

ADDITIONAL FILE 2:

Detailed DVH results table: Organ at risk and target volume DVH percentage dose difference separated by individual parameters for male and female cohorts. Note: Some structure parameters are not included as sample size is too small for individual analysis.

OAR DVH parameter	Cohort	Median (% dose difference)	Inter-quartile range	Wilcoxon signed-rank test p-value
PTV High D10%	Female	-0.6	-0.4 to -1.0	<0.05
PTV High D2%	Female	-0.6	-0.4 to -1.0	<0.05
	Male	-0.5	-2.1 to -6.3	<0.05
PTV High D95%	Female	-0.6	-0.1 to -0.8	0.07
	Male	-0.3	-0.1 to -0.6	<0.05
PTV Low D2%	Female	-0.6	-0.3 to -1.1	<0.05
	Male	-0.4	-0.2 to -0.6	<0.05
PTV Low D95%	Female	-0.4	0.1 to -0.9	0.61
	Male	-0.3	0.1 to -0.6	<0.05
GTV D95%	Female	-0.8	0.1 to -1.0	<0.05
	Male	-0.4	-0.2 to -0.6	<0.05
CTV High D95%	Female	-0.8	-0.4 to -1.0	<0.05
	Male	-0.4	-0.2 to -0.8	<0.05
CTV Low D95%	Female	-0.4	-0.2 to -0.9	<0.05
	Male	-0.3	-0.1 to -0.6	<0.05
Small Bowel D2%	Female	-0.3	0.2 to -0.9	0.06
	Male	-0.4	0.1 to -0.8	0.09
Small Bowel D20%	Female	0.0	0.3 to -1.2	0.72
	Male	-0.5	0.0 to -1.1	<0.05
Small Bowel D25%	Female	-0.6	0.2 to -1.4	<0.05
Bladder D20%	Female	-0.6	0.2 to -0.9	0.06
	Male	-0.1	0.2 to -0.9	0.19
Bladder D40%	Male	-0.1	0.2 to -0.3	0.24
Bladder D35%	Female	-0.8	-0.5 to -1.2	<0.05
RT NOF D25%	Female	-0.8	0.5 to -1.0	<0.05
	Male	0.0	0.7 to -0.4	0.67
LT NOF D25%	Female	-0.1	0.4 to -0.6	0.90
	Male	0.0	1.1 to -0.5	0.58
Rectum D20%	Female	-0.4	0.6 to -1.1	0.13
Rectum D60%	Female	0.1	0.6 to -0.5	0.87

PTV High = Planning target volume higher prescribed dose, PTV Low = Planning target volume lower prescribed dose, GTV= Gross tumour volume, CTV High = Clinical target volume higher prescribed dose, CTV Low = Clinical target volume lower prescribed dose, RT NOF = Right neck of femur, LT NOF = Left neck of femur