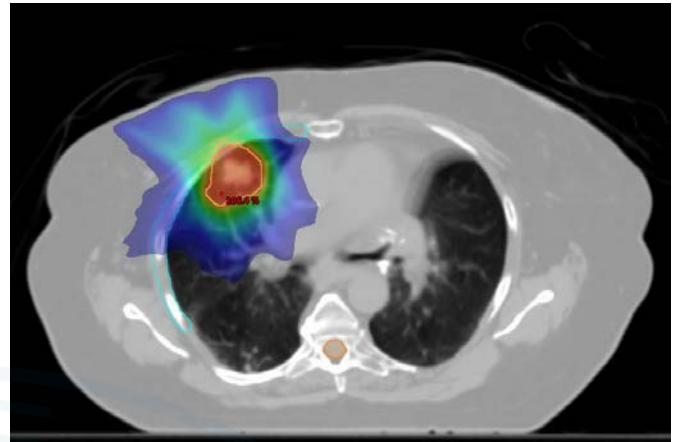


SBRT Right Lung – UC San Diego

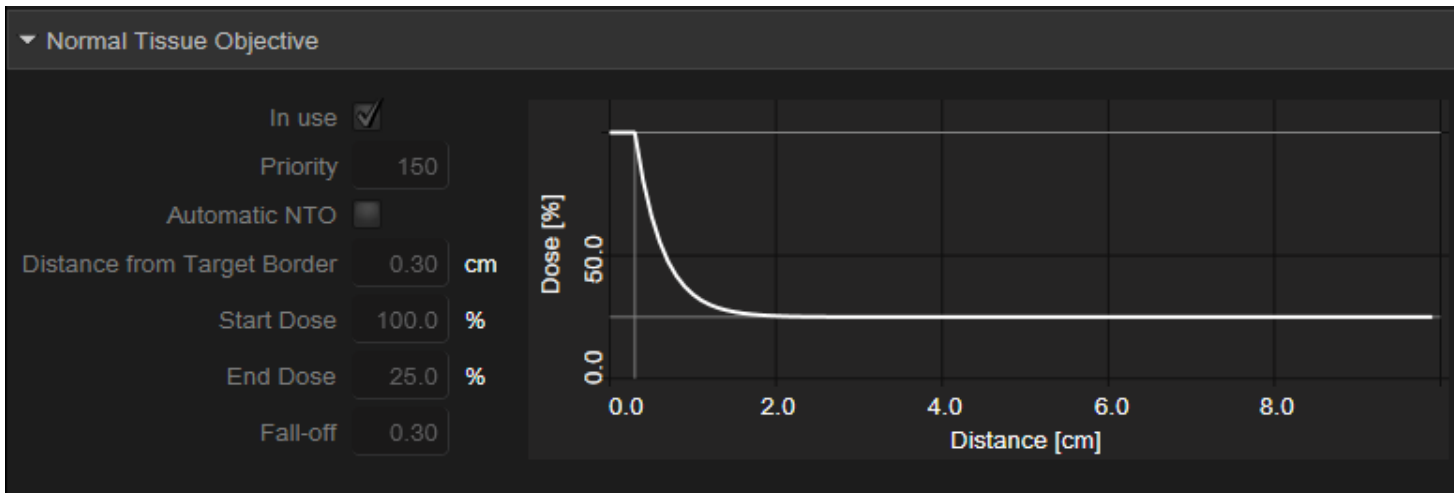
Version	Published
1	November 29, 2016



Training Set Description		
Number of training plans		49
Number of VMAT arcs		2
ITV – PTV margin		5mm
Number of cases in OAR DVH model*	Chest Wall	45
	Cord	47
	Esophagus	35
	Heart	40
	Lung LT	48
	Lung RT	46
	Ribs	33
	Skin	21
	Total Lung	48
	* Not enough Brachial Plexus, Bronchial Tree, Great Vessels, and Proximal Trachea for estimated DVH training	

Model Structure	Code	Objective	Volume (%)	Dose (% or Gy)	Priority
ITV	ITV	Lower	100%	100%	100
PTV	PTV_High	Upper	0%	120%	100
		Lower	100%	98%	150
		Lower	98%	100%	150
Brachial Plexus	5906	Upper	0%	50%	80
Bronchial Tree	26660	Upper	0%	65%	150
Chest Wall	50060	Upper Line	0% Generated	50% Generated	80 Generated
Cord	7647	Upper	0%	20%	80
Esophagus	7131	Upper Line	0% Generated	35% Generated	60 Generated
Great Vessels	GreatVessels	Upper Line	0% Generated	50% Generated	60 Generated
Heart	7088	Upper	1%	50%	90
		Upper Line	0% Generated	57% Generated	200 Generated
Lung LT	7310	Line	Generated	Generated	Generated
Lung RT	7309	Upper Line	Generated Generated	50% Generated	100 Generated
Ribs	71331	Upper Line	0% Generated	50% Generated	50 Generated
Skin	7163	Upper Line	0% Generated	50% Generated	80 Generated
Total Lung	68877	Line	Generated	Generated	Generated
Trachea	7394	Upper	0%	70%	50

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Notes:

- Standard arc arrangements were 2-3 “half” arcs on the right side (arcs sometimes subtended more than 180 degrees, i.e. crossing midline when it wouldn't pass proximally through the heart)
- Skin contour in training set is 5mm rind inside of body
- There is some variability in the target prescriptions amongst the training set, but the autoplanning routine is designed around a 100% dose to 95% of the PTV volume
- Most common refinement post-RapidPlan was an increase of the Priority of an overlapping OAR (e.g. Chest wall in peripheral lesions)

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