Description

Version 1 - Published 08/18/20 Robert Kaderka and Kevin Moore

Dose prescriptions

5.40 Gy (2), 9.00 Gy (1), 14.40 Gy (1), 16.20 Gy (1), 27.00 Gy (1), 45.00 Gy (1), 46.80 Gy (1), 48.60 Gy (1), 50.00 Gy (3), 50.40 Gy (14), 54.00 Gy (35), 55.80 Gy (1), 60.00 Gy (1), 61.99 Gy (1), 62.00 Gy (3)

Model summary

Number of targets	5
Number of OARs	10
Total number of plans	70

Target structures	
PTV_High	70
PTV_INT_DVH	65
PTV_INT_OPT	51
PTV_LOW_DVH	28
PTV_LOW_OPT	24

Analyzed OAR structures	
3-15mm_Ring	48
Bladder	40
BoneMarrow	25
BowelSpace	47
FemoralHeads	88
Genitals	35
Sigmoid	21

Unable to analyze	
Kidneys	0
PenileBulb	14
SpinalCanal	11

PTV_High

Matched ID:s

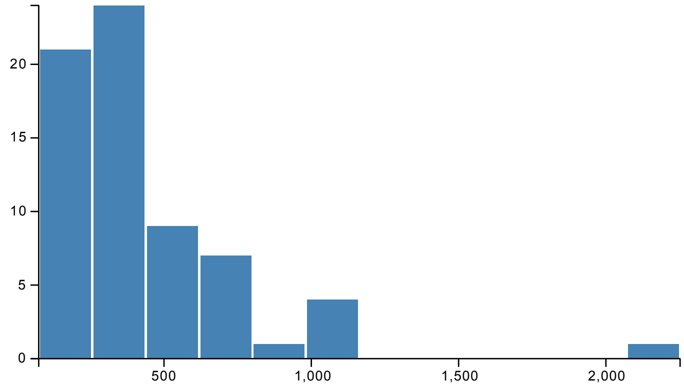
PTV54 NEW(1), PTV_5400(3), ptv 50.4(1), PTV54(8), PTV 5040(3), PTV5400(3), PTV62(1), ptv 50.4 jm(1), ptv50.4(2), PTV_5040(2), ptv 6200(1), PTV_54(4), PTV 50.4(1), PTV 54(1), PTV 5400(12), PTV 59.4 jm(1), ptv 5040(1), ptv54(4), PTV 54 jm(1), PTV50.4(2), ptv54 swd(1), ptv_54(1), PTV5040(1), PTV 6200(2), PTV 5400 cGy Opt(1), PTV5400_dvh(1), ptv5580(1), PTV 4500(1), PTV50(1), Opt_PTV60 DVH(1), ptv_59.4(1), PTV_5940new(1), PTV_5000(2), ptv50(1), PTV 59.4(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 [cm³]	74.68	2251.86	418.75	332.68

Total volume [cm³]



Consider adding the following to the model

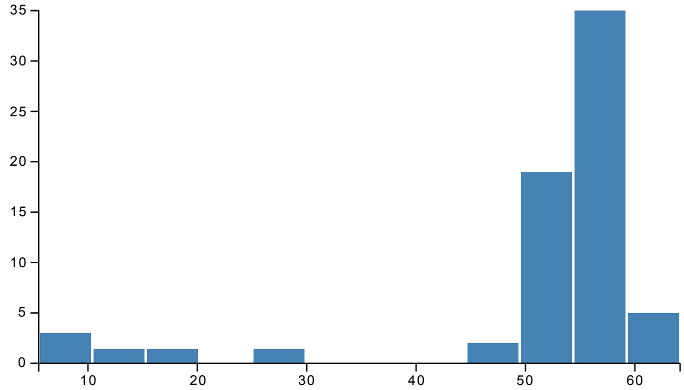
Reason
Not enough data exists for Volume (cm³) between 1115.22cm³ and 2251.86cm³. To fill the data gap, consider adding more plans to the model.

Dosimetric information

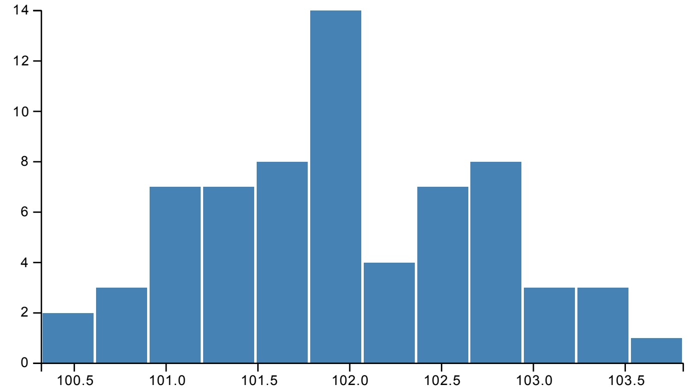
Shows the dose that the target structure receives as well as its dose homogeneity. Reports if homogeneity in this target is lower than in the majority of targets and lists potential trade-offs.

Feature	Min	Max	Mean	Std
Mean dose [Gy]	5.50	64.13	50.63	12.52
Mean dose [%]	100.32	103.82	101.95	0.78
Sigma index	0.07	2.51	0.80	0.35

Mean dose [Gy]



Mean dose [%]



Plan #	Structure	Criteria
3	PTV54	The dose homogeneity within the structure (sigma index 2.51) seems lower than average (reporting threshold 1.51).
52	ptv54	The dose homogeneity within the structure (sigma index 1.65) seems lower than average (reporting threshold 1.51).

PTV_INT_DVH

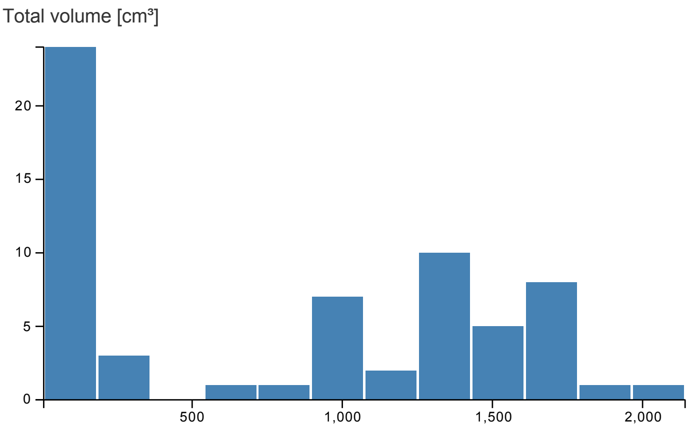
Matched ID:s

PTV_LOW_DVH(1), PTV_5040(1), PTV_4200_DVH_RK(8), PTV_4500_DVH_RK(8), PTV5040_dvh(3), PTV50.4_DVH(1), PTV_Int_DVH(1), x dvh ptv42-5040(1), PTV_4200 DVH(1), PTV5040_DVH(2), PTV_5040_DVH_RK(10), PTV_4600_DVH_RK(1), PTV 42_dvh(1), PTV 50.4 DHV(1), PTV 4500_DVH(1), PTV_4500_DVH(1), PTV5000_dvh(1), PTV 5040_DVH(2), PTV 45_PTV 54(1), PTV 54-45(1), PTV_4200_DVH(1), PTV 5040 dvh(1), PTV 5040_opt(1), PTV 5040 cGy(1), PTV_INT_DVH(1), PTV45_DVH(1), PTV50.4(1), 0DVH PTV_50.4(1), 0 PTV_50.4 DVH(1), PTV_5040_OPT_RK(1), PTV_5040_DVH(1), 0DVH PTV45(1), Opt_PTV45 DVH(1), PTV_45 DVH(1), PTV45 DVH(1), 0DVH PTV50.4(1), PTV 5040(1), dvh PTV_4500(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 [cm³]	5.69	2141.63	826.15	678.01



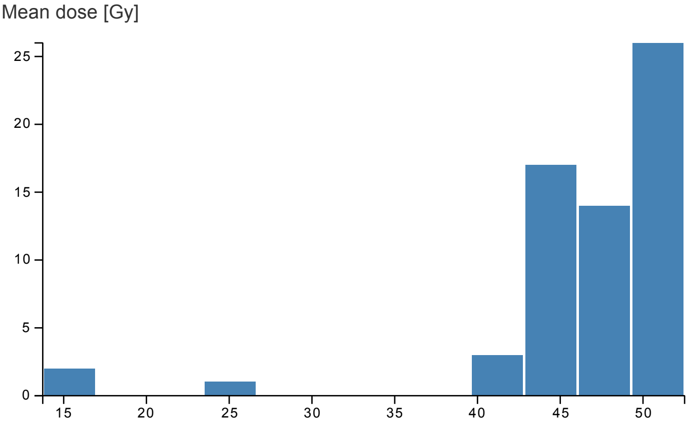
Consider adding the following to the model

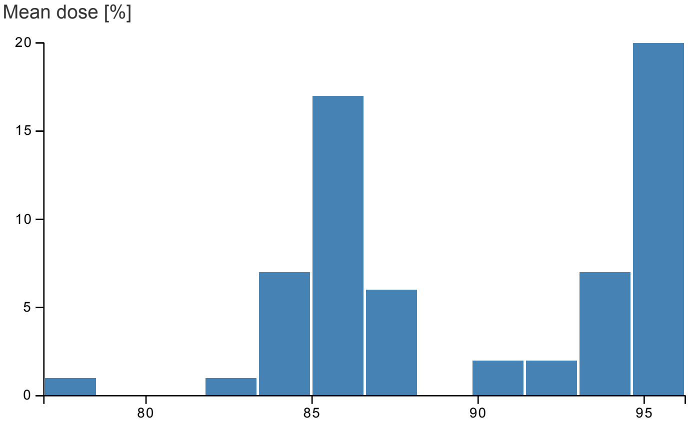
Reason
Not enough data exists for Volume (cm³) between 250.56cm³ and 636.26cm³. To fill the data gap, consider adding more plans to the model.

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]	13.74	52.51	46.48	7.30
Mean dose [%]	76.92	96.24	89.99	5.10
Sigma index	0.23	2.10	1.03	0.37





Plan #	Structure	Criteria
4	PTV_4500_DVH	The dose homogeneity within the structure (sigma index 2.10) seems lower than average (reporting threshold 1.77).
24	PTV5040_DVH	The dose homogeneity within the structure (sigma index 1.90) seems lower than average (reporting threshold 1.77).

PTV_INT_OPT

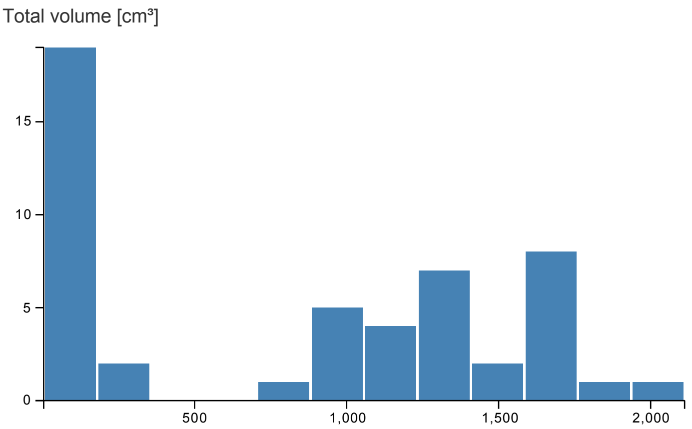
Matched ID:s

PTV_LOW_OPT(1), PTV_4200_OPT_RK(8), PTV_5040_OPT_RK(10), PTV_4200 Opt(1), PTV50.4 opt(1), PTV_4600_OPT_RK(1), PTV 42_opt(1), PTV_4500_OPT_RK(2), PTV_5040_Opt_RK(11), PTV_4500_Opt_RK(9), PTV_4200_Opt_RK(2), PTV45_opt(1), PTV 4500_opt(1), 0 opt PTV45(1), 0PT PTV50.4(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 [cm³]	3.59	2111.69	849.44	693.26



Consider adding the following to the model

Reason

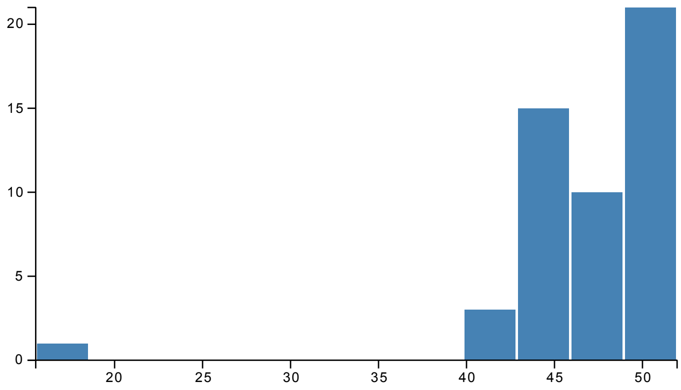
Not enough data exists for Volume (cm³) between 229.13cm³ and 841.70cm³. To fill the data gap, consider adding more plans to the model.

Dosimetric information

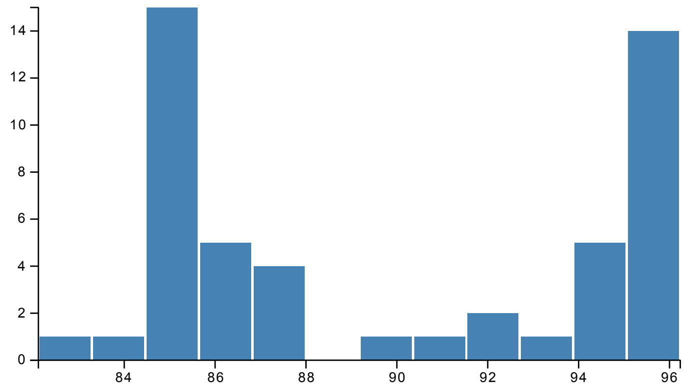
Shows the dose that the target structure receives as well as its dose homogeneity. Reports if homogeneity in this target is lower than in the majority of targets and lists potential trade-offs.

Feature	Min	Max	Mean	Std
Mean dose [Gy]	15.52	51.97	47.06	5.72
Mean dose [%]	82.11	96.24	89.84	4.84
Sigma index	0.23	1.49	0.84	0.25

Mean dose [Gy]



Mean dose [%]



Plan #	Structure	Criteria
4	PTV_4500_OPT_RK	The dose homogeneity within the structure (sigma index 1.49) seems lower than average (reporting threshold 1.34).
62	PTV_4500_Opt_RK	The dose homogeneity within the structure (sigma index 1.44) seems lower than average (reporting threshold 1.34).

PTV_LOW_DVH

Matched ID:s

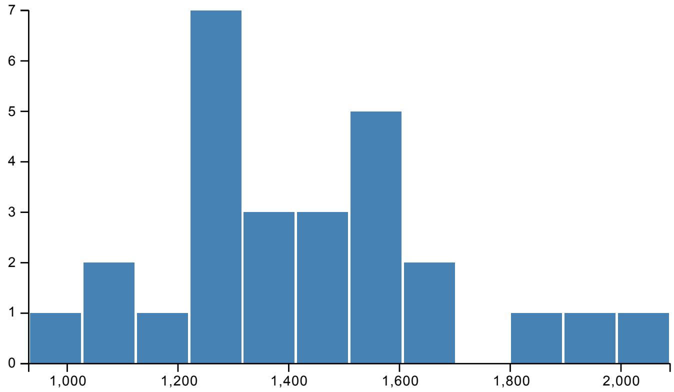
PTV_4500_DVH_RK(12), PTV4500_dvh(3), PTV 45 DVH(1), PTV4500_DVH(1), PTV 4500_DVH(2), PTV 4500 dvh(1), PTV 4500 cGy DVH(1), PTV_LOW_DVH(1), PTV45 DVH(1), 0DVH PTV_45(1), 0 PTV_45 DVH(1), PTV_4500_DVH(1), 0DVH PTV45(1), PTV 45_DVH(1)

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 [cm³]	930.46	2088.67	1436.64	259.04

Total volume [cm³]



Consider adding the following to the model

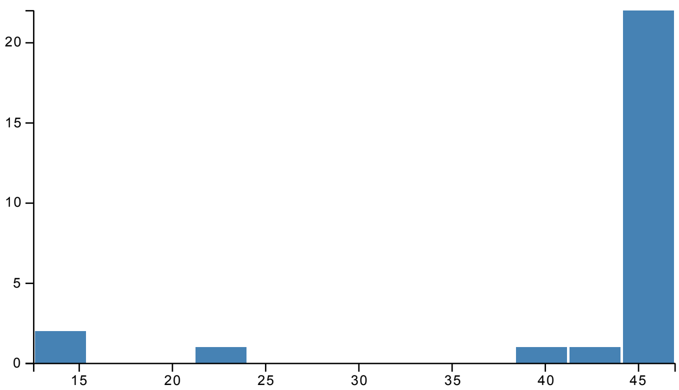
No suggestions

Dosimetric information

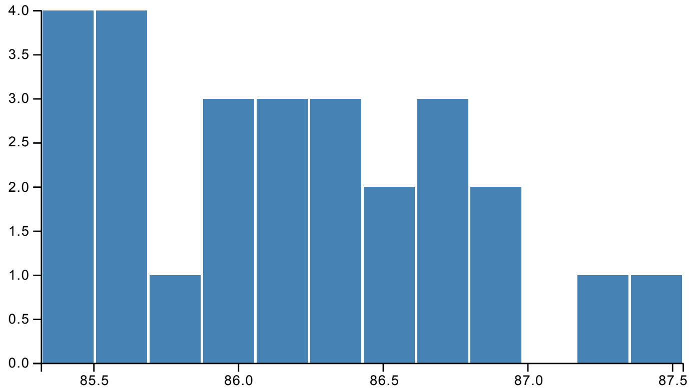
Shows the dose that the target structure receives as well as its dose homogeneity. Reports if homogeneity in this target is lower than in the majority of targets and lists potential trade-offs.

Feature	**Min**	**Max**	**Mean**	**Std**
Mean dose [Gy]	12.56	46.96	42.79	9.69
Mean dose [%]	85.32	87.54	86.18	0.60
Sigma index	0.34	2.01	1.30	0.37

Mean dose [Gy]



Mean dose [%]



No suggestions

PTV_LOW_OPT

Matched ID:s

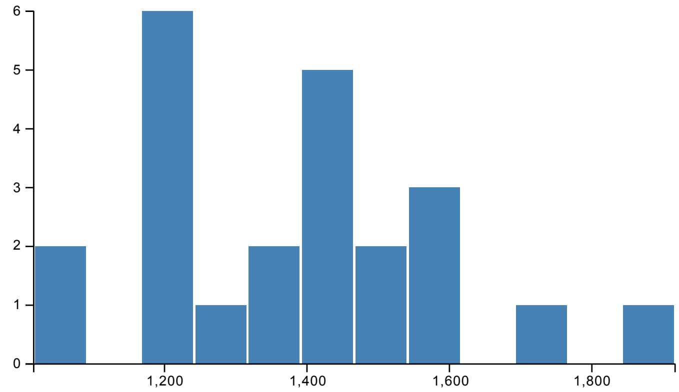
PTV_4500_OPT_RK(9), PTV45_opt(1), PTV_4500_Opt_RK(12), 0PT PTV45(1), PTV 45_OPT(1)

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 [cm³]	1016.37	1916.83	1374.61	212.68

Total volume [cm³]



Consider adding the following to the model

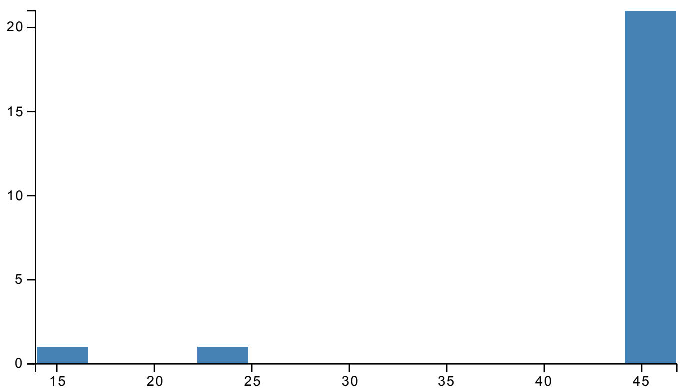
Reason
Not enough data exists for Volume (cm³) between 1031.92cm³ and 1176.65cm³. To fill the data gap, consider adding more plans to the model.

Dosimetric information

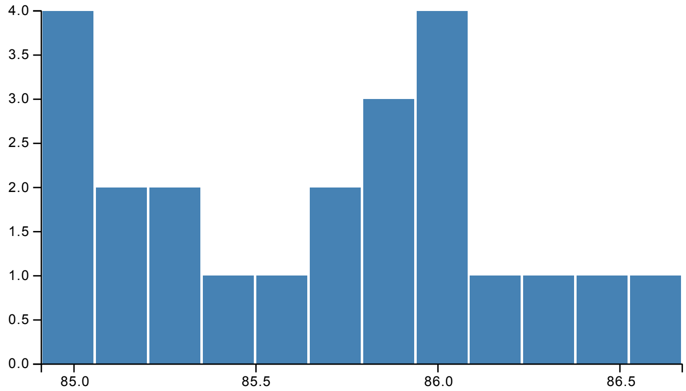
Shows the dose that the target structure receives as well as its dose homogeneity. Reports if homogeneity in this target is lower than in the majority of targets and lists potential trade-offs.

Feature	Min	Max	Mean	Std
Mean dose [Gy]	13.90	46.80	43.85	8.14
Mean dose [%]	84.91	86.67	85.66	0.51
Sigma index	0.28	1.37	0.96	0.24

Mean dose [Gy]



Mean dose [%]



No suggestions

3-15mm_Ring

Matched ID:s

3-15mm_Ring_RK(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

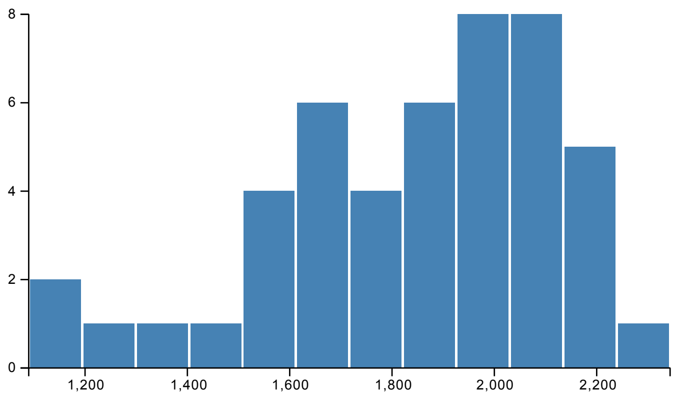
Plan #	Structure	Reason
18	3-15mm_Ring_RK	The geometry of the structure seems to differ from the majority: The expected dose for the OAR (based on distance from the target) is smaller than the average.
24	3-15mm_Ring_RK	The geometry of the structure seems to differ from the majority: The expected dose for the OAR (based on distance from the target) is smaller than the average.
66	3-15mm_Ring_RK	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.

Geometric information

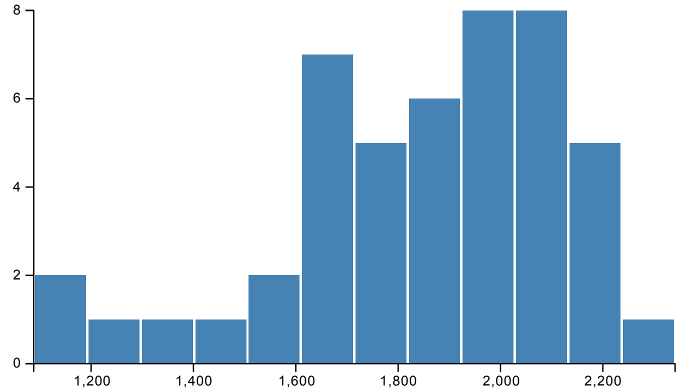
Shows volume data for the structure. Reports if more data is needed for a certain volume range.

Feature	Min	Max	Mean	Std
Total volume [cm³]	1089.89	2343.49	1843.70	274.84
In-field volume [cm³]	1087.86	2341.17	1842.29	275.36
In-field volume [%]	99.40	100.00	99.92	0.11
Out-of-field volume [cm³]	0.00	0.00	0.00	0.00
Out-of-field volume [%]	0.00	0.00	0.00	0.00
Overlap volume with the union of targets [cm³]	0.00	0.00	0.00	0.00
Overlap volume with the union of targets [%]	0.00	0.00	0.00	0.00

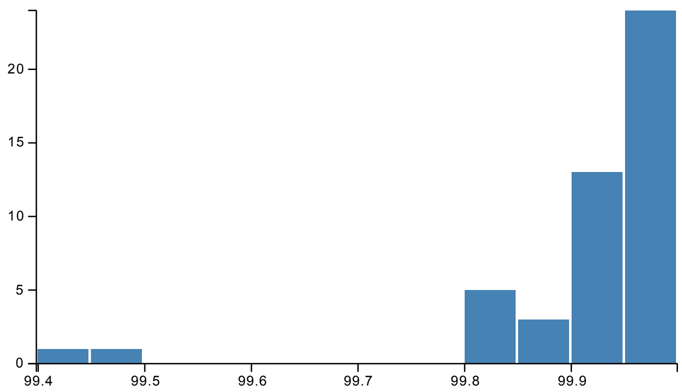
Total volume [cm³]



In-field volume [cm³]



In-field volume [%]



Out-of-field volume [cm³]

All values are 0

Out-of-field volume [%]

All values are 0

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

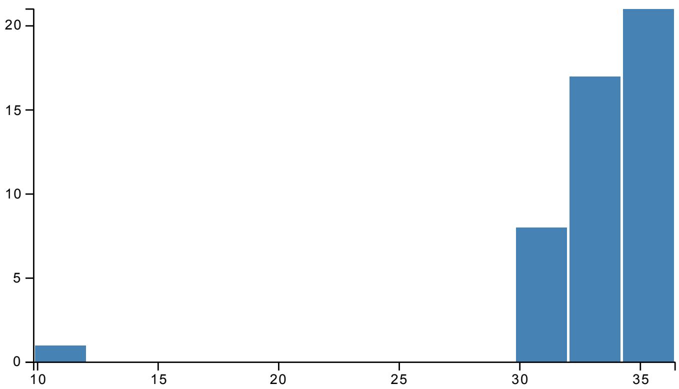
No suggestions

Dosimetric information

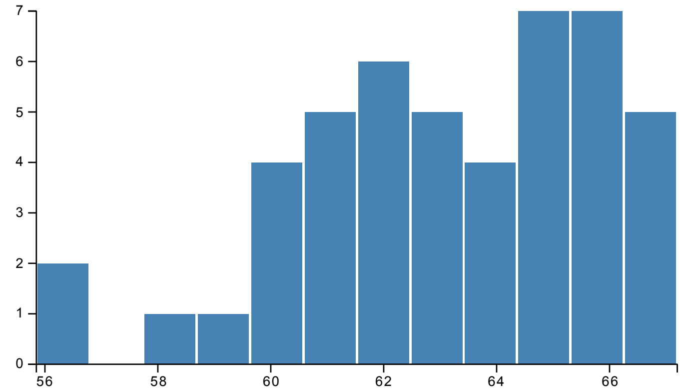
Shows dose that the structure receives. Reports if dose is higher than estimated and lists potential trade-offs.

Feature	Min	Max	Mean	Std
Mean dose [Gy]	9.84	36.44	33.31	3.87
Mean dose [%]	55.85	67.20	63.13	2.84

Mean dose [Gy]



Mean dose [%]



No suggestions

Bladder

Matched ID:s

Bladder(40)

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

Plan #	Structure	Reason
5	Bladder	The structure may distort the shape and position of estimated DVHs. 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. 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.
27	Bladder	The structure may distort the shape and position of estimated DVHs.
21	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 smaller than the average.
67	Bladder	The structure may distort the shape and position of estimated DVHs.

Check the following plans

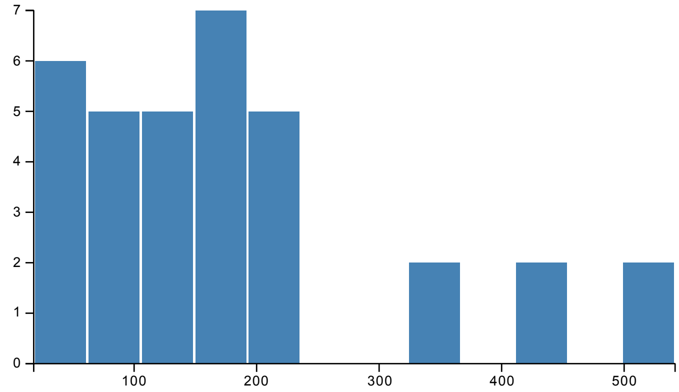
No suggestions

Geometric information

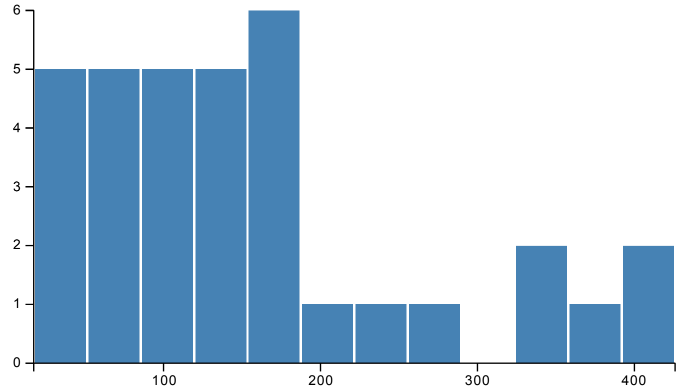
Shows volume data for the structure. Reports if more data is needed for a certain volume range.

Feature	Min	Max	Mean	Std
Total volume [cm^3]	18.05	541.60	184.42	139.13
In-field volume [cm^3]	17.29	425.92	156.74	111.53
In-field volume [%]	70.24	100.00	86.68	9.27
Out-of-field volume [cm^3]	0.00	0.00	0.00	0.00
Out-of-field volume [%]	0.00	0.00	0.00	0.00
Overlap volume with the union of targets [cm^3]	0.00	138.23	27.68	33.17
Overlap volume with the union of targets [%]	0.00	29.76	13.32	9.27

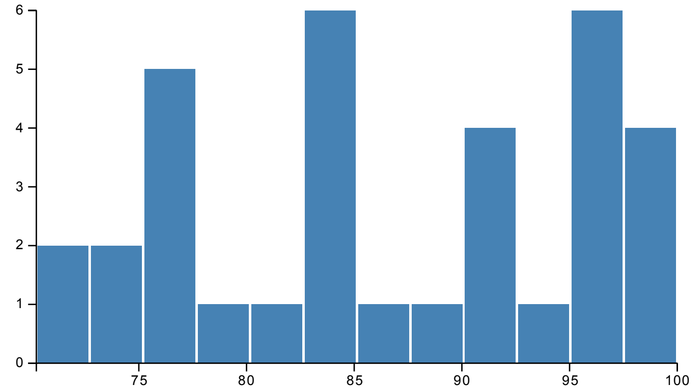
Total volume [cm³]



In-field volume [cm³]



In-field volume [%]



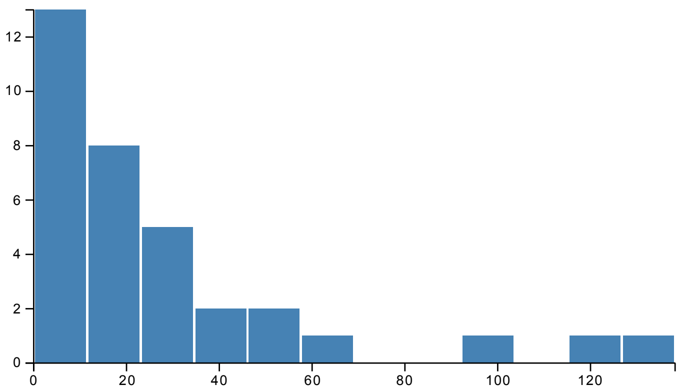
Out-of-field volume [cm³]

All values are 0

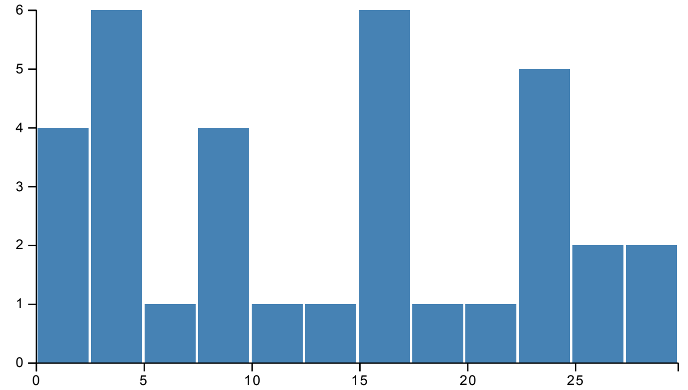
Out-of-field volume [%]

All values are 0

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 Volume (cm³) between 233.57cm³ and 346.88cm³. To fill the data gap, consider adding more plans to the model.
Not enough data exists for Overlap volume with the union of targets (cm³) between 58.52cm³ and 103.61cm³. To fill the data gap, consider adding more plans to the model.

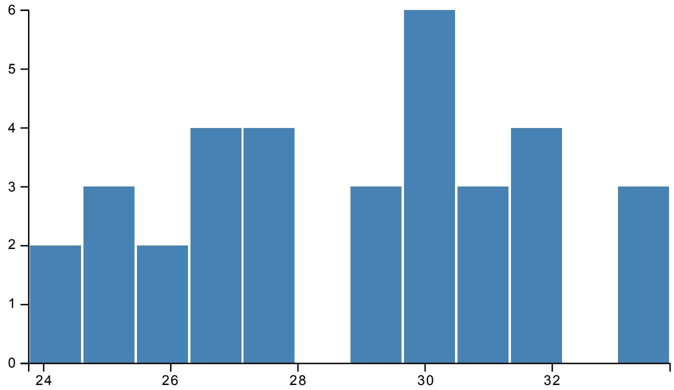
Reason
Not enough data exists for In-field volume (cm³) between 226.06cm³ and 288.36cm³. To fill the data gap, consider adding more plans to the model.

Dosimetric information

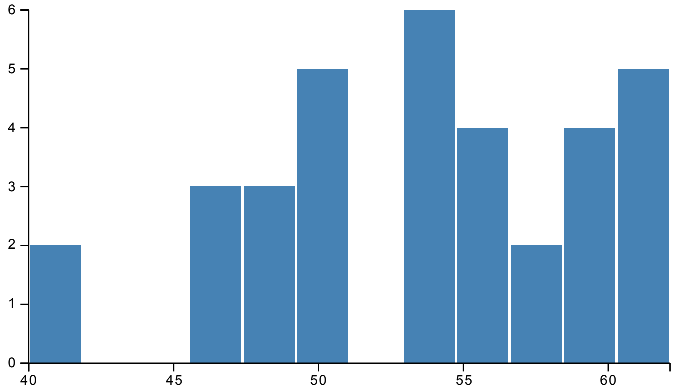
Shows dose that the structure receives. Reports if dose is higher than estimated and lists potential trade-offs.

Feature	Min	Max	Mean	Std
Mean dose [Gy]	23.77	33.85	28.82	2.84
Mean dose [%]	39.99	62.13	53.65	5.66

Mean dose [Gy]



Mean dose [%]



No suggestions

BoneMarrow

Matched ID:s

Bone Marrow(23), Bone_Marrow(1), BM(1)

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

Plan #	Structure	Reason
69	Bone Marrow	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 smaller than the average.

Check the following plans

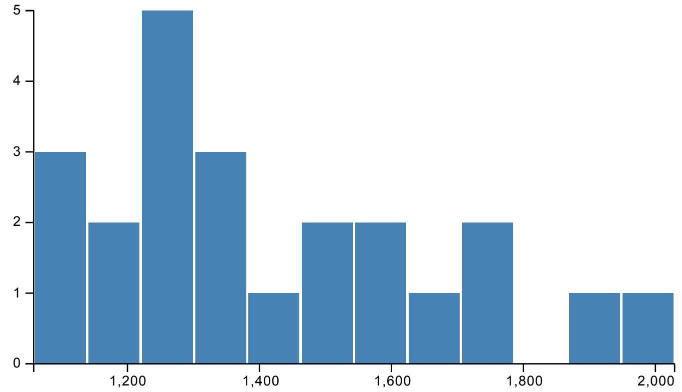
No suggestions

Geometric information

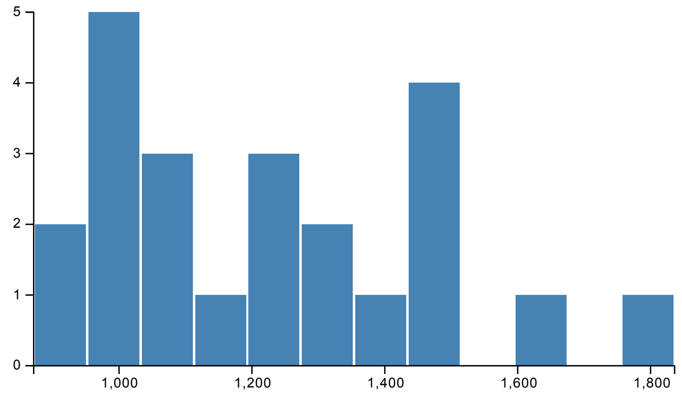
Shows volume data for the structure. Reports if more data is needed for a certain volume range.

Feature	Min	Max	Mean	Std
Total volume [cm³]	1057.93	2029.09	1430.02	262.09
In-field volume [cm³]	871.51	1836.19	1216.49	248.73
In-field volume [%]	77.10	90.49	84.85	4.02
Out-of-field volume [cm³]	0.00	108.01	25.53	32.56
Out-of-field volume [%]	0.00	8.53	1.86	2.41
Overlap volume with the union of targets [cm³]	76.39	173.51	119.90	26.60
Overlap volume with the union of targets [%]	4.75	14.76	8.60	2.28

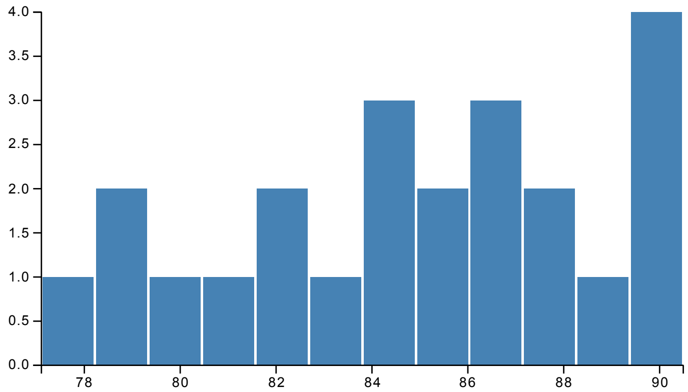
Total volume [cm³]



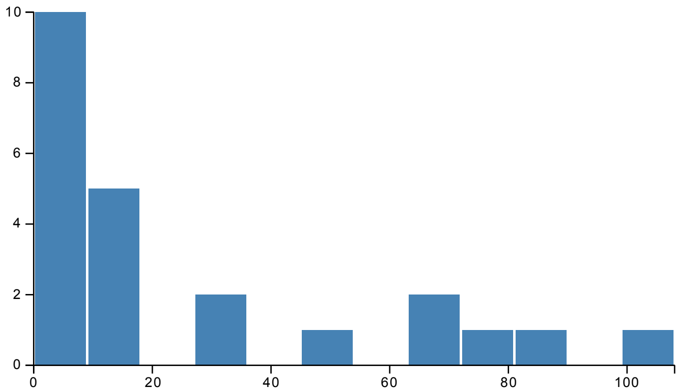
In-field volume [cm³]



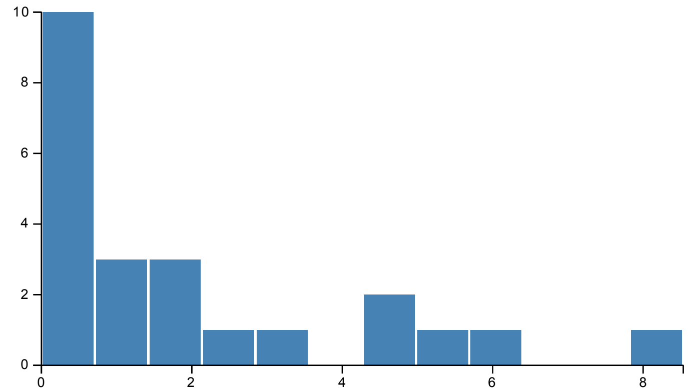
In-field volume [%]



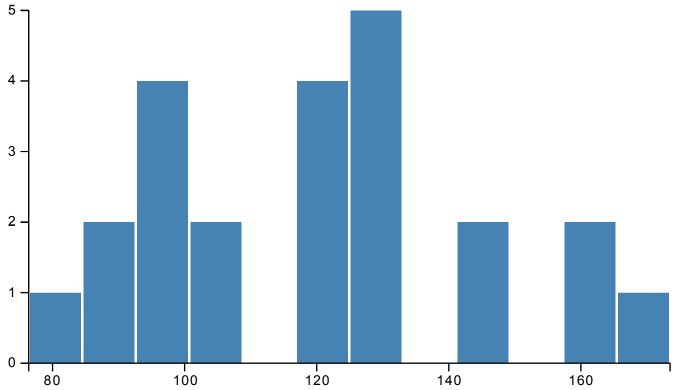
Out-of-field volume [cm³]



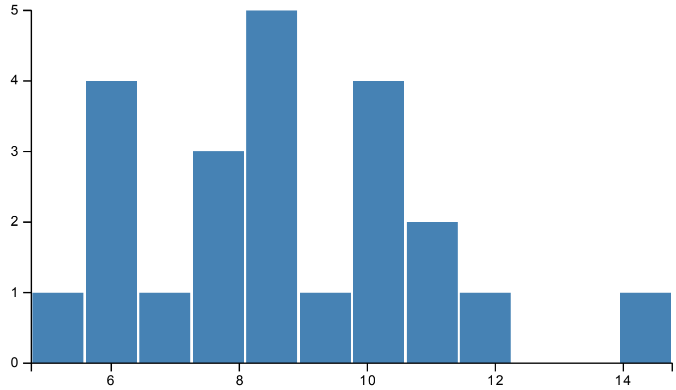
Out-of-field volume [%]



Overlap volume with the union of targets [cm³]



Overlap volume with the union of targets [%]



Consider adding the following to the model

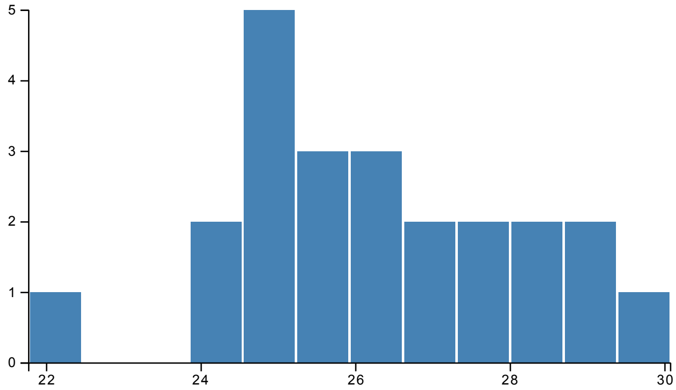
Reason
Not enough data exists for Overlap volume with the union of targets (%) between 11.51% and 14.76%. Not enough data exists for Overlap volume with the union of targets (cm³) between 129.85cm³ and 145.74cm³. To fill the data gap, consider adding more plans to the model.
Not enough data exists for In-field volume (cm³) between 1598.03cm³ and 1836.19cm³. 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 19 more plans to the model.

Dosimetric information

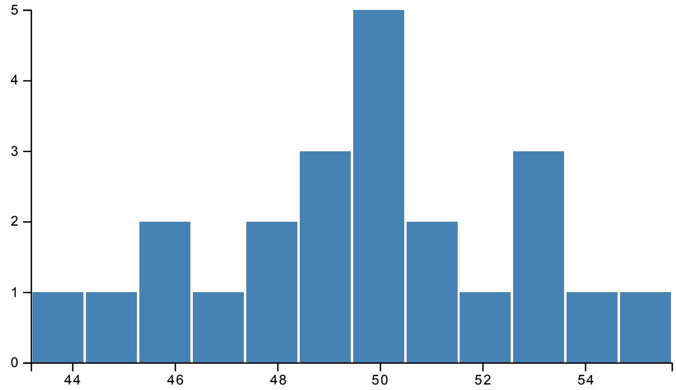
Shows dose that the structure receives. Reports if dose is higher than estimated and lists potential trade-offs.

Feature	Min	Max	Mean	Std
Mean dose [Gy]	21.77	30.07	26.30	1.98
Mean dose [%]	43.19	55.69	49.78	3.09

Mean dose [Gy]



Mean dose [%]



No suggestions

BowelSpace

Matched ID:s

Bowel Space(25), Bowel(21), bowel(1)

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

Plan #	Structure	Reason
17	Bowel	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.
18	Bowel Space	The structure may distort the shape and position of estimated DVHs.

Check the following plans

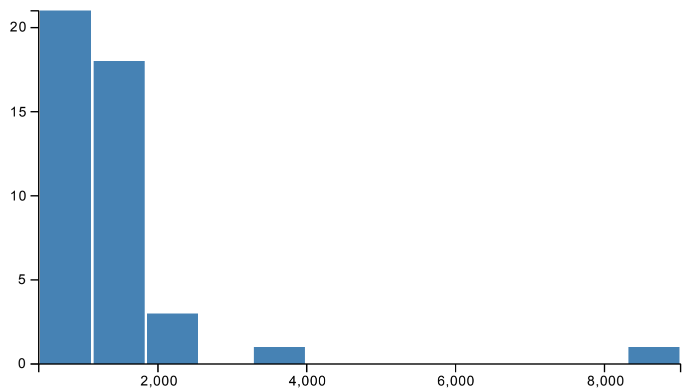
Plan #	Structure	Reason
36	Bowel	The geometry of the structure seems to differ from the majority: Volume (cm³) is much bigger than the average (9022.71cm³ vs. 1414.58cm³).

Geometric information

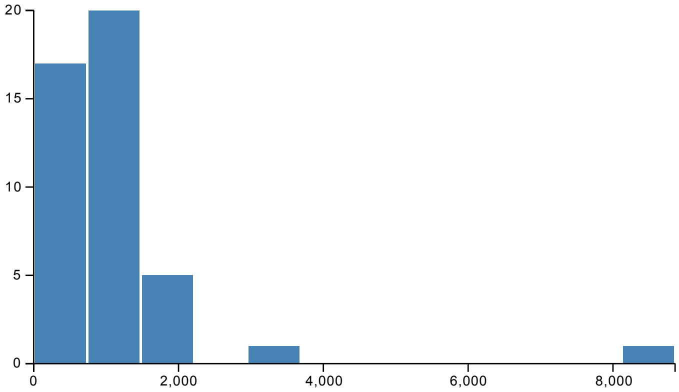
Shows volume data for the structure. Reports if more data is needed for a certain volume range.

Feature	Min	Max	Mean	Std
Total volume [cm³]	398.51	9022.71	1399.36	1294.58
In-field volume [cm³]	0.00	8857.93	1178.42	1307.76
In-field volume [%]	0.00	99.57	80.42	18.28
Out-of-field volume [cm³]	0.00	744.97	35.12	136.09
Out-of-field volume [%]	0.00	100.00	4.14	17.22
Overlap volume with the union of targets [cm³]	0.00	419.85	146.09	115.45
Overlap volume with the union of targets [%]	0.00	32.28	11.95	9.18

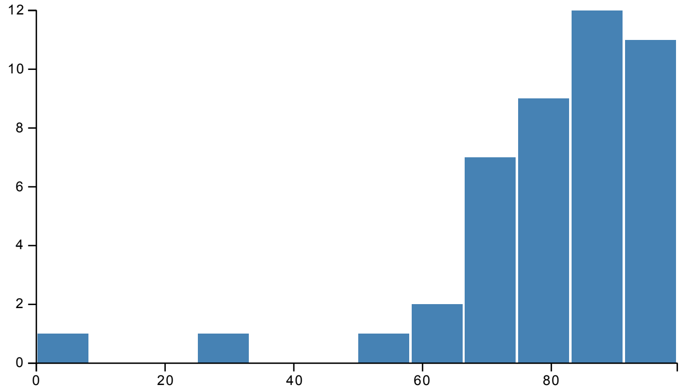
Total volume [cm³]



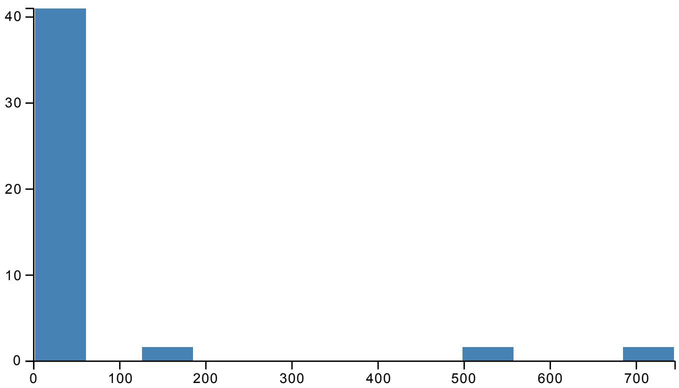
In-field volume [cm³]



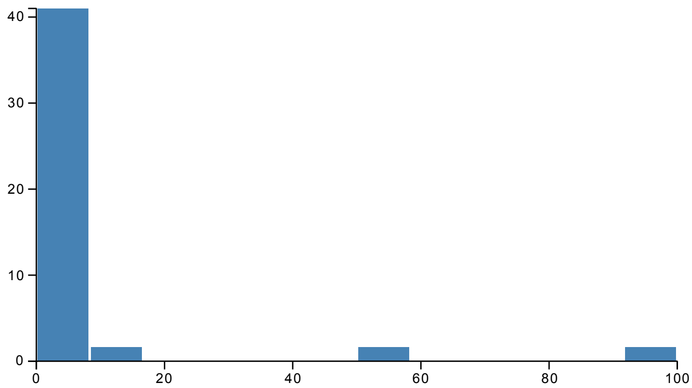
In-field volume [%]



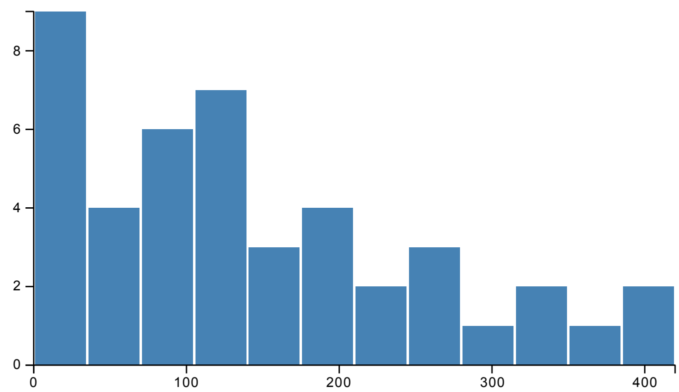
Out-of-field volume [cm³]



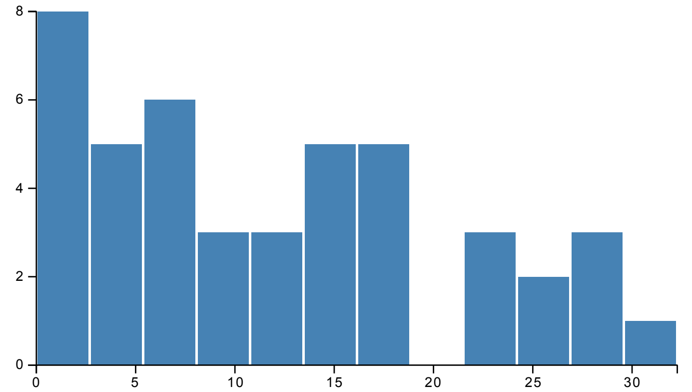
Out-of-field volume [%]



Overlap volume with the union of targets [cm³]



Overlap volume with the union of targets [%]



Consider adding the following to the model

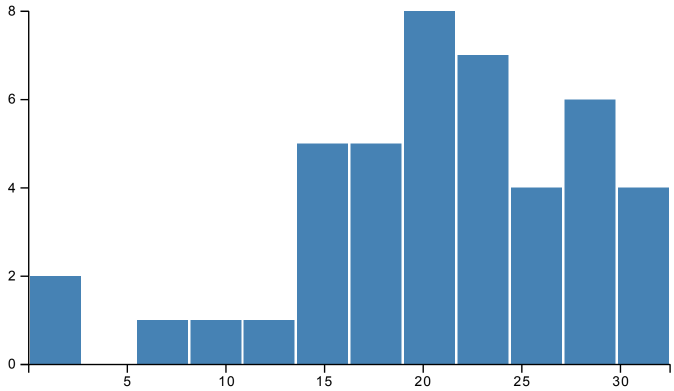
Reason
Not enough data exists for Volume (cm³) between 2122.20cm³ and 9022.71cm³. To fill the data gap, consider adding more plans to the model.
Not enough data exists for In-field volume (%) between 0.00% and 55.99%. Not enough data exists for In-field volume (cm³) between 1822.69cm³ and 8857.93cm³. To fill the data gap, consider adding more plans to the model.

Dosimetric information

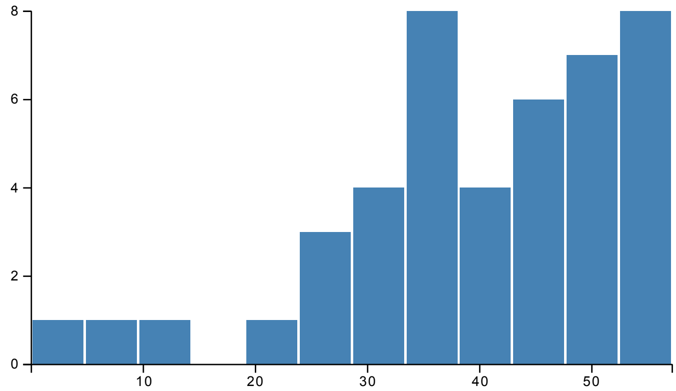
Shows dose that the structure receives. Reports if dose is higher than estimated and lists potential trade-offs.

Feature	Min	Max	Mean	Std
Mean dose [Gy]	0.00	32.52	20.80	7.50
Mean dose [%]	0.01	57.17	40.26	13.20

Mean dose [Gy]



Mean dose [%]



No suggestions

FemoralHeads

Matched ID:s

Femoral Head L(20), Femoral Head R(20), Femur L(2), Femur R(2), Femoral Head LT(16), Femoral Head RT(16), Fem Head LT(6), Fem Head RT(6)

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
17	Femoral 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.
17	Femoral Head RT	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.
36	Femoral Head LT	The structure may distort the shape and position of estimated DVHs. The geometry of the structure seems to differ from the majority: Joint target volume (cm^3) is much bigger than the average ($3714.12cm^3$ vs. $1749.78cm^3$).
36	Femoral Head RT	The structure may distort the shape and position of estimated DVHs. The geometry of the structure seems to differ from the majority: Joint target volume (cm^3) is much bigger than the average ($3714.12cm^3$ vs. $1749.78cm^3$).

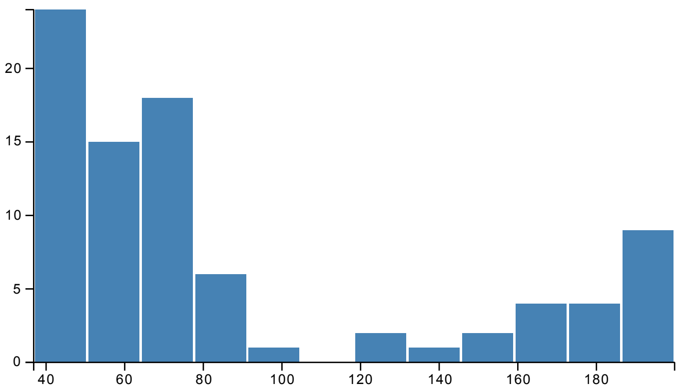
Geometric information

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

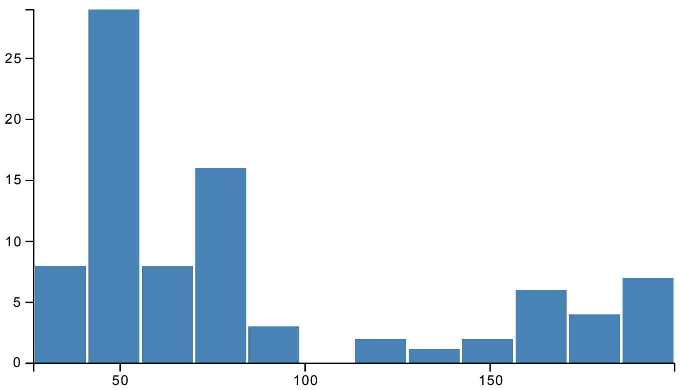
Feature	Min	Max	Mean	Std

Total volume [cm³]	36.84	199.88	87.99	53.69
In-field volume [cm³]	26.62	199.88	86.24	52.68
In-field volume [%]	45.47	100.00	98.09	8.23
Out-of-field volume [cm³]	0.00	10.05	0.26	1.32
Out-of-field volume [%]	0.00	17.17	0.36	2.13
Overlap volume with the union of targets [cm³]	0.00	3.41	0.15	0.60
Overlap volume with the union of targets [%]	0.00	7.39	0.27	1.11

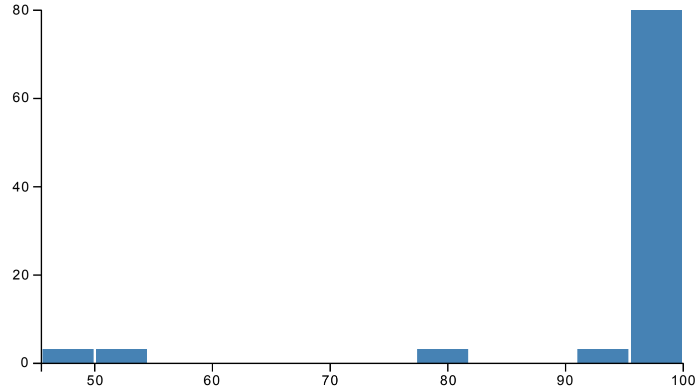
Total volume [cm³]



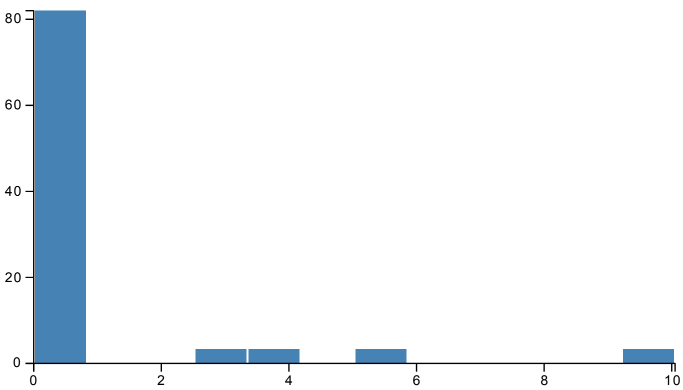
In-field volume [cm³]



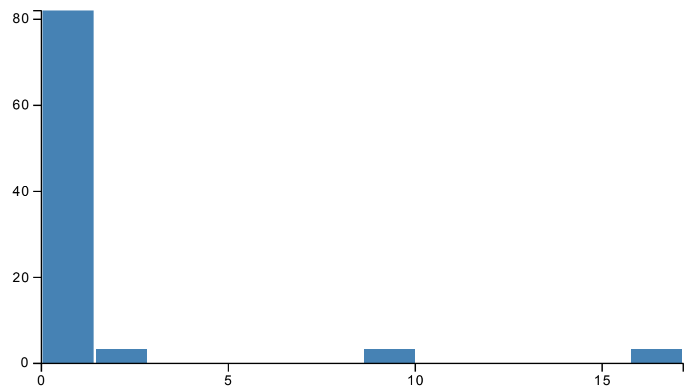
In-field volume [%]



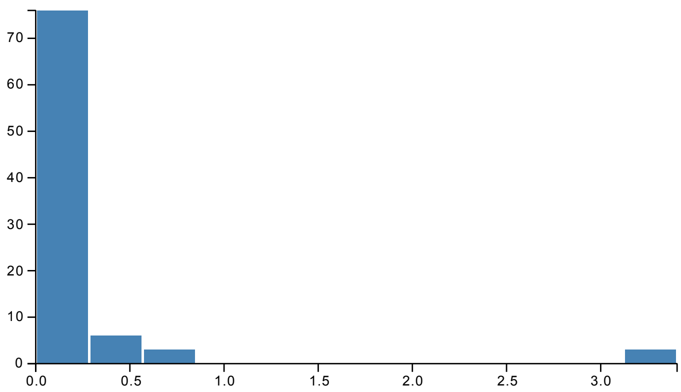
Out-of-field volume [cm³]



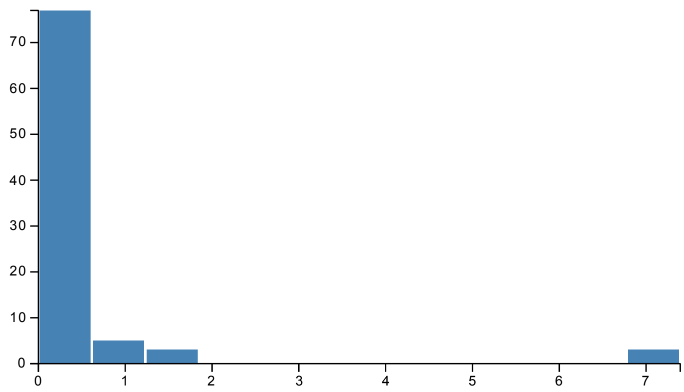
Out-of-field volume [%]



Overlap volume with the union of targets [cm³]



Overlap volume with the union of targets [%]



Consider adding the following to the model

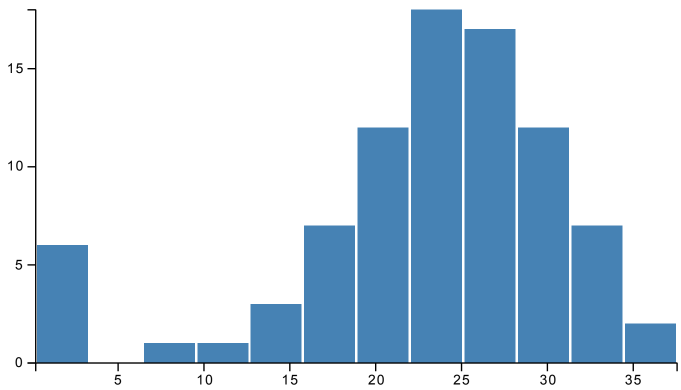
Reason
Not enough data exists for Volume (cm³) between 91.72cm³ and 119.95cm³. To fill the data gap, consider adding more plans to the model.
Not enough data exists for Overlap volume with the union of targets (%) between 1.68% and 6.82%. Not enough data exists for Overlap volume with the union of targets (cm³) between 0.59cm³ and 3.15cm³. To fill the data gap, consider adding more plans to the model.
Not enough data exists for In-field volume (%) between 45.47% and 77.99%. Not enough data exists for In-field volume (cm³) between 91.72cm³ and 119.95cm³. To fill the data gap, consider adding more plans to the model.

Dosimetric information

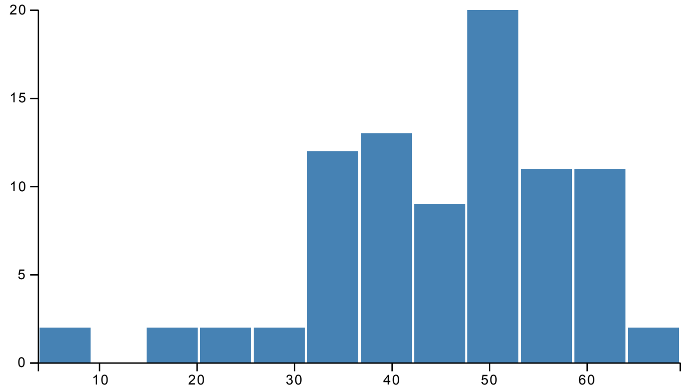
Shows dose that the structure receives. Reports if dose is higher than estimated and lists potential trade-offs.

Feature	**Min**	**Max**	**Mean**	**Std**
Mean dose [Gy]	0.20	37.55	22.95	8.01
Mean dose [%]	3.73	69.54	45.19	12.82

Mean dose [Gy]



Mean dose [%]



No suggestions

Genitals

Matched ID:s

Genitalia Ext(17), Ext_Genitalia(15), Genitalia(2), ext_genitalia(1)

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

Plan #	Structure	Reason
68	Ext_Genitalia	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.
34	Ext_Genitalia	The structure may distort the shape and position of estimated DVHs.
33	Ext_Genitalia	The structure may distort the shape and position of estimated DVHs.
15	Ext_Genitalia	The structure may distort the shape and position of estimated DVHs. The geometry of the structure seems to differ from the majority: Volume (cm^3) is much bigger than the average (566.69cm^3 vs. 146.09cm^3).

Check the following plans

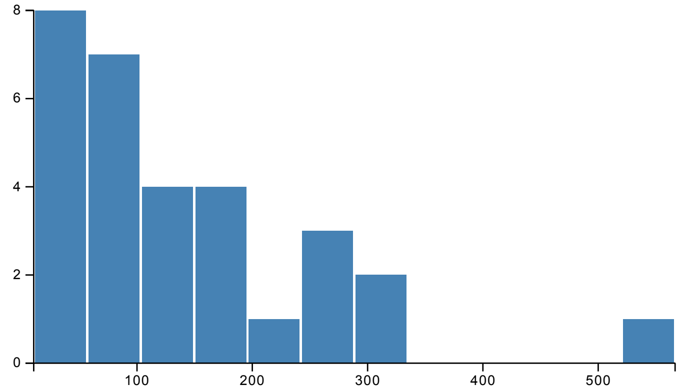
Plan #	Structure	Reason
67	Ext_Genitalia	The structure may distort the shape and position of estimated DVHs.

Geometric information

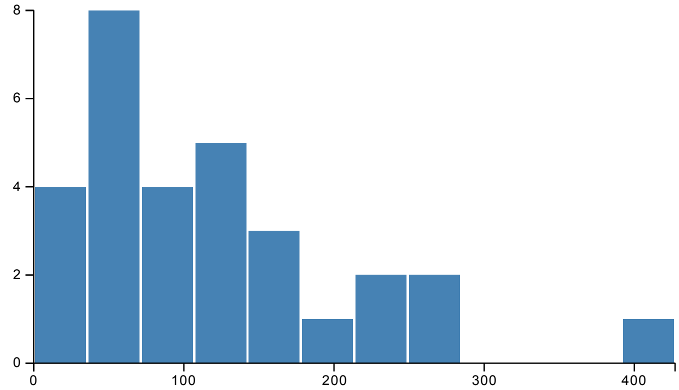
Shows volume data for the structure. Reports if more data is needed for a certain volume range.

Feature	Min	Max	Mean	Std
Total volume [cm^3]	10.43	566.69	143.07	118.85
In-field volume [cm^3]	0.00	427.14	119.92	94.02
In-field volume [%]	0.00	100.00	87.69	22.88
Out-of-field volume [cm^3]	0.00	141.99	12.59	35.19
Out-of-field volume [%]	0.00	51.84	4.47	11.43
Overlap volume with the union of targets [cm^3]	0.00	5.29	0.33	1.22
Overlap volume with the union of targets [%]	0.00	4.38	0.20	0.81

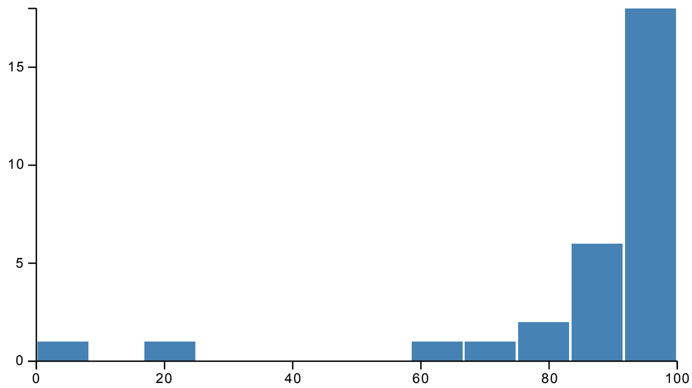
Total volume [cm³]



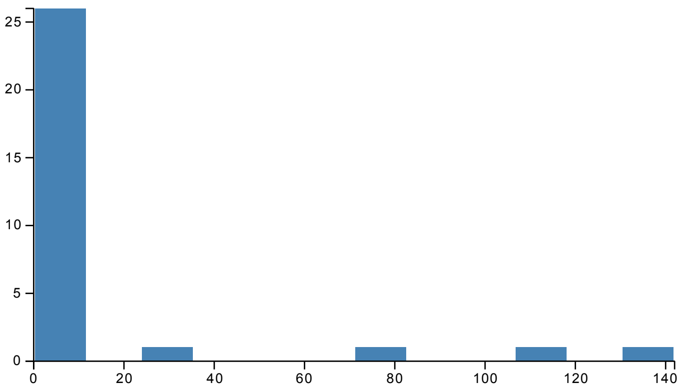
In-field volume [cm³]



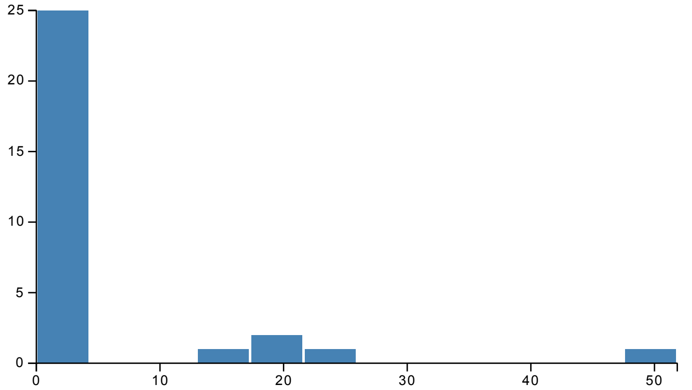
In-field volume [%]



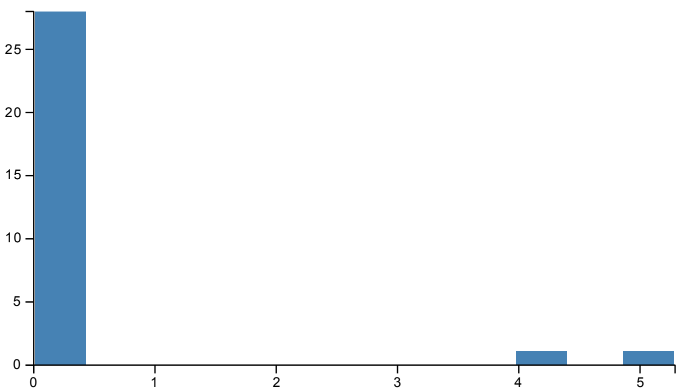
Out-of-field volume [cm³]



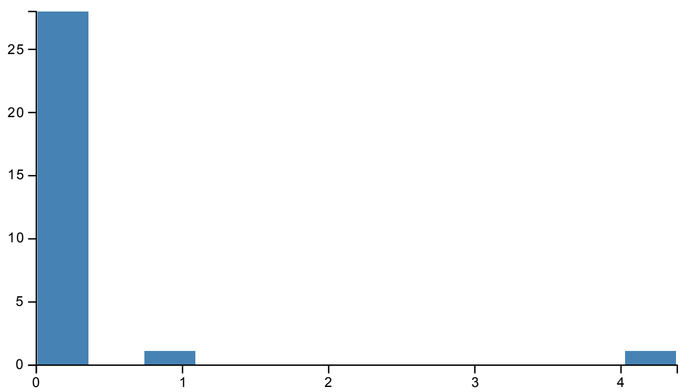
Out-of-field volume [%]



Overlap volume with the union of targets [cm³]



Overlap volume with the union of targets [%]



Consider adding the following to the model

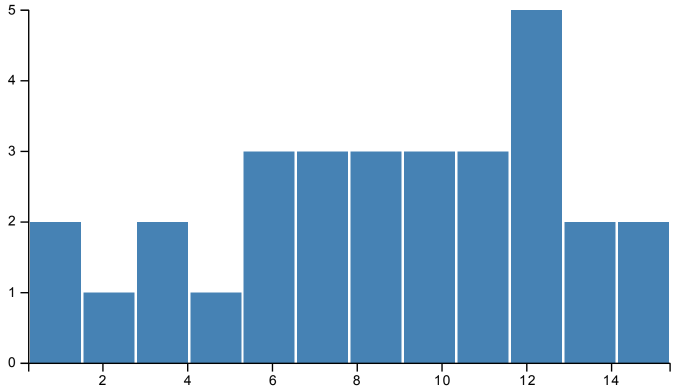
Reason
Not enough data exists for Volume (cm³) between 324.97cm³ and 566.69cm³. To fill the data gap, consider adding more plans to the model.
Not enough data exists for Overlap volume with the union of targets (%) between 0.26% and 4.38%. Not enough data exists for Overlap volume with the union of targets (cm³) between 0.18cm³ and 5.29cm³. To fill the data gap, consider adding more plans to the model.
Not enough data exists for In-field volume (%) between 0.00% and 63.95%. Not enough data exists for In-field volume (cm³) between 268.66cm³ and 427.14cm³. 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 7 more plans to the model.

Dosimetric information

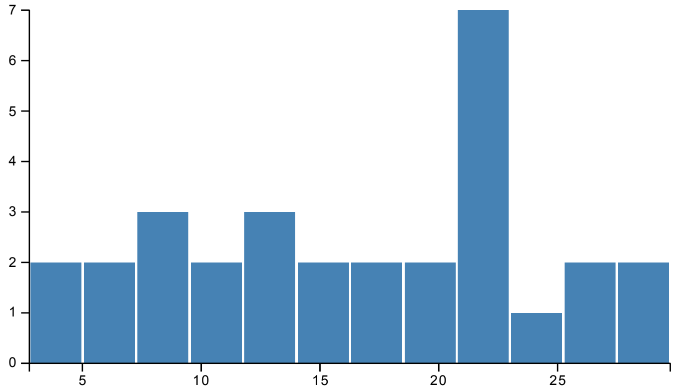
Shows dose that the structure receives. Reports if dose is higher than estimated and lists potential trade-offs.

Feature	Min	Max	Mean	Std
Mean dose [Gy]	0.25	15.38	8.63	4.06
Mean dose [%]	2.77	29.74	16.69	7.55

Mean dose [Gy]



Mean dose [%]



No suggestions

Kidneys

Matched ID:s

No matches

Unable to analyze structure

The structure cannot be analyzed because it does not have enough in-field data. Add more plans where the structure has in-field volume to the model.

PenileBulb

Matched ID:s

Penile Bulb(13), PenileBulb(1)

Unable to analyze structure

The structure cannot be analyzed because it does not have enough in-field data. Add more plans where the structure has in-field volume to the model.

Sigmoid

Matched ID:s

Sigmoid(18), sigmoid(1), SIGMOID(1), rectosigmoid(1)

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

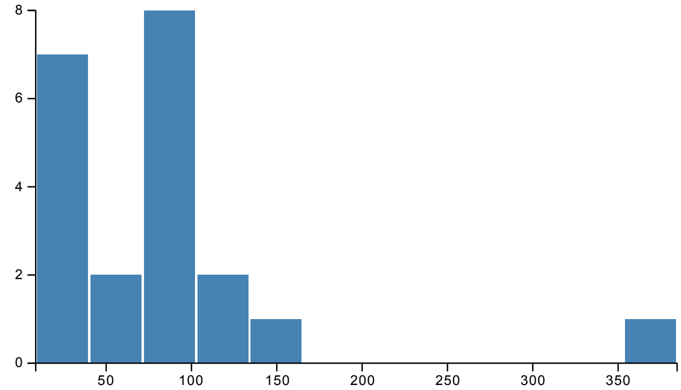
Plan #	Structure	Reason
61	Sigmoid	The generated DVH estimate for this structure seems to be lower than for the majority of structures.
7	Sigmoid	The geometry of the structure seems to differ from the majority: Volume (cm^3) is much bigger than the average (384.56cm^3 vs. 79.85cm^3).

Geometric information

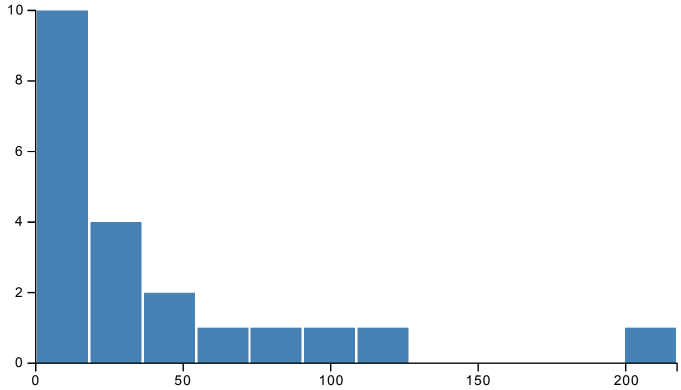
Shows volume data for the structure. Reports if more data is needed for a certain volume range.

Feature	Min	Max	Mean	Std
Total volume [cm^3]	8.73	384.56	77.39	80.40
In-field volume [cm^3]	0.00	217.42	38.60	52.91
In-field volume [%]	0.00	95.62	36.52	28.89
Out-of-field volume [cm^3]	0.00	28.17	1.34	6.15
Out-of-field volume [%]	0.00	100.00	4.76	21.82
Overlap volume with the union of targets [cm^3]	0.00	68.86	30.42	21.06
Overlap volume with the union of targets [%]	0.00	98.03	56.89	32.78

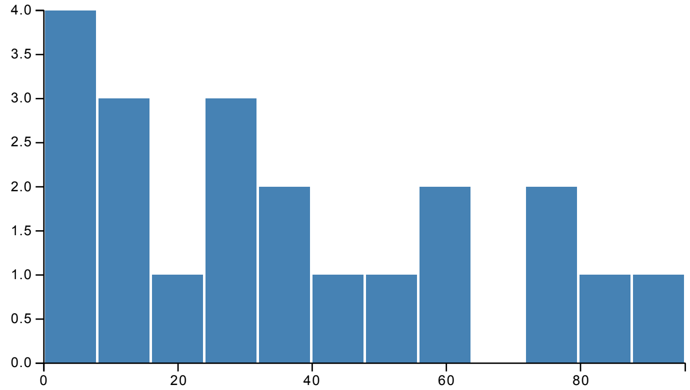
Total volume [cm³]



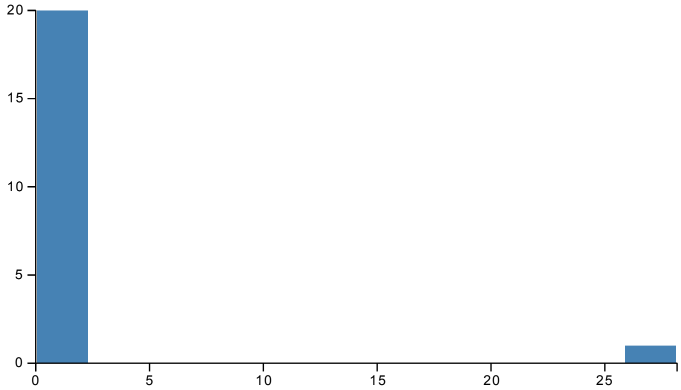
In-field volume [cm³]



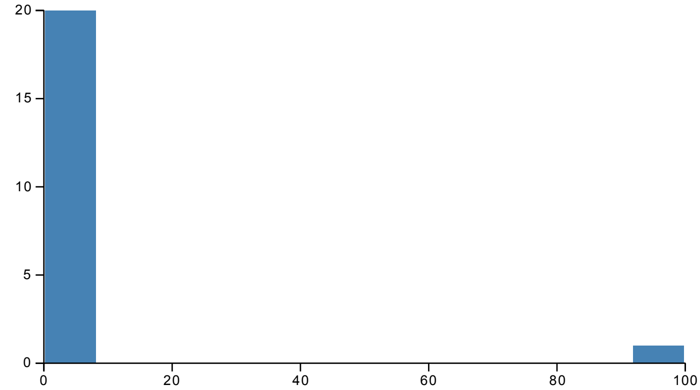
In-field volume [%]



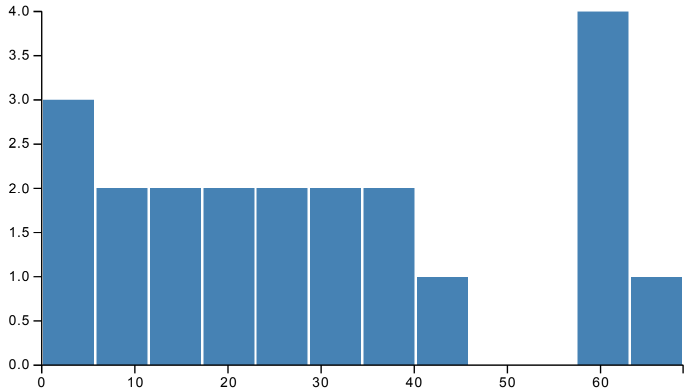
Out-of-field volume [cm³]



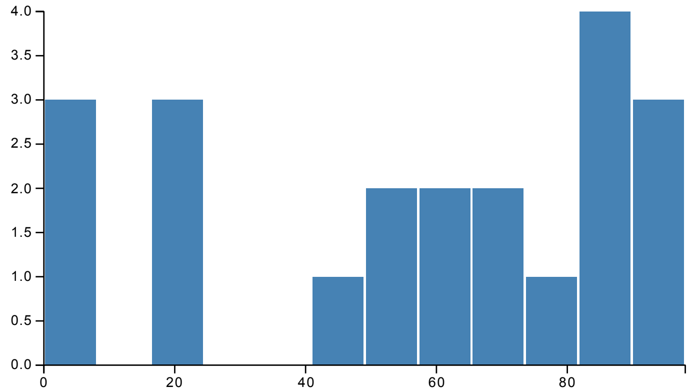
Out-of-field volume [%]



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 Volume (cm³) between 143.00cm³ and 384.56cm³. To fill the data gap, consider adding more plans to the model.
Not enough data exists for Overlap volume with the union of targets (%) between 5.06% and 20.22%. Not enough data exists for Overlap volume with the union of targets (cm³) between 40.45cm³ and 57.57cm³. To fill the data gap, consider adding more plans to the model.

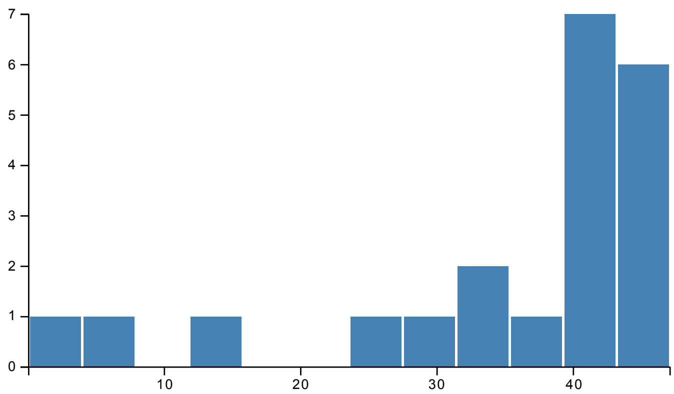
VARIAN | Model Analytics Model Name: Anorectal – UC San Diego

Dosimetric information

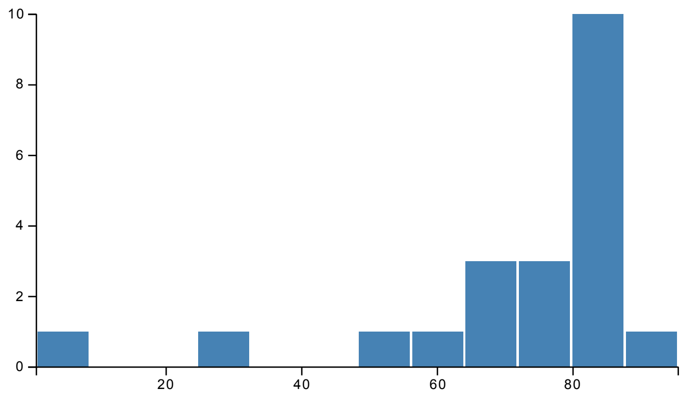
Shows dose that the structure receives. Reports if dose is higher than estimated and lists potential trade-offs.

Feature	Min	Max	Mean	Std
Mean dose [Gy]	0.05	47.09	35.76	13.46
Mean dose [%]	0.87	95.52	71.47	22.34

Mean dose [Gy]



Mean dose [%]



No suggestions

SpinalCanal

Matched ID:s

Spinal Canal(8), Cauda Canal(1), SpinalCanal(2)

Unable to analyze structure

The structure cannot be analyzed because it does not have enough in-field data. Add more plans where the structure has in-field volume to the model.