



MIM® 7.2.9

Name:

ID:

Date of Birth:

Plan Name:

Prescription Dose:

Structure Name	Criteria	Achieved
PTV_50.4		
	V5040cGy > 95 % (-5 %)	94.49 %
Stomach		
	Dmax < 5300 cGy	5257.16
	V4500cGy < 25 %	5.38 %
Duodenum		
	Dmax < 5300 cGy	5276.25
Colon		
	V4500cGy < 25 %	4.11 %
	Dmax < 5300 cGy (+43 cGy)	5300.64
Bowel_Small		
	Dmax < 5300 cGy	5301.96
	V4500cGy < 25 %	2.22 %
SpinalCord_PRV05		
	Dmax < 4500 cGy	3156.01
SpinalCord		
	Dmax < 4300 cGy	3007.1
Liver		
	Dmean < 2800 cGy	777.84
	V3000cGy < 30 %	2.44 %
Kidneys		
	V1800cGy < 10 %	9.28 %
Kidney_R		
	V1500cGy < 25 %	17.23 %
Kidney_L		
	V1500cGy < 25 %	17.51 %



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**1M1ADT20** : ATS (From Segments) from 1M1 (1~ABDOMEN).

Optimization Time: 8.5min. (concluded early)

Isocenter Shift (cm.): x:-0.54 ,y: -0.28 ,z: -0.35 (Internal Coordinates)

Rescale: 0.9989

### **IMRT Constraints Changes:**

#### **CHANGED Constraints (index)**

**PTV\_50.4** Target Penalty isoconstraint 5040.00 (0) --> 5100.00 (0)

**PTV\_50.4** Quadratic Overdose isoconstraint 15.00 (1) --> 20.00 (1)

**PTV\_50.4** Maximum Dose isoconstraint 5450.00 (2) --> 5520.00 (2)

**Stomach** Maximum Dose isoconstraint 5250.00 (0) --> 5200.00 (0)

**External** Quadratic Overdose isoconstraint 15.00 (3) --> 25.00 (3)

**Colon** Maximum Dose isoconstraint 5300.00 (0) --> 5230.00 (0)

**Bowel\_Small** Maximum Dose isoconstraint 5250.00 (0) --> 5230.00 (0)

**Duodenum** Maximum Dose isoconstraint 5280.00 (0) --> 5180.00 (0)



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Adaptive Plan Optimization Mode:		Constrained									
Structure Name	Type	Enabled	Manual	Weight	Reference Dose	Multicriteria	Power	Shrink Margin	Isoconstraint	Isoeffect	Relative Impact
PTV_50.4	Target Penalty 98%	On		1.00					5100.0	0.0	
	Quadratic Overdose	On		1.62	5300.0				20.0	0.0	
	Maximum Dose	On		0.02					5520.0	0.0	
Kidney_R	Overdose DVH	On		0.01	1500.0			PTV_50.4 : 0.0	20.0	0.0	
	Overdose DVH	On		7.40	1800.0			PTV_50.4 : 0.0	10.0	0.0	
Kidney_L	Overdose DVH	On		0.01	1500.0			PTV_50.4 : 0.0 OAR : 0.0	23.0	0.0	
	Parallel	On		0.20	100.0		4.0	PTV_50.4 : 0.5 OAR : 0.0	15.0	0.0	
SpinalCord	Quadratic Overdose	On		0.01	4200.0			PTV_50.4 : 0.0 OAR : 0.0	5.0	0.0	
Stomach	Maximum Dose	On		0.79					5200.0	0.0	
	Quadratic Overdose	On		0.01	4500.0			PTV_50.4 : 1.0 OAR : 0.0	5.0	0.0	
External	Quadratic Overdose	On		0.07	5040.0			PTV_50.4 : 0.3 OAR : 0.0	5.0	0.0	
	Quadratic Overdose	On		0.01	5200.0			PTV_50.4 : 0.0 OAR : 0.0	5.0	0.0	
	Quadratic Overdose	On		0.18	4000.0			PTV_50.4 : 2.0 OAR : 0.0	5.0	0.0	
	Quadratic Overdose	On		0.01	3000.0			PTV_50.4 : 3.5 OAR : 0.0	25.0	0.0	
Colon	Maximum Dose	On		0.20					5230.0	0.0	
Bowel_Small	Maximum Dose	On		0.70					5230.0	0.0	
Duodenum	Maximum Dose	On		10.17					5180.0	0.0	



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Reference Plan Optimization Mode		Constrained									
Structure Name	Type	Enabled	Manual	Weight	Reference Dose	Multicriteria	Power	Shrink Margin	Isoconstraint	Isoeffect	Relative Impact
PTV_50.4	Target Penalty 98%	On		1.00					5040.0	0.0	
	Quadratic Overdose	On		0.38	5300.0				15.0	0.0	
	Maximum Dose	On		0.02					5450.0	0.0	
Kidney_R	Overdose DVH	On		0.01	1500.0			PTV_50.4 : 0.0	20.0	0.0	
	Overdose DVH	On		0.01	1800.0			PTV_50.4 : 0.0	10.0	0.0	
Kidney_L	Overdose DVH	On		0.01	1500.0			PTV_50.4 : 0.0 OAR : 0.0	23.0	0.0	
	Parallel	On		0.03	100.0		4.0	PTV_50.4 : 0.5 OAR : 0.0	15.0	0.0	
SpinalCord	Quadratic Overdose	On		0.01	4200.0			PTV_50.4 : 0.0 OAR : 0.0	5.0	0.0	
Stomach	Maximum Dose	On		0.01					5250.0	0.0	
	Quadratic Overdose	On		0.01	4500.0			PTV_50.4 : 1.0 OAR : 0.0	5.0	0.0	
External	Quadratic Overdose	On		0.01	5040.0			PTV_50.4 : 0.3 OAR : 0.0	5.0	0.0	
	Quadratic Overdose	On		0.01	5200.0			PTV_50.4 : 0.0 OAR : 0.0	5.0	0.0	
	Quadratic Overdose	On		0.01	4000.0			PTV_50.4 : 2.0 OAR : 0.0	5.0	0.0	
	Quadratic Overdose	On		0.14	3000.0			PTV_50.4 : 3.5 OAR : 0.0	15.0	0.0	
Colon	Maximum Dose	On		0.01					5300.0	0.0	
Bowel_Small	Maximum Dose	On		0.13					5250.0	0.0	
Duodenum	Maximum Dose	On		1.93					5280.0	0.0	