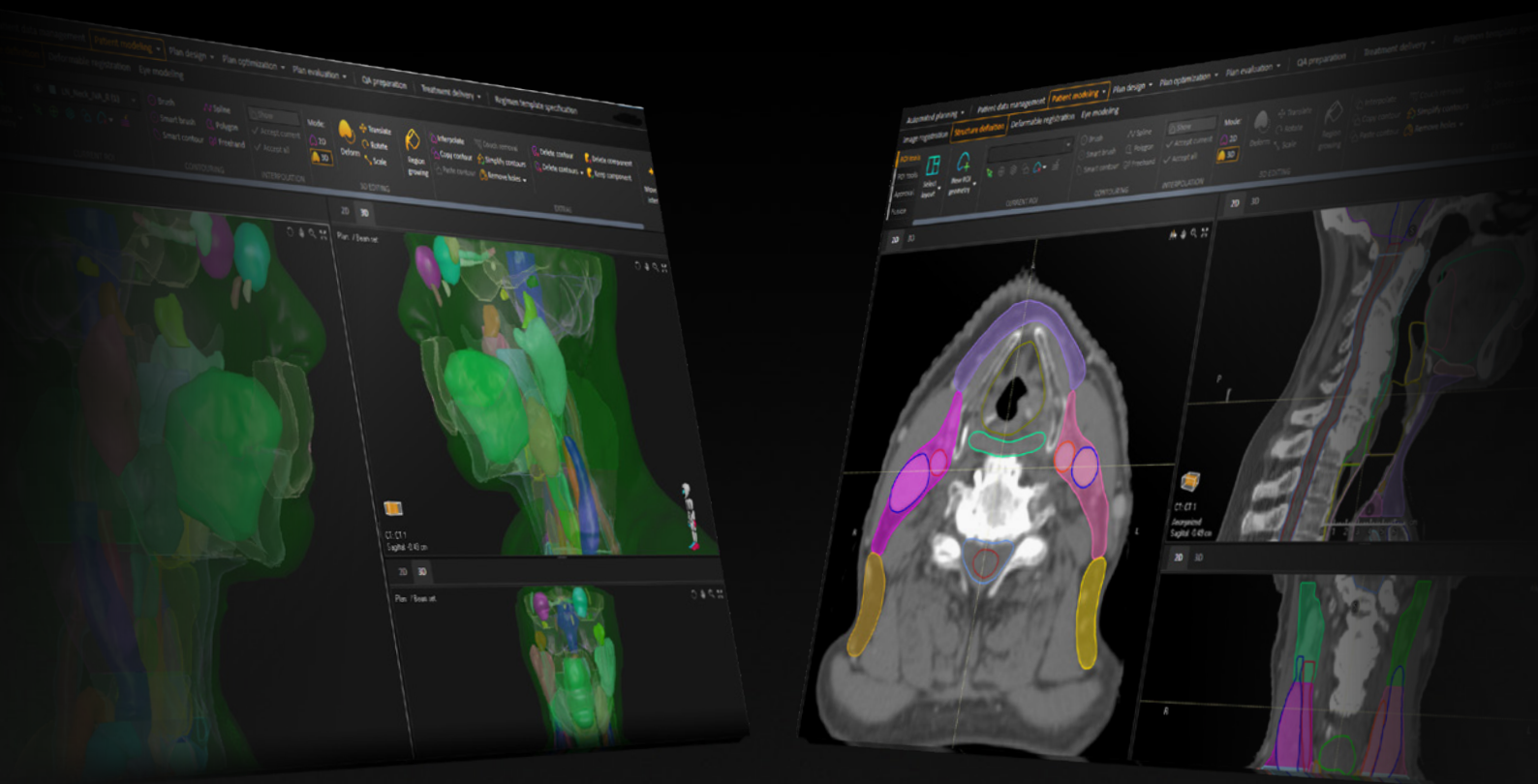




DEEP LEARNING SEGMENTATION MODELS

Deep learning capabilities in RayStation®* help make image segmentation quicker and more consistent. A high-speed GPU-powered algorithm is capable of producing consistent segmentation results using guideline-based segmentation models that have been trained and evaluated on curated data for different body sites.

*Subject to regulatory clearance in some markets.



HEAD AND NECK (OAR) CT

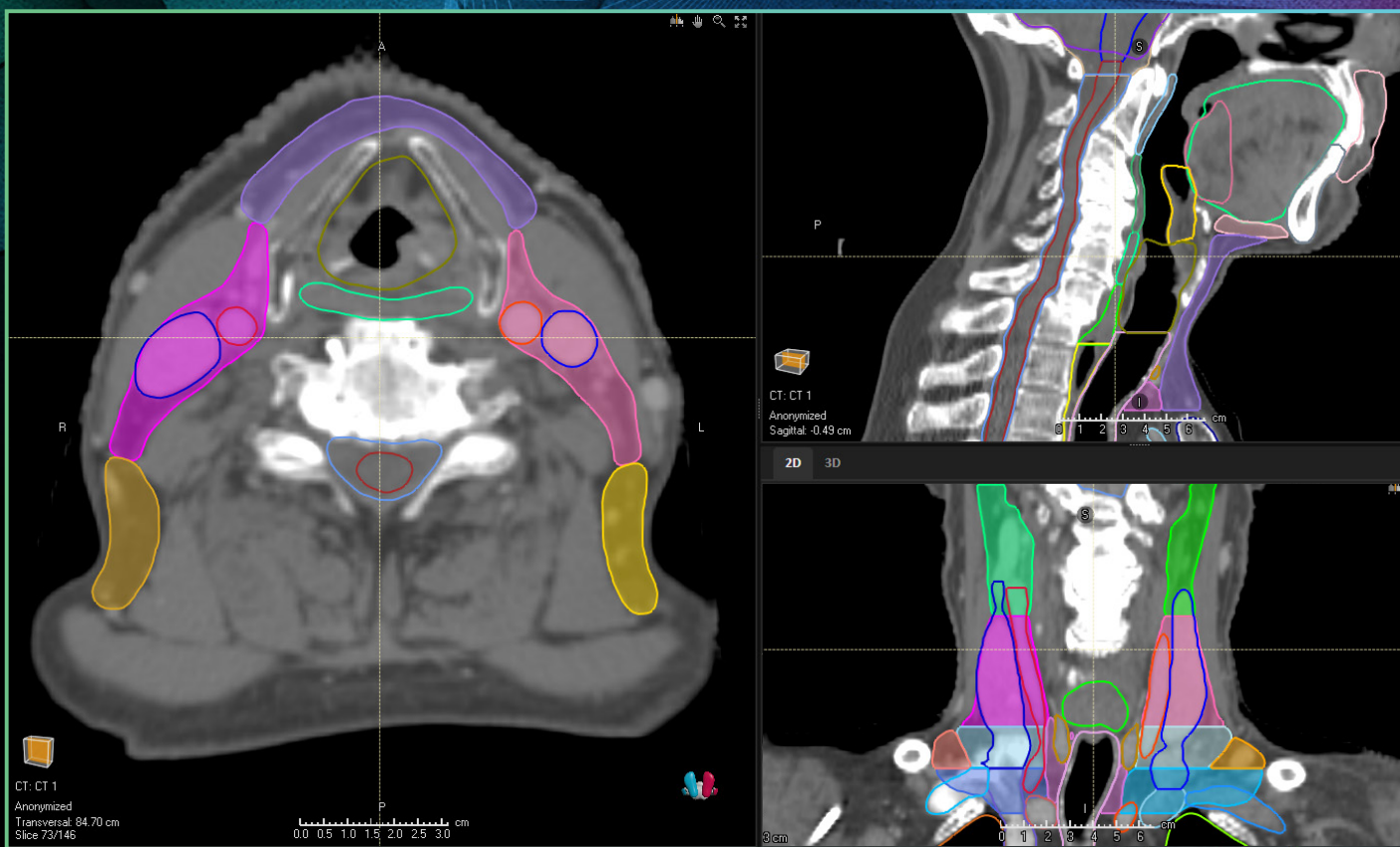


STRUCTURES

Bone_Mandible	Larynx_SG
Brain	Lens_L
Brainstem	Lens_R
Cavity_Oral	Lips
Cochlea_L	Musc_Constrict_I
Cochlea_R	Musc_Constrict_M
Cricopharyngeus	Musc_Constrict_S
Eye_L	Nasolacrimal_Duct_L
Eye_R	Nasolacrimal_Duct_R
Fossa_Posterior	OpticChiasm
GlnD_Lacrimal_L	OpticNrv_L
GlnD_Lacrimal_R	OpticNrv_R
GlnD_Submand_L	Parotid_L
GlnD_Submand_R	Parotid_R
Glottis	Pituitary
Joint_TM_L	SpinalCord
Joint_TM_R	Tongue_Base

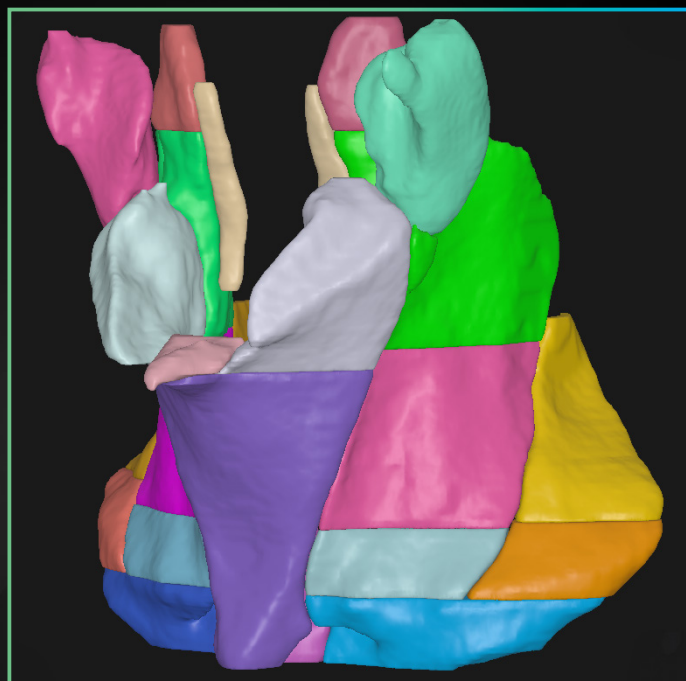


HEAD AND NECK (LYMPH NODE LEVELS) CT

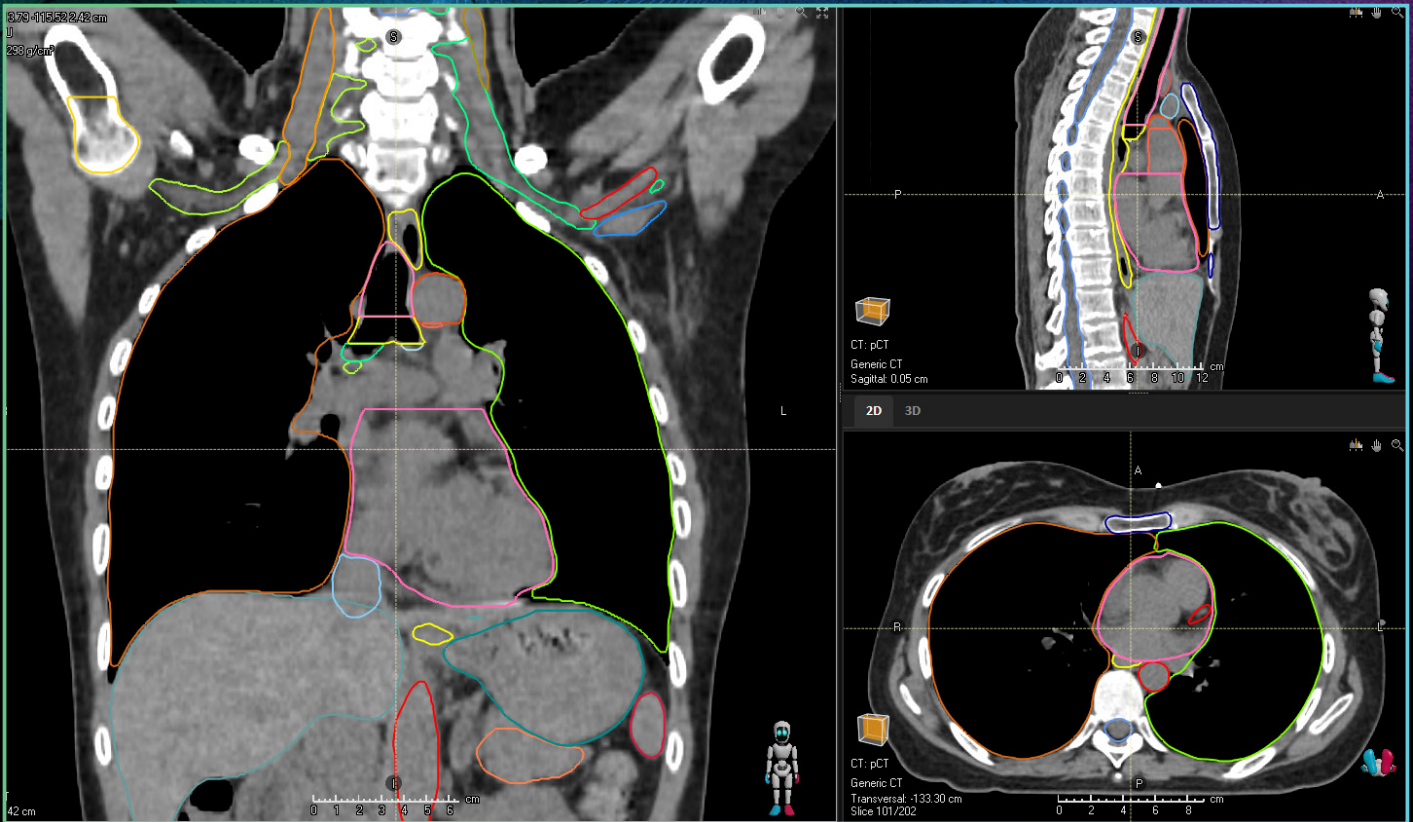


STRUCTURES

LN_Neck_IA	LN_Neck_VAB_L
LN_Neck_IB_L	LN_Neck_VAB_R
LN_Neck_IB_R	LN_Neck_VC_L
LN_Neck_II_L	LN_Neck_VC_R
LN_Neck_II_R	LN_Neck_VIA
LN_Neck_III_L	LN_Neck_VIB
LN_Neck_III_R	LN_Neck_VIIA_L
LN_Neck_IVA_L	LN_Neck_VIIA_R
LN_Neck_IVA_R	LN_Neck_VIIB_L
LN_Neck_IVB_L	LN_Neck_VIIB_R
LN_Neck_IVB_R	



THORAX/ABDOMEN CT

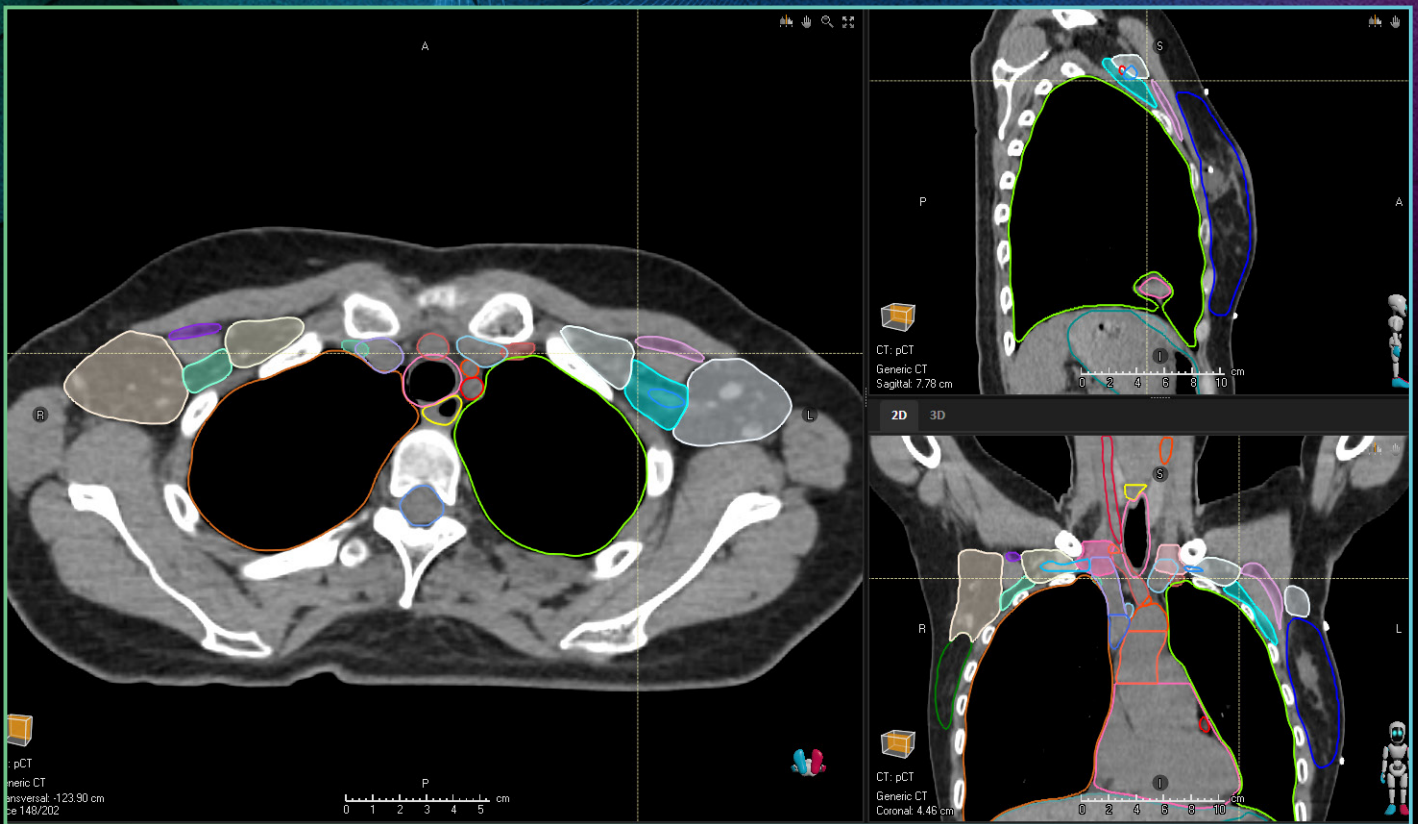


STRUCTURES

A_LAD	Kidney_R
BrachialPlex_L	Liver
BrachialPlex_R	Lung_L
Bronchus_InterM	Lung_R
Bronchus_Main_L	Musc_Scalene_Ant_L(BrachialPlex_proxy)
Bronchus_Main_R	Musc_Scalene_Ant_R(BrachialPlex_proxy)
Carina	Musc_Scalene_Med_L(BrachialPlex_proxy)
Esophagus	Musc_Scalene_Med_R(BrachialPlex_proxy)
GlnD_Thyroid	Pancreas
Heart	SpinalCanal
Heart_Inferior_Left_PA	Spleen
Humeral_Head_L	Sternum
Humeral_Head_R	Stomach
Kidney_L	Trachea



BREAST CT



STRUCTURES

Breast_L

Breast_R

LN_Ax_L1_L

LN_Ax_L1_R

LN_Ax_L2_L

LN_Ax_L2_R

LN_Ax_L3_L

LN_Ax_L3_R

LN_Sclav_L

LN_Sclav_R

LN_Ax_Pectoral_L

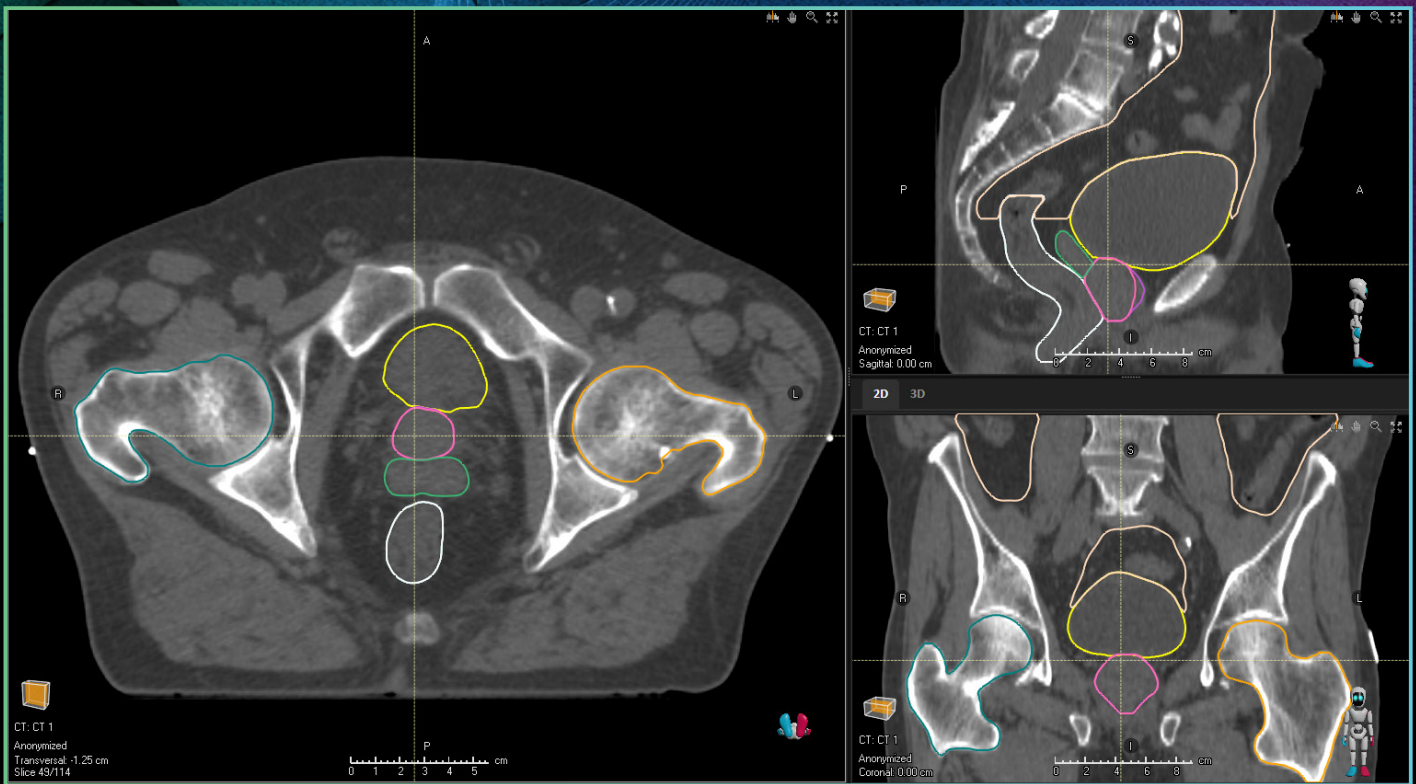
LN_Ax_Pectoral_R

LN_IMN_L

LN_IMN_R



MALE PELVIC CT



STRUCTURES

Anorectum

Bladder

Femur_Head_L

Femur_Head_R

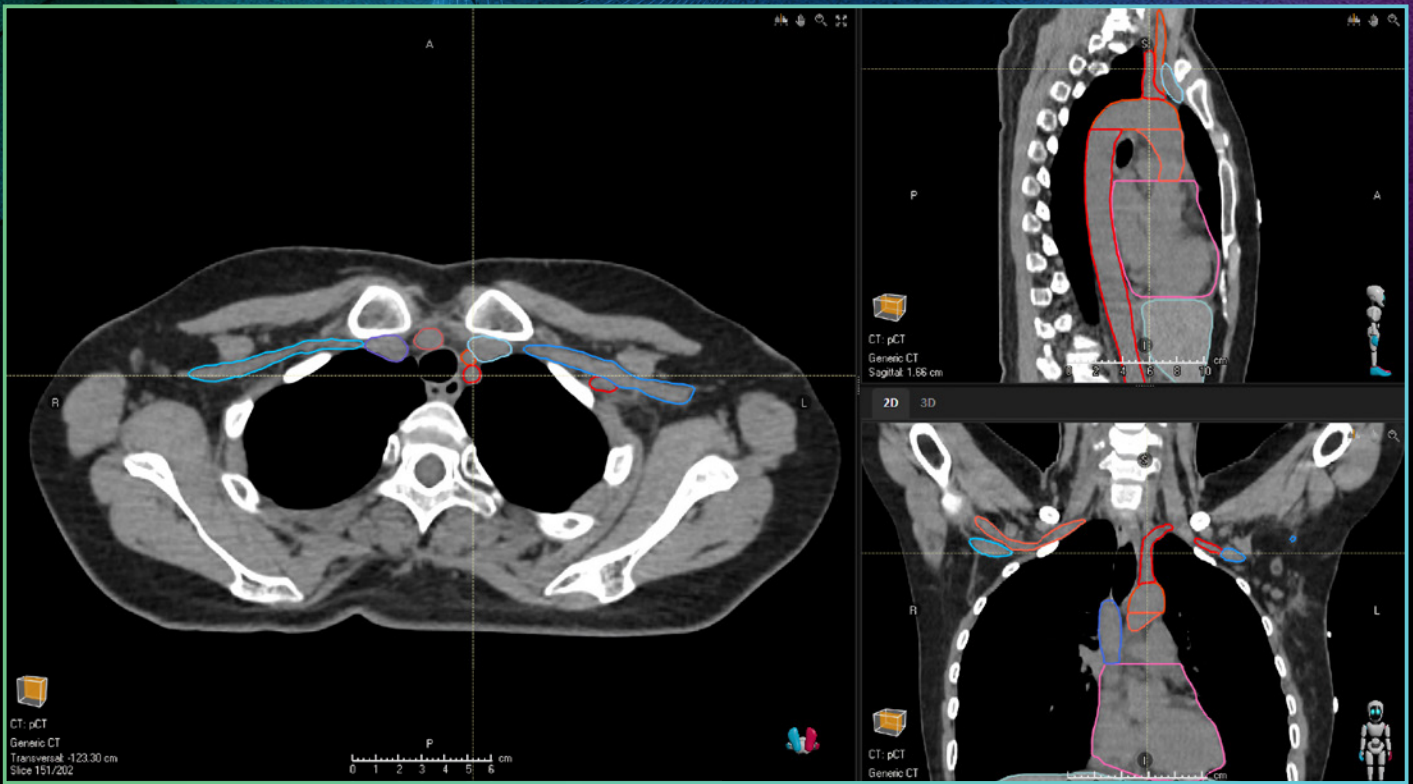
Prostate

Prostate_minus_VenousPlexus

SeminalVes

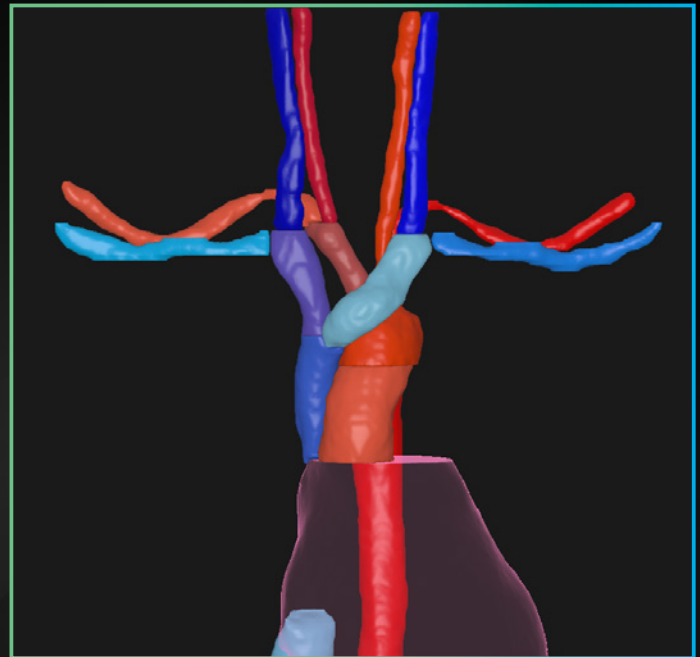


VESSELS CT



STRUCTURES

A_Aorta_Arc	V_Brachioceph_L
A_Aorta_Asc	V_Brachioceph_R
A_Aorta_Desc	V_Jugular_Int_L
A_Brachiocephls	V_Jugular_Int_R
A_Carotid_L	V_Subclavian_L
A_Carotid_R	V_Subclavian_R
A_Subclavian_L	V_Venacava_I
A_Subclavian_R	V_Venacava_S



CONTOURING GUIDELINES



REGION OF INTEREST

REFERENCES

Anorectum	Mir [1], Gay [13], Nyholm [14]
A_LAD	Mir [1], Feng [9], Duane [10]
Bladder	Mir [1], Gay [13]
Bone_Mandible *	Mir [1], Brouwer [2]
BrachialPlex_L /R	Hall [17], Kong [8], AAMD [18]
Brain	Mir [1], Brouwer [2], Eekers [3]
Brainstem	Mir [1], Brouwer [2], Eekers [3], Scoccianti [4]
Breast_L/R *	Mir [1], Offersen [11]
Bronchus_InterM *	Mir [1], Kong [8]
Bronchus_Main_L /R *	Mir [1], Kong [8]
Cavity_Oral	Mir [1], Brouwer [2]
Cochlea_L /R *	Mir [1], Brouwer [2], Eekers [3], Scoccianti [4]
Cricopharyngeus	Mir [1], Christianen [7]
Esophagus	Mir [1], Kong [8]
Eye_L/R	Mir [1], Brouwer [2]
Femur_Head_L /R	Mir [1], Gay [13]
Fossa_Posterior*	Anatomical structure
GlnD_Lacrimal_L /R	Mir [1], Brouwer [2], Eekers [3], Scoccianti [4], Freedman [5]
GlnD_Submand_L /R	Mir [1], van de Water [6]
GlnD_Thyroid	Mir [1], Brouwer [2]
Glottis *	Mir [1], Brouwer [2], Christianen [7]
Heart	Mir [1], Feng [9]
Heart_Inferior_Left_PA *	Mir [1], Feng [9]
LN_Neck_IA- LN_Neck_VIIB	Grégoire [16]
Humeral_Head_L /R	Anatomical structure
Joint_TM_L /R	Anatomical structure
Kidney_L /R	Mir [1], Jabbour [12]
Larynx_SG *	Mir [1], Brouwer [2], Christianen [7]

*Internal contouring protocols were derived from published consensus guidelines, the model data sheet describes some modifications and specifications to certain ROIs.

REGION OF INTEREST

REFERENCES

Lens_L/R	Mir [1], Eekers [3], Scoccianti [4]
Lips	Mir [1], Brouwer [2]
Liver*	Mir [1], Jabbour [12]
LN_Ax_L1- LN_Ax_L3*	Offersen [11]
LN_Sclav_L/R	Offersen [11]
LN_Ax_Pectoral_L/R	Offersen [11]
LN_IMN_L/R*	Offersen [11]
Lung_L/R	Mir [1], Kong [8]
Musc_Constrict_S/M/I*	Mir [1], 2011 Christianen [7]
Musc_Scalene_Ant_L/R (BrachialPlex_proxy)	Hall [17], Kong [8], AAMD [18]
Musc_Scalene_Med_L/R (BrachialPlex_proxy)	Hall [17], Kong [8], AAMD [18]
OpticNrv_L/R	Mir [1], Brouwer [2], Eekers [3]
Pancreas	Mir [1], Jabbour [12]
Parotid_L/R	Mir [1], van de Water [6]
Pituitary*	Mir [1], Brouwer [2], Eekers [3], Scoccianti [4]
Prostate*	Salembier [15]
Prostate_minus_VenousPlexus*	Salembier [15]
SeminalVes*	Gay [13]
Spc_Bowel*	Mir [1], Gay [13]
SpinalCanal*	Mir [1], Kong [8]
SpinalCord*	Mir [1], Brouwer [2]
Spleen	Mir [1]
Sternum	Anatomical structure
Stomach	Mir [1], Jabbour [12]
Tongue_Base	Christianen [7]
Trachea*	Mir [1]
Vessels*	Anatomical structures*

*Internal contouring protocols were derived from published consensus guidelines, the model data sheet describes some modifications and specifications to certain ROIs.

CONTOURING GUIDELINES



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