

Clinical goals

Structure	Goal	Priority
GTV _{boost}	V101.5% > 100%	1
PTV _{elective}	V95 ≥ 98%	1
PTV _{boost}	V95 ≥ 98%	1
	V58.85 Gy ≤ 2 cm ³	1
	Dmax < 110%	1
	Dmean > 100%	1
PTV _{elective} - PTV _{boost}	V107% ≤ 1 cm ³	1
PTV _{elective} – (PTV _{boost} + 0.7 cm)	V107% ≤ 1 cm ³	2
Bowel small	V55 Gy ≤ 3 cm ³	2
Rectum	V55 Gy ≤ 12 cm ³	2
	V50 Gy ≤ 15%	2
Rectum – PTV _{elective}	V40 Gy ≤ 1 cm ³	2
	V30 Gy ≤ 6 cm ³	2
	V15 Gy ≤ 19 cm ³	3
Sigmoid	V55 Gy ≤ 12 cm ³	2
Bowel bag – PTV _{elective}	V40 Gy ≤ 25 cm ³	2
	V32.5 Gy ≤ 60 cm ³	2
	V25 Gy ≤ 150 cm ³	2
	V15 Gy ≤ 300 cm ³	3
Femur heads	D2 cm ³ ≤ 42 Gy	3

Additional file 3 : Representation of the template with prioritized planning directives used to constraint treatment plans. The exact values of the clinical goals were patient-specific.