# Plan Report

## Patient data

| | |
|---|---|
| Patient ID | 012345678910 |
| Patient name | Phantom Lunge |
| Patient gender | Other |
| Patient birth date | 08 Dec 1987 |
| Treatment planning system | RayStation 4.5.0.19 |
| Structure set UID | 1.2.826.0.1.3680043.8.176.201561716524380.492.1716553884 |
| Structure set approval data | |
| Approved | Yes |
| Approved by | clang@ad.dkfz-heidelberg.de |
| Approval time | 17 Jun 2015, 16:53:51 (hr:min:sec) |

## Treatment plan data

| | |
|---|---|
| Treatment plan name | 03_Plan01 |
| Plan last save time | 17 Jun 2015, 16:53:51 (hr:min:sec) |
| Planned by | |
| Number of beam sets | 1 |
| Patient treatment position | HFS : Head First Supine |
| Treatment plan approval data | |
| Approved | Yes |
| Approved by | clang@ad.dkfz-heidelberg.de |
| Approval time | 17 Jun 2015, 16:53:51 (hr:min:sec) |
| Plan comment | |
| Planning image set | CT 14 |
| CT to density table | DKFZ_HLUT 03 Apr 2012, 10:28:06 (hr:min:sec) |
| Patient scanning position | HFS |
| External ROI | External |

## General data

| | |
|---|---|
| Treatment planning system | RayStation 4.5.0.19 |
| Report creation time | 17 Jun 2015, 16:56:02 (hr:min:sec) |
| Template name | RayStation treatment plan report |
| Patient coordinate system | IEC 61217 |

## Density override

No density override

## Beam Set overview

| | |
|---|---|
| Beam Set name | 03_Plan01 |
| Treatment technique | SMLC |
| Treatment unit | ARTISTE3 |
| Number of beams | 9 |

## Warnings [ 03_Plan01 ]

No warnings

## Signatures

Signature 1 (Name/Signature/Date)

Signature 2 (Name/Signature/Date)

# Beam Set Report

## Beam Set data

| | |
|---|---|
| Beam Set name | 03_Plan01 |
| Modality | Photons |
| Treatment technique | SMLC |
| Number of beams | 9 |
| Number of segments | 50 |
| DICOM Plan UID | 1.2.826.0.1.3680043.8.176.2015617165351254.495.2407254043 |
| Planning image set | CT 14 |
| CT to density table | DKFZ_HLUT 03 Apr 2012, 10:28:06 (hr:min:sec) |
| Treatment unit | ARTISTE3 |
| Commission time | 05 Nov 2014, 10:34:16 (hr:min:sec) |
| Treatment machine scale | IEC 61217 |
| Jaw labeling standard | IEC 61217 |
| Energy [MV] | 6.00 |
| Dose calculation algorithm | Collapsed Cone, Version 3.0 |
| Density calculation algorithm version | 2.0 |
| MU per fraction | 788.95 |
| Number of fractions | 1 |
| ROI(s) with density override | |
| Beam set approval data | |
| Approved | Yes |
| Approved by | clang@ad.dkfz-heidelberg.de |
| Approval time | 17 Jun 2015, 16:53:51 (hr:min:sec) |

## Beam Data Overview [Right-Left: 25.04 Inf-Sup: -24.63 Post-Ant: -17.38]

| # | Beam name (Description) | Number of segments | Maximum jaw aperture [cm] Y1 | Y2 | Gantry angle [deg] | Coll. angle [deg] | Couch angle [deg] | MU per fraction | Bolus [Y/N] | Block [Y/N] |
|---|---|---|---|---|---|---|---|---|---|---|
| 1 | 3-B0 (1-B0) | 6 | -4.00 | 4.00 | 0.0 | 0.0 | 0.0 | 121.52 | N | N |
| 2 | 3-B1 (1-B1) | 5 | -4.00 | 4.00 | 40.0 | 0.0 | 0.0 | 83.90 | N | N |
| 3 | 3-B2 (1-B2) | 6 | -4.00 | 4.00 | 80.0 | 0.0 | 0.0 | 101.66 | N | N |
| 4 | 3-B3 (1-B3) | 5 | -4.00 | 4.00 | 120.0 | 0.0 | 0.0 | 71.73 | N | N |
| 5 | 3-B4 (1-B4) | 4 | -4.00 | 4.00 | 160.0 | 0.0 | 0.0 | 62.62 | N | N |
| 6 | 3-B5 (1-B5) | 6 | -4.00 | 4.00 | 200.0 | 0.0 | 0.0 | 135.47 | N | N |
| 7 | 3-B6 (1-B6) | 7 | -4.00 | 4.00 | 240.0 | 0.0 | 0.0 | 83.55 | N | N |
| 8 | 3-B7 (1-B7) | 7 | -4.00 | 4.00 | 280.0 | 0.0 | 0.0 | 72.93 | N | N |
| 9 | 3-B8 (1-B8) | 4 | -4.00 | 4.00 | 320.0 | 0.0 | 0.0 | 55.57 | N | N |

## Objectives

| Dose | Function | ROI | Description | Robust | Weight | Value |
|---|---|---|---|---|---|---|
| | Physical Composite Objective | | | No | | 0.0030 |
| Plan | Dose Fall-Off | External | Dose Fall-Off [H]4.00 Gy [L]1.00 Gy, Low dose distance 1.00 cm | No | 1 | 9.3370E-4 |
| Plan | Uniform Dose | PTV | Uniform Dose 4.00 Gy | No | 1 | 0.0021 |

## Constraints

No constraints defined

## Prescription

| | |
|---|---|
| Prescription | 4.00 Gy to median dose (D50%) in PTV |
| Value [Gy] | 4.00 |
| Fulfilled | Yes |
| Relates to beam set dose | |

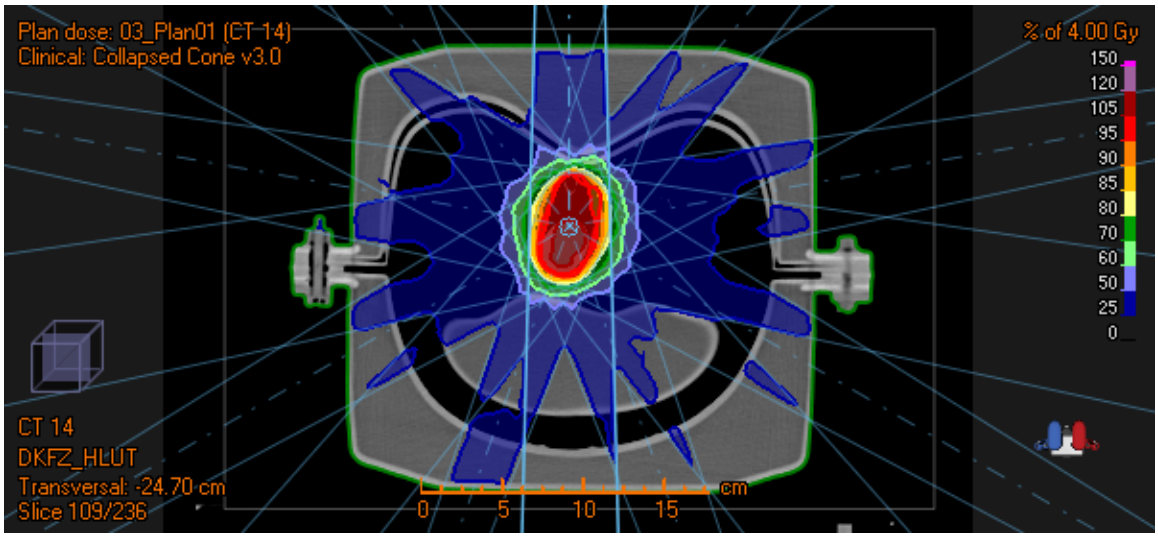
## Patient setup

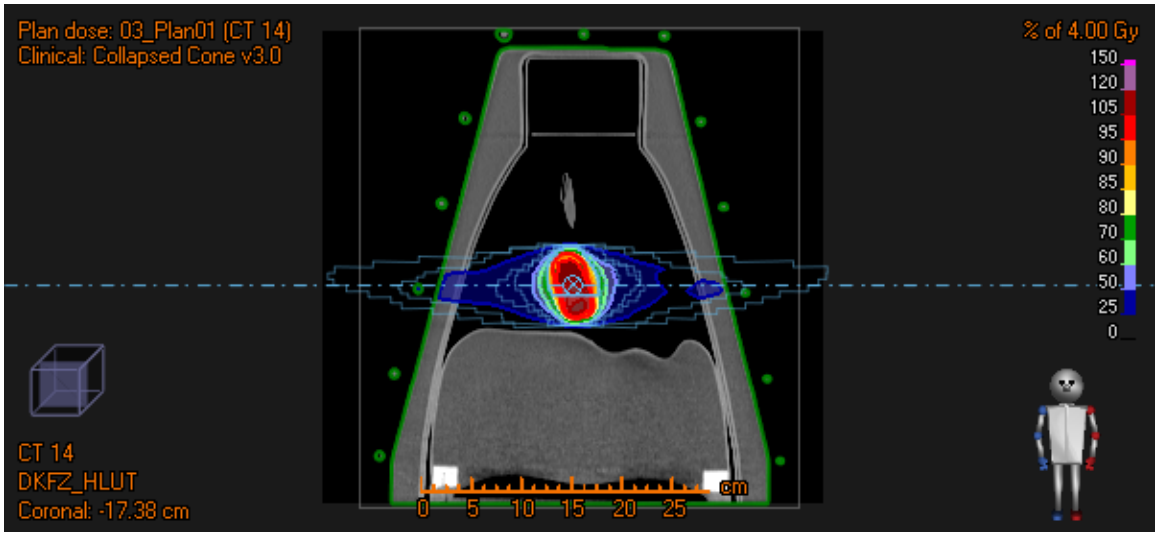
| | |
|---|---|
| Localization point | |
| Treatment position | HFS : Head First Supine |
| POI | RefPunkt |
| Position [cm] | X(Right-Left) = 25.15 , Y(Inf-Sup) = -29.1 , Z(Post-Ant) = -25.05 |
| Patient setup | |
| Beams | 3-B0, 3-B1, 3-B2, 3-B3, 3-B4, 3-B5, 3-B6, 3-B7, 3-B8 |
| Isocenter [cm] | X(R-L) = 25.04 , Y(I-S) = -24.63 , Z(P-A) = -17.38 |
| Localization point - Isocenter [cm] | X(R-L) = 0.1 , Y(I-S) = -4.47 , Z(P-A) = -7.67 |

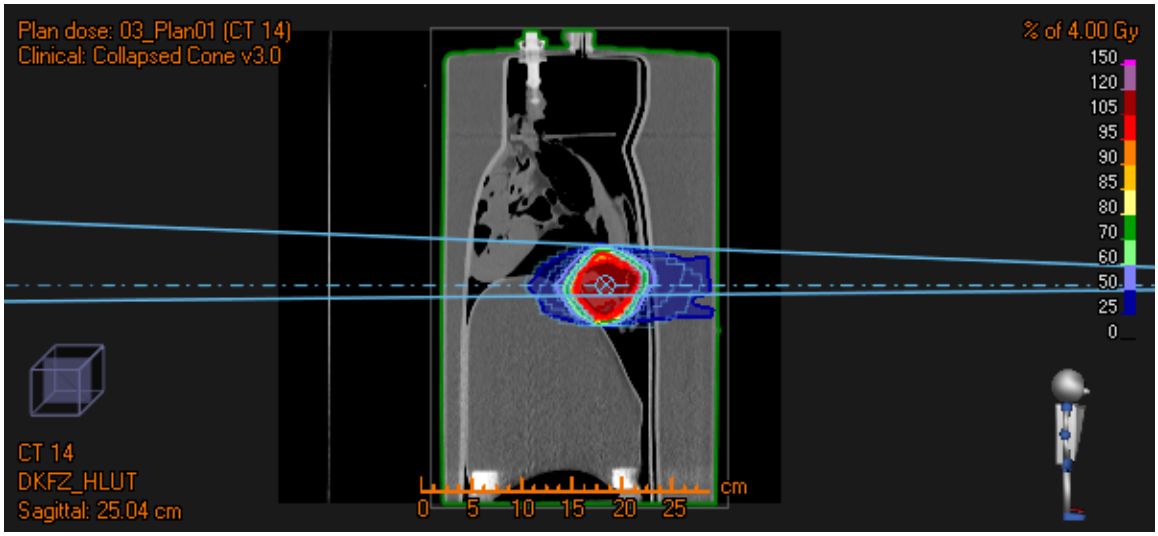
Position patient such that lasers line up with patient marks.
Move the couch according to the PATIENT coordinate system:
LEFT 0.1 cm (patient's left)
INFERIOR 4.47 cm
POSTERIOR 7.67 cm

## Beamset dose data

| | |
|---|---|
| Isocenter [cm] | Right-Left: 25.04 Inf-Sup: -24.63 Post-Ant: -17.38 |
| Dose grid resolution [cm] | Right-Left: 0.20 Inf-Sup: 0.20 Post-Ant: 0.20 |
| Beams | 3-B0, 3-B1, 3-B2, 3-B3, 3-B4, 3-B5, 3-B6, 3-B7, 3-B8 |



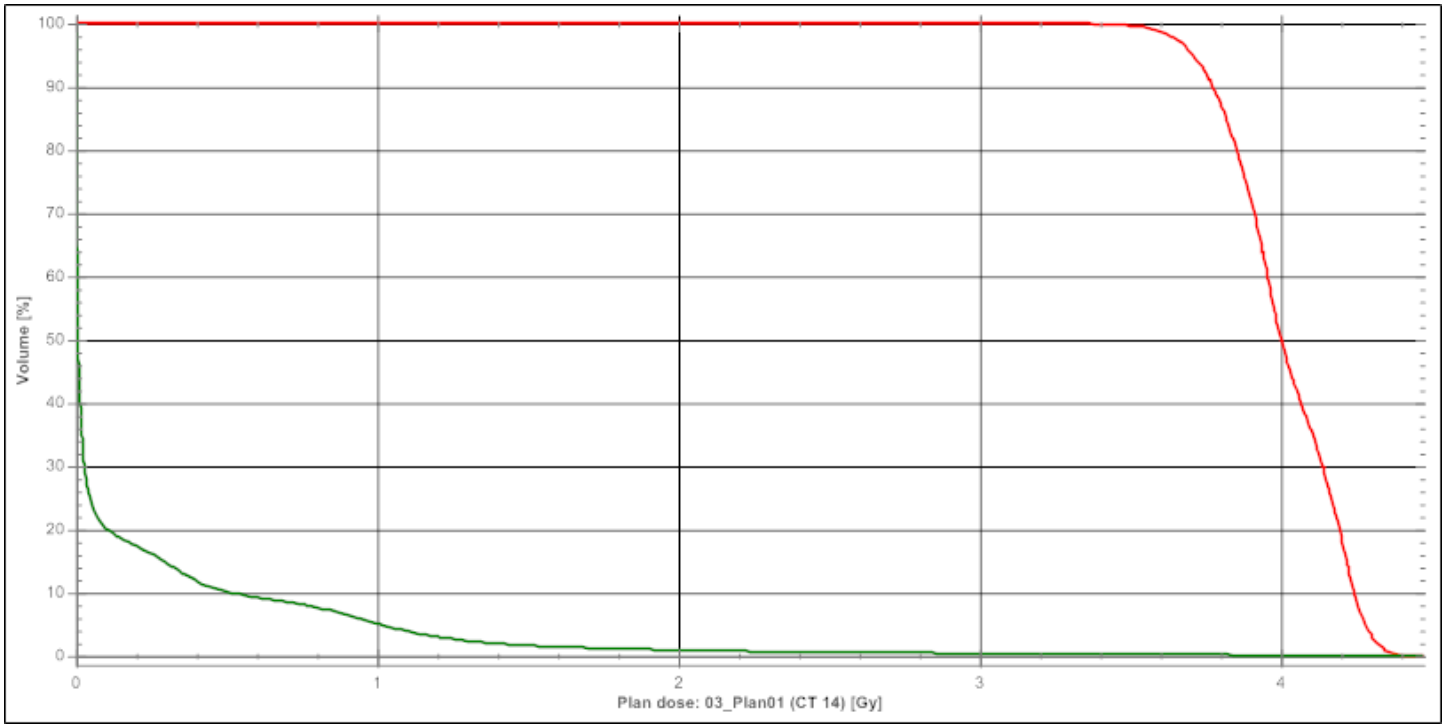



## Points Of Interest

| | | | Beam isocenters [cm] | Point - Isocenter [cm] |
|---|---|---|---|---|
| | Name | **RefPunkt** | **Right-Left: 25.04** | **Right-Left: 0.10** |
| | Type | **Localization point** | **Inf-Sup: -24.63** | **Inf-Sup: -4.47** |
| | Dose [Gy] | **0.18 [Interpolated]** | **Post-Ant: -17.38** | **Post-Ant: -7.67** |
| | Location [cm] | **Right-Left: 25.15**<br>**Inf-Sup: -29.1**<br>**Post-Ant: -25.05** | | |
| | Name | **Iso** | | |
| | Type | **Isocenter** | | |
| | Dose [Gy] | **0.00 [Interpolated]** | | |
| | Location [cm] | **N/A** | | |

## Clinical goals

There are no clinical goals




## POI Dose statistics [Beam Set dose]

| Dose | POI | Dose [Gy] | Position Right-Left: [cm] | Inf-Sup: [cm] | Post-Ant: [cm] |
|---|---|---|---|---|---|
| Plan dose: 03_Plan01 (CT 14) | RefPunkt | 0.18 | 25.15 | -29.1 | -25.05 |
| Plan dose: 03_Plan01 (CT 14) | Iso | - | - | - | - |

## ROI Dose statistics [Beam Set dose]

| Name | Volume [cm³] | D99 [Gy] | D98 [Gy] | D95 [Gy] | Average [Gy] | D50 [Gy] | D2 [Gy] | D1 [Gy] | % outside grid |
|---|---|---|---|---|---|---|---|---|---|
| External | 34769.58 | 0.00 | 0.00 | 0.00 | 0.16 | 0.01 | 1.39 | 1.94 | 0 |
| GTV | | | | | | | | | - |
| ITV | 53.11 | 3.73 | 3.76 | 3.82 | 4.07 | 4.07 | 4.33 | 4.35 | 0 |
| PTV | 70.50 | 3.58 | 3.64 | 3.71 | 4.01 | 4.00 | 4.32 | 4.34 | 0 |
| Tumor | | | | | | | | | - |

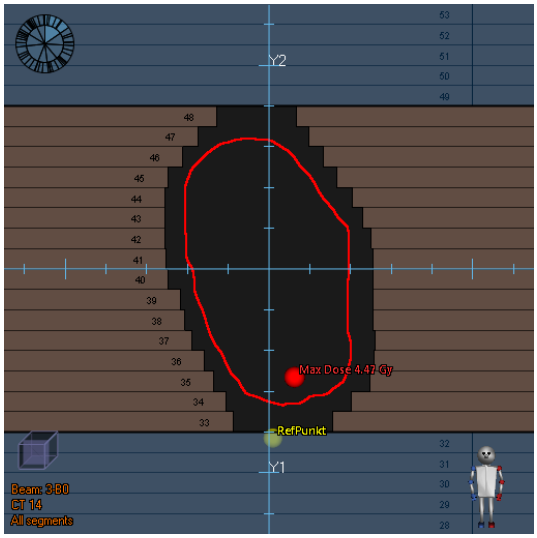
External — This ROI is set as the external ROI that defines the outer border of the patient

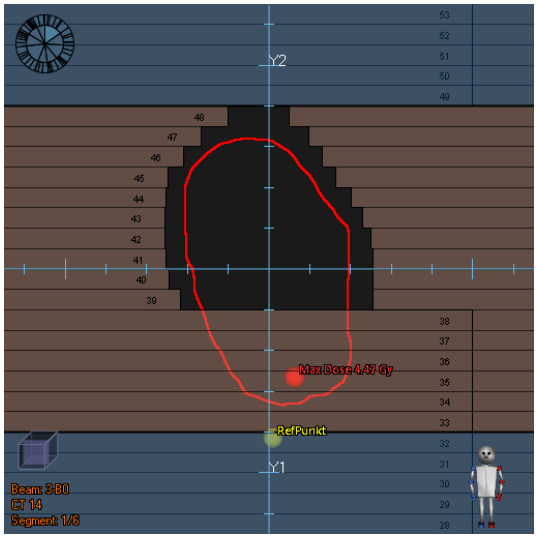
## Beam data

| | |
|---|---|
| Beam name | 3-B0 |
| Beam number | 1 |
| Beam description | 1-B0 |
| Patient coordinate system | IEC 61217 |
| Isocenter [cm] | Right-Left: 25.04 Inf-Sup: -24.63 Post-Ant: -17.38 |
| Gantry angle [deg] | 0.0 |
| Collimator angle [deg] | 0.0 |
| Couch angle [deg] | 0.0 |
| Treatment technique | SMLC |
| Number of fractions | 1 |
| Beam MU/fraction | 121.52 |
| Total beam MU | 121.52 |
| Beam weight | 0.15 |
| Number of segments | 6 |
| Dose calculation algorithm | Collapsed Cone, Version 3.0 |
| Treatment unit | ARTISTE3 |
| Commission time | 05 Nov 2014, 10:34:16 (hr:min:sec) |
| Energy [MV] | 6.00 |
| Jaw max aperture width [cm] | - |
| X1 [cm] | - |
| X2 [cm] | - |
| Jaw max aperture height [cm] | 8.00 |
| Y1 [cm] | -4.00 |
| Y2 [cm] | 4.00 |
| Source to skin distance (isocenter) [cm] | 88.90 |
| Source to surface distance (isocenter) [cm] | 88.90 |
| Bolus data | |
| No bolus | |

## Beam dose specification point

| | |
|---|---|
| Coordinates [cm] | Isocenter |
| Dose per fraction [Gy] | 0.595 |
| Physical depth [cm] | 11.10 |
| Water equivalent depth [cm] | 8.50 |
| Source to skin distance [cm] | 88.90 |
| Source to surface distance [cm] | 88.90 |



## Segments

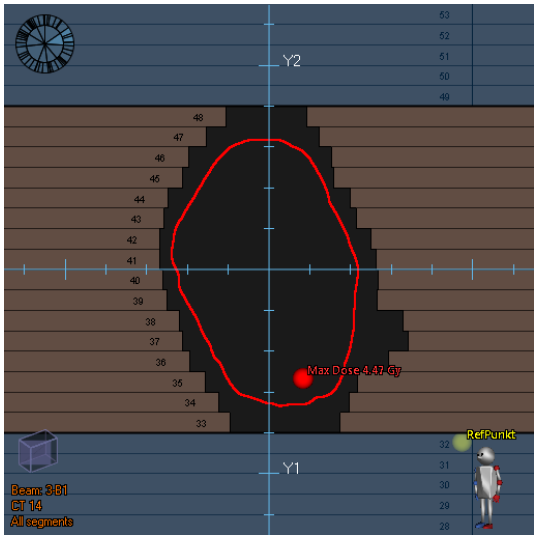
| Seg. No. | MU/Fraction | Jaw positions [cm] Y1 | Y2 |
|---|---|---|---|
| 1 | 12.63 | -4.00 | 4.00 |
| 2 | 9.73 | -4.00 | 4.00 |
| 3 | 28.76 | -4.00 | 4.00 |
| 4 | 23.72 | -4.00 | 4.00 |
| 5 | 5.47 | -4.00 | 4.00 |
| 6 | 41.21 | -4.00 | 4.00 |

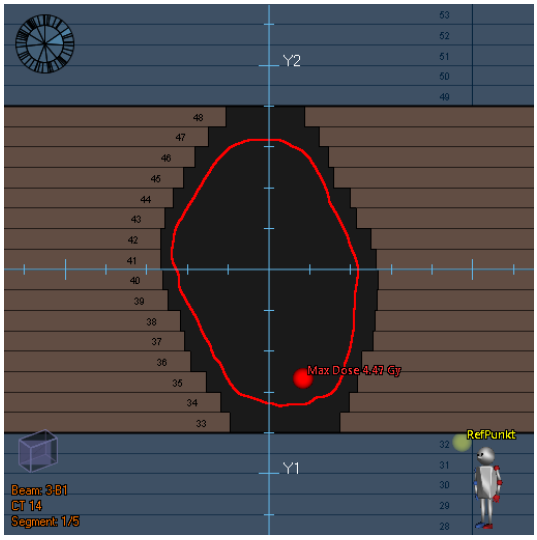
## Beam data

| | |
|---|---|
| Beam name | 3-B1 |
| Beam number | 2 |
| Beam description | 1-B1 |
| Patient coordinate system | IEC 61217 |
| Isocenter [cm] | Right-Left: 25.04 Inf-Sup: -24.63 Post-Ant: -17.38 |
| Gantry angle [deg] | 40.0 |
| Collimator angle [deg] | 0.0 |
| Couch angle [deg] | 0.0 |
| Treatment technique | SMLC |
| Number of fractions | 1 |
| Beam MU/fraction | 83.90 |
| Total beam MU | 83.90 |
| Beam weight | 0.11 |
| Number of segments | 5 |
| Dose calculation algorithm | Collapsed Cone, Version 3.0 |
| Treatment unit | ARTISTE3 |
| Commission time | 05 Nov 2014, 10:34:16 (hr:min:sec) |
| Energy [MV] | 6.00 |
| Jaw max aperture width [cm] | - |
| X1 [cm] | - |
| X2 [cm] | - |
| Jaw max aperture height [cm] | 8.00 |
| Y1 [cm] | -4.00 |
| Y2 [cm] | 4.00 |
| Source to skin distance (isocenter) [cm] | 85.71 |
| Source to surface distance (isocenter) [cm] | 85.71 |
| Bolus data | |
| No bolus | |

## Beam dose specification point

| | |
|---|---|
| Coordinates [cm] | Isocenter |
| Dose per fraction [Gy] | 0.498 |
| Physical depth [cm] | 14.29 |
| Water equivalent depth [cm] | 8.53 |
| Source to skin distance [cm] | 85.71 |
| Source to surface distance [cm] | 85.71 |




## Segments

| Seg. No. | MU/Fraction | Jaw positions [cm] Y1 | Y2 |
|---|---|---|---|
| 1 | 28.31 | -4.00 | 4.00 |
| 2 | 11.59 | -4.00 | 4.00 |
| 3 | 26.25 | -4.00 | 4.00 |
| 4 | 2.08 | -4.00 | 4.00 |
| 5 | 15.67 | -4.00 | 4.00 |

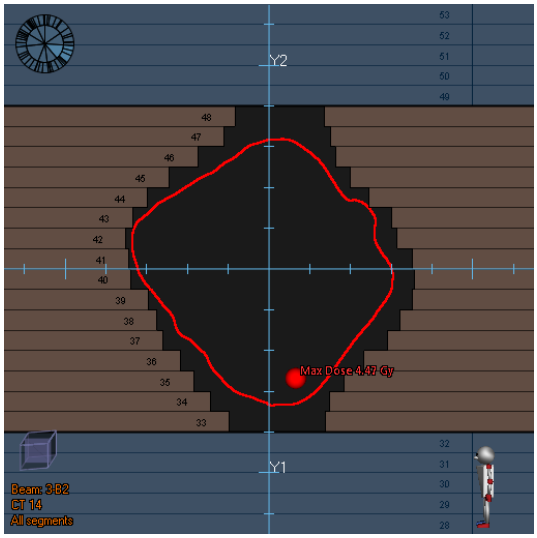
## Beam data

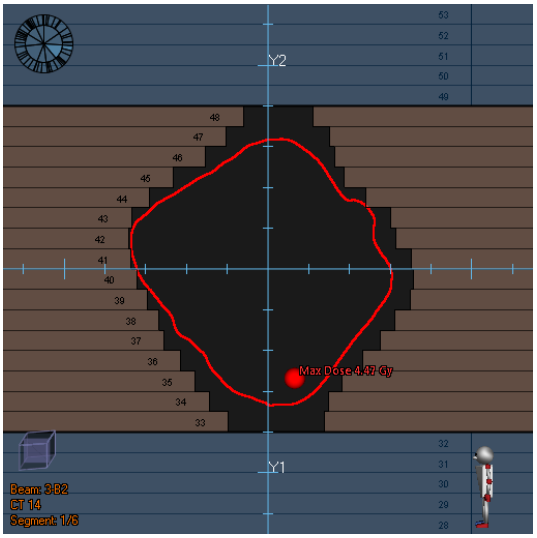
| | |
|---|---|
| Beam name | 3-B2 |
| Beam number | 3 |
| Beam description | 1-B2 |
| Patient coordinate system | IEC 61217 |
| Isocenter [cm] | Right-Left: 25.04 Inf-Sup: -24.63 Post-Ant: -17.38 |
| Gantry angle [deg] | 80.0 |
| Collimator angle [deg] | 0.0 |
| Couch angle [deg] | 0.0 |
| Treatment technique | SMLC |
| Number of fractions | 1 |
| Beam MU/fraction | 101.66 |
| Total beam MU | 101.66 |
| Beam weight | 0.13 |
| Number of segments | 6 |
| Dose calculation algorithm | Collapsed Cone, Version 3.0 |
| Treatment unit | ARTISTE3 |
| Commission time | 05 Nov 2014, 10:34:16 (hr:min:sec) |
| Energy [MV] | 6.00 |
| Jaw max aperture width [cm] | - |
| X1 [cm] | - |
| X2 [cm] | - |
| Jaw max aperture height [cm] | 8.00 |
| Y1 [cm] | -4.00 |
| Y2 [cm] | 4.00 |
| Source to skin distance (isocenter) [cm] | 84.60 |
| Source to surface distance (isocenter) [cm] | 84.60 |
| Bolus data | |
| No bolus | |

## Beam dose specification point

| | |
|---|---|
| Coordinates [cm] | Isocenter |
| Dose per fraction [Gy] | 0.449 |
| Physical depth [cm] | 15.40 |

| | |
|---|---|
| Water equivalent depth [cm] | 5.58 |
| Source to skin distance [cm] | 84.60 |
| Source to surface distance [cm] | 84.60 |




## Segments

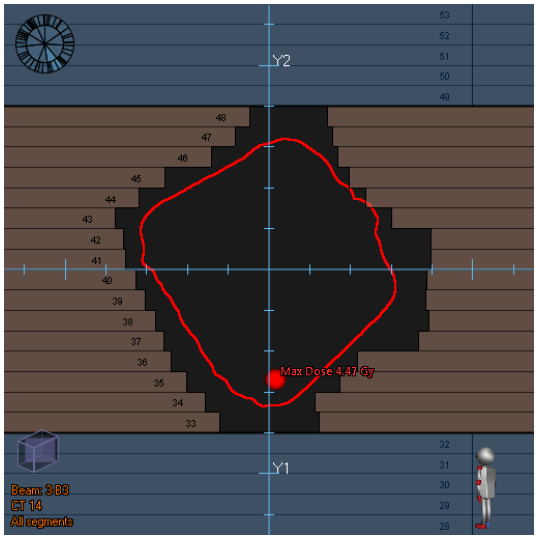
| Seg. No. | MU/Fraction | Jaw positions [cm] Y1 | Y2 |
|---|---|---|---|
| 1 | 22.81 | -4.00 | 4.00 |
| 2 | 22.52 | -4.00 | 4.00 |
| 3 | 34.87 | -4.00 | 4.00 |
| 4 | 4.83 | -4.00 | 4.00 |
| 5 | 7.91 | -4.00 | 4.00 |
| 6 | 8.72 | -4.00 | 4.00 |

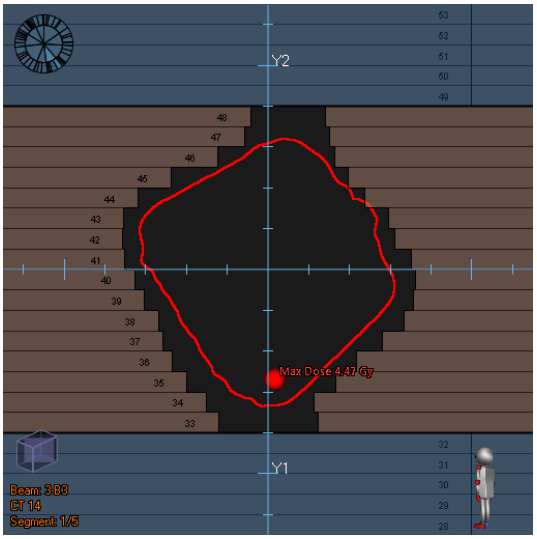
## Beam data

| | |
|---|---|
| Beam name | 3-B3 |
| Beam number | 4 |
| Beam description | 1-B3 |
| Patient coordinate system | IEC 61217 |
| Isocenter [cm] | Right-Left: 25.04 Inf-Sup: -24.63 Post-Ant: -17.38 |
| Gantry angle [deg] | 120.0 |
| Collimator angle [deg] | 0.0 |
| Couch angle [deg] | 0.0 |
| Treatment technique | SMLC |
| Number of fractions | 1 |
| Beam MU/fraction | 71.73 |
| Total beam MU | 71.73 |
| Beam weight | 0.09 |
| Number of segments | 5 |
| Dose calculation algorithm | Collapsed Cone, Version 3.0 |
| Treatment unit | ARTISTE3 |
| Commission time | 05 Nov 2014, 10:34:16 (hr:min:sec) |
| Energy [MV] | 6.00 |
| Jaw max aperture width [cm] | - |
| X1 [cm] | - |
| X2 [cm] | - |
| Jaw max aperture height [cm] | 8.00 |
| Y1 [cm] | -4.00 |
| Y2 [cm] | 4.00 |
| Source to skin distance (isocenter) [cm] | 82.63 |
| Source to surface distance (isocenter) [cm] | 82.63 |
| Bolus data | |
| No bolus | |

## Beam dose specification point

| | |
|---|---|
| Coordinates [cm] | Isocenter |
| Dose per fraction [Gy] | 0.505 |
| Physical depth [cm] | 17.37 |
| Water equivalent depth [cm] | 6.92 |
| Source to skin distance [cm] | 82.63 |
| Source to surface distance [cm] | 82.63 |




## Segments

| Seg. No. | MU/Fraction | Jaw positions [cm] Y1 | Y2 |
|---|---|---|---|
| 1 | 23.71 | -4.00 | 4.00 |
| 2 | 27.61 | -4.00 | 4.00 |
| 3 | 9.77 | -4.00 | 4.00 |
| 4 | 2.14 | -4.00 | 4.00 |
| 5 | 8.49 | -4.00 | 4.00 |

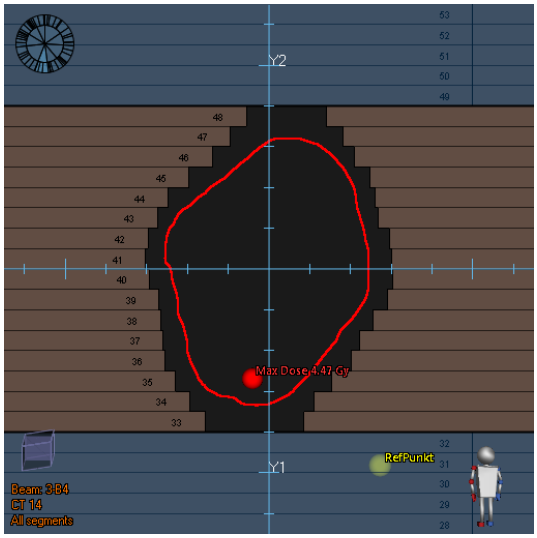
## Beam data

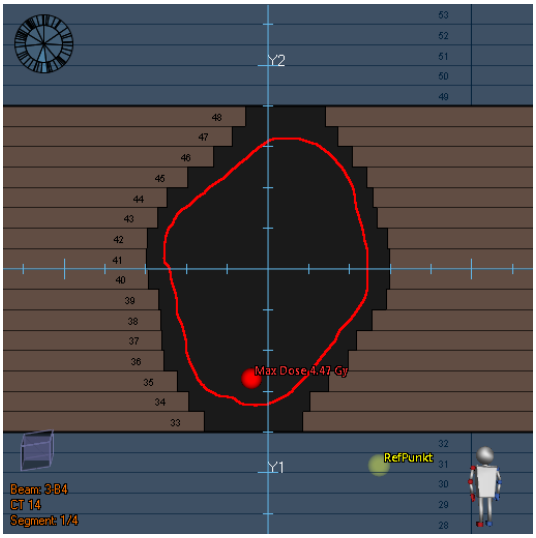
| | |
|---|---|
| Beam name | 3-B4 |
| Beam number | 5 |
| Beam description | 1-B4 |
| Patient coordinate system | IEC 61217 |
| Isocenter [cm] | Right-Left: 25.04 Inf-Sup: -24.63 Post-Ant: -17.38 |
| Gantry angle [deg] | 160.0 |
| Collimator angle [deg] | 0.0 |
| Couch angle [deg] | 0.0 |
| Treatment technique | SMLC |
| Number of fractions | 1 |
| Beam MU/fraction | 62.62 |
| Total beam MU | 62.62 |
| Beam weight | 0.08 |
| Number of segments | 4 |
| Dose calculation algorithm | Collapsed Cone, Version 3.0 |
| Treatment unit | ARTISTE3 |
| Commission time | 05 Nov 2014, 10:34:16 (hr:min:sec) |
| Energy [MV] | 6.00 |
| Jaw max aperture width [cm] | - |
| X1 [cm] | - |
| X2 [cm] | - |
| Jaw max aperture height [cm] | 8.00 |
| Y1 [cm] | -4.00 |
| Y2 [cm] | 4.00 |
| Source to skin distance (isocenter) [cm] | 82.52 |

| | |
|---|---|
| Source to surface distance (isocenter) [cm] | 82.52 |
| Bolus data | |
| No bolus | |

## Beam dose specification point

| | |
|---|---|
| Coordinates [cm] | Isocenter |
| Dose per fraction [Gy] | 0.407 |
| Physical depth [cm] | 17.48 |
| Water equivalent depth [cm] | 13.19 |
| Source to skin distance [cm] | 82.52 |
| Source to surface distance [cm] | 82.52 |




## Segments

| Seg. No. | MU/Fraction | Jaw positions [cm] Y1 | Y2 |
|---|---|---|---|
| 1 | 27.27 | -4.00 | 4.00 |
| 2 | 19.89 | -4.00 | 4.00 |
| 3 | 13.38 | -4.00 | 4.00 |
| 4 | 2.08 | -4.00 | 4.00 |

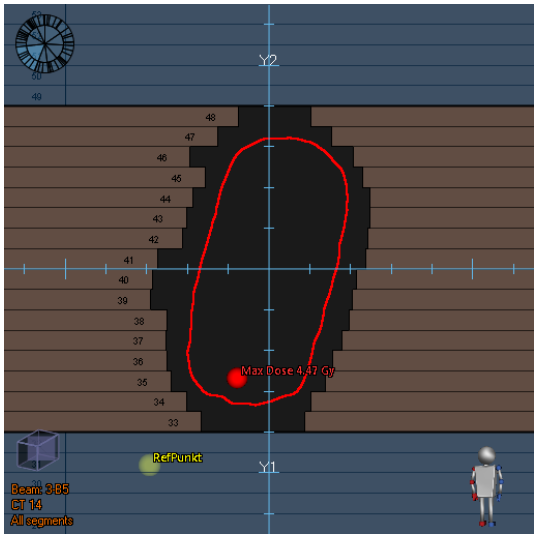
## Beam data

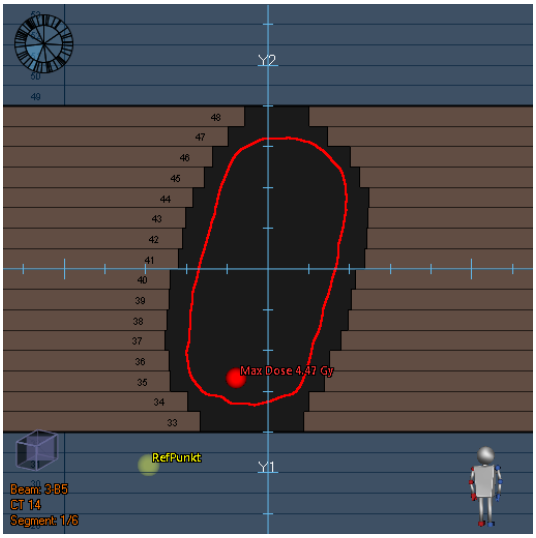
| | |
|---|---|
| Beam name | 3-B5 |
| Beam number | 6 |
| Beam description | 1-B5 |
| Patient coordinate system | IEC 61217 |
| Isocenter [cm] | Right-Left: 25.04 Inf-Sup: -24.63 Post-Ant: -17.38 |
| Gantry angle [deg] | 200.0 |
| Collimator angle [deg] | 0.0 |
| Couch angle [deg] | 0.0 |
| Treatment technique | SMLC |
| Number of fractions | 1 |
| Beam MU/fraction | 135.47 |
| Total beam MU | 135.47 |
| Beam weight | 0.17 |
| Number of segments | 6 |
| Dose calculation algorithm | Collapsed Cone, Version 3.0 |
| Treatment unit | ARTISTE3 |
| Commission time | 05 Nov 2014, 10:34:16 (hr:min:sec) |
| Energy [MV] | 6.00 |
| Jaw max aperture width [cm] | - |
| X1 [cm] | - |
| X2 [cm] | - |
| Jaw max aperture height [cm] | 8.00 |

| | |
|---|---|
| Y1 [cm] | -4.00 |
| Y2 [cm] | 4.00 |
| Source to skin distance (isocenter) [cm] | 82.66 |
| Source to surface distance (isocenter) [cm] | 82.66 |
| Bolus data | |
| No bolus | |

## Beam dose specification point

| | |
|---|---|
| Coordinates [cm] | Isocenter |
| Dose per fraction [Gy] | 0.481 |
| Physical depth [cm] | 17.34 |
| Water equivalent depth [cm] | 14.43 |
| Source to skin distance [cm] | 82.66 |
| Source to surface distance [cm] | 82.66 |




## Segments

| Seg. No. | MU/Fraction | Jaw positions [cm] Y1 | Y2 |
|---|---|---|---|
| 1 | 26.61 | -4.00 | 4.00 |
| 2 | 24.48 | -4.00 | 4.00 |
| 3 | 24.48 | -4.00 | 4.00 |
| 4 | 12.15 | -4.00 | 4.00 |
| 5 | 12.48 | -4.00 | 4.00 |
| 6 | 35.27 | -4.00 | 4.00 |

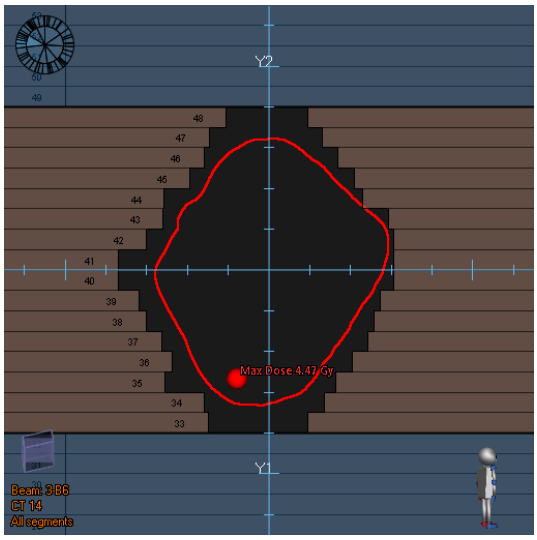
## Beam data

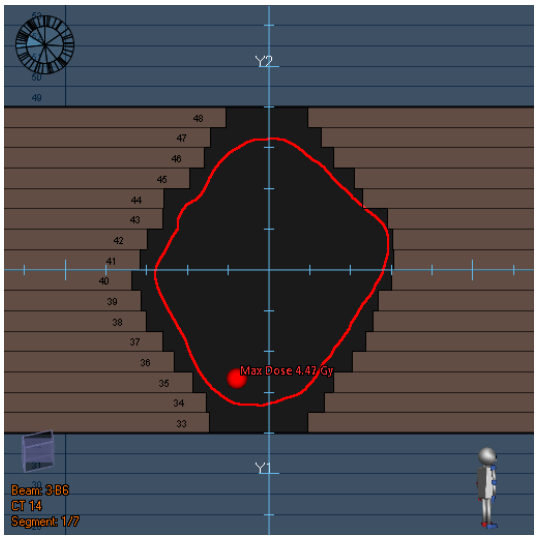
| | |
|---|---|
| Beam name | 3-B6 |
| Beam number | 7 |
| Beam description | 1-B6 |
| Patient coordinate system | IEC 61217 |
| Isocenter [cm] | Right-Left: 25.04 Inf-Sup: -24.63 Post-Ant: -17.38 |
| Gantry angle [deg] | 240.0 |
| Collimator angle [deg] | 0.0 |
| Couch angle [deg] | 0.0 |
| Treatment technique | SMLC |
| Number of fractions | 1 |
| Beam MU/fraction | 83.55 |
| Total beam MU | 83.55 |
| Beam weight | 0.11 |
| Number of segments | 7 |
| Dose calculation algorithm | Collapsed Cone, Version 3.0 |
| Treatment unit | ARTISTE3 |
| Commission time | 05 Nov 2014, 10:34:16 (hr:min:sec) |

| | |
|---|---|
| Energy [MV] | 6.00 |
| Jaw max aperture width [cm] | - |
| X1 [cm] | - |
| X2 [cm] | - |
| Jaw max aperture height [cm] | 8.00 |
| Y1 [cm] | -4.00 |
| Y2 [cm] | 4.00 |
| Source to skin distance (isocenter) [cm] | 84.25 |
| Source to surface distance (isocenter) [cm] | 84.25 |
| Bolus data | |
| No bolus | |

## Beam dose specification point

| | |
|---|---|
| Coordinates [cm] | Isocenter |
| Dose per fraction [Gy] | 0.511 |
| Physical depth [cm] | 15.75 |
| Water equivalent depth [cm] | 6.81 |
| Source to skin distance [cm] | 84.25 |
| Source to surface distance [cm] | 84.25 |




## Segments

| Seg. No. | MU/Fraction | Jaw positions [cm] Y1 | Y2 |
|---|---|---|---|
| 1 | 21.29 | -4.00 | 4.00 |
| 2 | 17.25 | -4.00 | 4.00 |
| 3 | 11.57 | -4.00 | 4.00 |
| 4 | 9.70 | -4.00 | 4.00 |
| 5 | 8.81 | -4.00 | 4.00 |
| 6 | 4.52 | -4.00 | 4.00 |
| 7 | 10.40 | -4.00 | 4.00 |

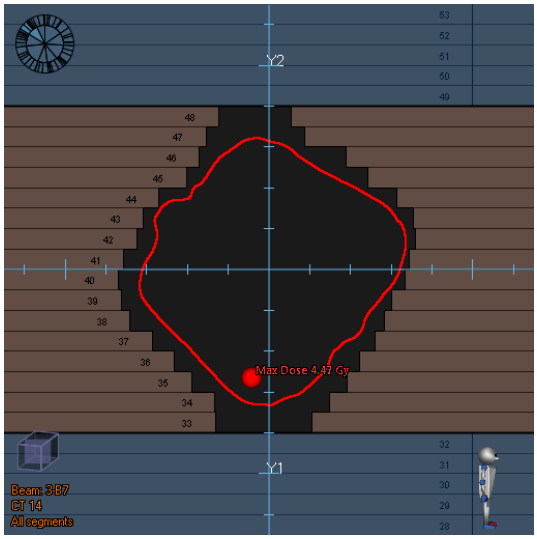
## Beam data

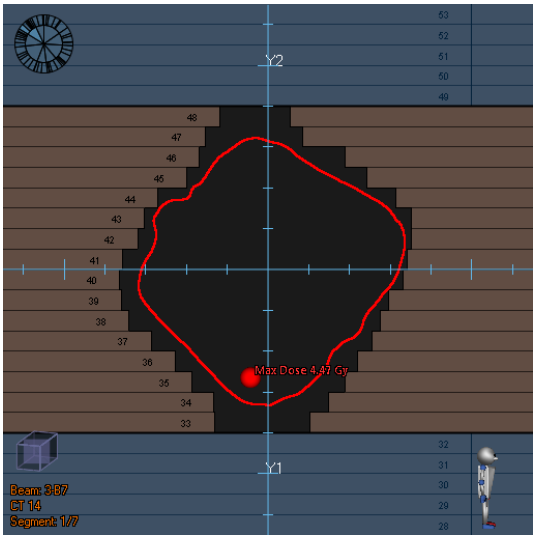
| | |
|---|---|
| Beam name | 3-B7 |
| Beam number | 8 |
| Beam description | 1-B7 |
| Patient coordinate system | IEC 61217 |
| Isocenter [cm] | Right-Left: 25.04 Inf-Sup: -24.63 Post-Ant: -17.38 |
| Gantry angle [deg] | 280.0 |
| Collimator angle [deg] | 0.0 |
| Couch angle [deg] | 0.0 |
| Treatment technique | SMLC |
| Number of fractions | 1 |
| Beam MU/fraction | 72.93 |

| | |
|---|---|
| Total beam MU | 72.93 |
| Beam weight | 0.09 |
| Number of segments | 7 |
| Dose calculation algorithm | Collapsed Cone, Version 3.0 |
| Treatment unit | ARTISTE3 |
| Commission time | 05 Nov 2014, 10:34:16 (hr:min:sec) |
| Energy [MV] | 6.00 |
| Jaw max aperture width [cm] | - |
| X1 [cm] | - |
| X2 [cm] | - |
| Jaw max aperture height [cm] | 8.00 |
| Y1 [cm] | -4.00 |
| Y2 [cm] | 4.00 |
| Source to skin distance (isocenter) [cm] | 86.41 |
| Source to surface distance (isocenter) [cm] | 86.41 |
| Bolus data | |
| No bolus | |

## Beam dose specification point

| | |
|---|---|
| Coordinates [cm] | Isocenter |
| Dose per fraction [Gy] | 0.461 |
| Physical depth [cm] | 13.59 |
| Water equivalent depth [cm] | 4.69 |
| Source to skin distance [cm] | 86.41 |
| Source to surface distance [cm] | 86.41 |




## Segments

| Seg. No. | MU/Fraction | Jaw positions [cm] Y1 | Y2 |
|---|---|---|---|
| 1 | 24.20 | -4.00 | 4.00 |
| 2 | 16.44 | -4.00 | 4.00 |
| 3 | 5.89 | -4.00 | 4.00 |
| 4 | 5.19 | -4.00 | 4.00 |
| 5 | 3.89 | -4.00 | 4.00 |
| 6 | 8.13 | -4.00 | 4.00 |
| 7 | 9.20 | -4.00 | 4.00 |

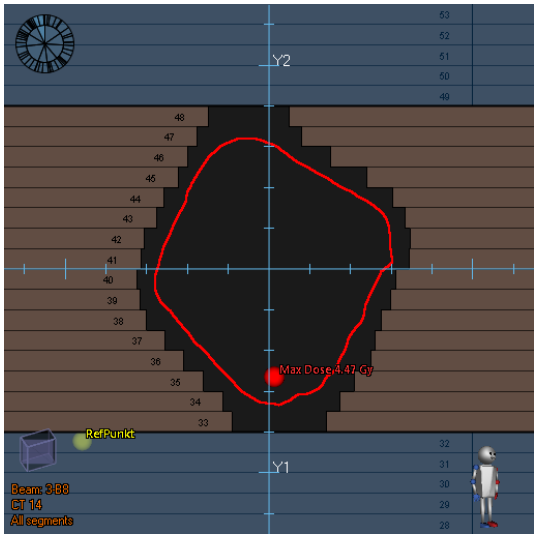
## Beam data

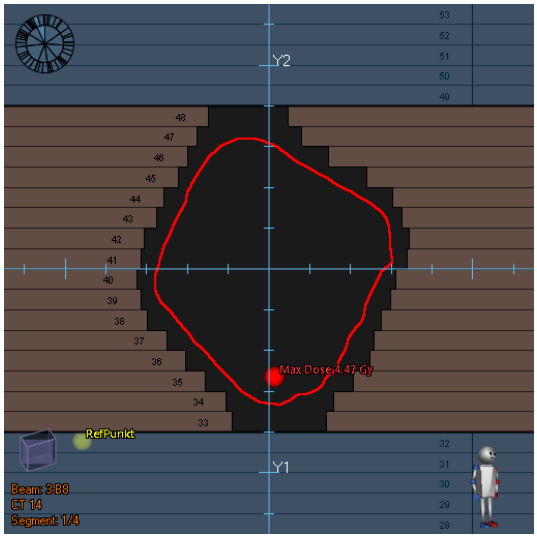
| | |
|---|---|
| Beam name | 3-B8 |
| Beam number | 9 |
| Beam description | 1-B8 |
| Patient coordinate system | IEC 61217 |
| Isocenter [cm] | Right-Left: 25.04 Inf-Sup: -24.63 Post-Ant: -17.38 |

| | |
|---|---|
| Gantry angle [deg] | 320.0 |
| Collimator angle [deg] | 0.0 |
| Couch angle [deg] | 0.0 |
| Treatment technique | SMLC |
| Number of fractions | 1 |
| Beam MU/fraction | 55.57 |
| Total beam MU | 55.57 |
| Beam weight | 0.07 |
| Number of segments | 4 |
| Dose calculation algorithm | Collapsed Cone, Version 3.0 |
| Treatment unit | ARTISTE3 |
| Commission time | 05 Nov 2014, 10:34:16 (hr:min:sec) |
| Energy [MV] | 6.00 |
| Jaw max aperture width [cm] | - |
| X1 [cm] | - |
| X2 [cm] | - |
| Jaw max aperture height [cm] | 8.00 |
| Y1 [cm] | -4.00 |
| Y2 [cm] | 4.00 |
| Source to skin distance (isocenter) [cm] | 85.96 |
| Source to surface distance (isocenter) [cm] | 85.96 |
| Bolus data | |
| No bolus | |

## Beam dose specification point

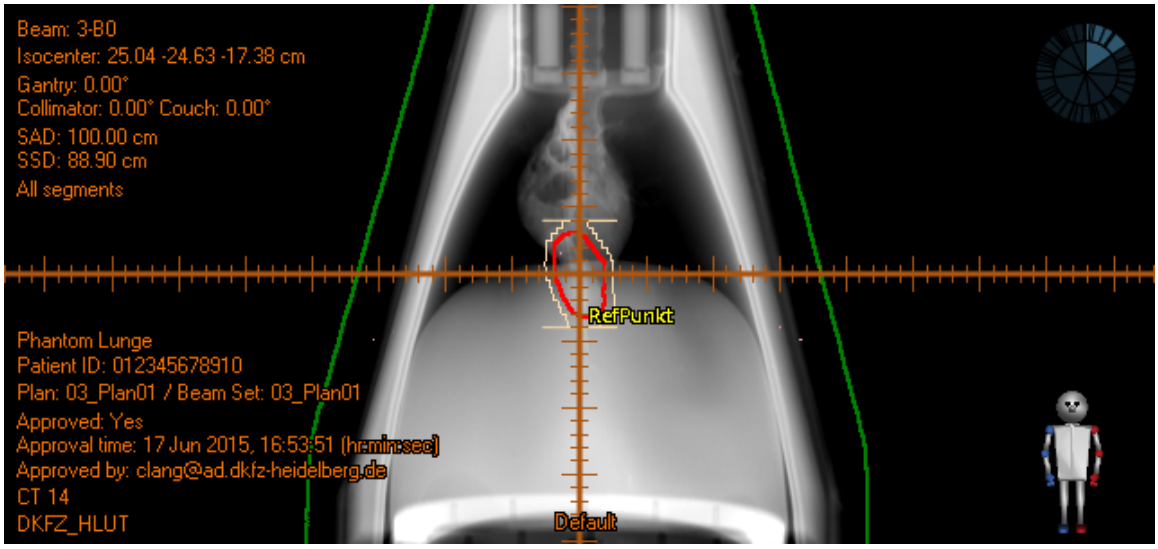
| | |
|---|---|
| Coordinates [cm] | Isocenter |
| Dose per fraction [Gy] | 0.424 |
| Physical depth [cm] | 14.04 |
| Water equivalent depth [cm] | 6.11 |
| Source to skin distance [cm] | 85.96 |
| Source to surface distance [cm] | 85.96 |

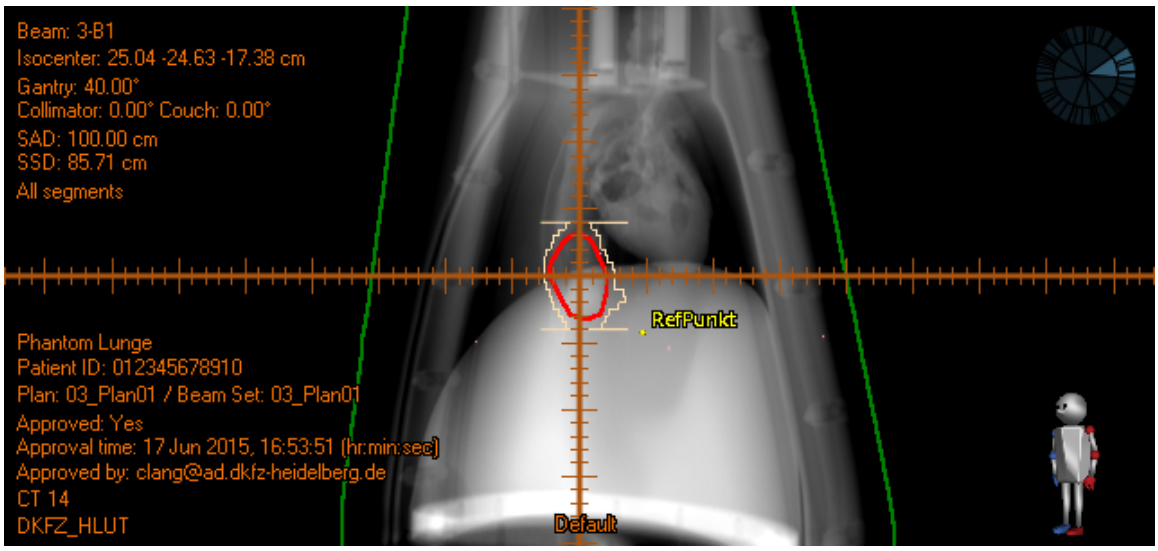


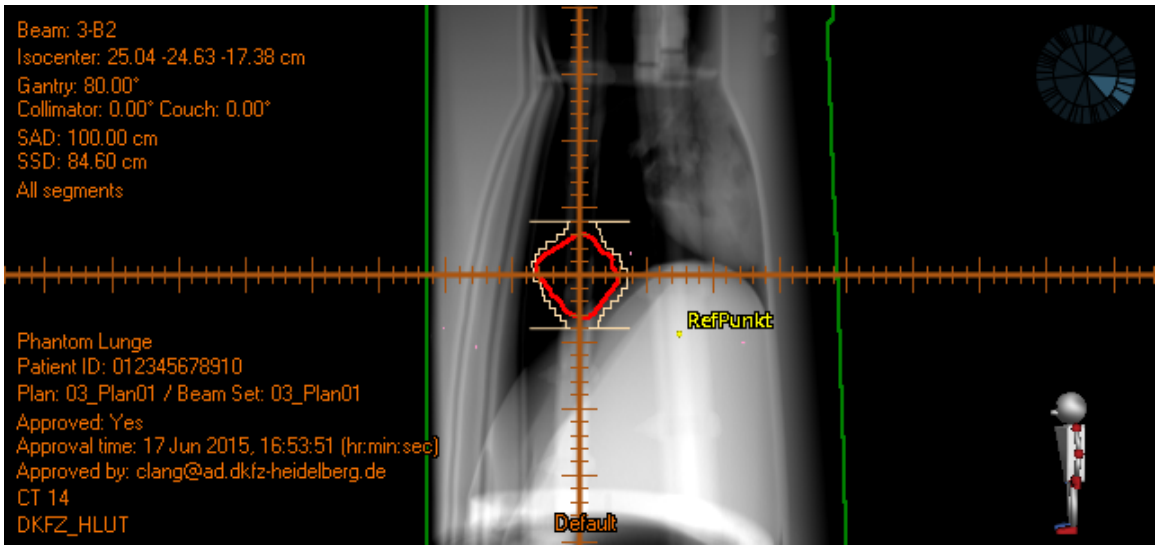



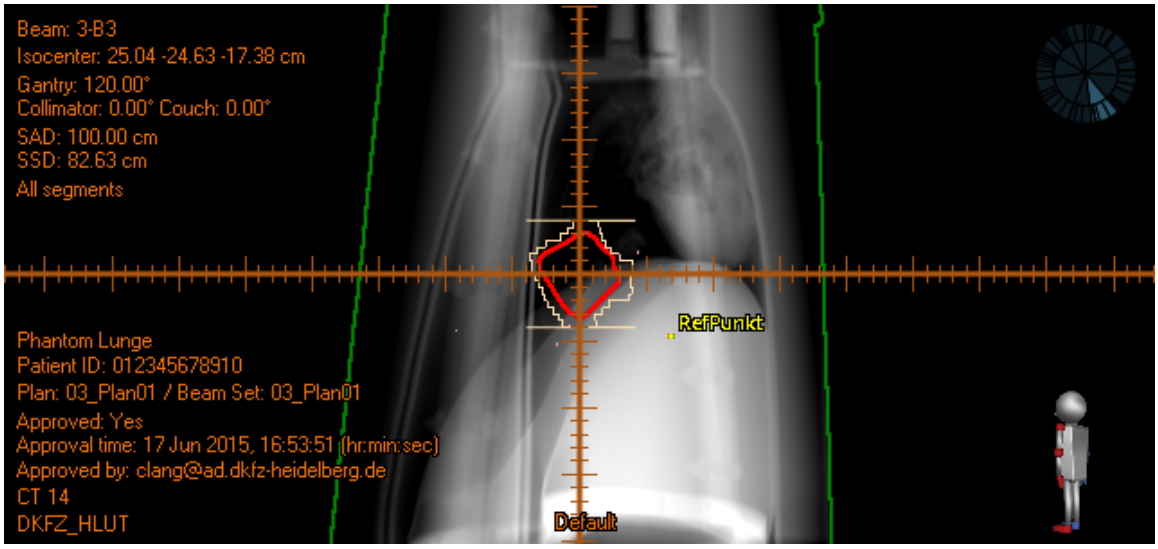

## Segments

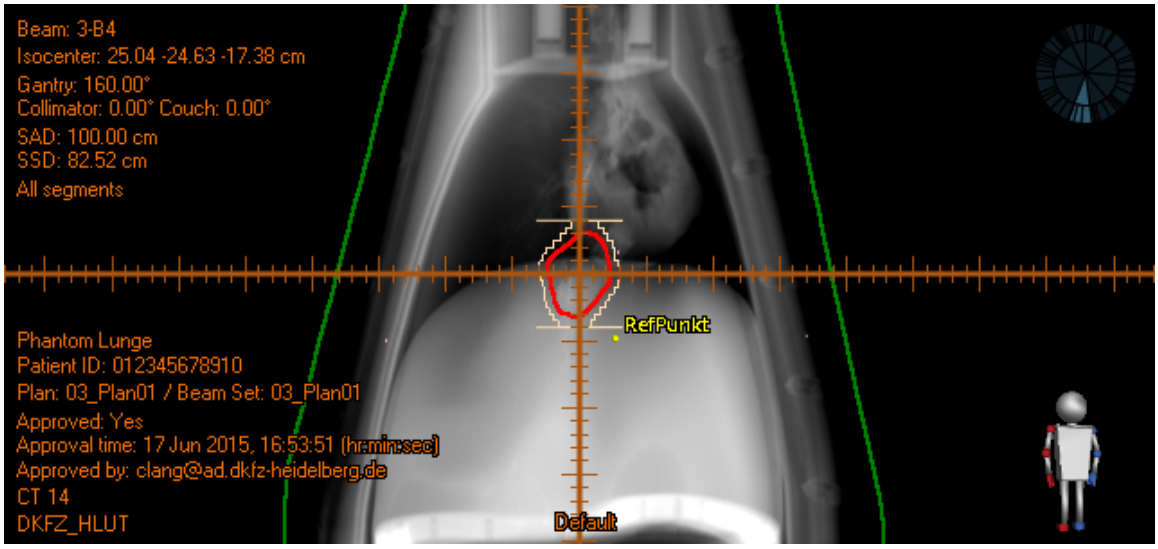
| Seg. No. | MU/Fraction | Jaw positions [cm] Y1 | Y2 |
|---|---|---|---|
| 1 | 23.41 | -4.00 | 4.00 |
| 2 | 26.48 | -4.00 | 4.00 |
| 3 | 2.08 | -4.00 | 4.00 |
| 4 | 3.59 | -4.00 | 4.00 |

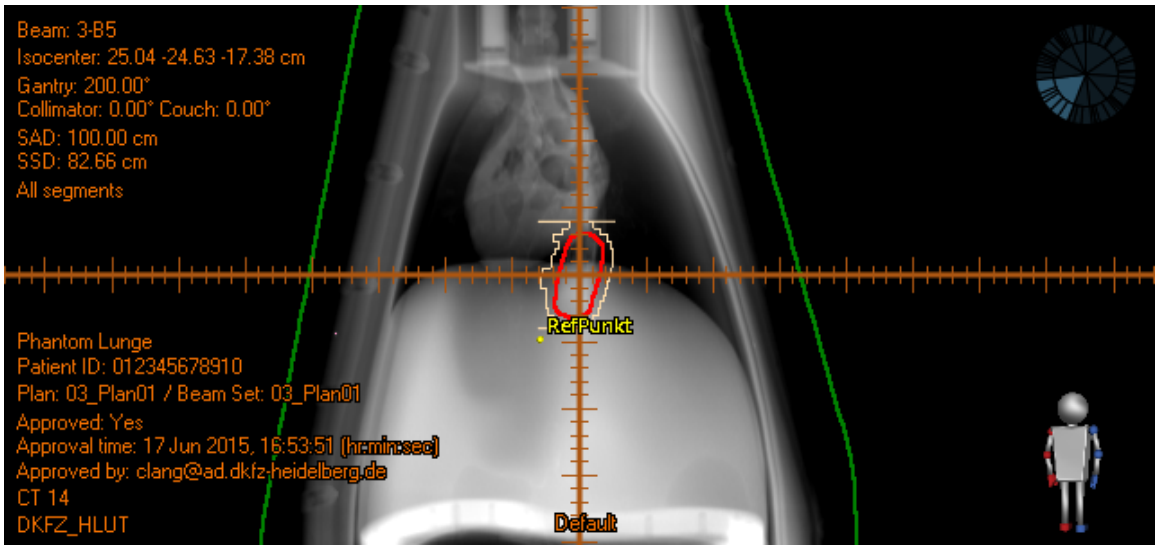

Beam: 3-B0
Isocenter: 25.04 -24.63 -17.38 cm
Gantry: 0.00°
Collimator: 0.00° Couch: 0.00°
SAD: 100.00 cm
SSD: 88.90 cm
All segments
RefPunkt
Phantom Lunge
Patient ID: 012345678910
Plan: 03_Plan01 / Beam Set: 03_Plan01
Approved: Yes
Approval time: 17 Jun 2015, 16:53:51 (hr:min:sec)
Approved by: clang@ad.dkfz-heidelberg.de
CT 14
DKFZ_HLUT
Default

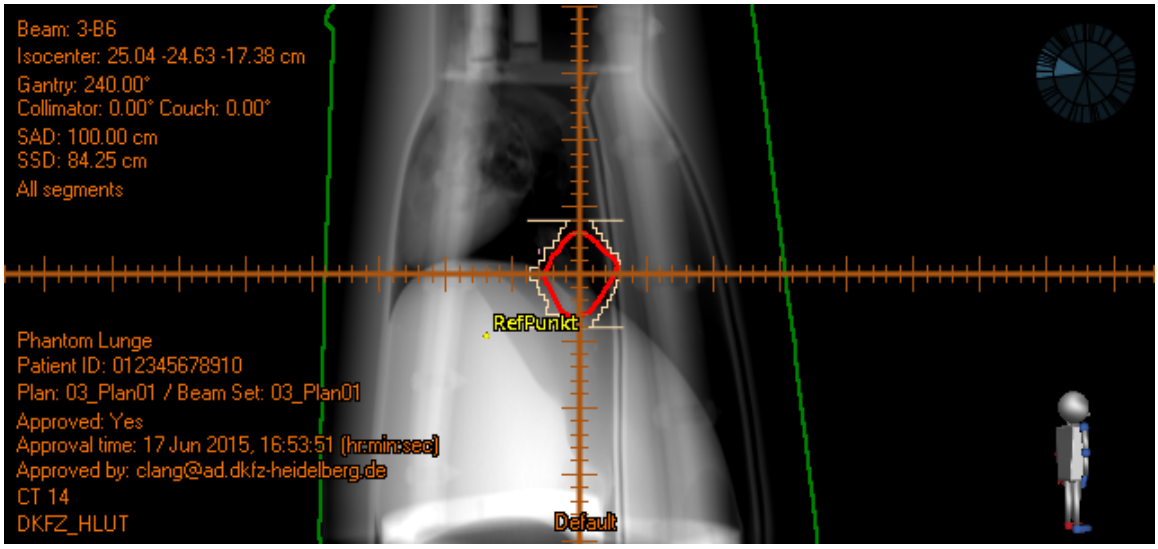

Beam: 3-B1
Isocenter: 25.04 -24.63 -17.38 cm
Gantry: 40.00°
Collimator: 0.00° Couch: 0.00°
SAD: 100.00 cm
SSD: 85.71 cm
All segments
RefPunkt
Phantom Lunge
Patient ID: 012345678910
Plan: 03_Plan01 / Beam Set: 03_Plan01
Approved: Yes
Approval time: 17 Jun 2015, 16:53:51 (hr:min:sec)
Approved by: clang@ad.dkfz-heidelberg.de
CT 14
DKFZ_HLUT
Default

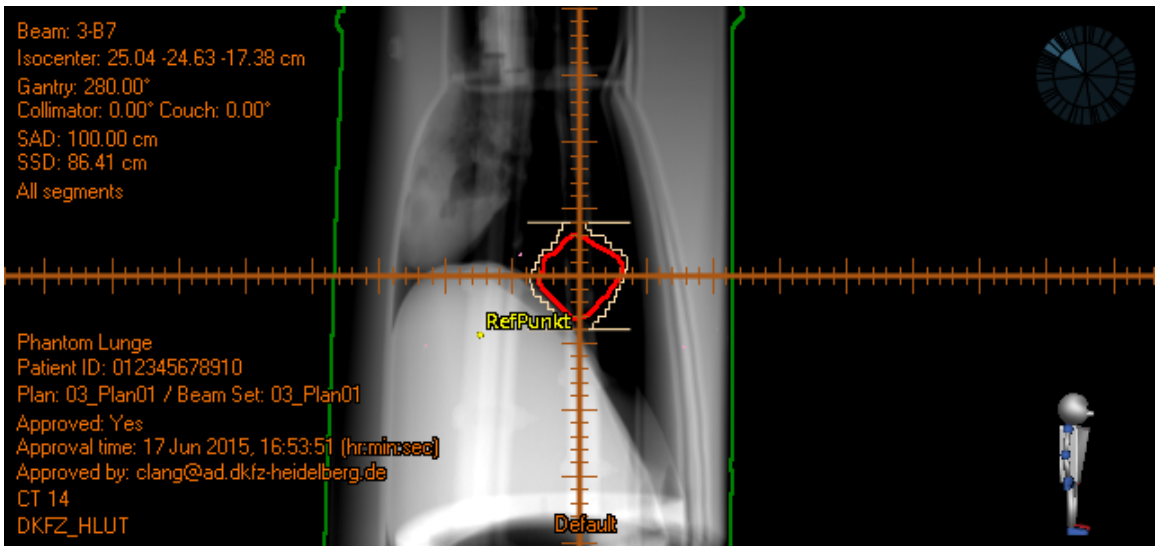

Beam: 3-B2
Isocenter: 25.04 -24.63 -17.38 cm
Gantry: 80.00°
Collimator: 0.00° Couch: 0.00°
SAD: 100.00 cm
SSD: 84.60 cm
All segments
RefPunkt
Phantom Lunge
Patient ID: 012345678910
Plan: 03_Plan01 / Beam Set: 03_Plan01
Approved: Yes
Approval time: 17 Jun 2015, 16:53:51 (hr:min:sec)
Approved by: clang@ad.dkfz-heidelberg.de
CT 14
DKFZ_HLUT
Default

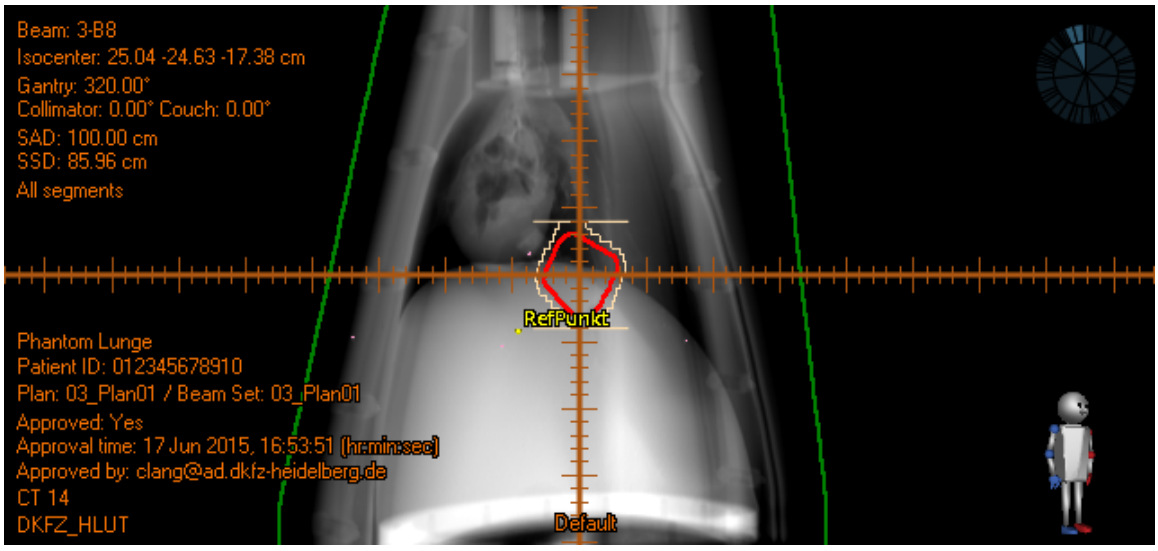

Beam: 3-B3
Isocenter: 25.04 -24.63 -17.38 cm
Gantry: 120.00°
Collimator: 0.00° Couch: 0.00°
SAD: 100.00 cm
SSD: 82.63 cm
All segments
RefPunkt
Phantom Lunge
Patient ID: 012345678910
Plan: 03_Plan01 / Beam Set: 03_Plan01
Approved: Yes
Approval time: 17 Jun 2015, 16:53:51 (hr:min:sec)
Approved by: clang@ad.dkfz-heidelberg.de
CT 14
DKFZ_HLUT
Default


Beam: 3-B4
Isocenter: 25.04 -24.63 -17.38 cm
Gantry: 160.00°
Collimator: 0.00° Couch: 0.00°
SAD: 100.00 cm
SSD: 82.52 cm
All segments
RefPunkt
Phantom Lunge
Patient ID: 012345678910
Plan: 03_Plan01 / Beam Set: 03_Plan01
Approved: Yes
Approval time: 17 Jun 2015, 16:53:51 (hr:min:sec)
Approved by: clang@ad.dkfz-heidelberg.de
CT 14
DKFZ_HLUT
Default


Beam: 3-B5
Isocenter: 25.04 -24.63 -17.38 cm
Gantry: 200.00°
Collimator: 0.00° Couch: 0.00°
SAD: 100.00 cm
SSD: 82.66 cm
All segments
RefPunkt
Phantom Lunge
Patient ID: 012345678910
Plan: 03_Plan01 / Beam Set: 03_Plan01
Approved: Yes
Approval time: 17 Jun 2015, 16:53:51 (hr:min:sec)
Approved by: clang@ad.dkfz-heidelberg.de
CT 14
DKFZ_HLUT
Default


Beam: 3-B6
Isocenter: 25.04 -24.63 -17.38 cm
Gantry: 240.00°
Collimator: 0.00° Couch: 0.00°
SAD: 100.00 cm
SSD: 84.25 cm
All segments
RefPunkt
Phantom Lunge
Patient ID: 012345678910
Plan: 03_Plan01 / Beam Set: 03_Plan01
Approved: Yes
Approval time: 17 Jun 2015, 16:53:51 (hr:min:sec)
Approved by: clang@ad.dkfz-heidelberg.de
CT 14
DKFZ_HLUT
Default


Beam: 3-B7
Isocenter: 25.04 -24.63 -17.38 cm
Gantry: 280.00°
Collimator: 0.00° Couch: 0.00°
SAD: 100.00 cm
SSD: 86.41 cm
All segments
RefPunkt
Phantom Lunge
Patient ID: 012345678910
Plan: 03_Plan01 / Beam Set: 03_Plan01
Approved: Yes
Approval time: 17 Jun 2015, 16:53:51 (hr:min:sec)
Approved by: clang@ad.dkfz-heidelberg.de
CT 14
DKFZ_HLUT
Default


Beam: 3-B8
Isocenter: 25.04 -24.63 -17.38 cm
Gantry: 320.00°
Collimator: 0.00° Couch: 0.00°
SAD: 100.00 cm
SSD: 85.96 cm
All segments
RefPunkt
Phantom Lunge
Patient ID: 012345678910
Plan: 03_Plan01 / Beam Set: 03_Plan01
Approved: Yes
Approval time: 17 Jun 2015, 16:53:51 (hr:min:sec)
Approved by: clang@ad.dkfz-heidelberg.de
CT 14
DKFZ_HLUT
Default

## Import log

| | | |
|---|---|---|
| 13 May 2015, 12:59:57 (hr:min:sec) | AD\meduser | Starting import. RayStation version 4.5.0.19 |
| 13 May 2015, 13:00:03 (hr:min:sec) | AD\meduser | DICOM import succeeded |
| 13 May 2015, 13:11:13 (hr:min:sec) | AD\meduser | Starting import. RayStation version 4.5.0.19 |
| 13 May 2015, 13:12:10 (hr:min:sec) | AD\meduser | DICOM import succeeded |
| 13 May 2015, 13:12:10 (hr:min:sec) | AD\meduser | Please note the following warnings / assumptions: |
| 13 May 2015, 13:12:10 (hr:min:sec) | AD\meduser | #1 Patient's Name differed from the current patient.<br><br>Name of current patient:<br>Lunge^Phantom<br><br>Mismatching names from imported data:<br>LUNGE^PHANTOM |
| 10 Jun 2015, 15:17:56 (hr:min:sec) | AD\meduser | Starting import. RayStation version 4.5.0.19 |
| 10 Jun 2015, 15:18:01 (hr:min:sec) | AD\meduser | DICOM import succeeded |
| 10 Jun 2015, 15:18:01 (hr:min:sec) | AD\meduser | Please note the following warnings / assumptions: |
| 10 Jun 2015, 15:18:01 (hr:min:sec) | AD\meduser | #1 Patient's Name differed from the current patient.<br><br>Name of current patient:<br>Lunge^Phantom<br><br>Mismatching names from imported data:<br>LUNGE^PHANTOM |
| 17 Jun 2015, 14:31:35 (hr:min:sec) | AD\meduser | Starting import. RayStation version 4.5.0.19 |
| 17 Jun 2015, 14:31:38 (hr:min:sec) | AD\meduser | DICOM import succeeded |
| 17 Jun 2015, 15:21:43 (hr:min:sec) | AD\meduser | Starting import. RayStation version 4.5.0.19 |
| 17 Jun 2015, 15:22:28 (hr:min:sec) | AD\meduser | DICOM import succeeded |
| 17 Jun 2015, 15:22:28 (hr:min:sec) | AD\meduser | Please note the following warnings / assumptions: |
| 17 Jun 2015, 15:22:28 (hr:min:sec) | AD\meduser | #1 Patient's Name differed from the current patient.<br><br>Name of current patient:<br>Lunge^Phantom<br><br>Mismatching names from imported data:<br>LUNGE^PHANTOM |