

MACHINE LEARNING PLANNING MODEL



RSL-LUNG-4800-SBRT*

MODEL OVERVIEW

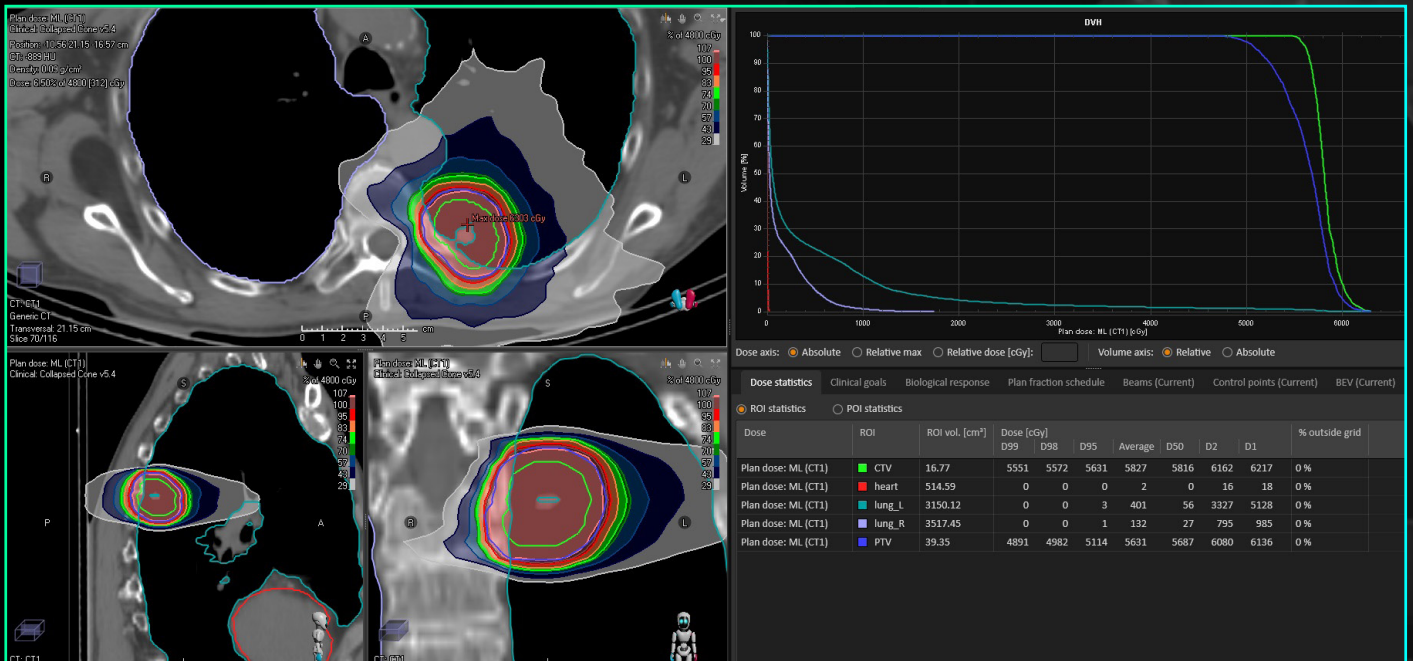
Model name	RSL-LUNG-4800-SBRT
Model type	Automated Planning
Model algorithm	Random Forest
Model originator	RaySearch Laboratories
Body site	Lung
Targets	Primary tumor
Modality	Photon
Treatment techniques	Validated for VMAT
Prescribed dose [cGy]	4800 cGy
Dose per fraction [cGy]	1200 cGy

OAR	Clinical goals
Spinal Canal	14.0 Gy < 0.03 cc, 10.0 Gy < 0.35 cc, 7.0 Gy < 1.2 cc
Esophagus	15.4 Gy < 0.03 cc, 11.9 Gy < 5 cc
Brachial Plexus	17.5 Gy < 0.03 cc, 14.0 Gy < 3 cc
Heart	22.0 Gy < 0.03 cc, 16.0 Gy < 15 cc
Trachea	20.2 Gy < 0.03 cc, 10.5 Gy < 4 cc
Bronchus	20.2 Gy < 0.03 cc, 10.5 Gy < 4 cc
Lung	7.4 Gy < 1000 cc, 7.0 Gy < 1500 cc

MODEL INFORMATION

The model was validated on 10 patients, planned with VMAT for the RTOG 0915 protocol (arm 2, 4 x 12 Gy). More validation details can be found in the validation report. RaySearch will help you to adapt and commission the model to your photon lung protocols.

Validation patient example



*Subject to regulatory clearance in some markets.