

**Supplementary Table 4: Prescribed tumor doses and a summary of normal tissue dosimetry<sup>†</sup>.**

		Group 1 (N= 34)			Group 2 (N= 46)	Total (N=80)
		Cohort 1 – 65Gy (N= 12)	Cohort 2 – 68Gy (N= 12)	Cohort 3 – 71Gy (N= 10)		
<b>PTV</b>						
<b>Prescribed dose (Gy)</b>	Mean (SD)	66.5 (2.7)	69.3 (2.3)	71.2 (1.6)	67.0 (3.7)	67.8 (3.5)
	Median (range)	65.7 (63.0-72.9)	69.4 (64.6-72.7)	72.0 (68.0-72.9)	65.5 (63.0-73.0)	67.6 (63.0-73.0)
<b>Lungs-GTV</b>						
<b>V<sub>20Gy</sub> (%)</b>	Mean (SD)	26.0 (3.9)	27.3 (4.9)	25.0 (4.3)	27.4 (6.1)	26.9 (5.4)
	Median (range)	27.3 (19.1-32.4)	25.7 (18.9-35.0)	24.6 (19.4-32.8)	26.8 (14.1-46.4)	26.8 (14.1-46.4)
<b>V<sub>40Gy</sub> (%)</b>	Mean (SD)	16.7 (3.3)	16.2 (1.4)	14.5 (2.6)	16.7 (3.8)	16.4 (3.3)
	Median (range)	16.8 (11.5-22.5)	16.1 (14.2-19.6)	14.9 (8.4-17.7)	16.4 (6.0-25.7)	16.2 (6.0-25.7)
<b>V<sub>60Gy</sub> (%)</b>	Mean (SD)	8.6 (2.7)	6.8 (1.3)	7.8 (2.7)	7.5 (2.0)	7.6 (2.1)
	Median (range)	8.9 (4.4-12.0)	6.8 (4.3-9.0)	7.3 (3.2-12.7)	7.5 (2.9-11.3)	7.5 (2.9-12.7)
<b>Mean dose (Gy)</b>	Mean (SD)	16.9 (2.0)	16.3 (1.7)	15.8 (1.6)	17.2 (2.8)	16.9 (2.4)
	Median (range)	17.1 (12.5-20.6)	16.5 (13.3-19.1)	15.8 (13.0-18.8)	17.6 (9.4-24.3)	17.1 (9.4-24.3)
<b>EQD<sub>2mean</sub> (Gy)</b>	Mean (SD)	14.8 (1.9)	14.1 (1.1)	13.8 (1.4)	14.9 (2.3)	14.6 (2.1)
	Median (range)	15.2 (10.7-18.8)	14.4 (11.7-15.5)	13.9 (11.0-15.6)	15.6 (7.9-21.2)	14.9 (7.9-21.2)
<b>Oesophagus</b>						
<b>D<sub>0.1cc</sub> (Gy)</b>	Mean (SD)	66.5 (1.3)	69.3 (1.0)	72.3 (0.7)	57.8 (13.8)	62.7 (12.0)
	Median (range)	66.1 (65.3-70.1)	69.0 (68.4-71.5)	72.1 (71.5-73.6)	63.7 (16.3-69.5)	65.9 (16.3-73.6)
<b>D<sub>1.0cc</sub> (Gy)</b>	Mean (SD)	65.0 (0.0)	68.0 (0.0)	71.0 (0.0)	54.9 (15.6)	60.4 (13.5)

	Median (range)	65.0 (64.9-65.0)	68.0 (68.0-68.0)	71.0 (71.0-71.1)	62.5 (14.2-68.0)	65.0 (14.2-71.1)
<b>V<sub>20Gy</sub> (%)</b>	Mean (SD)	49.4 (12.9)	43.4 (6.5)	52.3 (10.3)	41.3 (14.6)	44.2 (13.4)
	Median (range)	49.6 (22.6-69.8)	42.0 (31.7-57.5)	50.2 (38.9-71.3)	43.7 (0.0-63.6)	44.6 (0.0-71.3)
<b>V<sub>40Gy</sub> (%)</b>	Mean (SD)	33.7 (12.4)	33.1 (8.3)	39.4 (11.7)	25.5 (17.4)	29.6 (15.6)
	Median (range)	34.9 (9.7-50.5)	33.2 (20.2-47.0)	42.0 (22.7-59.9)	26.5 (0.0-59.3)	30.8 (0.0-59.9)
<b>V<sub>60Gy</sub> (%)</b>	Mean (SD)	18.4 (9.5)	20.9 (8.8)	24.8 (8.5)	13.1 (13.1)	16.6 (12.2)
	Median (range)	20.5 (5.2-31.3)	21.2 (7.5-34.3)	25.3 (13.4-37.0)	10.3 (0.0-50.0)	16.2 (0.0-50.0)
<b>Mean dose (Gy)</b>	Mean (SD)	25.8 (6.9)	24.8 (4.5)	30.1 (5.8)	21.6 (8.4)	23.8 (7.9)
	Median (range)	26.9 (11.7-34.9)	25.3 (16.5-31.1)	30.0 (20.9-38.3)	21.5 (4.7-39.2)	24.1 (4.7-39.2)
<b>Heart</b>						
<b>V<sub>20Gy</sub> (%)</b>	Mean (SD)	15.3 (12.0)	14.9 (14.8)	15.0 (15.4)	23.0 (16.5)	19.7 (15.8)
	Median (range)	12.1 (0.7-38.6)	12.4 (0.4-51.7)	11.1 (0.2-48.8)	21.7 (0.0-62.3)	16.9 (0.0-62.3)
<b>V<sub>40Gy</sub> (%)</b>	Mean (SD)	7.8 (6.6)	8.0 (10.8)	7.6 (8.7)	11.7 (9.4)	10.0 (9.2)
	Median (range)	6.7 (0.0-21.4)	5.4 (0.0-38.0)	5.3 (0.0-27.2)	11.1 (0.0-42.8)	7.6 (0.0-42.8)
<b>V<sub>60Gy</sub> (%)</b>	Mean (SD)	2.8 (2.8)	3.6 (5.8)	2.6 (3.6)	5.0 (4.8)	4.2 (4.6)
	Median (range)	2.3 (0.0-7.6)	1.7 (0.0-20.2)	1.3 (0.0-11.5)	3.5 (0.0-20.7)	2.8 (0.0-20.7)
<b>D<sub>100%</sub> (Gy)</b>	Mean (SD)	0.4 (0.2)	0.3 (0.2)	0.3 (0.4)	0.6 (0.7)	0.5 (0.6)
	Median (range)	0.3 (0.1-0.9)	0.3 (0.0-0.7)	0.3 (0.0-1.1)	0.5 (0.0-3.3)	0.3 (0.0-3.3)
<b>D<sub>67%</sub> (Gy)</b>	Mean (SD)	2.1 (1.4)	1.8 (2.3)	2.7 (3.2)	4.2 (4.9)	3.4 (4.1)
	Median (range)	1.5 (0.8-5.7)	1.2 (0.4-8.9)	1.5 (0.5-9.7)	2.5 (0.3-18.9)	1.7 (0.3-18.9)
<b>D<sub>33%</sub> (Gy)</b>	Mean (SD)	7.8 (8.4)	9.6 (12.1)	8.2 (9.7)	13.1 (12.1)	11.2 (11.4)
	Median (range)	4.3 (1.9-25.7)	6.3 (1.1-43.9)	4.4 (1.1-31.3)	8.6 (0.6-50.7)	6.1 (0.6-50.7)
<b>Mean dose (Gy)</b>	Mean (SD)	9.8 (5.7)	9.4 (7.9)	9.3 (7.6)	13.5 (8.0)	11.8 (7.8)

	Median (range)	9.2 (2.8-21.0)	8.5 (1.4-29.3)	7.6 (2.0-25.5)	13.5 (0.5-32.3)	10.7 (0.5-32.3)
<b>Brachial Plexus*</b>						
<b>D<sub>0.1cc</sub> (Gy)</b>	Mean (SD)	35.9 (26.1)	21.5 (29.2)	42.1 (30.2)	21.7 (25.0)	26.2 (27.0)
	Median (range)	39.9 (0.6-66.4)	3.0 (0.8-72.9)	62.0 (2.1-69.0)	4.7 (0.4-65.4)	9.9 (0.4-72.9)
<b>D<sub>1.0cc</sub> (Gy)</b>	Mean (SD)	30.0 (24.9)	12.3 (21.5)	34.2 (26.2)	18.1 (22.2)	20.9 (23.6)
	Median (range)	29.0 (0.6-59.9)	2.7 (0.8-71.9)	33.7 (1.8-65.7)	4.3 (0.4-64.0)	5.1 (0.4-71.9)
<b>D<sub>30%</sub> (Gy)</b>	Mean (SD)	26.2 (23.6)	12.5 (21.0)	27.1 (23.0)	12.9 (17.6)	16.5 (20.3)
	Median (range)	20.9 (0.5-57.0)	2.3 (0.6-67.4)	22.9 (1.3-64.1)	3.5 (0.3-62.2)	3.9 (0.3-67.4)
<b>V<sub>20Gy</sub> (%)</b>	Mean (SD)	43.5 (45.8)	13.6 (24.6)	42.3 (36.8)	17.6 (27.8)	23.8 (33.3)
	Median (range)	27.7 (0.0-100.0)	0.0 (0.0-78.0)	45.7 (0.0-97.0)	0.0 (0.0-92.6)	0.0 (0.0-100.0)
<b>V<sub>40Gy</sub> (%)</b>	Mean (SD)	25.8 (33.7)	8.8 (18.9)	19.3 (25.5)	7.9 (18.1)	12.1 (22.7)
	Median (range)	4.0 (0.0-99.7)	0.0 (0.0-61.3)	5.7 (0.0-73.0)	0.0 (0.0-74.7)	0.0 (0.0-99.7)
<b>V<sub>60Gy</sub> (%)</b>	Mean (SD)	2.3 (4.5)	4.8 (13.2)	7.9 (15.8)	2.8 (8.9)	3.6 (10.1)
	Median (range)	0.0 (0.0-14.6)	0.0 (0.0-45.5)	1.0 (0.0-47.5)	0.0 (0.0-50.2)	0.0 (0.0-50.2)
<b>Spinal Cord</b>						
<b>D<sub>0.1cc</sub> (Gy)</b>	Mean (SD)	38.6 (8.1)	37.4 (9.0)	42.4 (5.1)	31.9 (10.2)	35.0 (9.9)
	Median (range)	41.0 (17.0-47.0)	41.3 (18.3-47.0)	45.0 (33.3-47.0)	35.1 (3.4-46.4)	37.7 (3.4-47.0)
<b>D<sub>1.0cc</sub> (Gy)</b>	Mean (SD)	34.9 (7.5)	34.8 (8.0)	39.2 (5.0)	30.0 (10.2)	32.5 (9.5)
	Median (range)	37.2 (16.6-42.5)	37.7 (17.4-43.3)	40.2 (32.1-44.4)	33.6 (3.1-45.4)	35.9 (3.1-45.4)

† Data not available for 4 patients (1 x Group 1, 3 x Group 2), a further 2 patients had no Brachial Plexus data (1 x Group 1, 1 x Group 2)

\* 6 patients received brachial plexus doses outside of the trial constraints. 4 were within tolerance before online central review. 1 occurred before the study mandated brachial plexus constraints. 1 was accepted as a minor protocol deviation.