Table 1: Dose constraints applied to OARs

Organ at risk	Dose constraint
Spinal cord	$D_{0.05cm3}$< 45 Gy
PRV Spinal cord	$D_{0.05cm3}$< 50 Gy
Spinal canal	$D_{0.05cm3}$< 50 Gy
Lungs	Mean< 20 Gy
Lungs	V_{20Gy}< 35%
Oesophagus	D_{1cm3} < 70 Gy
Heart	D_{1cm3} < 74 Gy
Heart	V_{50Gy}< 20%
Trachea	D_{1cm3} < 74 Gy
Bronchi	D_{1cm3} < 74 Gy
Aorta	D_{1cm3} < 74 Gy
Connective tissue*	D_{1cm3} < 74 Gy
Thoracic wall	D_{1cm3} < 74 Gy
Plexus Brachialis	D_{1cm3} < 74 Gy

* delineated as all mediastinal tissue not otherwise defined as OAR. PRV is an abbreviation of planning risk volume.

Table 2: Dose parameters for selcted OARs for standard and dose-escalated treatment plans

Organ at risk	**Parameter**	**Standard plan (S)**	**Escalated plan (E)**	**E-S**	**p-value***
		Median (IQR)	**Median** (IQR)	**Median** (IQR)	
Lung	Mean [Gy]	13.7 (12.1-16.9)	13.9 (11.9-16.8)	-0.1(-0.4-0.21)	0.302
Heart	Mean [Gy]	7.2 (2.6-12.2)	7.6 (2.6-11.5)	-0.1(-0.3-0)	0.060
Heart	V_{50Gy} [%]	1.61 (0-4.8)	1.73 (0-5.4)	0(-0.2-0.2)	0.85
Heart	D_{1cm3} [Gy]	57.0(20.4-64.5)	57.9(20.1-66.2)	0.6(-0.1-2.3)	0.008
Oesophagus	V_{35Gy} [%]	26.6 (15.1-36.1)	24.9 (12.2-36.0)	0(-1.5-0.3)	0.195
Oesophagus	D1cc [Gy]	65.8 (60.4-66.6)	67.2 (59.6-68.5)	1.3(0-2.9)	0.0037
Bronchi	D_{1cm3} [Gy]	68.1 (67.3-68.9)	72.5 (69.6-73.3)	4.1(2.6-4.8)	<0.001
Connective tissue	D_{1cm3} [Gy]	67.6 (66.8-68.2)	71.0 (69.4-72.1)	3.4(2.8-4.3)	<0.001
Thoracic wall	D_{1cm3} [Gy]	66.7(66.2-67.4)	72.5(70.0-73.8)	5.8(3.6-7.1)	<0.001
Trachea	D_{1cm3} [Gy]	66.1(46.0-67.5)	67.8(42.5-70.8)	1.6(-0.3-4.0)	0.0152
Aorta	D_{1cm3} [Gy]	66.9 (62.2-67.9)	69.0(63.4-72.0)	3.6(2.0-4.6)	<0.001

* The p-values were calculated using Wilcoxon Signed Rank test. IQR is an abbreviation for interquartile ranges where the first to third quartile is used. E-S shows the median values of the difference between the escalated and standard plans for each patient.