



Last name
ARTIACervix01
 First name, Middle name
 ID1: ARTIACervix01
 ID2: ---
 Date of Birth: ---

RT Intent
Cervix
 (Revision 0)

 Status: Authorized
 28 June 2023 01:25:37 (UTC+0)
 Ryan Clark (NEOMedAff\wd976825)

Report
Plan Dose Report

 Plan ID: IM130

 Report Created:
 28 June 2023 01:35:36 (UTC+0)

Plan

Plan ID: IM130
 Description: IMRT19fld PA: Imported and reoptimized
 Creation time: 28 June 2023 01:34:11 (UTC+0)
 Plan created for: Phase 1 fractions 1-25 (25 Fx)
 Plan is used for: Phase 1 fractions 1-25 (25 Fx)
 NOTE: Please refer to the latest RT intent report for an up-to-date number of fractions for which the plan is to be used.

Diagnosis

Anatomical site: Cervix
 Diagnosis: Cervix

Phase

Template: Cervix+LNs (Push2)

Phase 1	4 targets	25 fractions
CTVp2	45.00 Gy	1.80 Gy/fx
CTVp1	45.00 Gy	1.80 Gy/fx
CTVn	45.00 Gy	1.80 Gy/fx
PTV_4500	45.00 Gy	1.80 Gy/fx
Plan type: Adaptive Treatment frequency: One session per treatment day Normalization to PTV_4500: V100.0 % 95.0 % DVH estimation model: GYN node-negative - UC San Diego Bolus: No		



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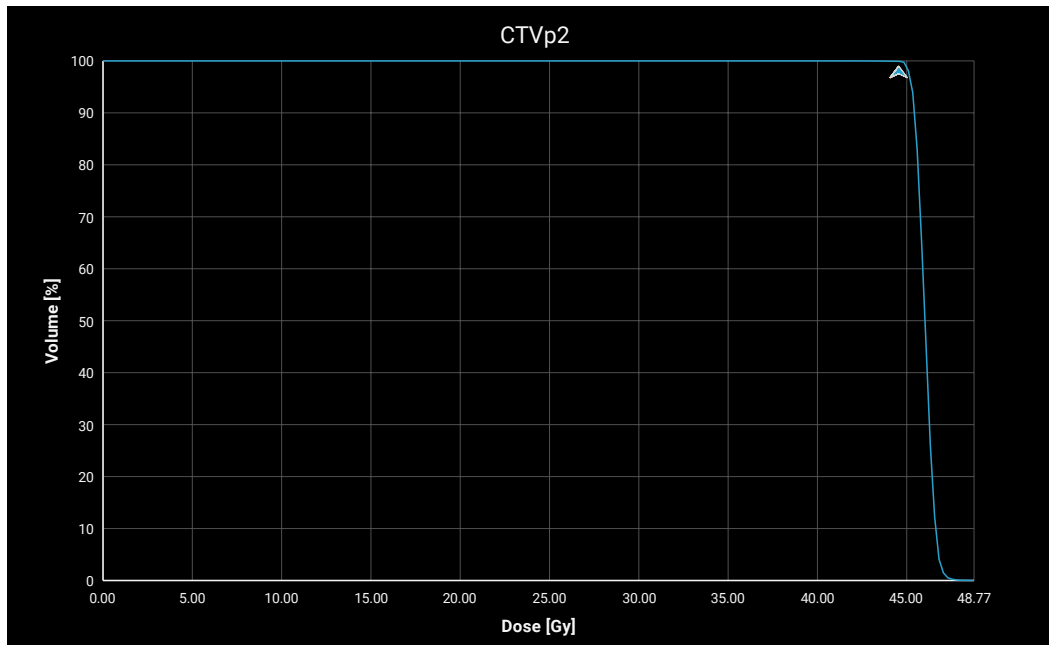
 Report Created:
 28 June 2023 01:35:36 (UTC+0)

Clinical Goals and Achieved Values

Targets

CTVp2

	Goal	Achieved Value	Goal status
P1	D99.0 % (73.02 cm3) > 99.0 % (44.55 Gy) Var: D99.0 % (73.02 cm3) ≥ 97.0 % (43.65 Gy)	100.0 % (45.01 Gy)	Met





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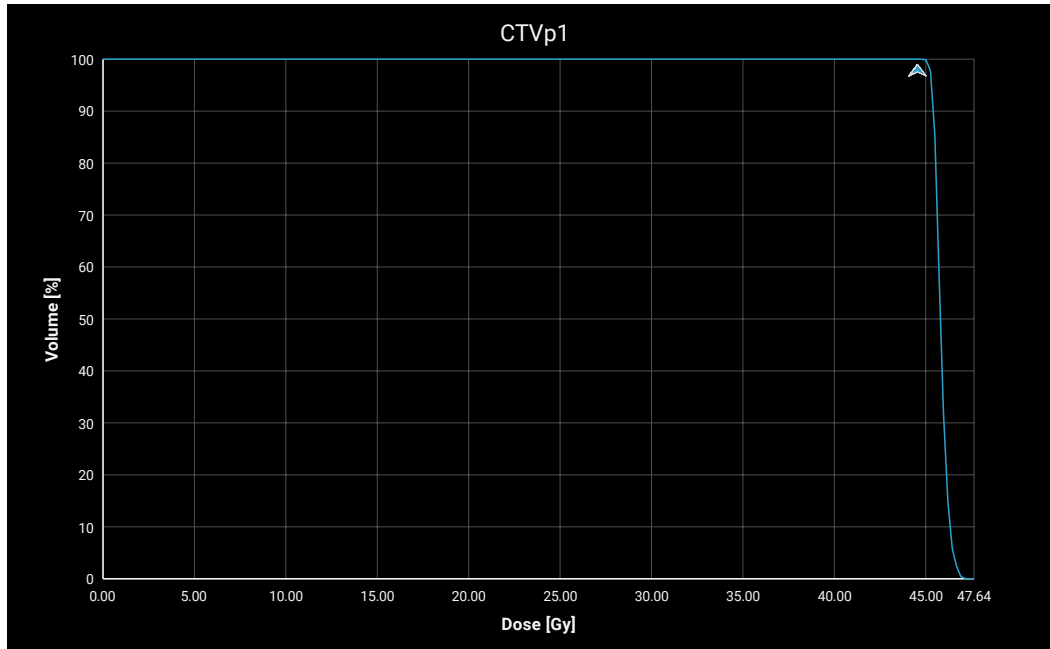
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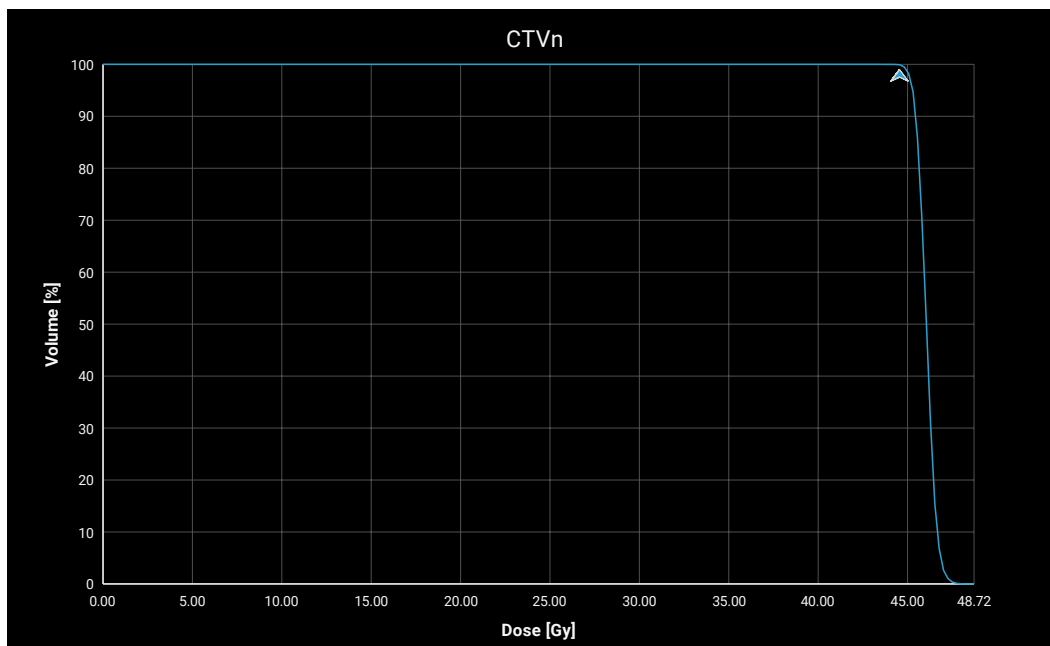
CTVp1

	Goal	Achieved Value	Goal status
P1	D99.0 % (43.62 cm3) > 99.0 % (44.55 Gy) Var: D99.0 % (43.62 cm3) ≥ 97.0 % (43.65 Gy)	100.4 % (45.18 Gy)	Met



CTVn

	Goal	Achieved Value	Goal status
P1	D99.0 % (339.70 cm3) ≥ 99.0 % (44.55 Gy) Var: D99.0 % (339.70 cm3) ≥ 97.0 % (43.65 Gy)	99.9 % (44.94 Gy)	Met





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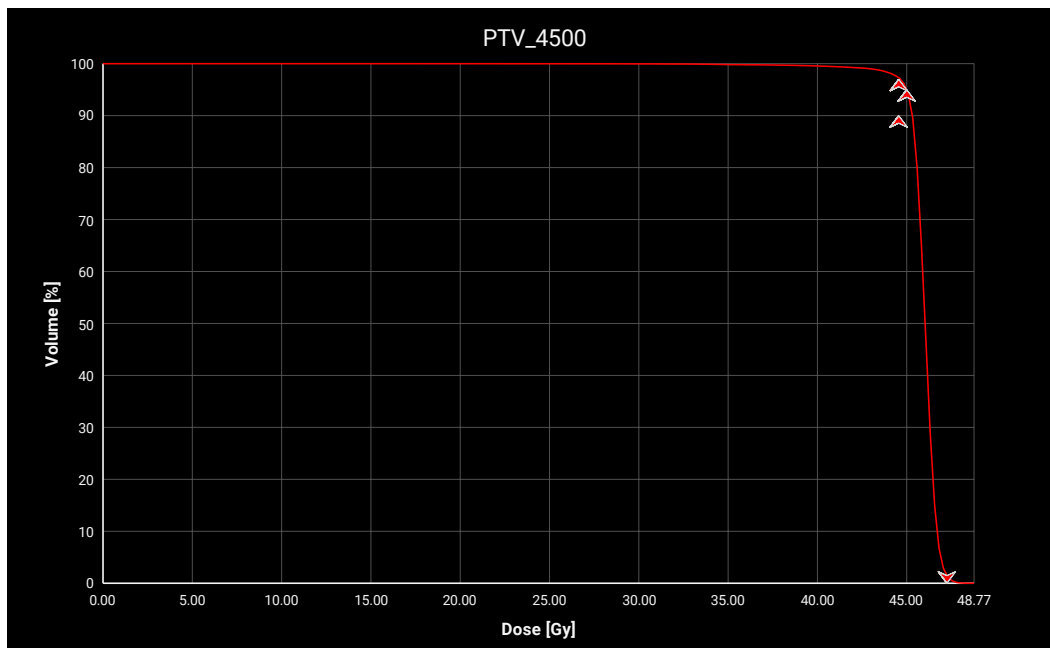
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PTV_4500

	Goal	Achieved Value	Goal status
P1	D0.03 cm3 ≤ 105.0 % (47.25 Gy) Var: D0.03 cm3 ≤ 115.0 % (51.75 Gy)	108.4 % (48.76 Gy)	Within variation
P1	D97.0 % (736.73 cm3) > 99.0 % (44.55 Gy) Var: D97.0 % (736.73 cm3) ≥ 90.0 % (40.50 Gy)	99.2 % (44.65 Gy)	Met
P1	D95.0 % (721.54 cm3) ≥ 100.0 % (45.00 Gy) Var: D95.0 % (721.54 cm3) ≥ 90.0 % (40.50 Gy)	100.0 % (45.00 Gy)	Met
PR	V99.0 % (44.55 Gy) ≥ 90.0 % (683.56 cm3)	97.3 % (739.04 cm3)	Met





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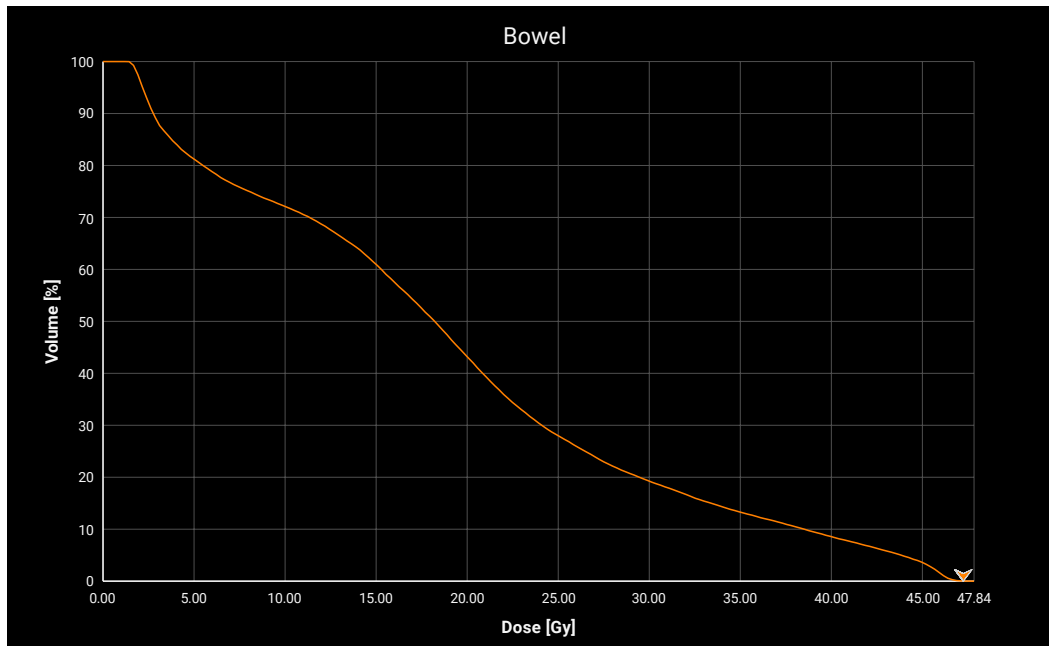
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Organs

Bowel

	Goal	Achieved Value	Goal status
P1	D0.03 cm3 < 47.25 Gy Var: D0.03 cm3 ≤ 50.00 Gy	47.60 Gy	Within variation





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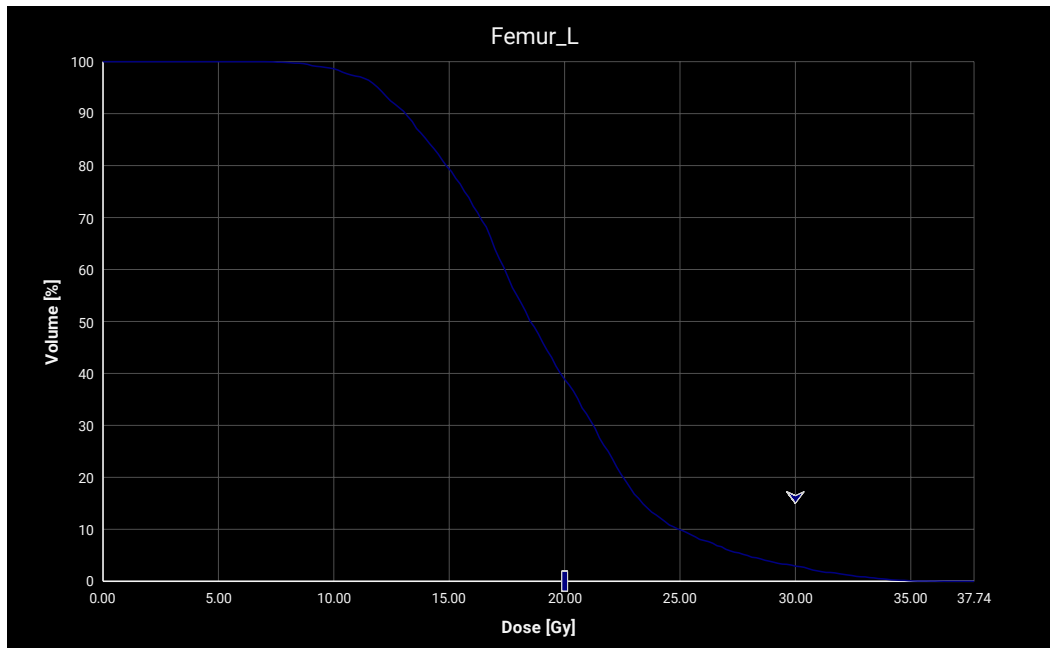
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Femur_L

	Goal	Achieved Value	Goal status
P3	D15.0 % (6.01 cm3) ≤ 30.00 Gy Var: D15.0 % (6.01 cm3) ≤ 45.00 Gy	23.39 Gy	Met
P3	D0.03 cm3 ≤ 47.25 Gy Var: D0.03 cm3 ≤ 50.00 Gy	35.08 Gy	Met
P4	Dmean ≤ 20.00 Gy Var: Dmean ≤ 30.00 Gy	18.96 Gy	Met





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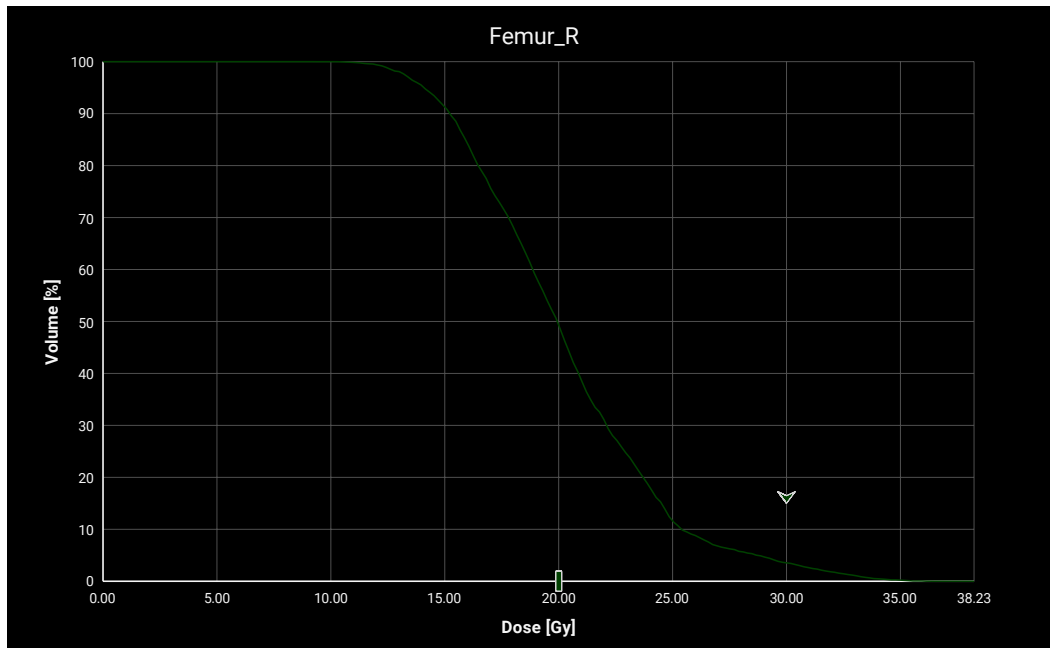
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Femur_R

	Goal	Achieved Value	Goal status
P3	D15.0 % (6.18 cm3) ≤ 30.00 Gy Var: D15.0 % (6.18 cm3) ≤ 45.00 Gy	24.54 Gy	Met
P3	D0.03 cm3 ≤ 47.25 Gy Var: D0.03 cm3 ≤ 50.00 Gy	35.50 Gy	Met
P4	Dmean ≤ 20.00 Gy Var: Dmean ≤ 30.00 Gy	20.29 Gy	Within variation





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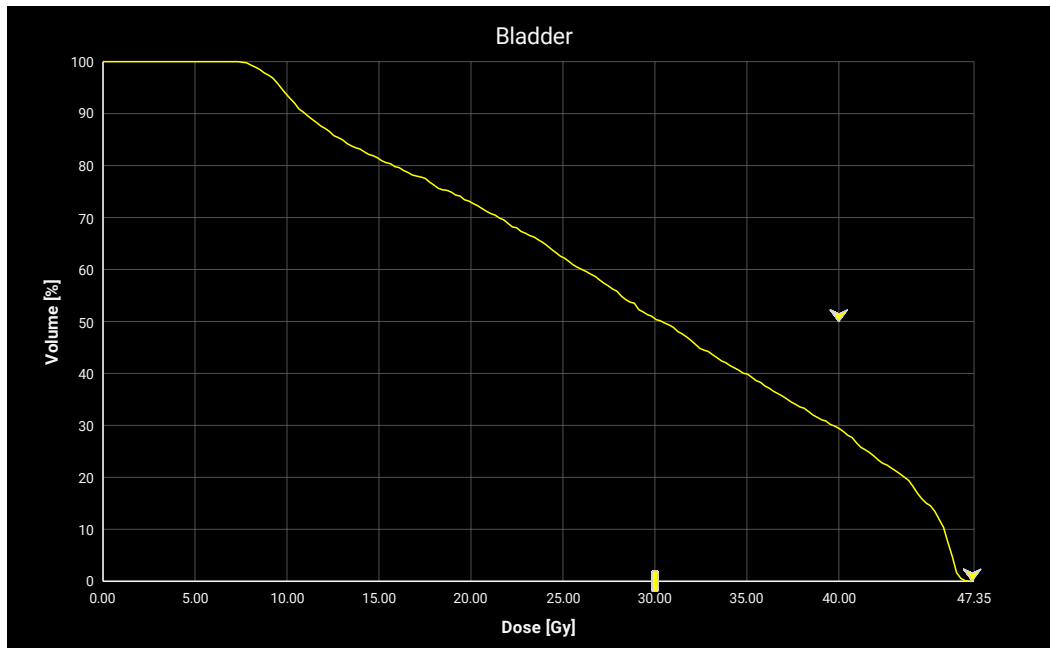
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Bladder

	Goal	Achieved Value	Goal status
P2	D50.0 % (14.57 cm3) ≤ 40.00 Gy Var: D50.0 % (14.57 cm3) ≤ 45.00 Gy	30.33 Gy	Met
P2	D0.03 cm3 ≤ 47.25 Gy Var: D0.03 cm3 ≤ 50.00 Gy	46.87 Gy	Met
P4	Dmean ≤ 30.00 Gy Var: Dmean ≤ 40.00 Gy	29.57 Gy	Met





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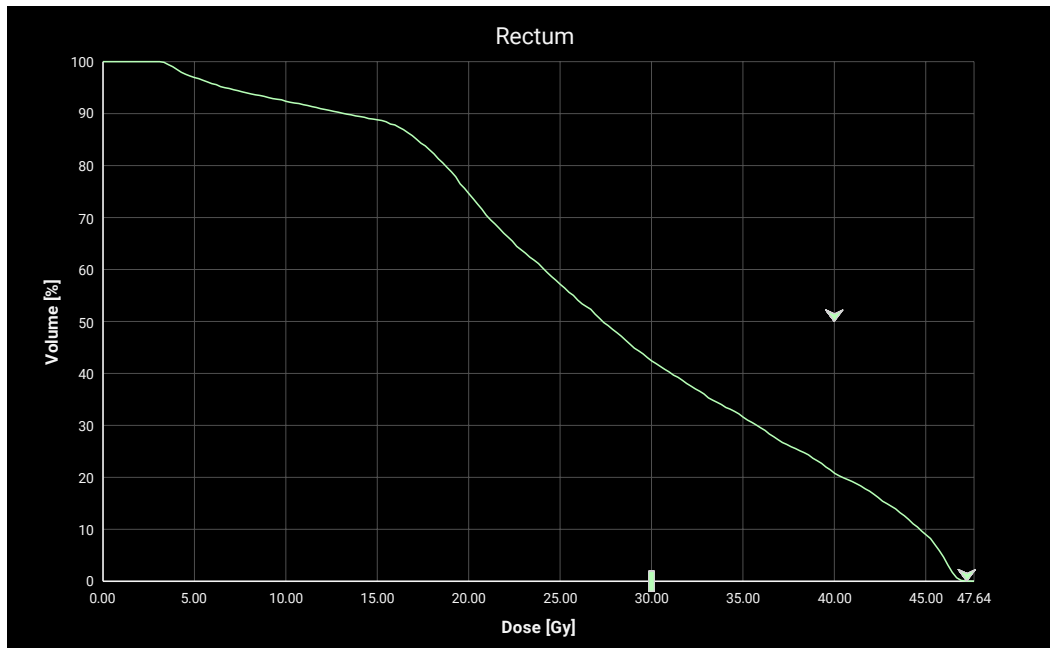
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Rectum

	Goal	Achieved Value	Goal status
P2	D50.0 % (39.14 cm3) < 40.00 Gy Var: D50.0 % (39.14 cm3) ≤ 45.00 Gy	27.35 Gy	Met
P2	D0.03 cm3 ≤ 47.25 Gy Var: D0.03 cm3 ≤ 50.00 Gy	47.16 Gy	Met
P4	Dmean ≤ 30.00 Gy Var: Dmean ≤ 40.00 Gy	28.17 Gy	Met





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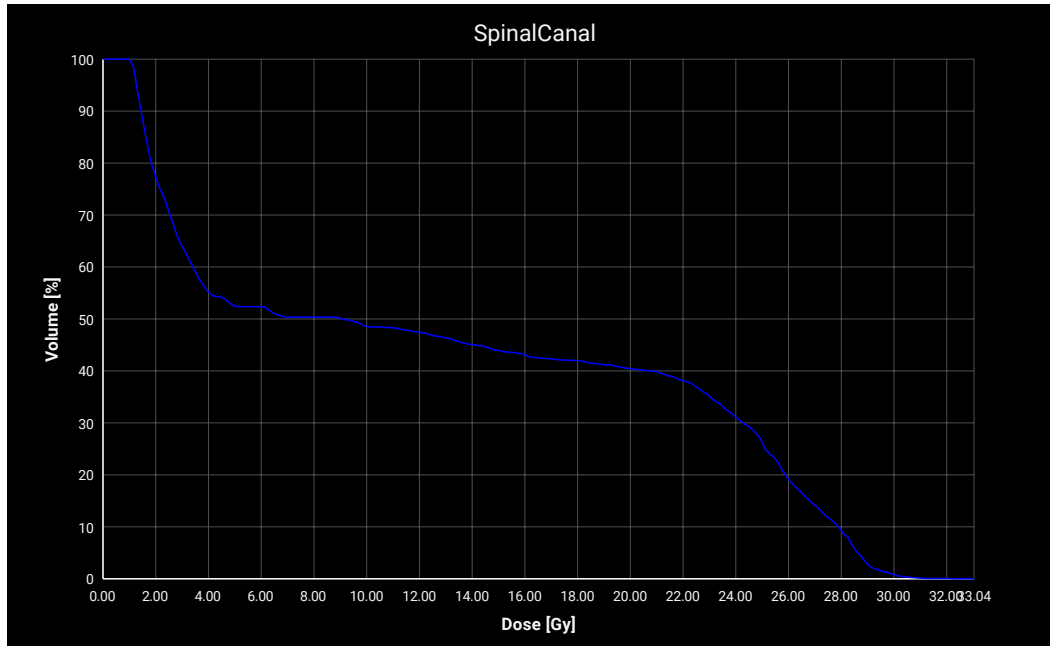
Report
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SpinalCanal

	Goal	Achieved Value	Goal status
P1	D0.03 cm3 ≤ 40.00 Gy Var: D0.03 cm3 ≤ 47.50 Gy	31.03 Gy	Met



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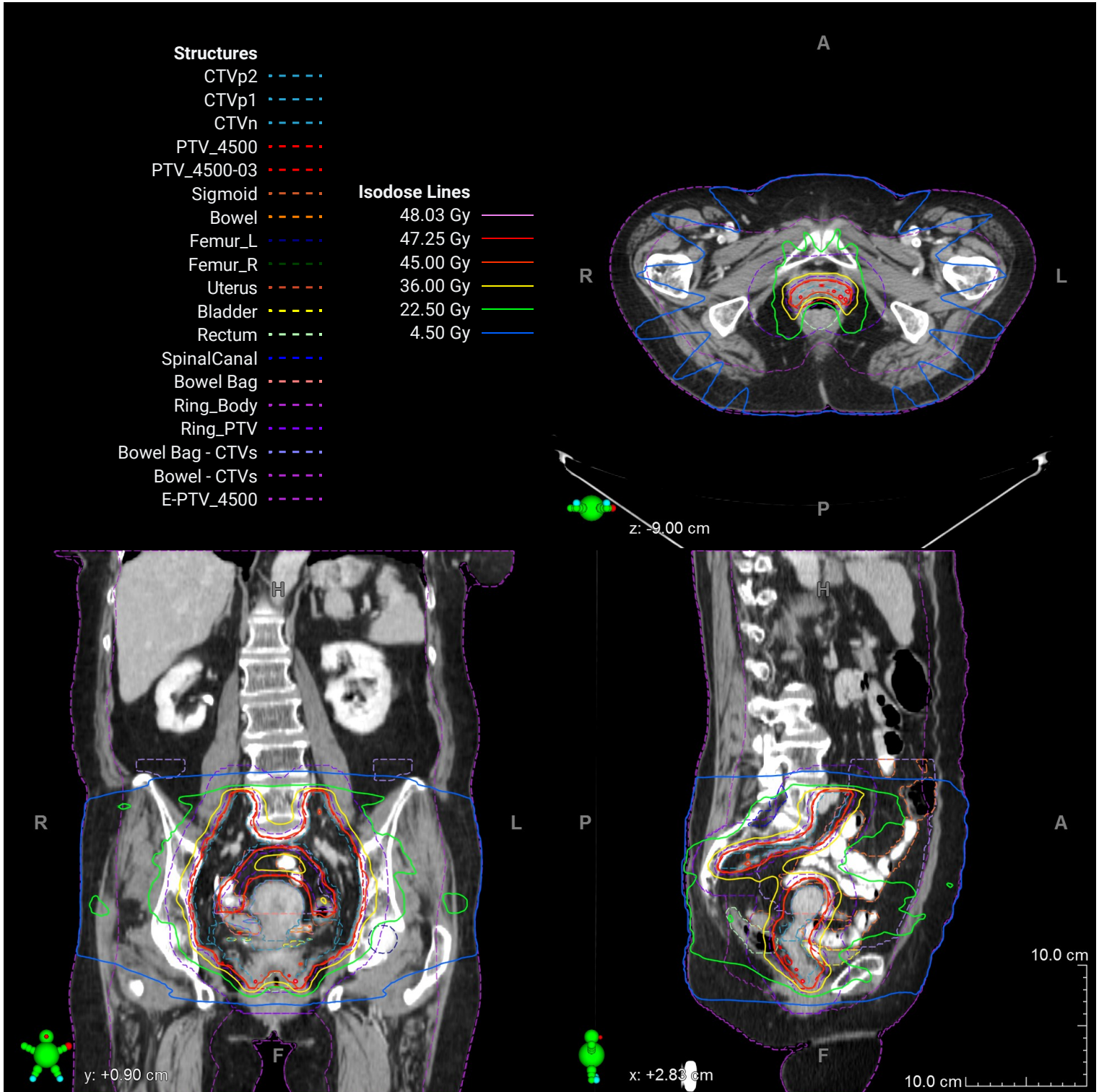
28 June 2023 01:25:37 (UTC+0)

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Global Maximum Dose: 49.01 Gy



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Warnings and errors

Plan validation

Warnings

1. The image CT scanner GE MEDICAL SYSTEMS Optima CT580 * SIM1 has not been calibrated. Using calibration curves from default CT scanner DefaultCTScanner instead.

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Plan

Planning directive

Phase 1	25 fx	4 targets
PTV_4500	45.00 Gy	1.80 Gy/Fx
CTVp1	45.00 Gy	1.80 Gy/Fx
CTVp2	45.00 Gy	1.80 Gy/Fx
CTVn	45.00 Gy	1.80 Gy/Fx
Normalization goal: PTV_4500: DVH point 95.0% 45.00 Gy Normalization factor: 1.014		

Treatment unit

TPS name: Ethos Treatment Planning	Particle type: Photon
Treatment units: RDSMCH1, Halcyon 1	Energy: 6 MV
Dose calibration depth: 1.30 cm	Primary fluence mode: FFF

Fields

Treatment orientation: HFS

Isocenter 1		Position (DICOM)		
Scale		X: 1.32 cm Y: 0.82 cm Z: -1.19 cm		
Field name <td colspan="3">IEC61217</td>		IEC61217		
Field name		Gantry [°]	Collimator [°]	MU
Field 1	IMRT	180.0°	270.0°	182.6 MU
Field 2	IMRT	198.9°	279.5°	180.9 MU
Field 3	IMRT	217.9°	289.0°	151.9 MU
Field 4	IMRT	236.8°	298.5°	119.3 MU
Field 5	IMRT	255.8°	308.0°	176.4 MU
Field 6	IMRT	274.7°	317.5°	169.3 MU
Field 7	IMRT	293.7°	327.0°	151.6 MU
Field 8	IMRT	312.6°	336.5°	156.7 MU
Field 9	IMRT	331.6°	346.0°	184.4 MU
Field 10	IMRT	350.5°	355.5°	234.4 MU
Field 11	IMRT	9.5°	5.0°	233.5 MU
Field 12	IMRT	28.4°	14.5°	172.9 MU
Field 13	IMRT	47.4°	24.0°	157.1 MU
Field 14	IMRT	66.3°	33.5°	157.3 MU
Field 15	IMRT	85.3°	43.0°	184.8 MU
Field 16	IMRT	104.2°	52.5°	152.1 MU
Field 17	IMRT	123.2°	62.0°	115.4 MU
Field 18	IMRT	142.1°	71.5°	144.9 MU
Field 19	IMRT	161.1°	81.0°	160.2 MU

Total 3185.5 MU

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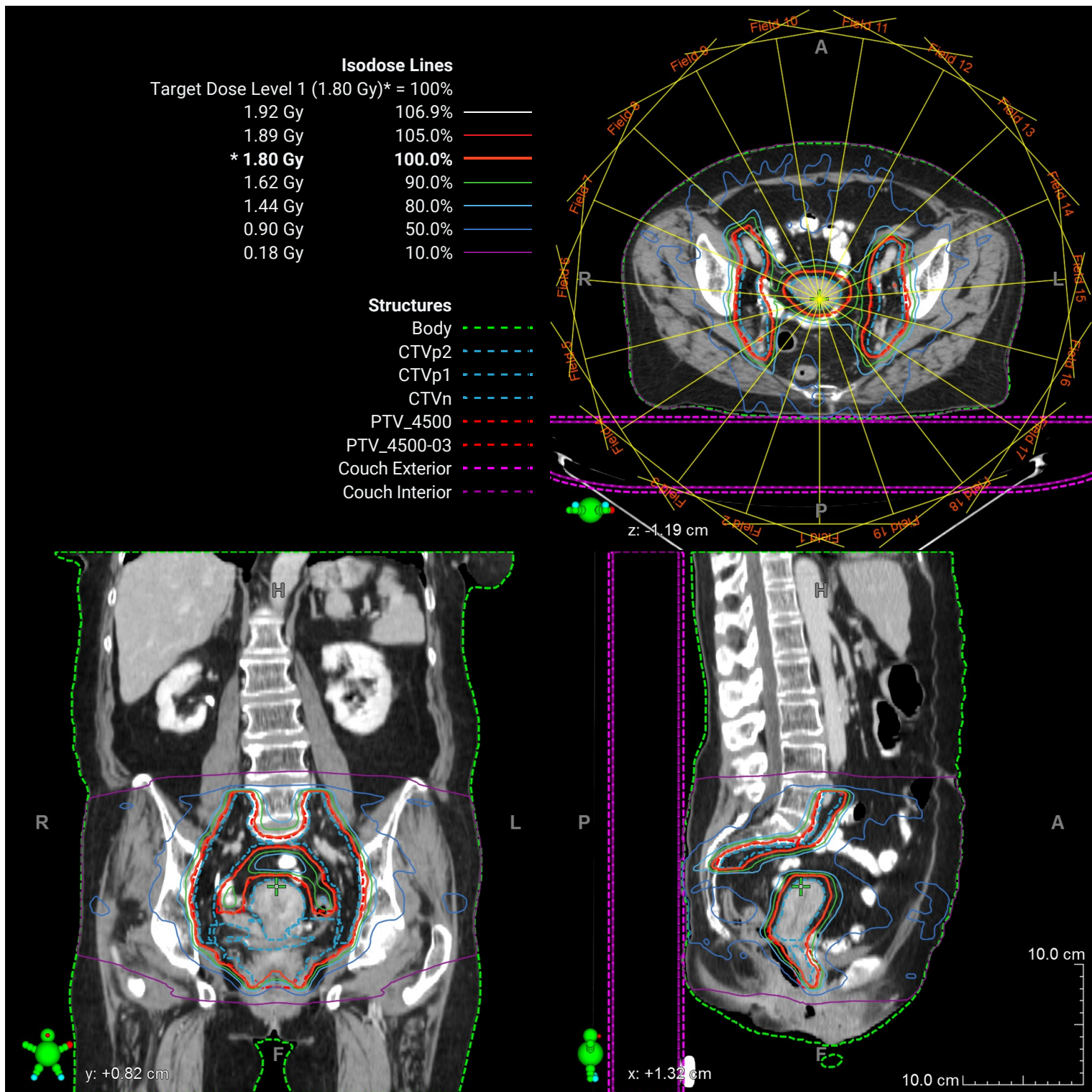
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Isocenter 1

Isocenter 1 X: 1.32 cm Y: 0.82 cm Z: -1.19 cm



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Summary

Dose

Grid size: X: 160 Y: 97 Z: 180
Grid resolution: X: 0.25 cm Y: 0.25 cm Z: 0.25 cm
Dose reporting condition: Dose to medium, transport in medium

Primary image

ID: 2.5mm
Size: X: 512 Y: 512 Z: 180
Resolution: X: 0.10 cm Y: 0.10 cm Z: 0.25 cm
Acquisition time: 08 January 2018 08:37:20 (UTC+0)
CT scanner: DefaultCTScanner
Last approved by: PhiTest01
Last approved on: 07 April 2021 09:43:52 (UTC+0)

Plan

DICOM UID: 1.2.246.352.800.5671482828530121336.5577681262864991916

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Technical structures

Simulation isocenter

Position (DICOM) X: 0.00 cm Y: 0.00 cm Z: 0.00 cm

Couch plane

Position (DICOM) X: -25.00 cm Y: 10.60 cm Z: -18.25 cm
Couch type: Halcyon couch

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Calculation logs

Plan optimization

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Algorithm version: 1.1.1001.148

Using the provided DVH estimation model in automated plan generation.

Language of dose calculation log messages: EN.

Device used for GPU acceleration: Tesla P100-PCIE-16GB

Planning Algorithm Library version 2.4.0.24 87d6b8bc6d761ca8d4c872c5d6986751cc69c21f

Device used for GPU acceleration: Tesla P100-PCIE-16GB

Beam data directory:

C:\ProgramData\SF\Calculation\Fabric\work\Applications\CalculationQueueWorker_App39\CalculationQueueWorkerServiceManifest.Algorithms.1.1.1001.148.1.0.0\AutomatedPlanning.1.1.1001\BeamData//PO

Dose calculation algorithm = FTDCGPU

MLC Tongue and Groove width set to: Distal 0.040 cm, Proximal 0.056 cm.

Inhomogeneity correction = On

Air cavity correction = Off

Automatic feathering = Off

Field-grouping z-threshold = 30.00 mm

Dose calculation resolution = 2.50 mm

Structure resolution = 2.50 mm

Target projection margin = 6.00 mm

Automatic lower dose objective control = Off

Automatic target overlap control = On

IMRT minimum fluence factor = 0.000

Field 1: Fixed jaws on.

Field 2: Fixed jaws on.

Field 3: Fixed jaws on.

Field 4: Fixed jaws on.

Field 5: Fixed jaws on.

Field 6: Fixed jaws on.

Field 7: Fixed jaws on.

Field 8: Fixed jaws on.

Field 9: Fixed jaws on.

Field 10: Fixed jaws on.

Field 11: Fixed jaws on.

Field 12: Fixed jaws on.

Field 13: Fixed jaws on.

Field 14: Fixed jaws on.

Field 15: Fixed jaws on.

Field 16: Fixed jaws on.

Field 17: Fixed jaws on.

Field 18: Fixed jaws on.

Field 19: Fixed jaws on.

Patient support device 'Structure: 21' used in dose calculation, material: 'Water', density: 0.710938 g/cm3.

Patient support device 'Structure: 22' used in dose calculation, material: 'Air', density: 0.001110 g/cm3.

Highest mass density in dose calculation: 1.869 g/cm3.

Reporting dose to medium.

IMRT field normalization

Machine directory:

C:\ProgramData\SF\Calculation\Fabric\work\Applications\CalculationQueueWorker_App39\CalculationQueueWorkerServiceManifest.Algorithms.1.1.1001.148.1.0.0\AutomatedPlanning.1.1.1001\BeamData//AXB/dmx/

Treatment unit: RDS_DMx, energy: 6X-FFF

Calculation is using Preconfigured Beam Data version 4.0.

MLC Tongue and Groove width set to: Distal 0.040 cm, Proximal 0.056 cm.

The automated planning task took 166.587 seconds.

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Dose calculation

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Sex:

Intent: Cervix

Algorithm version: 1.1.1001.148

Messages

Structure with type "PatientSupportDevice" and name "Couch Exterior" is used in dose calculation. The density of the structure is 0.711 g/cm³ and the material is "Water".

Structure with type "PatientSupportDevice" and name "Couch Interior" is used in dose calculation. The density of the structure is 0.001 g/cm³ and the material is "Air".

The image size is expanded to fully include the patient support device structures.

Language of dose calculation log messages: EN.

AcurosCalculationOptionsAutomaticHighDensityMaterial__ = Bone

AcurosCalculationOptionsCalculationGridSizeInCM = 0.250

AcurosCalculationOptionsDoseReportingMode = Dose to medium

AcurosCalculationOptionsFieldNormalizationType = No field normalization

AcurosCalculationOptionsHeterogeneityCorrection = ON

AcurosCalculationOptionsMaximumAutomaticHighDensityVolumeInCM3__ = 1.000

AcurosCalculationOptionsPlanDoseCalculation = ON

AcurosCalculationOptionsUseGPU = Yes

Machine directory:

C:\ProgramData\SF\Calculation\Fabric\work\Applications\CalculationQueueWorker_App39\CalculationQueueWorkerServiceManifest.Algorithms.1.1.1001.148.1.0.0\DoseCalculationTask.1.1.1001\AcurosBeamData\dmx/

Treatment unit: RDS_DMx, energy: 6X-FFF

Calculation is using Preconfigured Beam Data version 4.0.

Patient support device 'Couch Exterior' used in dose calculation, material: 'Water', density: 0.710938 g/cm³.

Patient support device 'Couch Interior' used in dose calculation, material: 'Air', density: 0.001110 g/cm³.

The following MLC dosimetric parameters read from MLC add-on beam data are used in dose calculation.

Distal MLC TnG step width = 0.040 cm.

Proximal MLC TnG step width = 0.056 cm.

MLC dosimetric leaf gap = 0.010 cm.

MLC leaf transmission factor = 0.005 .

MLC Tongue and Groove width set to: Distal 0.040 cm, Proximal 0.056 cm.

Fluence Pixel Size 1.250x1.250 mm².

Effective interleaf gap = 0.00079 cm.

Modulation factor: 3.3463.

Modulation factor: 2.1424.

Modulation factor: 3.7649.

Modulation factor: 4.1344.

Modulation factor: 2.6641.

Modulation factor: 2.3454.

Modulation factor: 2.7999.

Modulation factor: 3.9104.

Modulation factor: 3.0362.

Modulation factor: 3.0719.

Modulation factor: 3.7807.

Modulation factor: 2.4472.

Modulation factor: 2.2679.

Modulation factor: 3.0838.

Modulation factor: 2.5775.

Modulation factor: 4.1513.

Modulation factor: 3.5528.

Modulation factor: 2.1317.

Modulation factor: 3.5151.

Highest mass density in dose calculation: 1.869 g/cm³.

Reporting dose to medium.

Flattening MLC sequence recognized on a Halcyon machine. IMRT normalization is not used, but instead the field normalization follows the regular normalization rules for a static field.

No field normalization

The dose calculation task took 51.180 seconds.

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Ryan Clark (NEOMedAff\wd976825)

Report
Plan Approval Report

Plan ID: IM130
Plan Status: Not approved

Current Plan Approval Status

Clinical Approval: Not approved
Technical Approval: Not approved

Plan Approval Log

There are no approvals for the plan.