distort the shape and position of estimated DVHs. The geometry of the structure seems to differ from the majority: OAR volume is much bigger than the average (9.15cm ³ vs. 3.31cm ³).

Geometric information

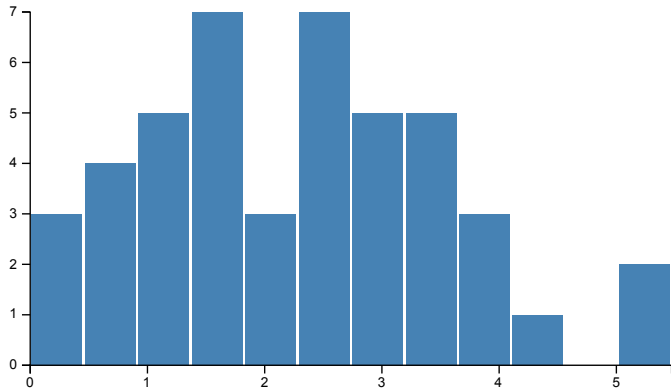
Shows volume data for the structure. Reports if more data is needed for a certain volume range.

Feature	Min	Max	Mean	Std
Total volume [cm ³]	0.86	9.15	3.31	1.72
In-field volume [cm ³]	0.00	5.47	2.27	1.29
In-field volume [%]	0.00	100.00	71.48	30.55
Out-of-field volume [cm ³]	0.00	2.23	0.07	0.35
Out-of-field volume [%]	0.00	24.33	1.24	4.47
Overlap volume with the union of targets [cm ³]	0.00	2.42	0.22	0.55
Overlap volume with the union of targets [%]	0.00	86.58	8.31	19.55

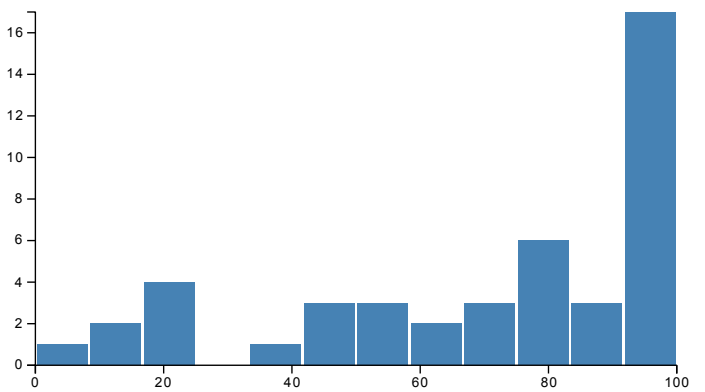
Total volume [cm³]



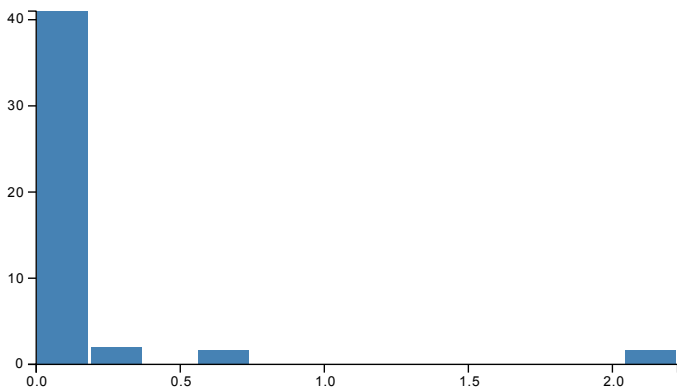
In-field volume [cm³]



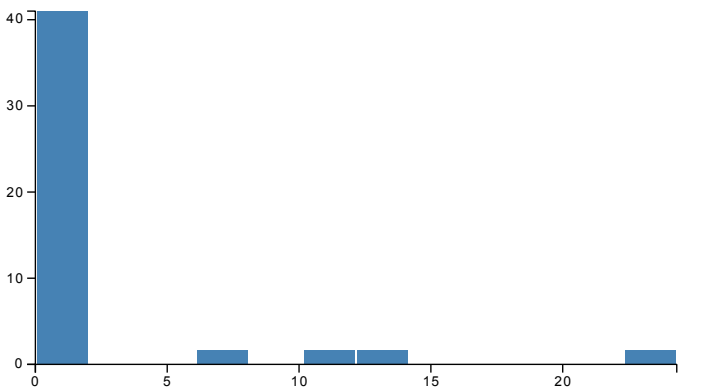
In-field volume [%]



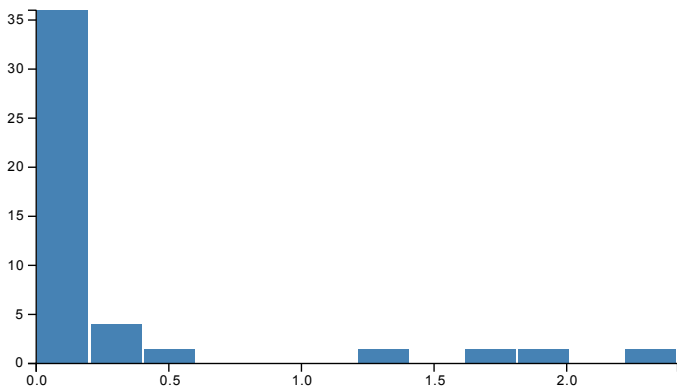
Out-of-field volume [cm³]



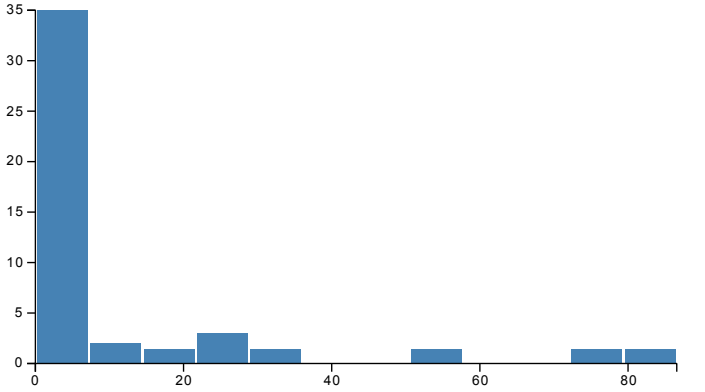
Out-of-field volume [%]



Overlap volume with the union of targets [cm³]



Overlap volume with the union of targets [%]



Consider adding the following to the model

Reason

Not enough data exists for OAR volume between 7.14cm³ and 9.15cm³. To fill the data gap, consider adding more plans to the model.

Not enough data exists for OAR overlap volume with the union of targets (%) between 35.99% and 78.24%. Not enough data exists for OAR overlap volume with the union of targets between 0.53cm³ and 1.76cm³. To fill the data gap, consider adding more plans to the model.

Not enough data exists for OAR in-field volume (%) between 21.76% and 40.80%. To fill the data gap, consider adding more plans to the model.

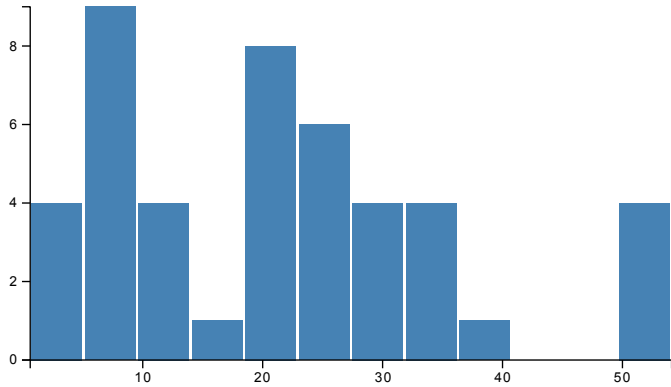
Not enough in-field data exists for this structure. The generated DVH estimates may not be optimal. Consider adding 22 more plans to the model.

Dosimetric information

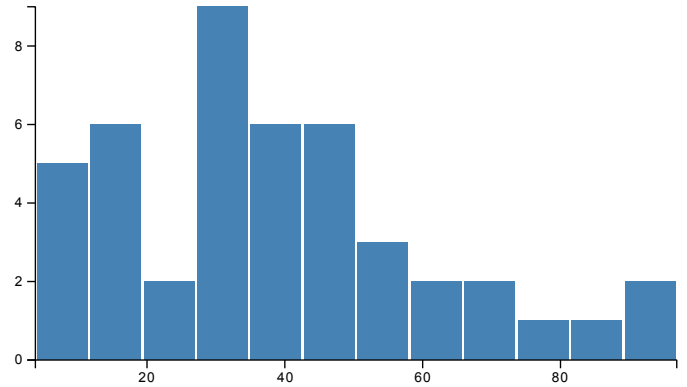
Shows dose that the structure receives. Reports if dose is higher than estimated and lists potential trade-offs.

Feature	Min	Max	Mean	Std
Mean dose [Gy]	0.62	54.10	21.11	13.97
Mean dose [%]	3.80	96.87	38.77	23.07

Mean dose [Gy]



Mean dose [%]



Plan #	Structure	Criteria
4	Penile Bulb	The mean dose for the structure (33 Gy) seems higher than its estimated range (21-28 Gy).
19	Penile Bulb	The mean dose for the structure (38 Gy) seems higher than its estimated range (29-36 Gy).
20	Penile Bulb	The mean dose for the structure (50 Gy) seems higher than its estimated range (42-47 Gy).
35	PenileBulb	The mean dose for the structure (28 Gy) seems higher than its estimated range (19-26 Gy).