

**Anterior Coverage
Post 1/3 of Max Sinus
Nasal Cavity**

CTV_{59.4}

**Pterygoid Fossae
Parapharyngeal Fat**

RLN

GTV

**Retropharyngeal
Lymph Nodal Region**

T2

**Skull Base
Clivus
Sphenoid Sinus**

Target Delineation For Head and Neck Cancer

Nasopharyngeal and Oropharyngeal CA

Nancy Lee, M.D.
Department of Radiation Oncology
Memorial Sloan-Kettering Cancer Center

Delineation of the Gross Target Volume or GTV

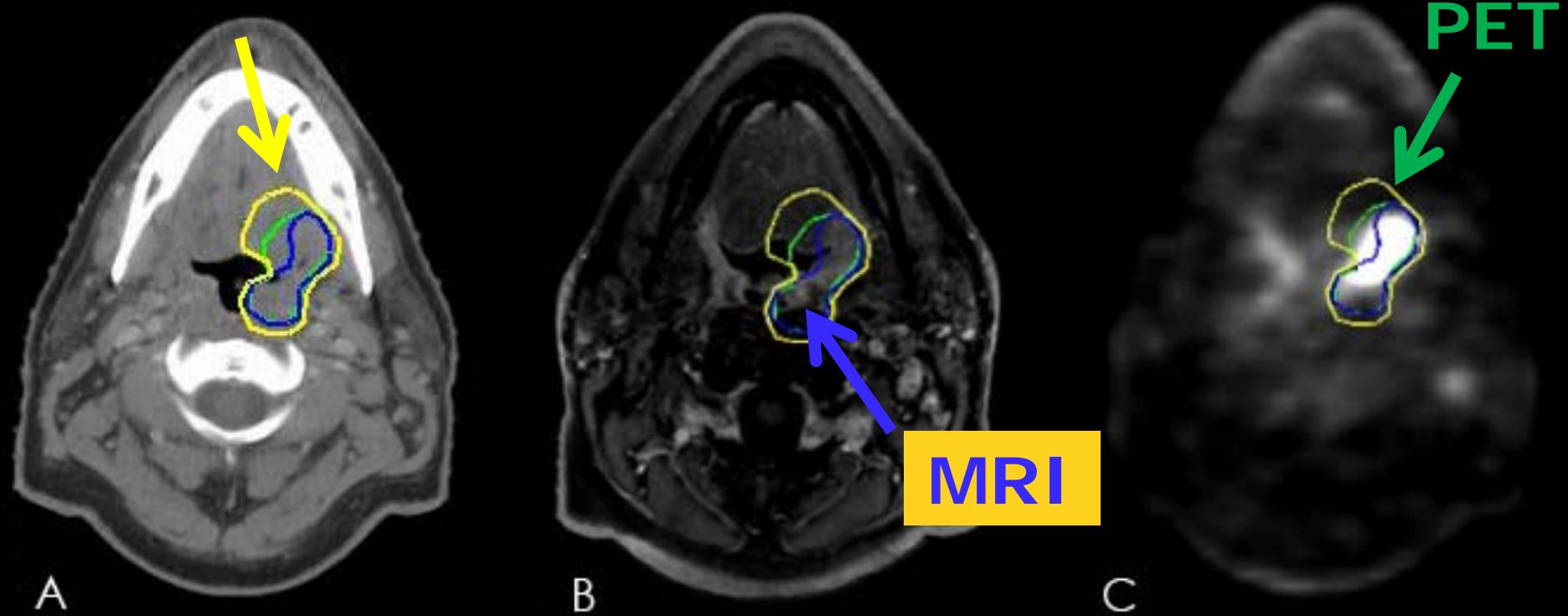
Two Issues

- Issue of Using IV contrast?
 - Contrast Density: ? Dose Calculation
 - Amount of contrast needs adjustment?
 - At MSKCC, routine use of IV contrast at simulation
- How about Image Fusion?
 - MRI: Head & Neck don't match
 - PET: What is the right window level?

CT vs. MRI vs. PET volume

Thiagarajan A. et al. ASTRO 2010

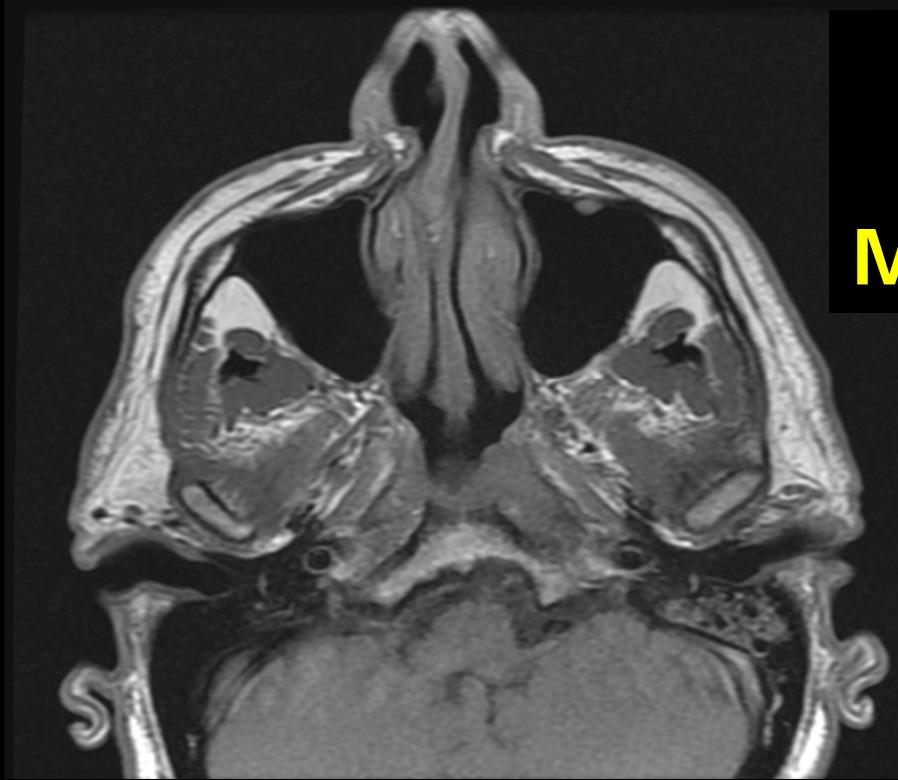
Final GTV



Importance of Physical Examination

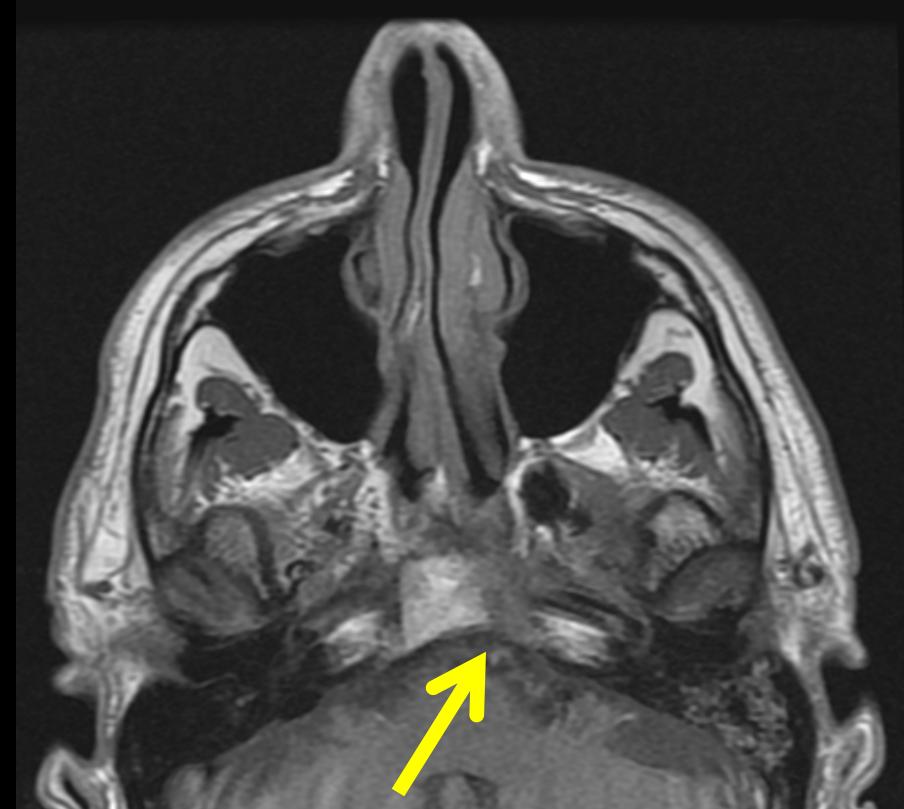
Added Value of MRI:

Particularly for the skull base



All NPC patients
Need MRI unless
Medically Contrainicated

T1 weighted Image
Without Contrast



T1 disease changed to T3 disease

Current MSKCC Dose Painting Guidelines

Gross Disease

PTV₇₀: 70 Gy over 33 Days (2.12 Gy)

High Risk Subclinical

PTV_{59.4}: 59.4 Gy over 33 Days (1.8 Gy)

Lower Risk Subclinical PTV₅₄

54 Gy over 33 Days(1.64 Gy)

GTV₇₀ to PTV₇₀

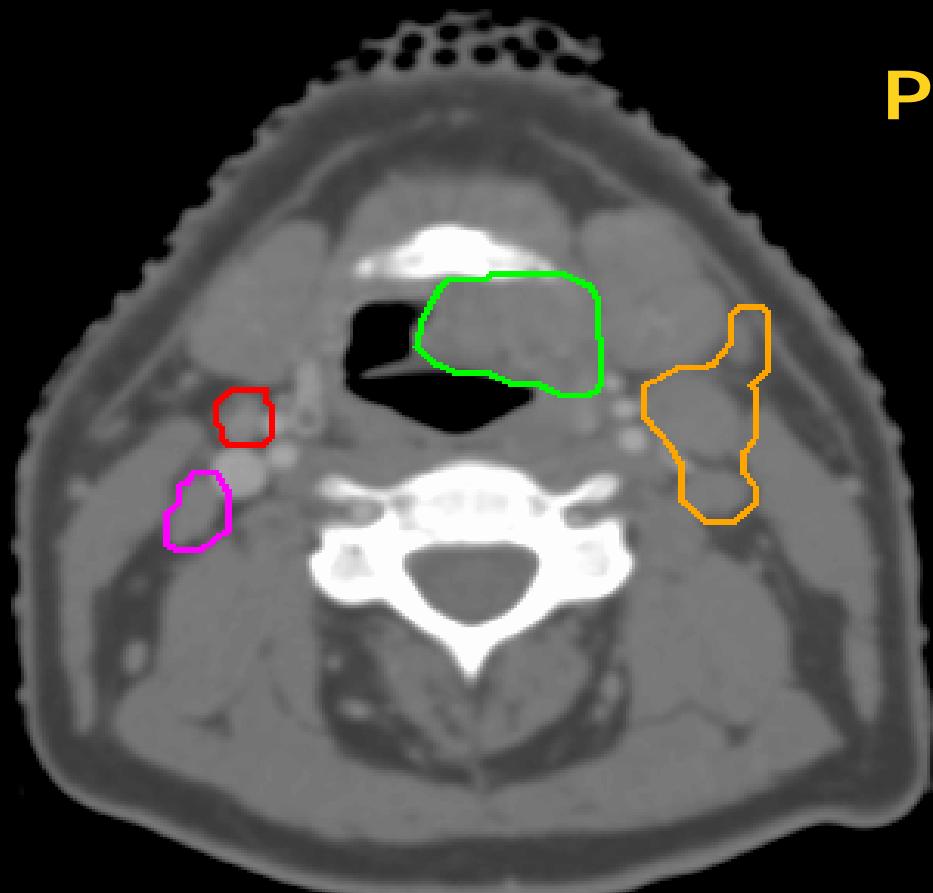
GTV: Gross tumor based on imaging, PE

GTV is also known as CTV₇₀

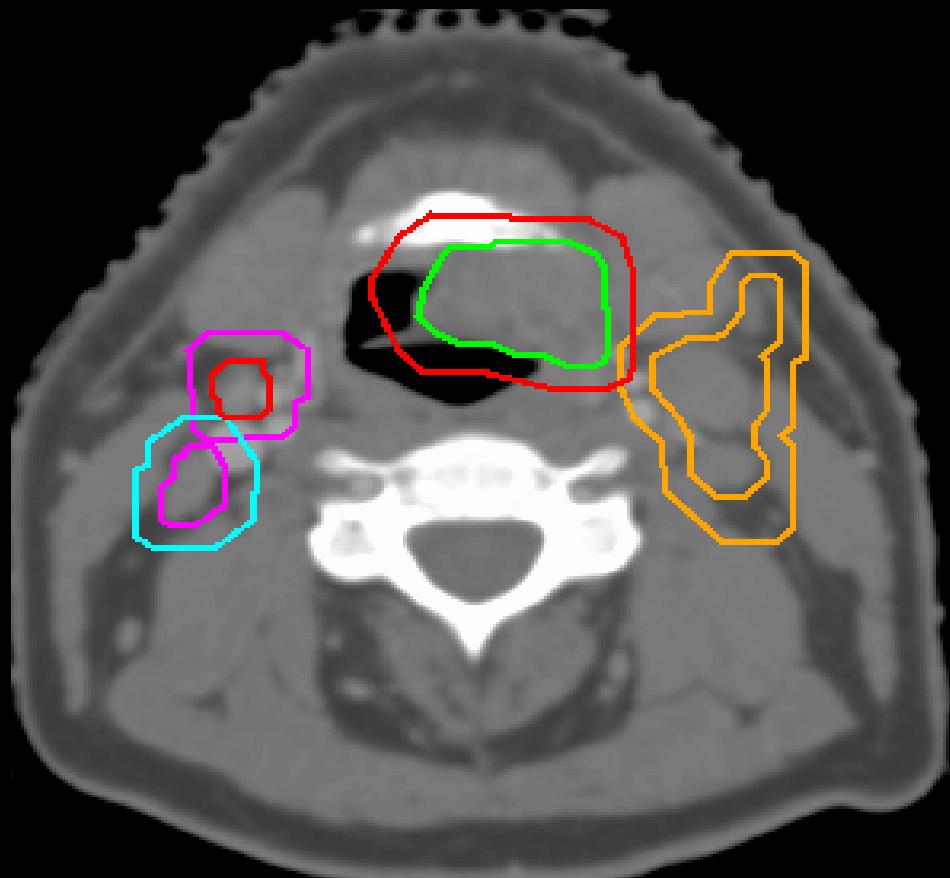
PTV₇₀: GTV + 3-5mm (based on you comfort level)

Primary and nodal GTV₇₀

PTV₇₀: GTV₇₀ + 3mm Margin



T2N2C BOT



IMRT **Head and Neck Cancer** **CTV Delineation**



Knowledge of Patterns of Spread
RTOG, EORTC, DAHANCA

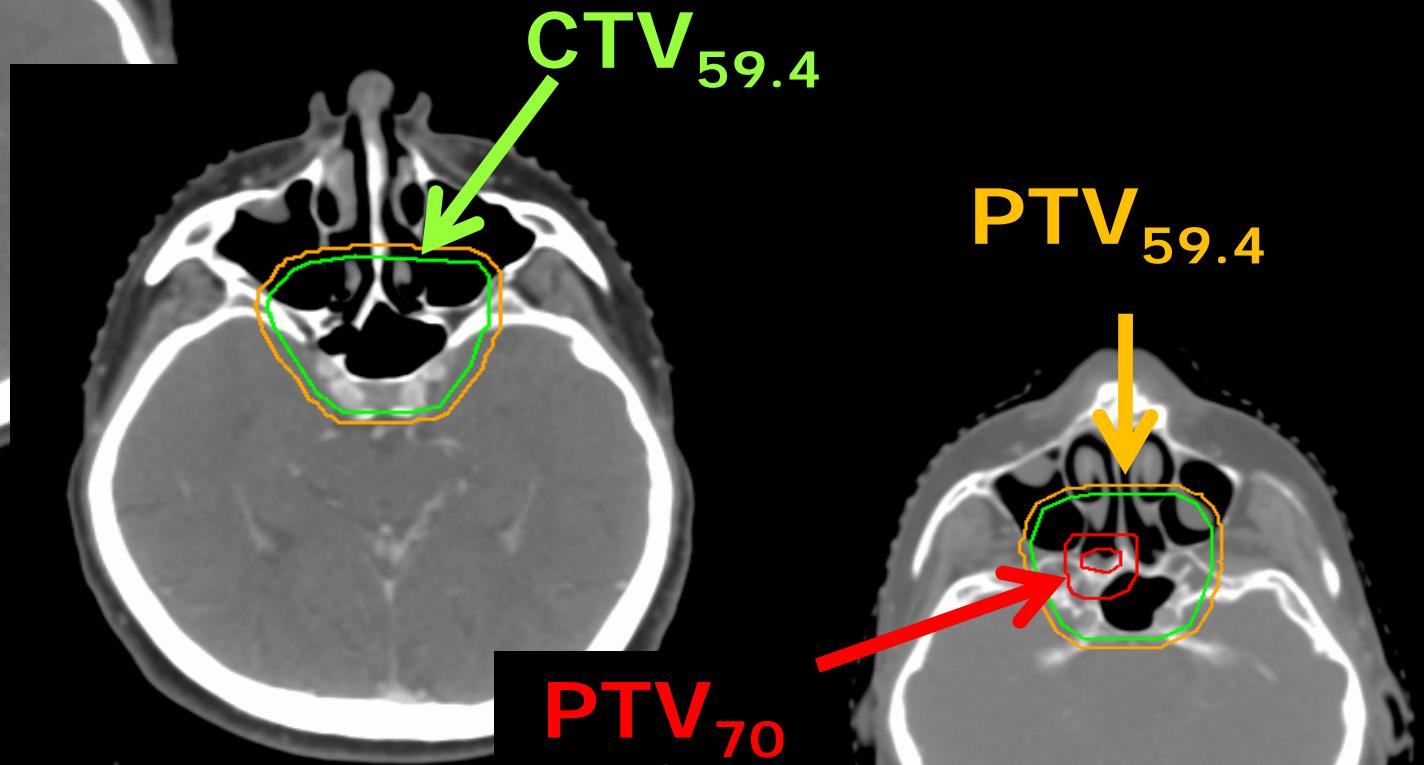
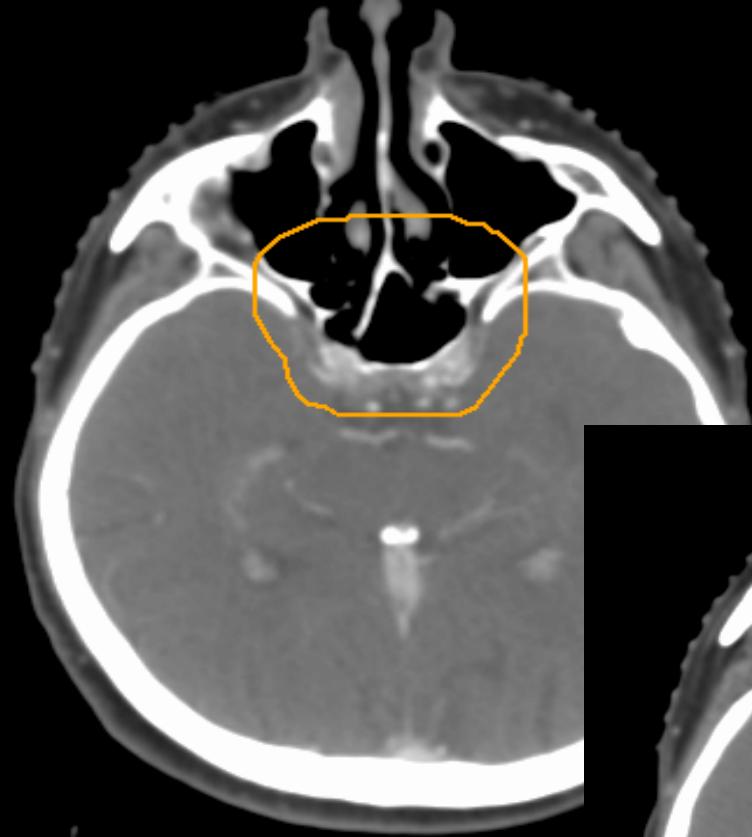
**NO and non-surgically violated neck nodal
atlas: www.rtog.org**

No Other Consensus

Nasopharynx(Primary): CTV_{59.4} Delineation

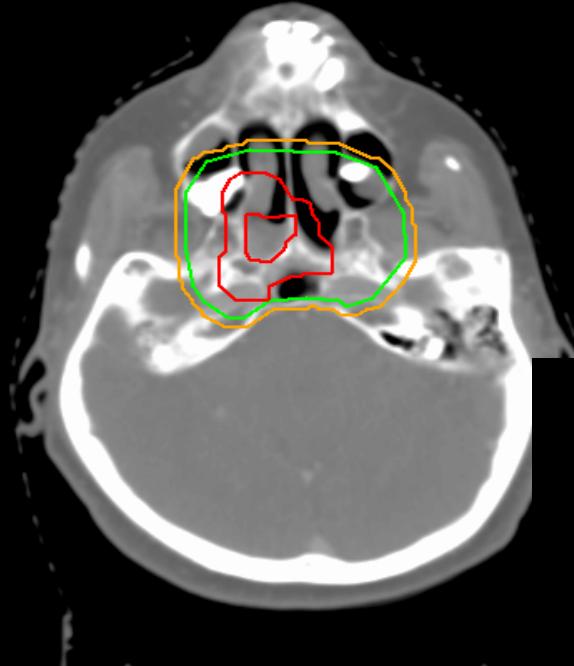
- Sphenoid Sinus
- Cavernous Sinus
- Skull base
- Clivus
- posterior 1/3 maxillary sinus(**pterygopalatne fossae where 2 resides**)
- Posterior 1/3 of nasal cavity
- parapharyngeal space(**where 3 resides**)
- retropharyngeal space
- Inferiorly Soft Palate

Coverage of Sphenoid Sinus, Cavernous Sinus

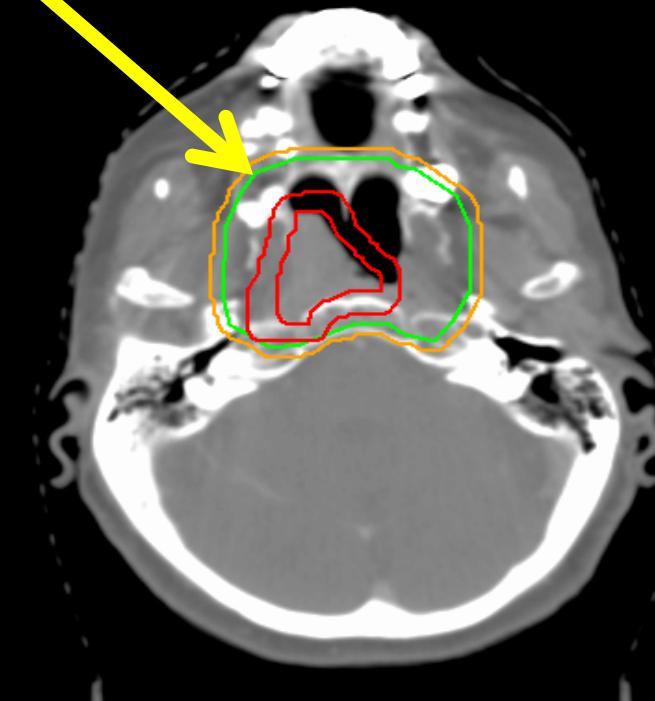
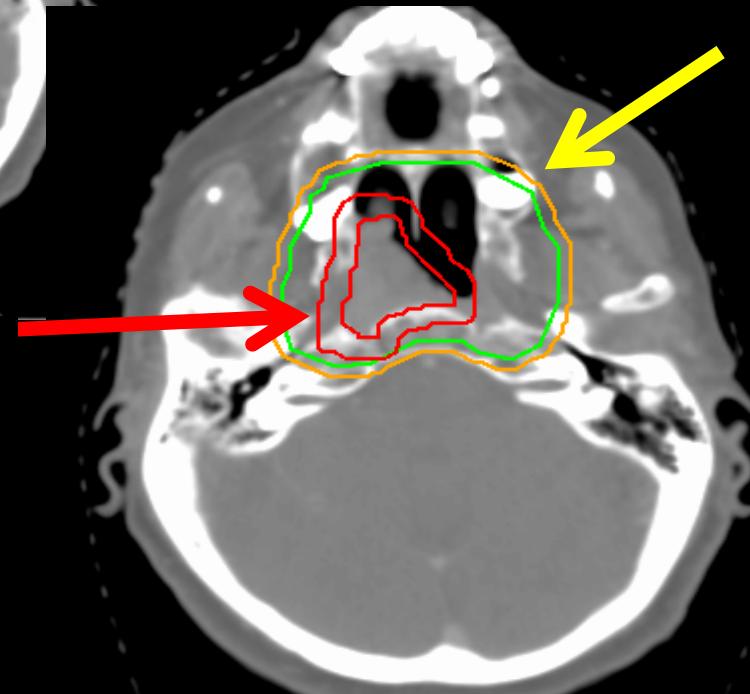


$$CTV_{59.4} + 3\text{mm} = PTV_{59.4}$$

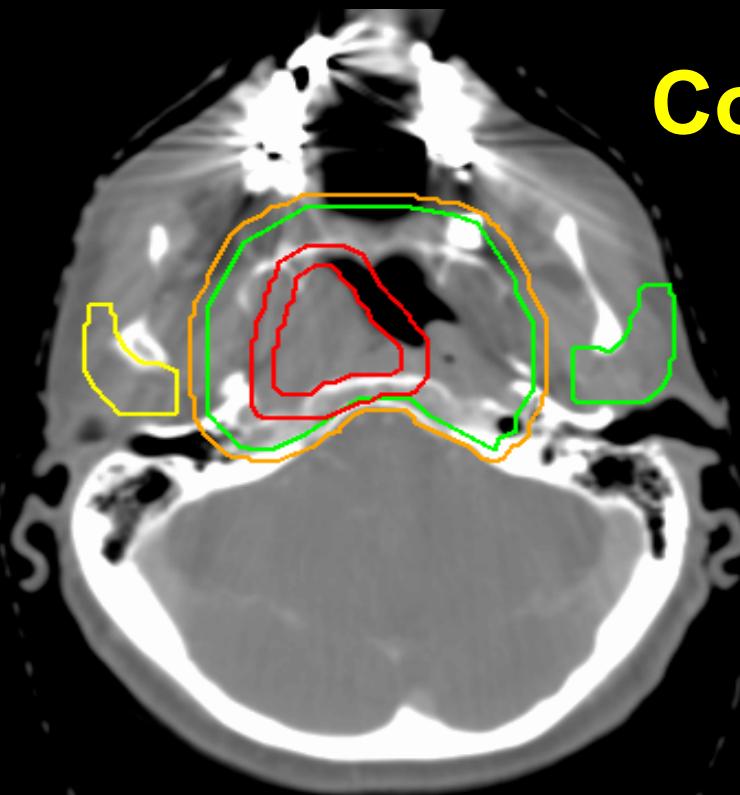
Coverage of Skull base Pterygopalatine Fossae



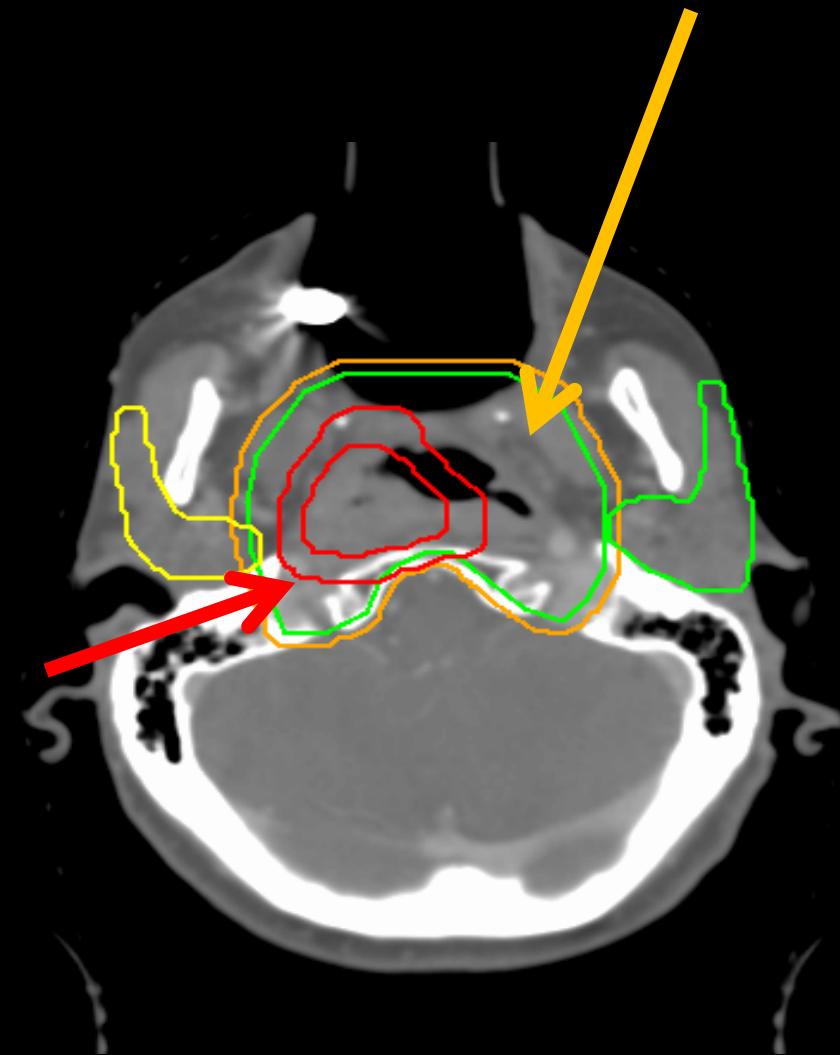
PTV₇₀



Coverage of Parapharyngeal Fat



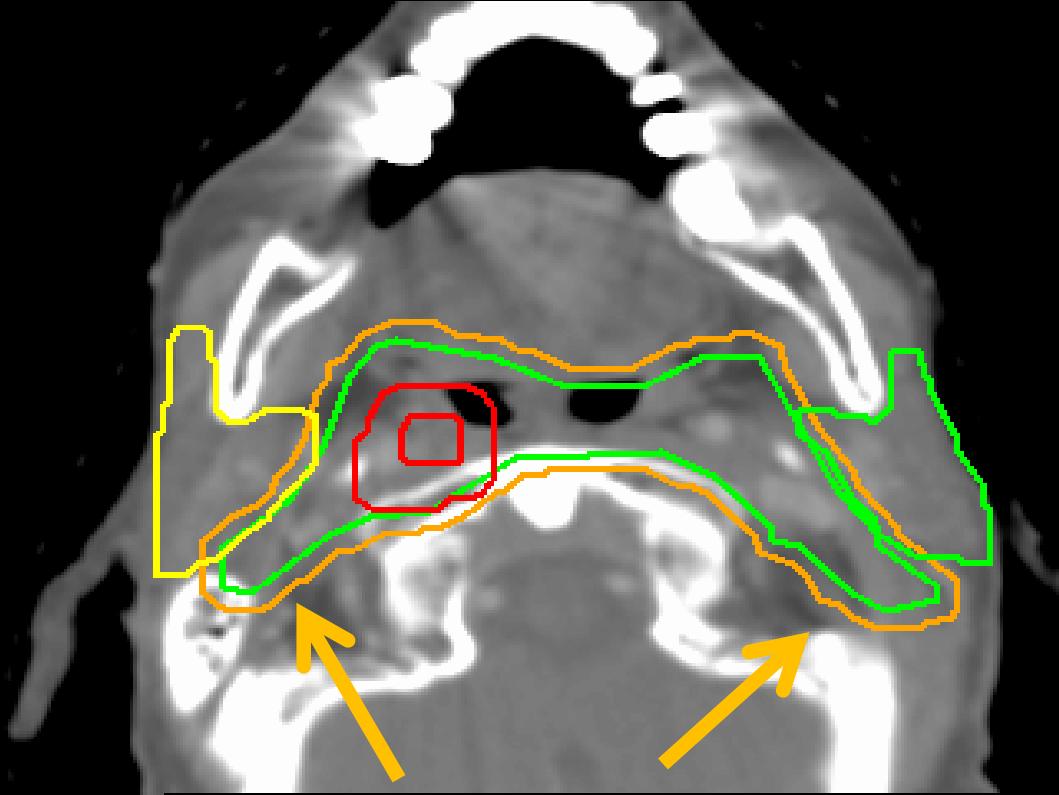
PTV_{70}



Nasopharynx(Nodal): CTV_{59.4} Delineation

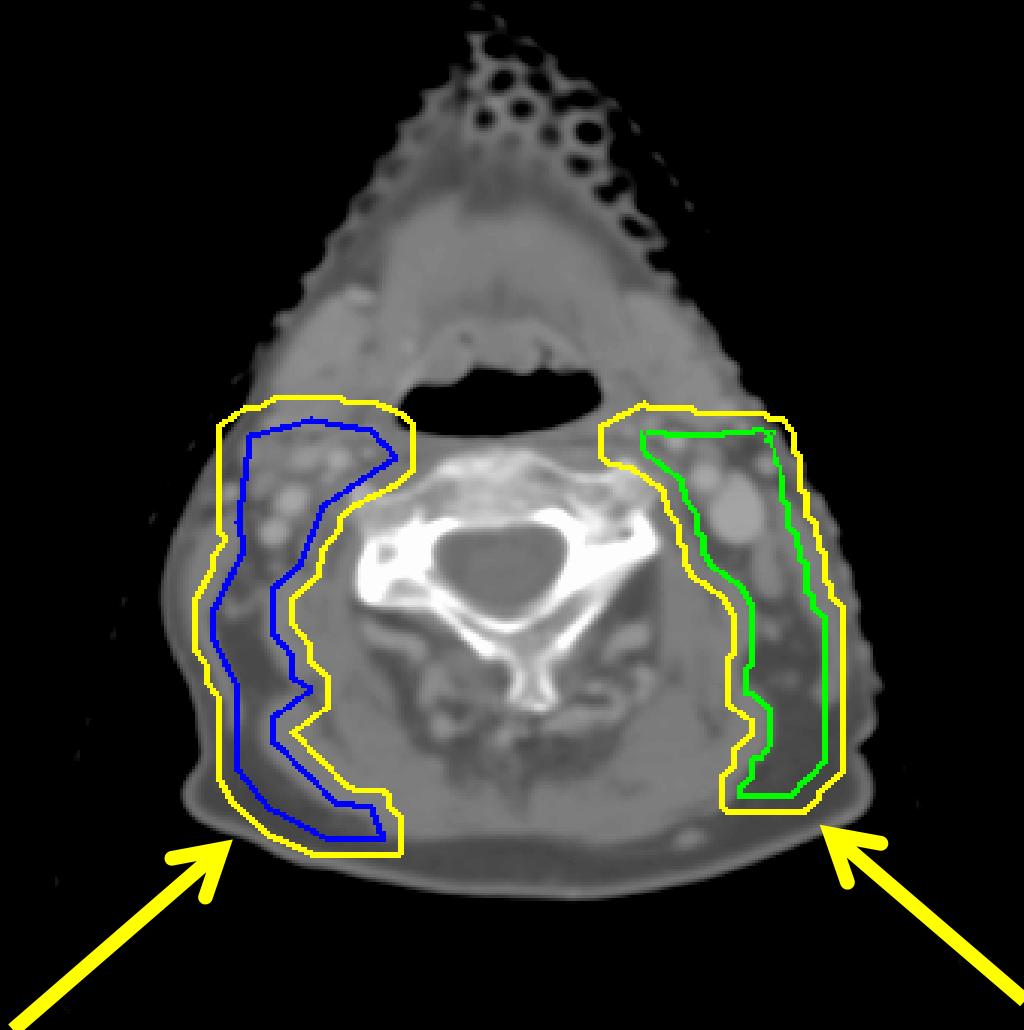
- **Retrostyloid space**
- **Bilateral levels Ib through V**
- **Level Ib can be omitted in node negative disease**

Coverage of Retrostyloid Space Regardless of N stage for NPC

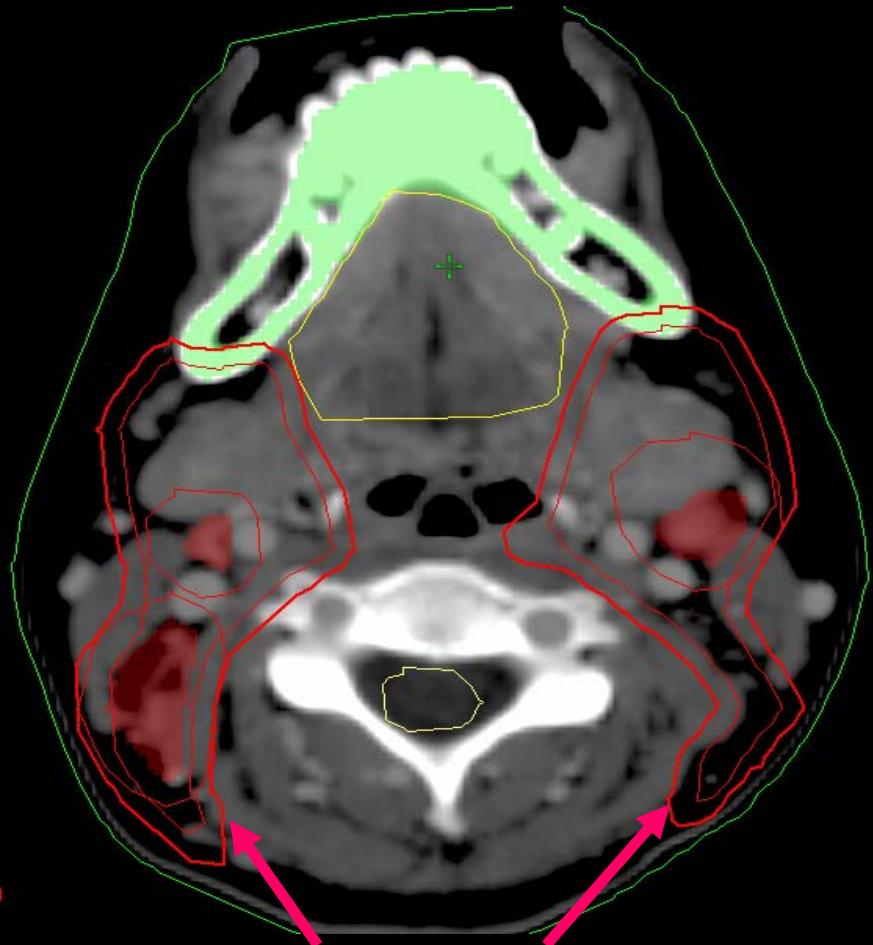


Retrostyloid Spaces

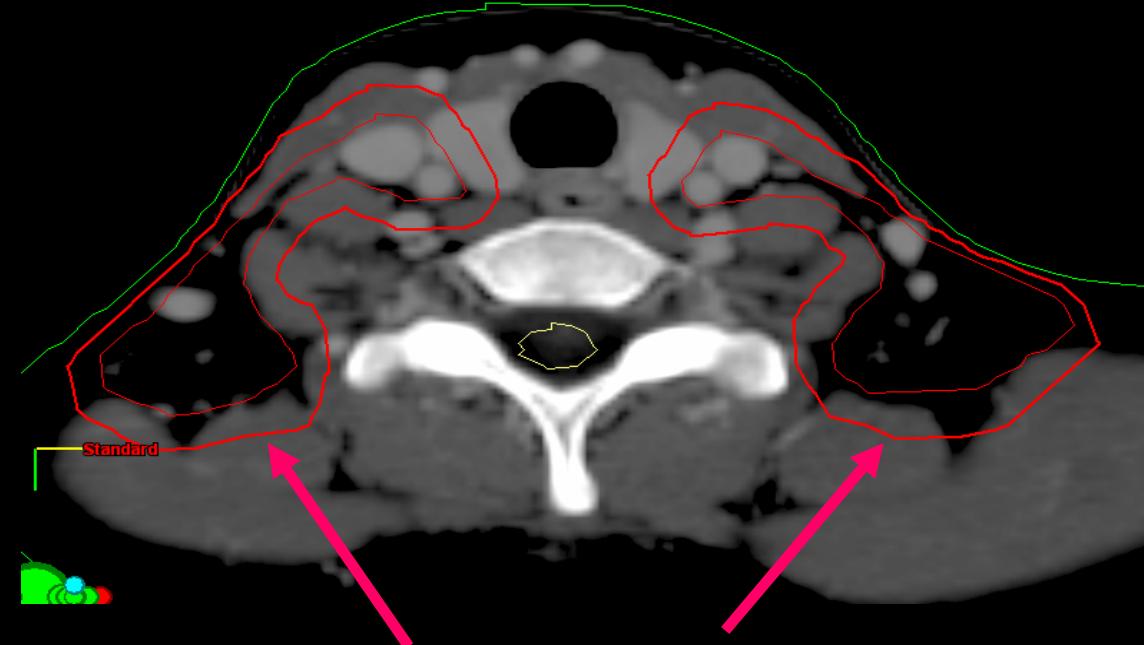
Coverage of level V



Level V Nodal Coverage



High Risk PTV



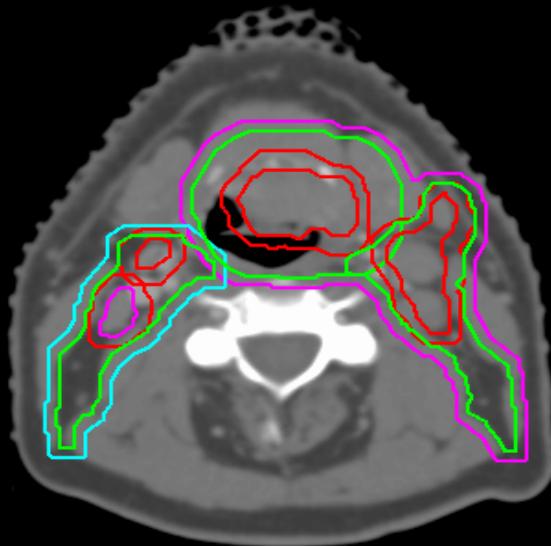
Low Risk PTV

If choosing to use beam Split technique,
Make sure use AP/PA with midline block
For all NPC cases as nodes can spread posteriorly

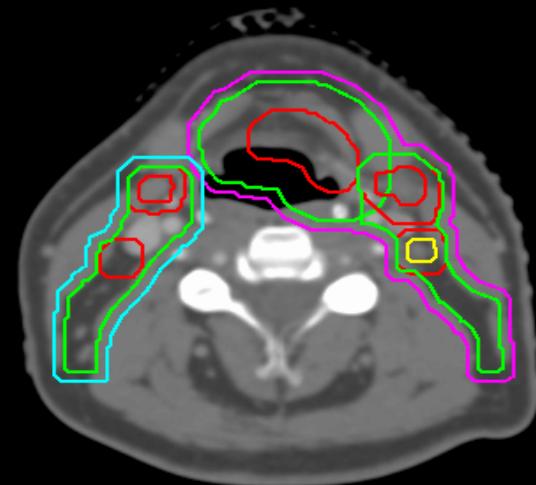
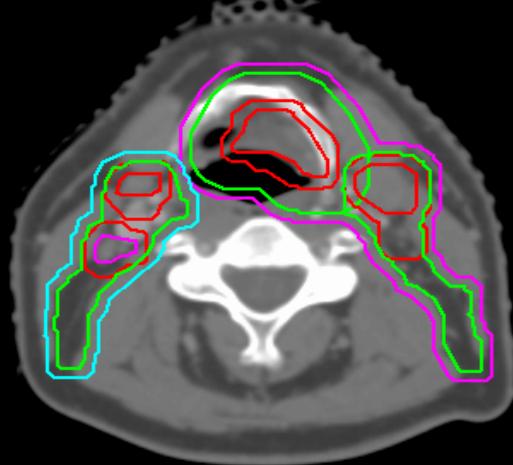


Oropharynx (Primary) CTV_{59.4} Delineation

- Should probably have at least 1cm circumferential margin except near bony region, especially there are no good salvage options for failure
- Base of tongue cancer to include pre-epiglottic fat and entire base of tongue (but can be in the next lower dose region)
- Tonsil cancer, should include the pterygoid plate (ensuring good coverage superiorly of pterygoid mandibular raphe).



Ensuring Coverage of Pre-epiglottic space



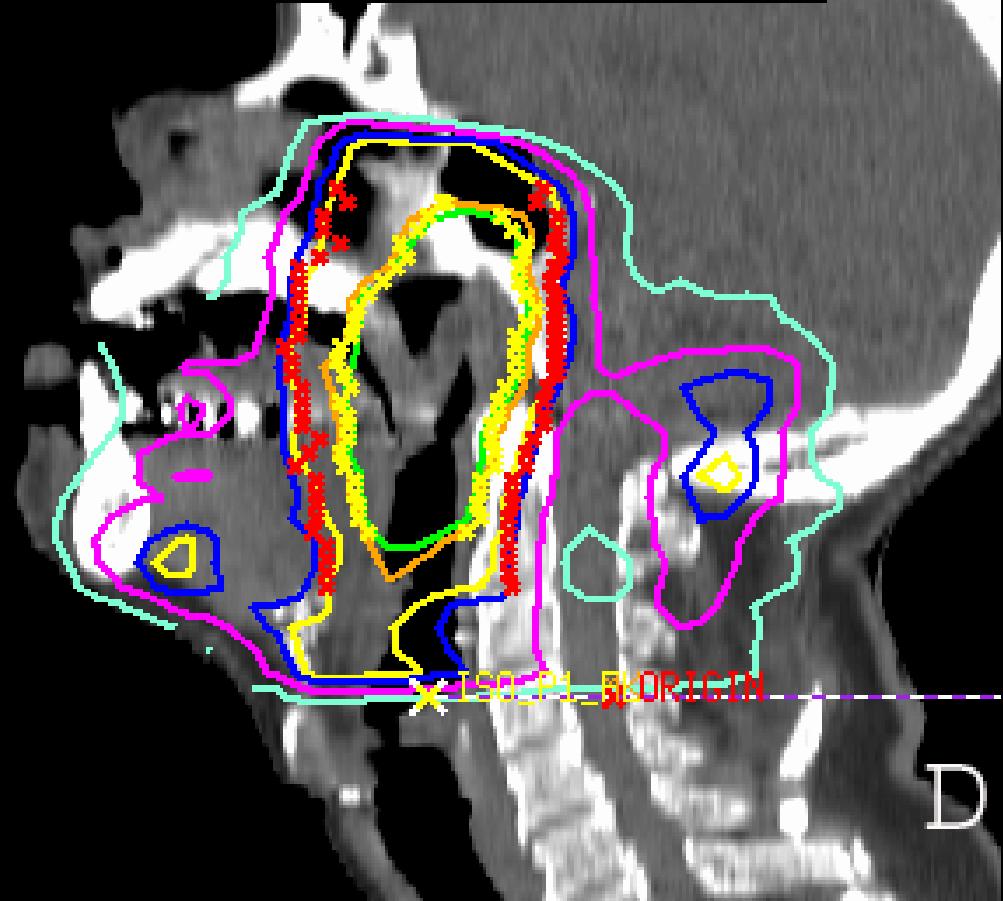
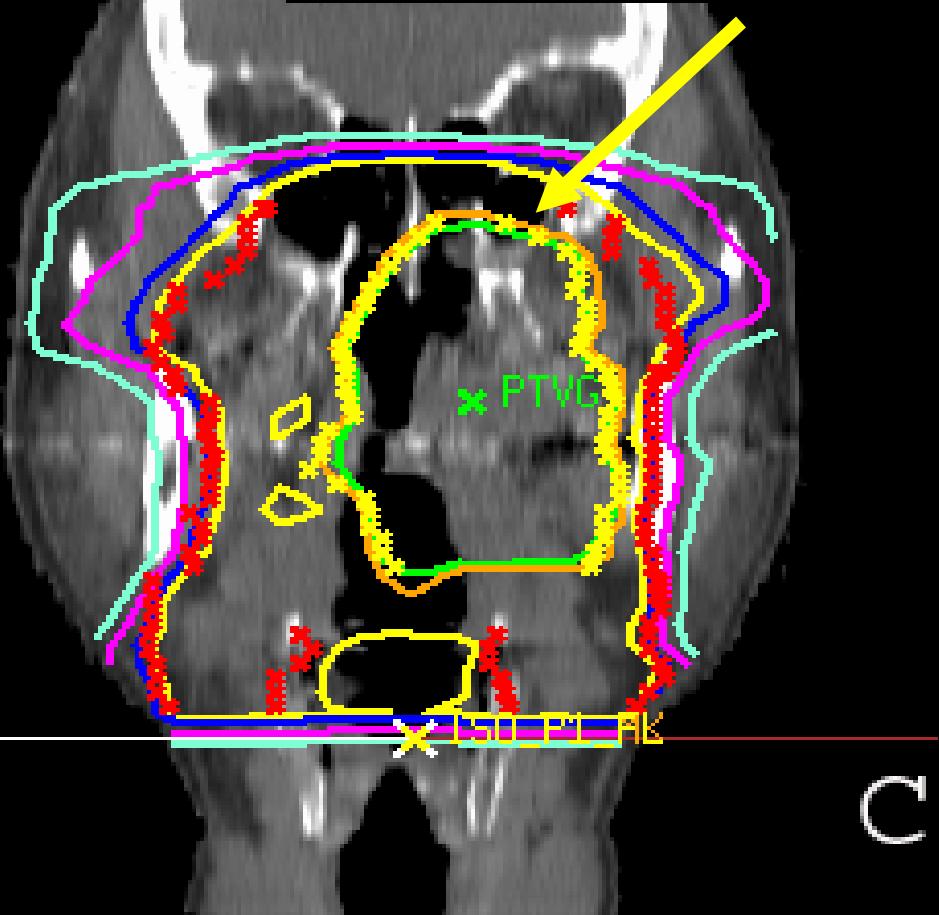
0 % isodose level.

SUP

to 118.000 % isodose

SUP

Need to Include Pterygoid Plate



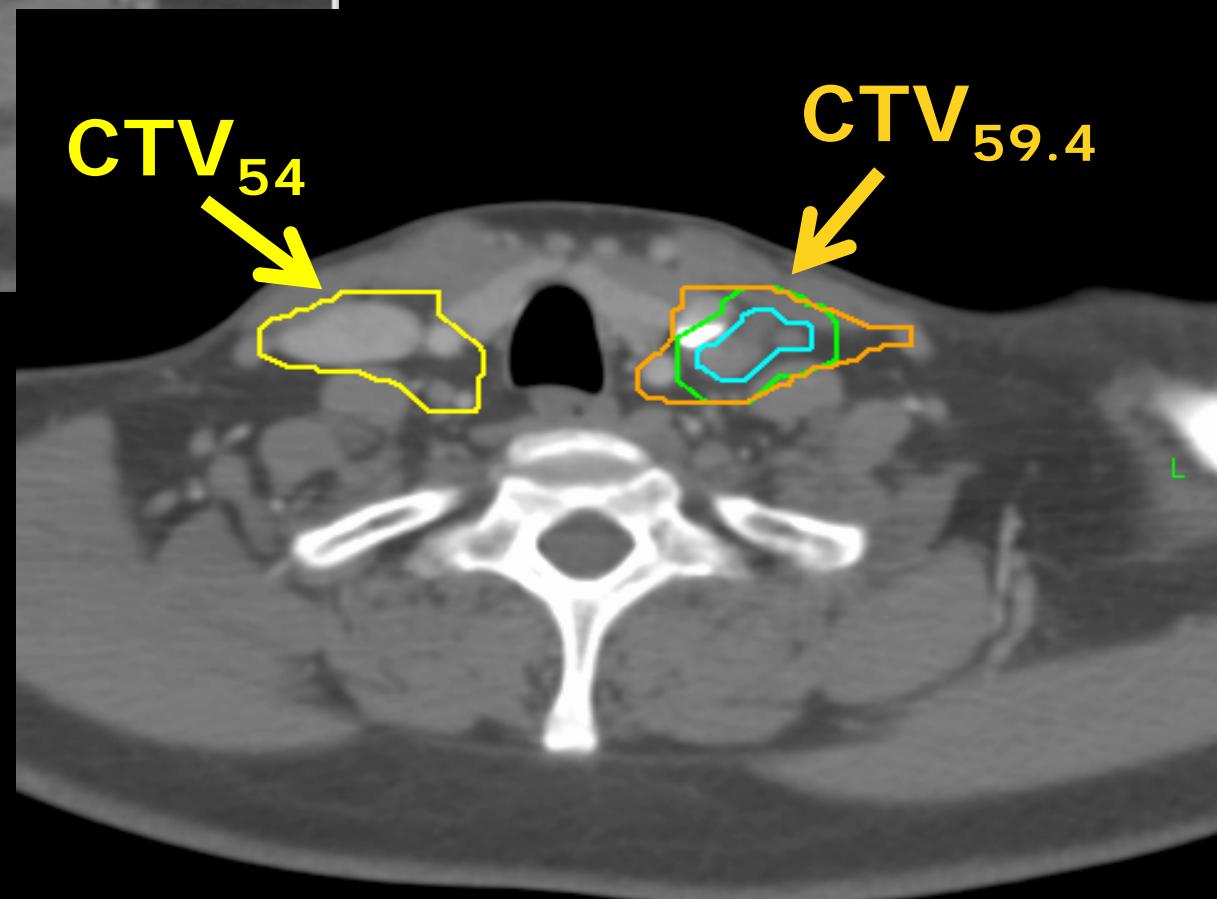
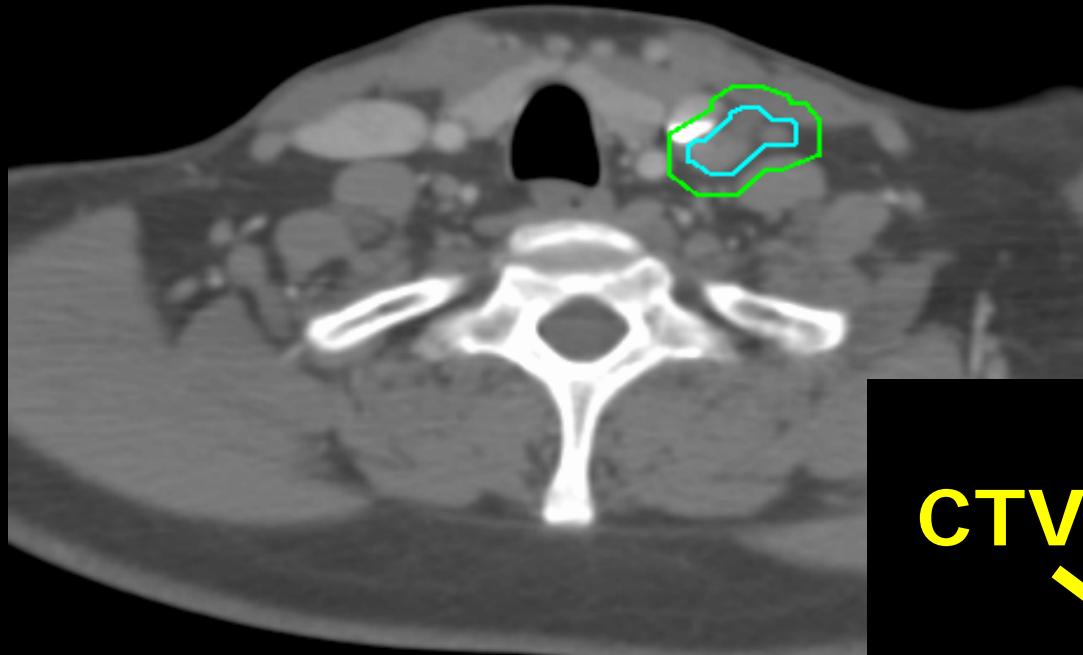
Look at the growth pattern of your cases to determine CTV_{59.4} coverage

Oropharynx (Nodal): CTV_{59.4} Delineation

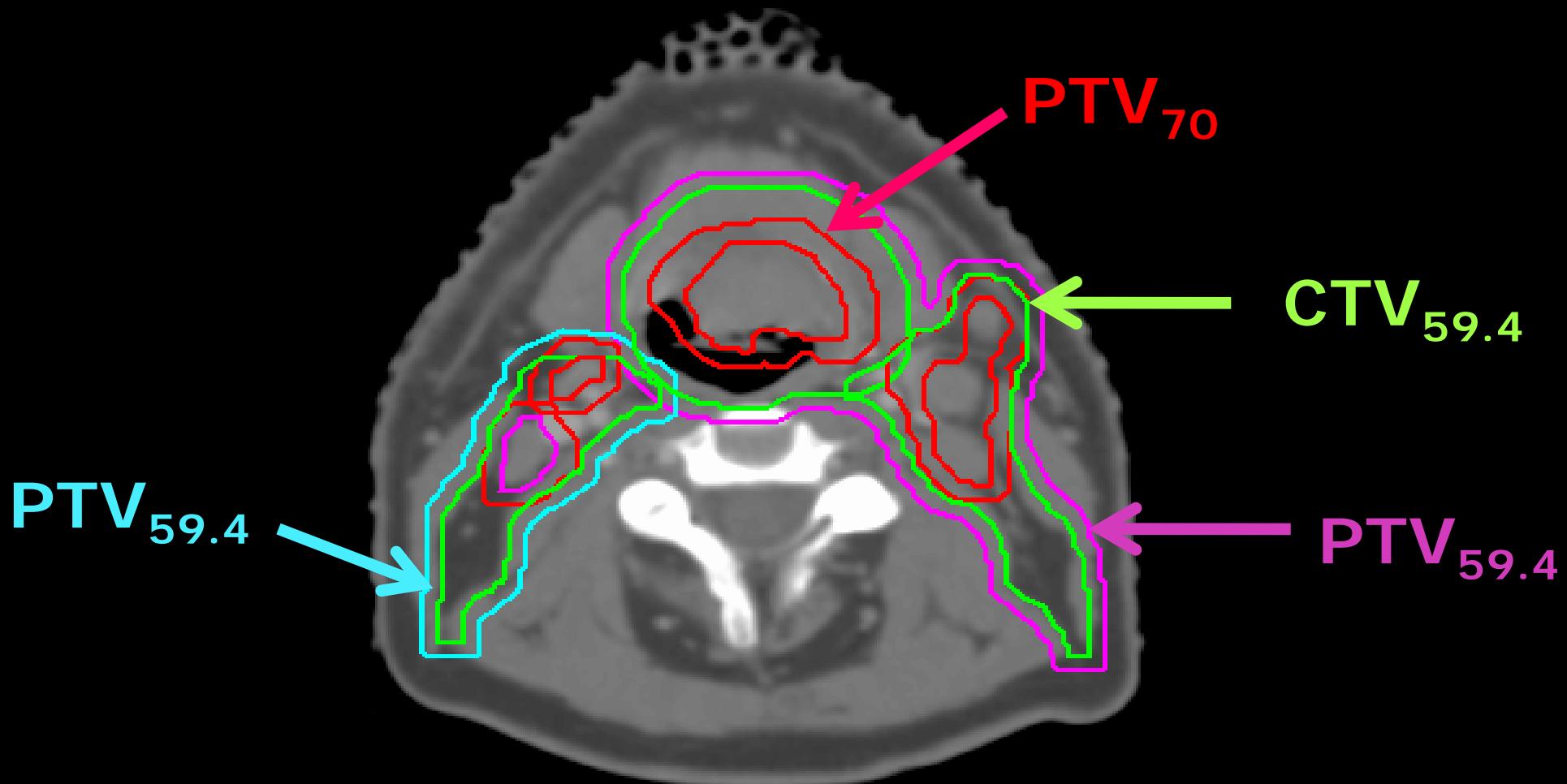
- Node+: levels IB-V
- Can consider shrinking volume, just treat levels Ib-IV or II-IV in node positive cases
- Node negative: levels II-IV
- At MSKCC, we no longer perform routine planned neck dissection. IMRT with precise targeting of the gross neck nodes has changed practice

CTV low neck
For oropharynx CA

Not treating level V

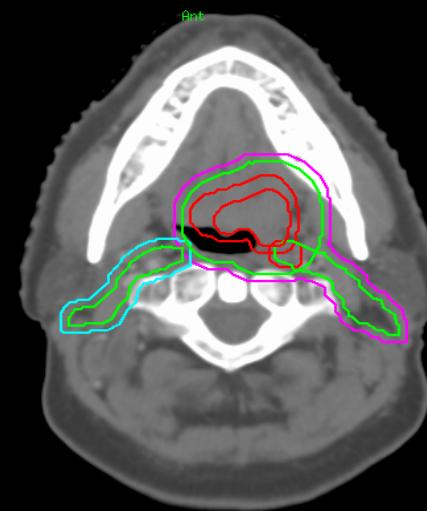
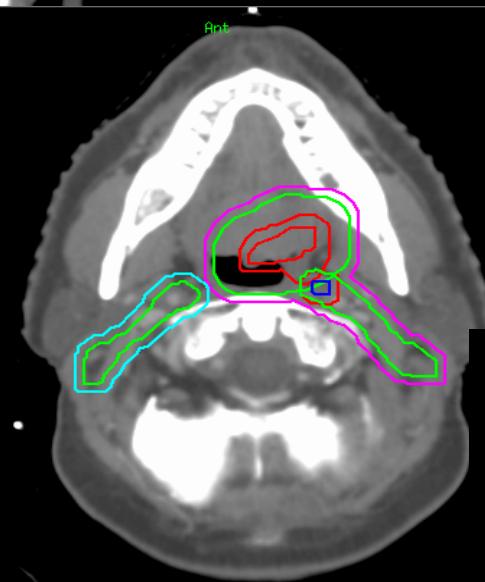
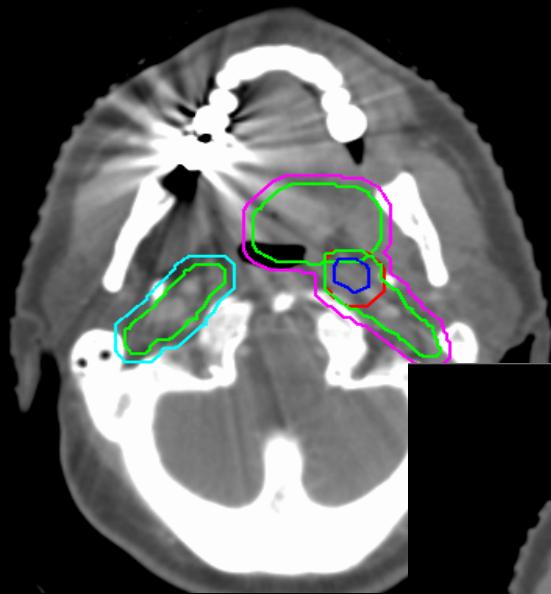


Base of Tongue CA



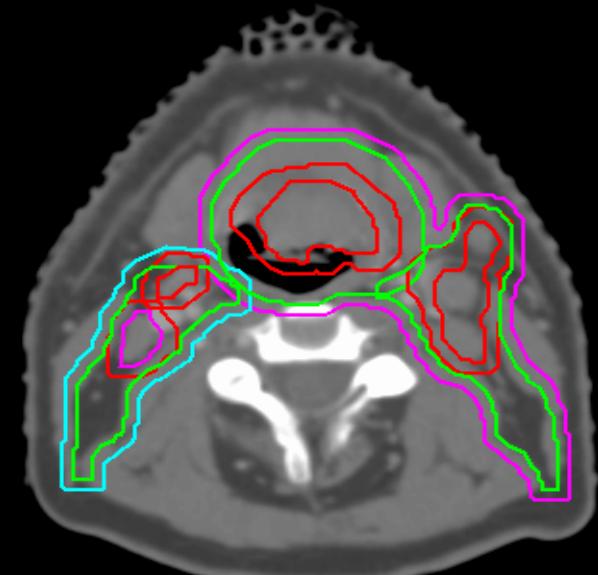
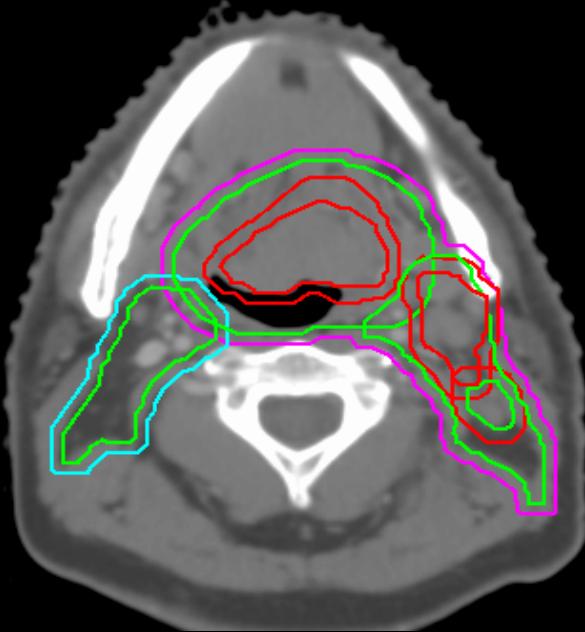
Example Stage IVB oropharynx CA

Superior to Inferior slices



Treat Bilateral
Retrostyloid Spaces

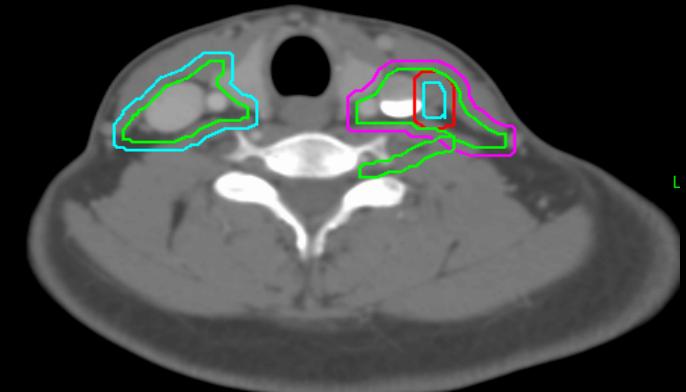
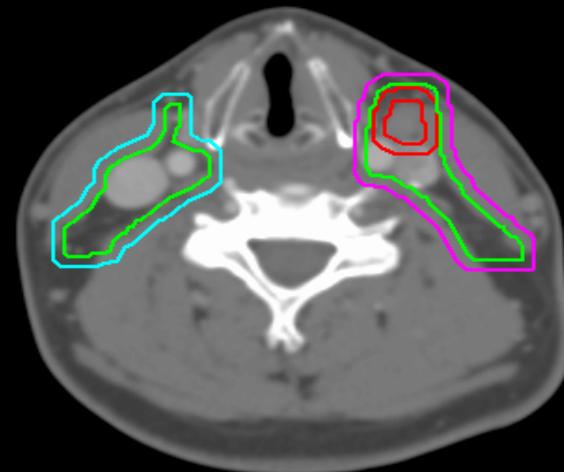
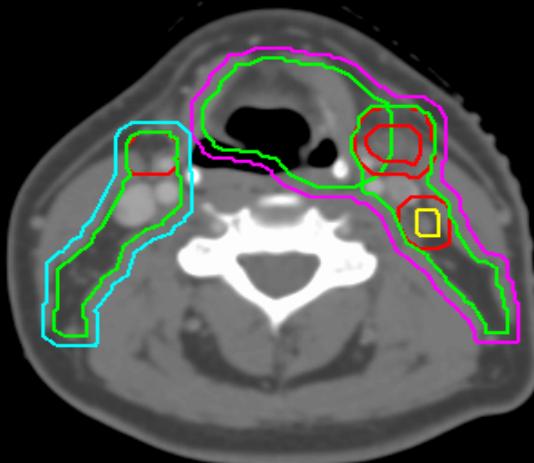
No actively trying to spare
Constrictor muscles



Distance from GTV
To PTV59.4 is at least 1.3 cm

**Coverage of pre-epiglottic fat but
spare larynx**

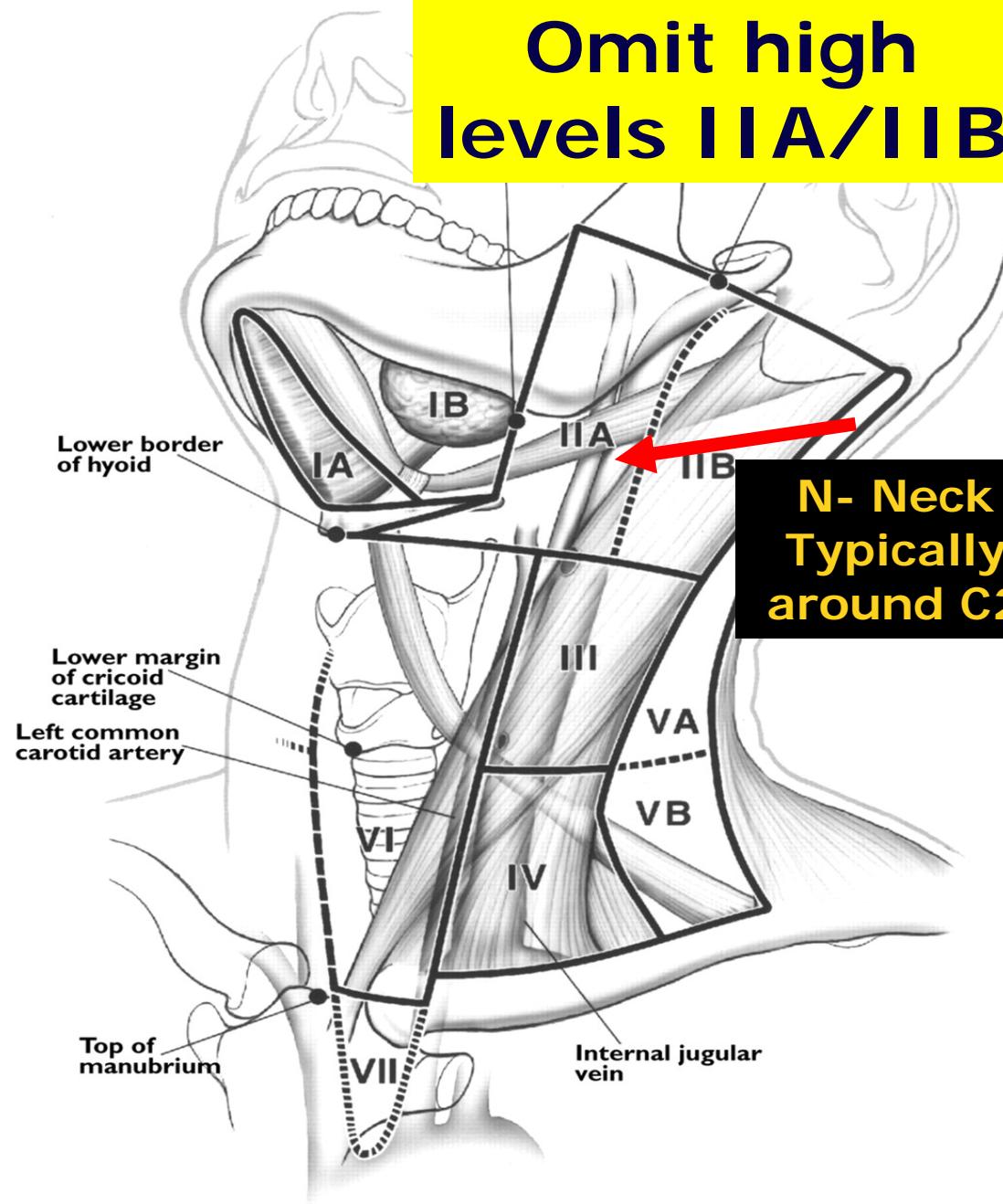
Even with N+, level V not included

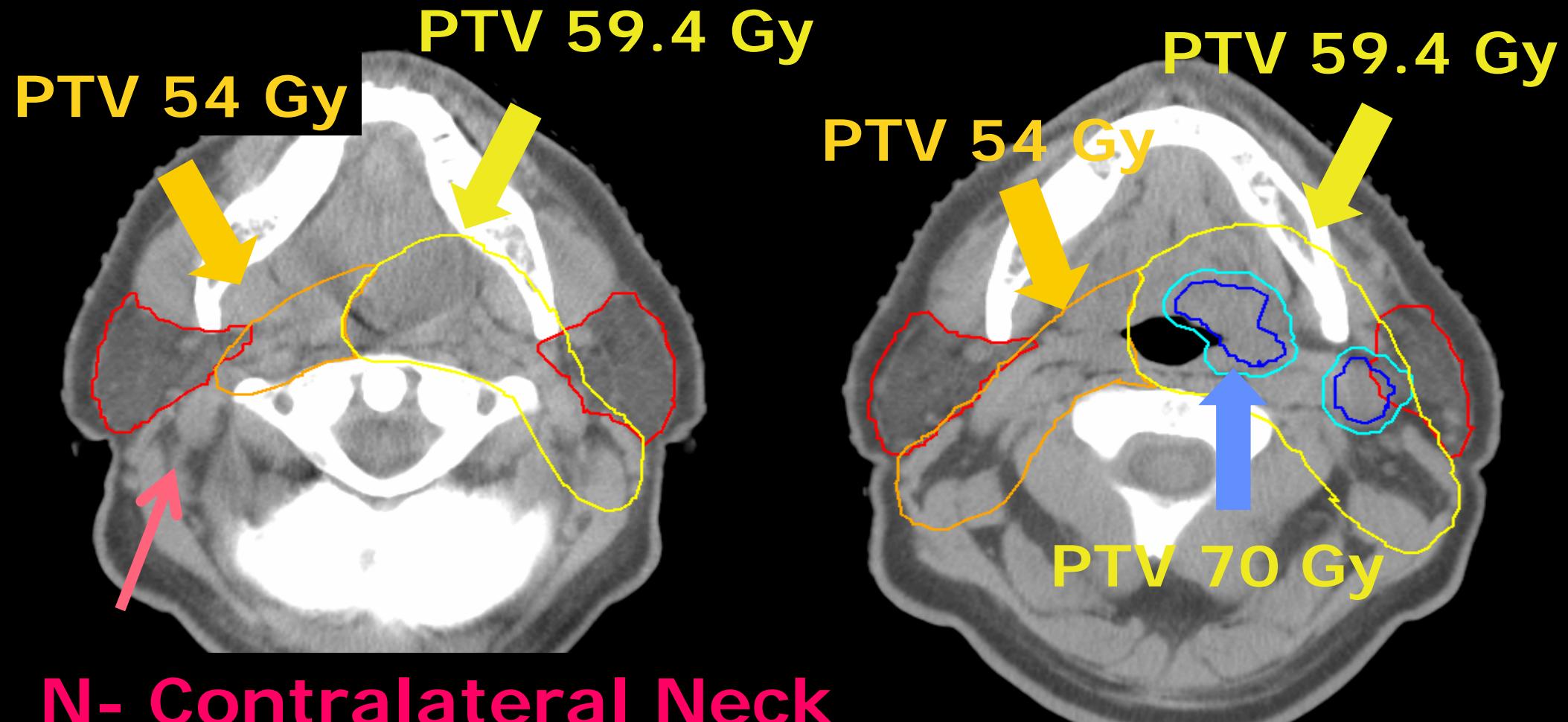


Node-: CTV₅₄ Delineation

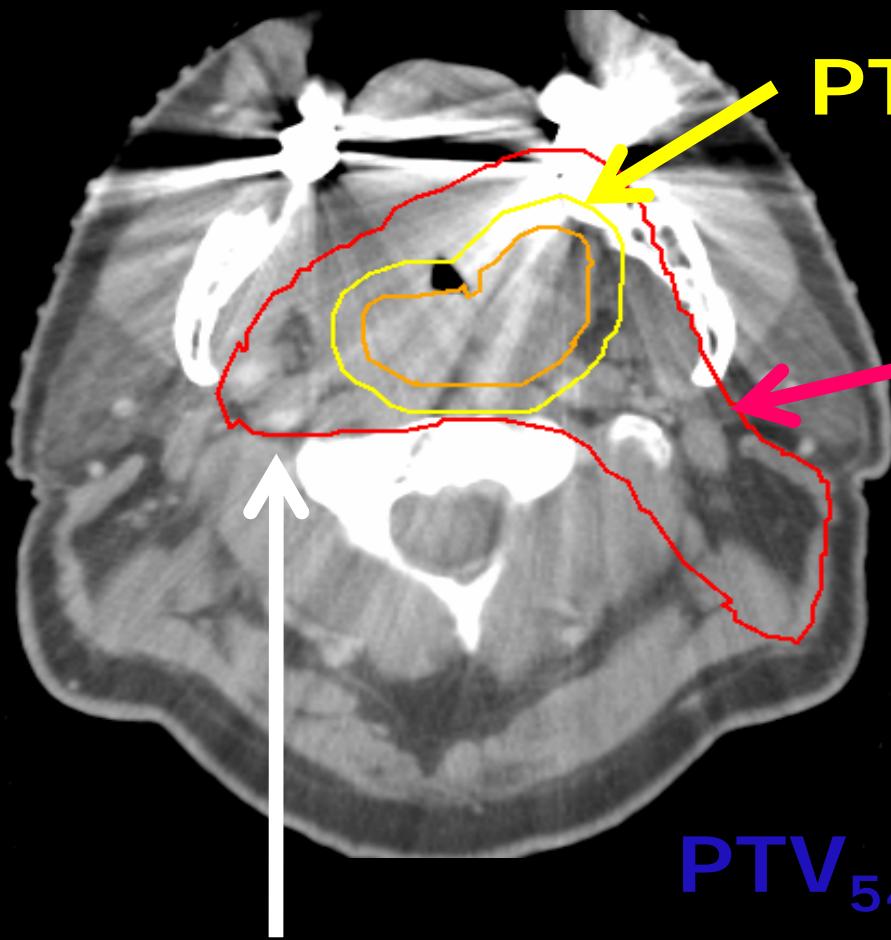
- Levels II-IV
- Coverage of the retropharyngeal region.
- For oropharyngeal CA, when posterior belly of digastric just crosses IJ, can omit treating high level II, i.e, only target subdigastric nodes.
(Omitting the retrostyloid space)
- CTV₅₄ + 3mm = PTV₅₄

Omit high
levels IIA/IIB

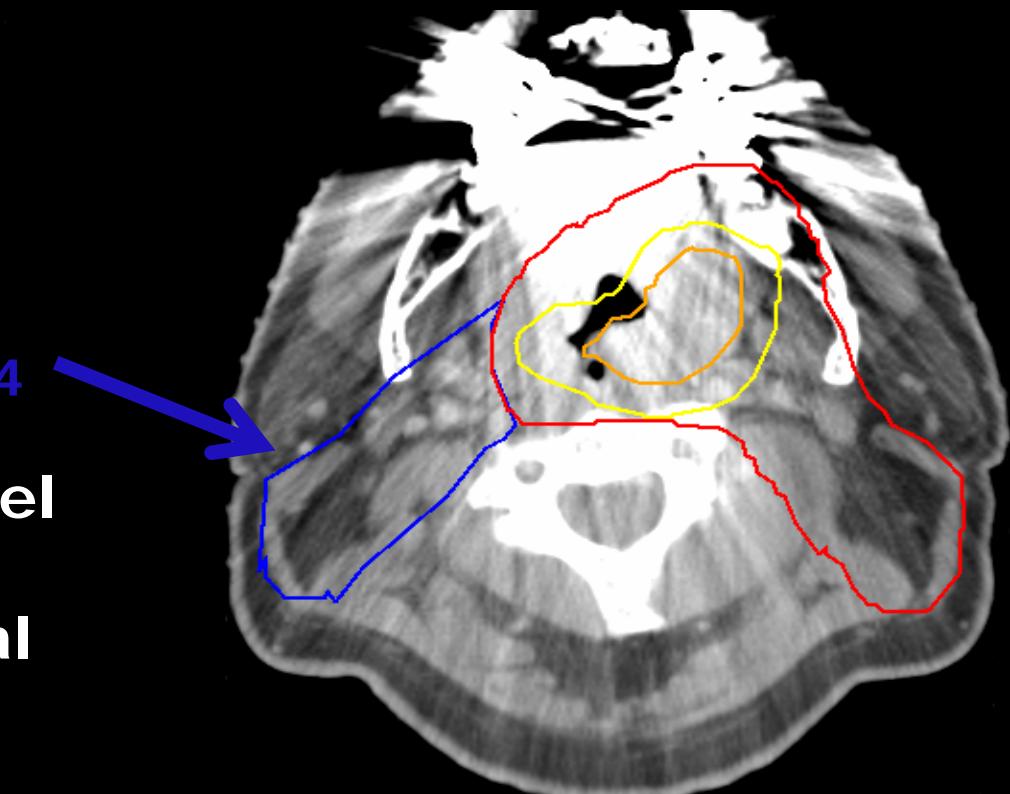




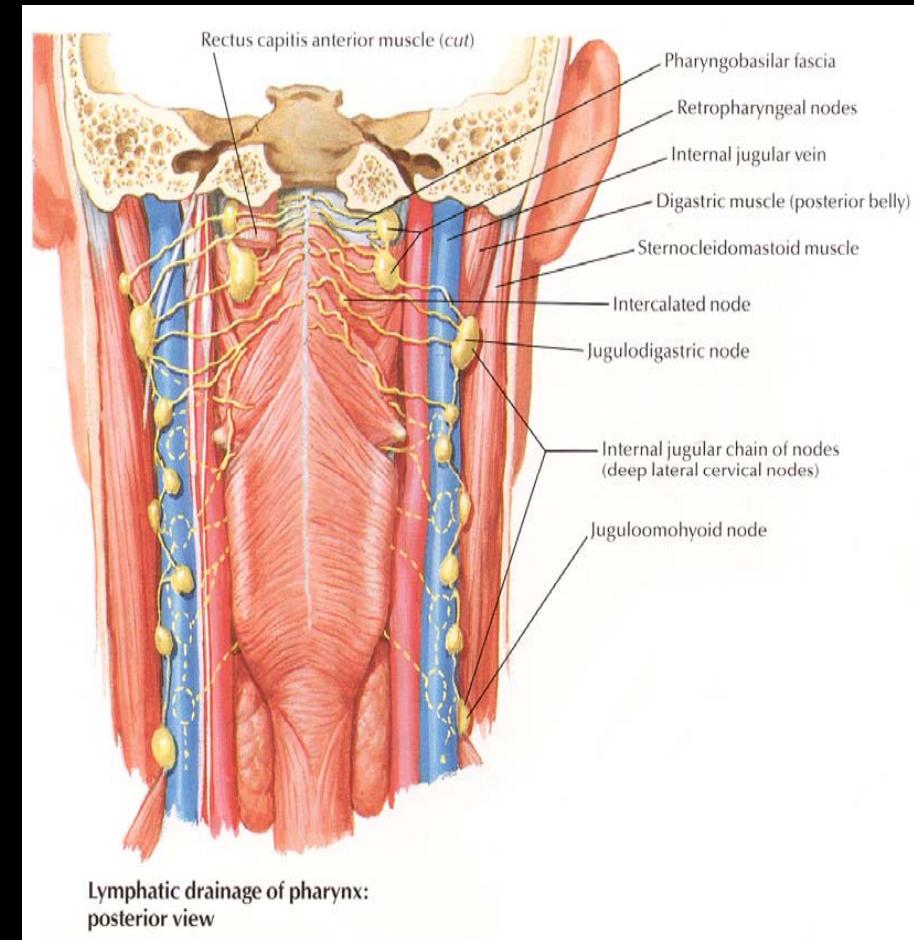
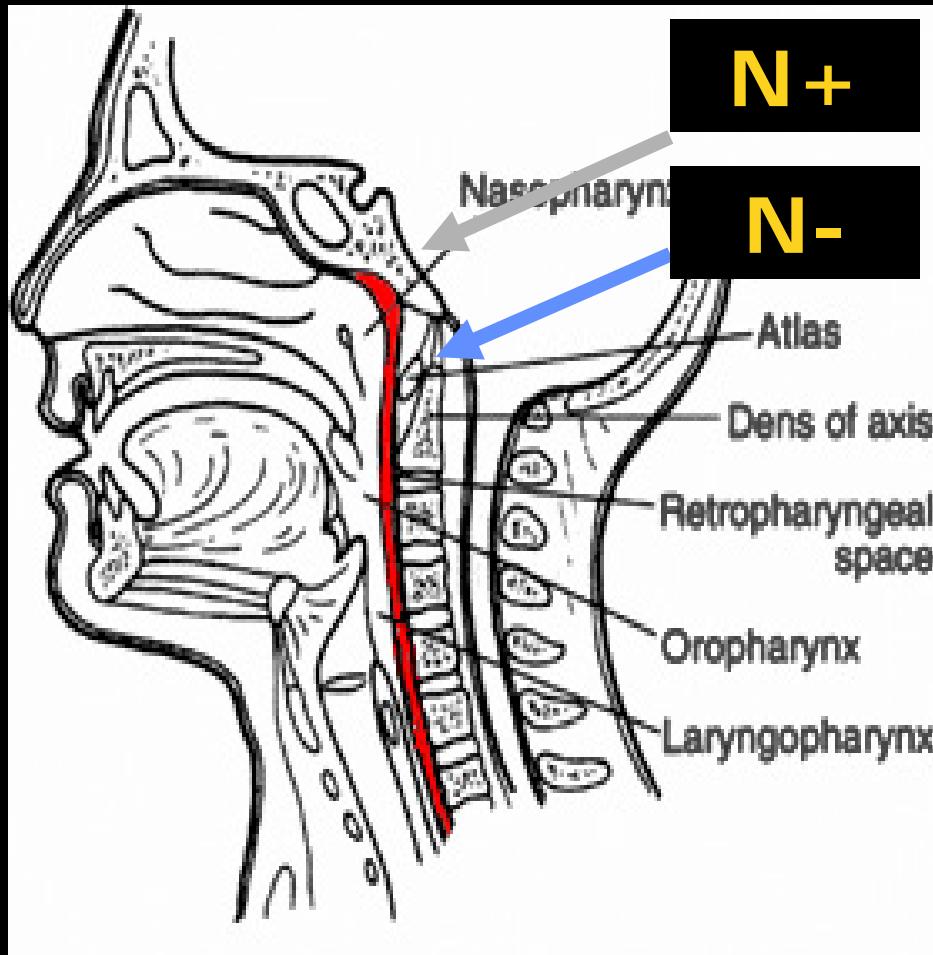
N- Contralateral Neck
Can Spare the
high II A/II B nodes



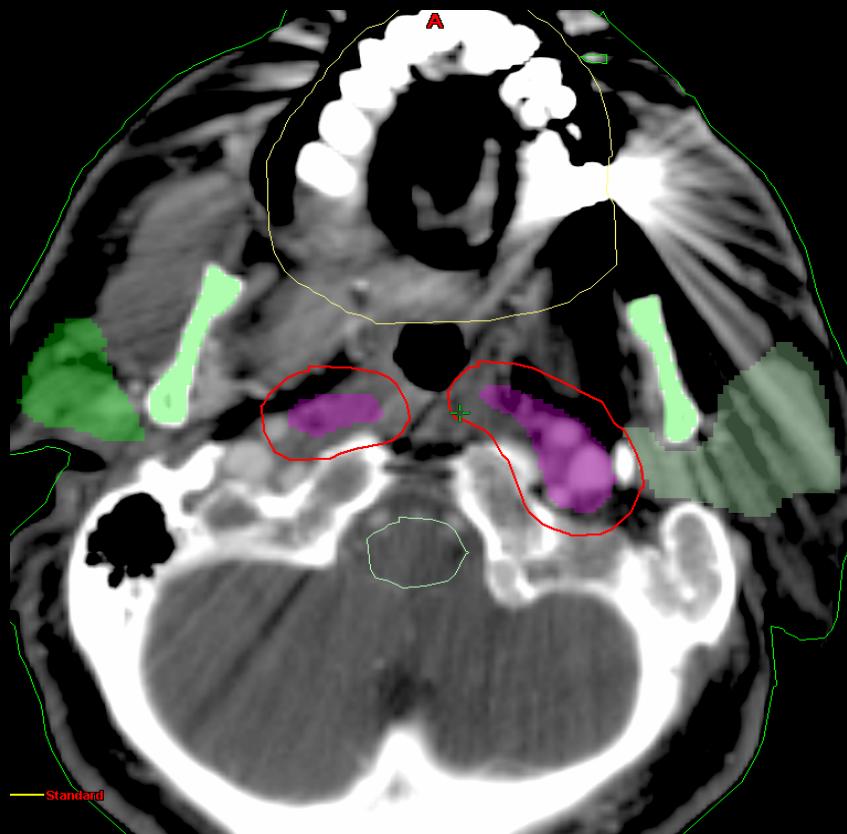
**Coverage of Retropharyngeal
Region Bilaterally
But omitting contralateral
Retrostyloid space**



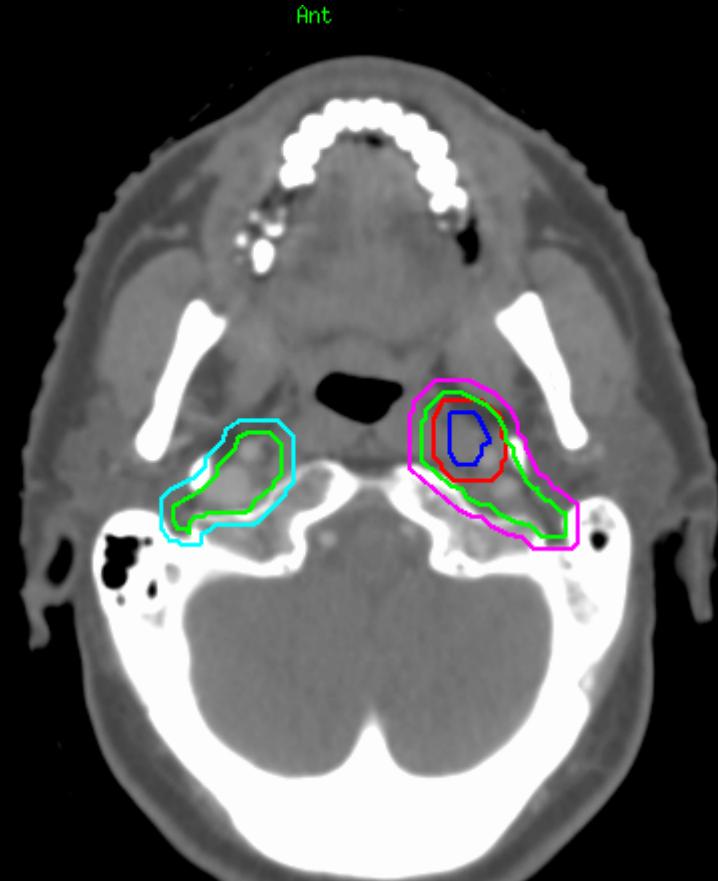
Retropharyngeal Space



Contour at RP nodal level for bilateral N+ neck



Univ Michigan



MSKCC

Superior Aspect of Nodal CTV for Contralateral N0 Neck

MSKCC

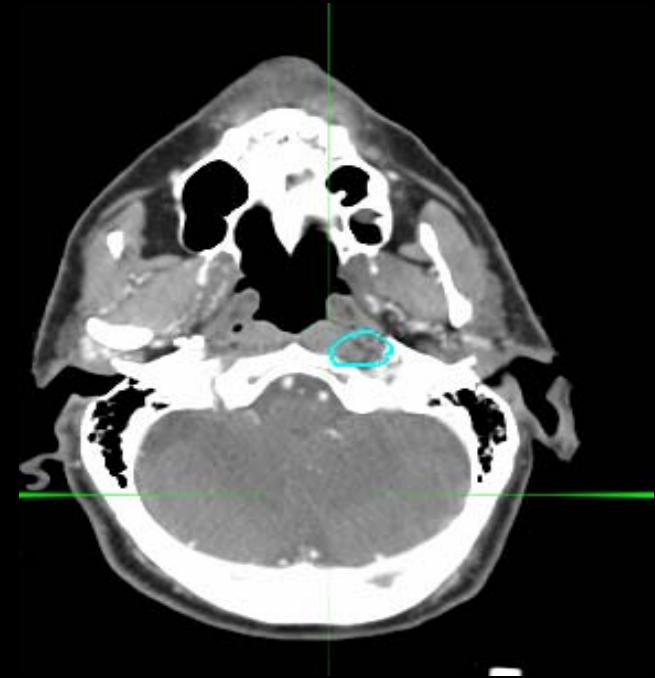


C1

U Michigan



MDACC



Courtesy of Q Le, ASTRO Practicum 2008

IMRT for NPC: UCSF

(UCSF, Lee et al, IJROBP, 53:1:12-21)

- N = 87
- PTVg = 70 Gy @ 2.12 Gy concurrently
PTVm = 59.4 Gy @ 1.8 Gy per day
- T3/T4: 45% III/IV: 74%
- N+: 79%
- Chemotherapy: 85%

Table 2

Node levels Ia and Ib.

Boundaries	Level Ia (submental group)	Level Ib (submandibular group)
Cranial	Mylo-hyoid m.	Cranial edge of submandibular gland; anteriorly, mylo-hyoid m.
Caudal	Platysma m. (caudal edge of the anterior belly of digastric mm)	Plane through caudal edge of hyoid bone and caudal edge of mandible; alternatively caudal edge of submandibular gland (whichever is more caudal)/platysma m.
Anterior	Symphysis menti	Symphysis menti
Posterior	Body of hyoid bone/mylo-hyoid m.	Posterior edge of submandibular gland (caudally)/posterior belly of digastric m. (cranially)
Lateral	Medial edge of ant. belly of digastric m.	Medial aspect (innerside) of mandible down to caudal edge/platysma m. (caudal)/medial pterygoid m. (posteriorly)
Medial	n.a.	Lateral edge of ant. belly of digastric m. (caudally)/posterior belly of digastric m. (cranially)

Table 3

Node levels II, III, IVa and IVb.

Level	Boundaries					
	Cranial	Caudal	Anterior	Posterior	Lateral	Medial
II (upper jugular group) [#]	Caudal edge of the lateral process of C1	Caudal edge of the body of the hyoid bone	Posterior edge of the submandibular gland/posterior edge of posterior belly of digastric m.	Posterior edge of sternocleidomastoid m.	Deep (medial) surface of sternocleidomastoid m./platysma m./parotid gland/posterior belly of digastric m.	Medial edge of internal carotid artery/scalenus m.
III (middle jugular group)	Caudal edge of the body of the hyoid bone	Caudal edge of cricoid cartilage	Anterior edge of sternocleidomastoid m./posterior third of thyro-hyoid m.	Posterior edge of sternocleidomastoid m.	Deep (medial) surface of sternocleidomastoid m.	Medial edge of common carotid artery/scalenus mm.
IVa (lower jugular group)	Caudal edge of cricoid cartilage	2 cm cranial to sternal manubrium	Anterior edge of sternocleidomastoid m. (cranially)/body of sternocleidomastoid m. (caudally)	Posterior edge of sternocleidomastoid m. (cranially)/scalenus mm. (caudally)	Deep (medial) surface of sternocleidomastoid m. (cranially)/lateral edge of sternocleidomastoid m. (caudally)	Medial edge of common carotid artery/lateral edge of thyroid gland/scalenus mm. (cranially)/medial edge of sternocleidomastoid m. (caudally)
IVb (medial supraclavicular group)	Caudal border of level IVa (2 cm cranial to sternal manubrium)	Cranial edge of sternal manubrium	Deep surface of sternocleidomastoid m./deep aspect of clavicle	Anterior edge of scalenus mm. (cranially)/apex of lung, the brachiocephalic vein, the brachiocephalic trunca (right side) and the common carotid artery and subclavian artery on the left side (caudally)	Lateral edge of scalenus m.	Lateral border of level VI (pre-tracheal component)/medial edge of common carotid artery

[#] Level II can be divided into level IIa and level IIb by drawing an artificial line at the posterior edge of the internal jugular vein.

Table 4

Levels V (Va and Vb) and Vc.

Boundaries	Level V (posterior triangle group) ^a	Level Vc (lateral supraclavicular group)
Cranial	Cranial edge of the body of hyoid bone	Plane just below transverse cervical vessels (caudal border of level V)
Caudal	Plane just below transverse cervical vessels	2 cm cranial to sternal manubrium, i.e. caudal border of level IVa
Anterior	Posterior edge of sternocleidomastoid m.	Skin
Posterior	Anterior border of trapezius m.	Anterior border of trapezius m. (cranially)/±1 cm anterior to serratus anterior m. (caudally)
Lateral	Platysma m./skin	Trapezius m. (cranially)/clavicle (caudally)
Medial	Levator scapulae m./scalenus m. (caudally)	Scalenus m./lateral edge of sternocleidomastoid m., lateral edge of level IVa

^a Surgically, level V is subdivided in two groups of upper (Va) and lower (Vb) nodes according to their respective relationships with the cricoid cartilage.

scalp, the skin of the lateral and posterior neck and shoulder, the nasopharynx, the oropharynx and the thyroid gland. Level V lymph nodes are at high risk for harboring metastases from cancers of the nasopharynx, oropharynx and thyroid gland. Nodes in level V are most often associated with primary cancers of the nasopharynx, the oropharynx, the cutaneous structures of the posterior scalp, and the thyroid gland (level Vb).

Level Vc

Level Vc (Table 4) contains the lateral supraclavicular nodes located in the continuation of the posterior triangle nodes (level Va

and Vb) from the cervical transverse vessels down to a limit set arbitrarily 2 cm cranial to the sternal manubrium, i.e. a similar limit than the caudal border of level IVa. It corresponds partly to the area known as the “the supraclavicular fossa” also called the triangle of Ho, which was clinically defined in the mid-seventies before the era of CT for the neck staging of nasopharyngeal carcinoma [13]. Originally, this fossa also included the caudal portions of level IV and V. Instead of proposing new boundaries of its own, we elected to subsume this fossa into other lower neck nodal levels. The anterior limit of level Vc is the skin. Its posterior limit is the anterior border of the trapezius muscles (cranially) or ±1 cm from the anterior surface of the serratus anterior muscle (caudally).

Delineation of the neck node levels for head and neck tumors: a 2013 update.

DAHANCA, EORTC, HKNPCSG, NCIC
CTG, NCRI, RTOG, TROG consensus
guidelines.

Vincent Grégoire^a, Kian Ang^{b†}, Wilfried Budach^c, Cai Grau^d, Marc Hamoir^e, Johannes A. Langendijk^f, Anne Leeg^g, Quynh-Thu Le^h, Philippe Maingonⁱ, Chris Nutting^j, Brian O'Sullivan^k, Sandro V. Porceddu^l, Benoit Lengele^m

^a Cancer Center and Department of Radiation Oncology, Clinical and Experimental Research Institute, Université catholique de Louvain, Cliniques Universitaires St-Luc, Brussels, Belgium.

^b Department of Radiation Oncology, The University of Texas MD Anderson Cancer Center, Houston TX, USA.

^c Department of Radiation Oncology, University Hospital Düsseldorf, Düsseldorf, Germany.

^d Department of Oncology, Aarhus University Hospital, Denmark.

^e Cancer Center and Department of Otorhinolaryngology, Head and neck surgery, Institut de Recherche Experimentale et Clinique, Université catholique de Louvain, Cliniques Universitaires St-Luc, Brussels, Belgium

^f Department of Radiation Oncology, University Medical Center Groningen, University of Groningen, The Netherlands.

^g Department of Clinical Oncology, the University of Hong Kong (Shenzhen) Hospital, China.

^h Department of Radiation Oncology, Stanford University School of Medicine, Stanford Cancer Center, Stanford, CA USA; Head and Neck Cancer Committee Chair, Radiation Therapy Oncology Group (RTOG).

ⁱ Department of Radiation Oncology, Centre Georges-François Leclerc, Dijon, France.

^j Department of Radiation Oncology, Royal Marsden Hospital and Institute of Cancer Research, London, UK.

^k Department of Radiation Oncology, Princess Margaret Hospital, University of Toronto, Canada.

^l Cancer Services, Princess Alexandra Hospital, Brisbane, QLD, Australia.

^m Cancer Center and Departments of Human Anatomy and Plastic & Reconstructive Surgery, Institut de Recherche Experimentale et Clinique, Université catholique de Louvain, Cliniques Universitaires St-Luc, Brussels, Belgium.

Disclaimer

The material presented in this file illustrates the consensus reached among cooperatives groups with respect to the delineation of the lymph node levels in the neck.

Authors are not responsible for any misuse of these guidelines by any third parties.

Slice Location(cm): Transverse: -18.60



Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -18.40



Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -18.20



Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -18.00



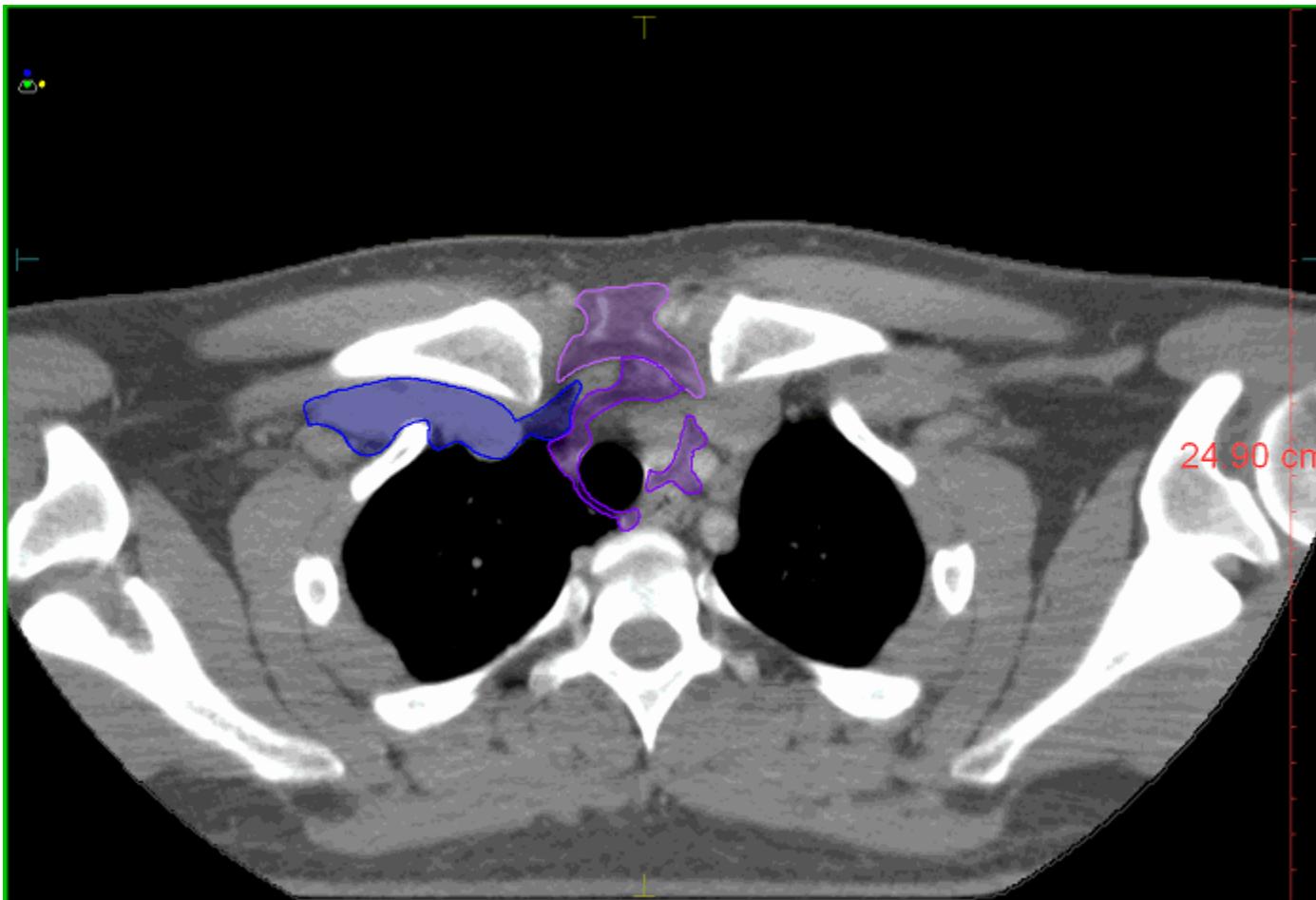
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -17.80



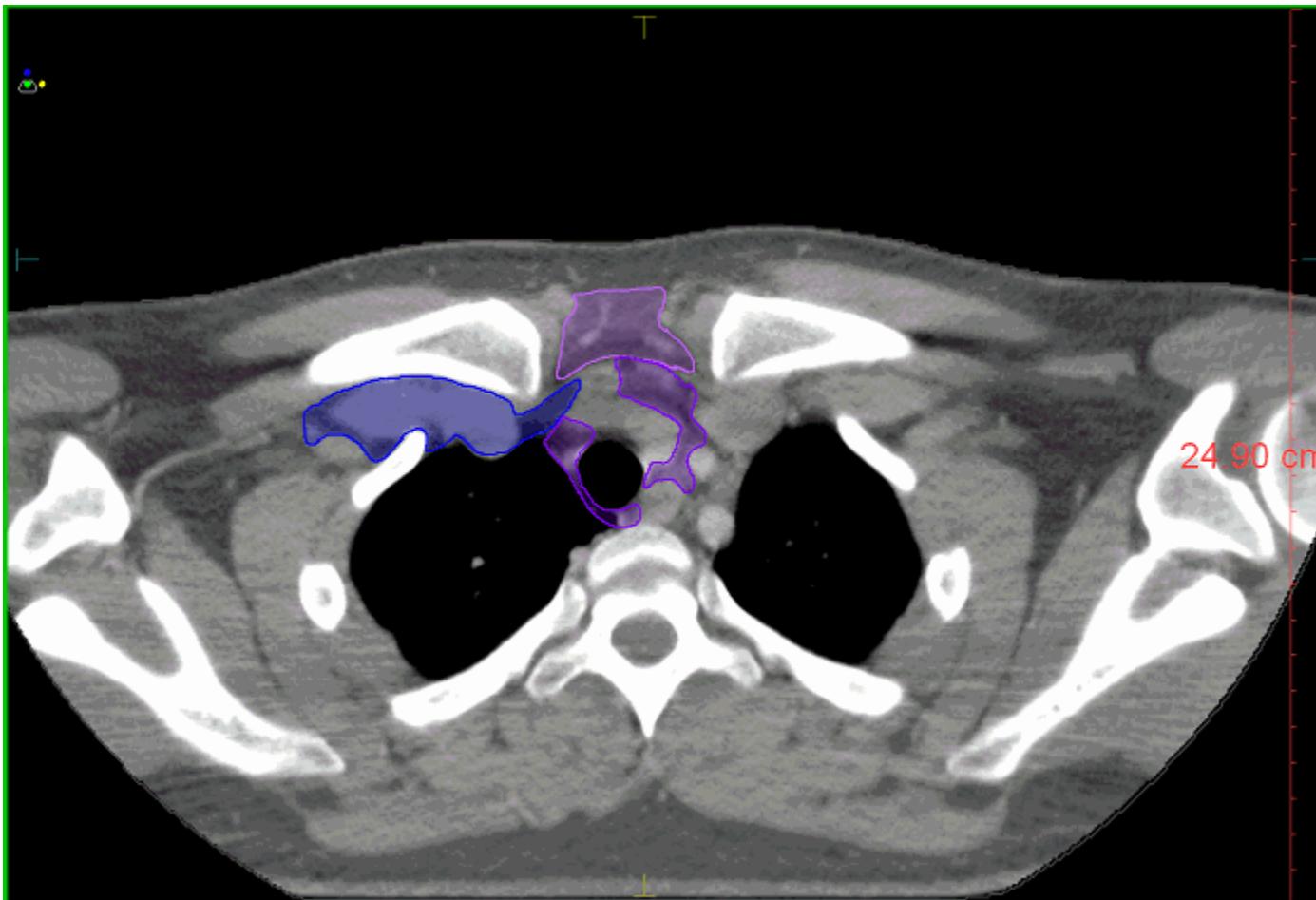
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -17.60



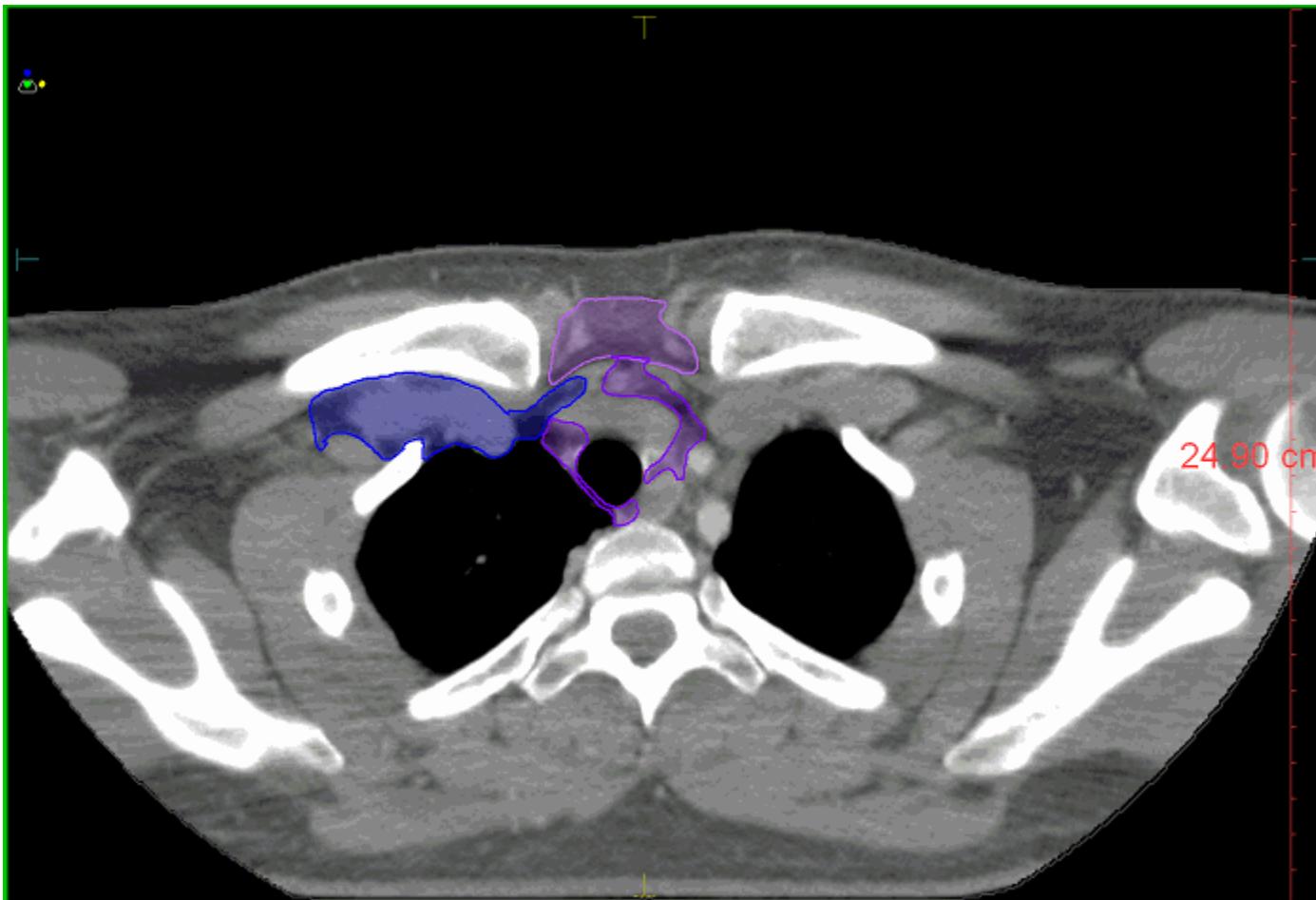
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -17.40



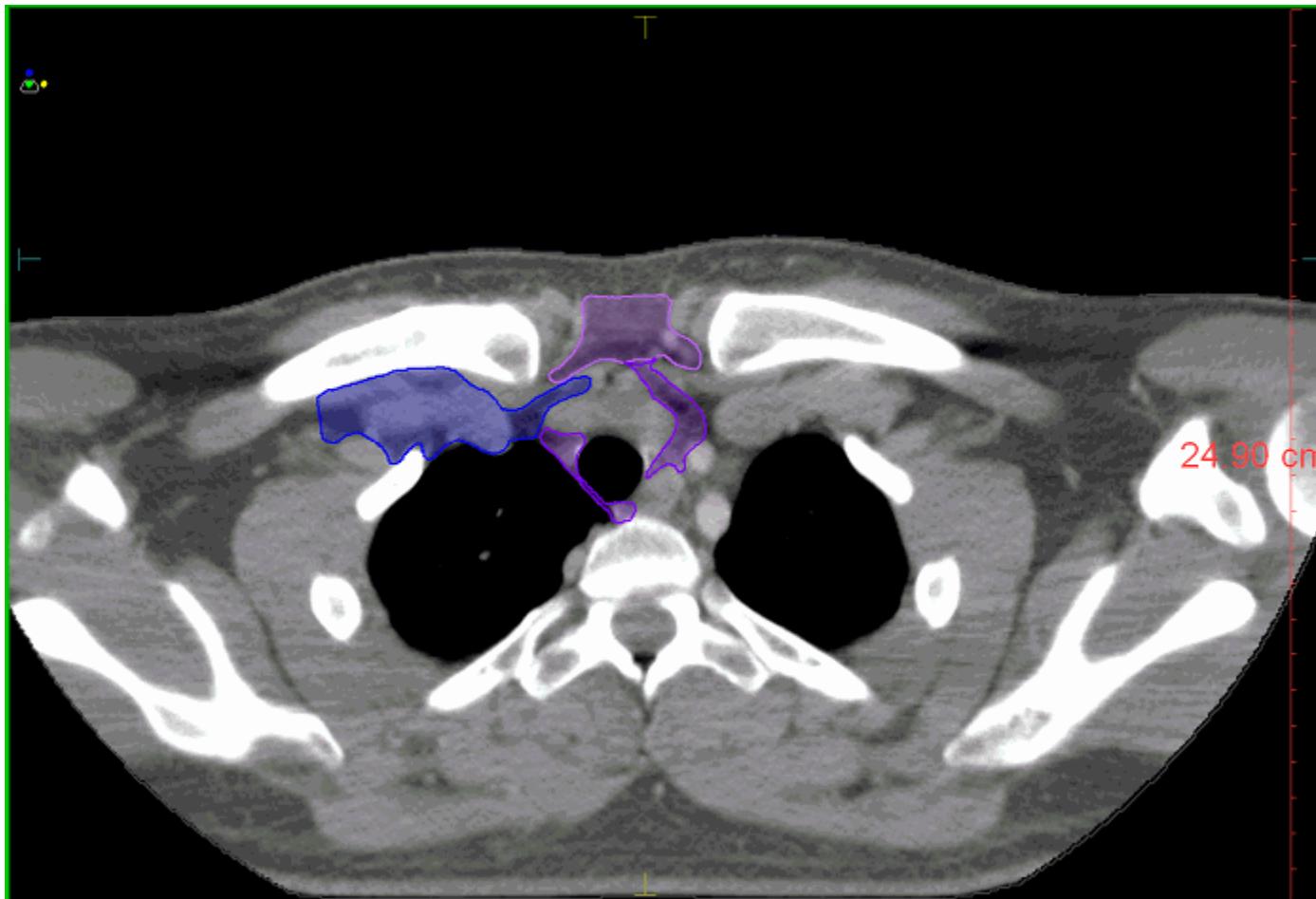
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -17.20



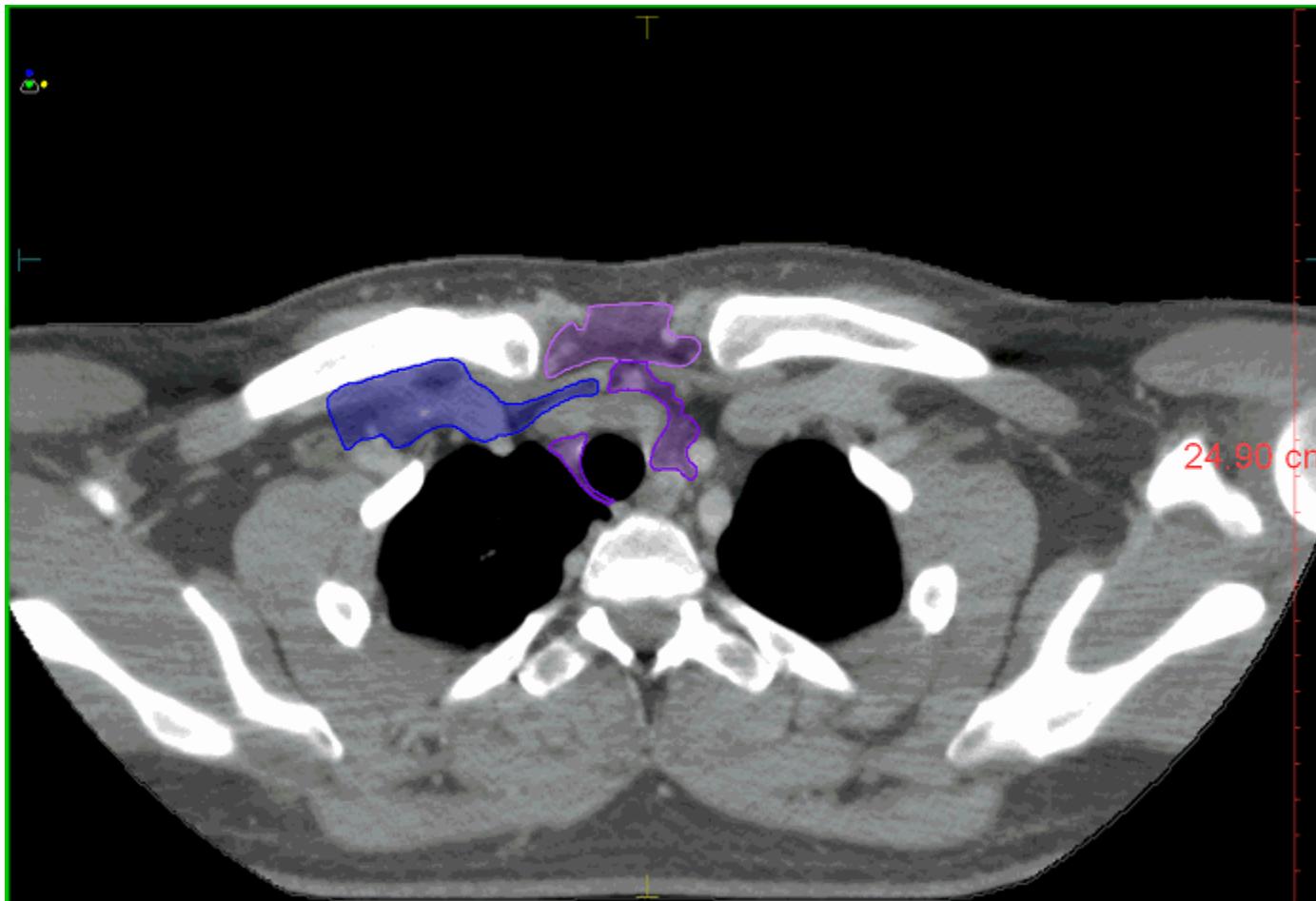
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -17.00



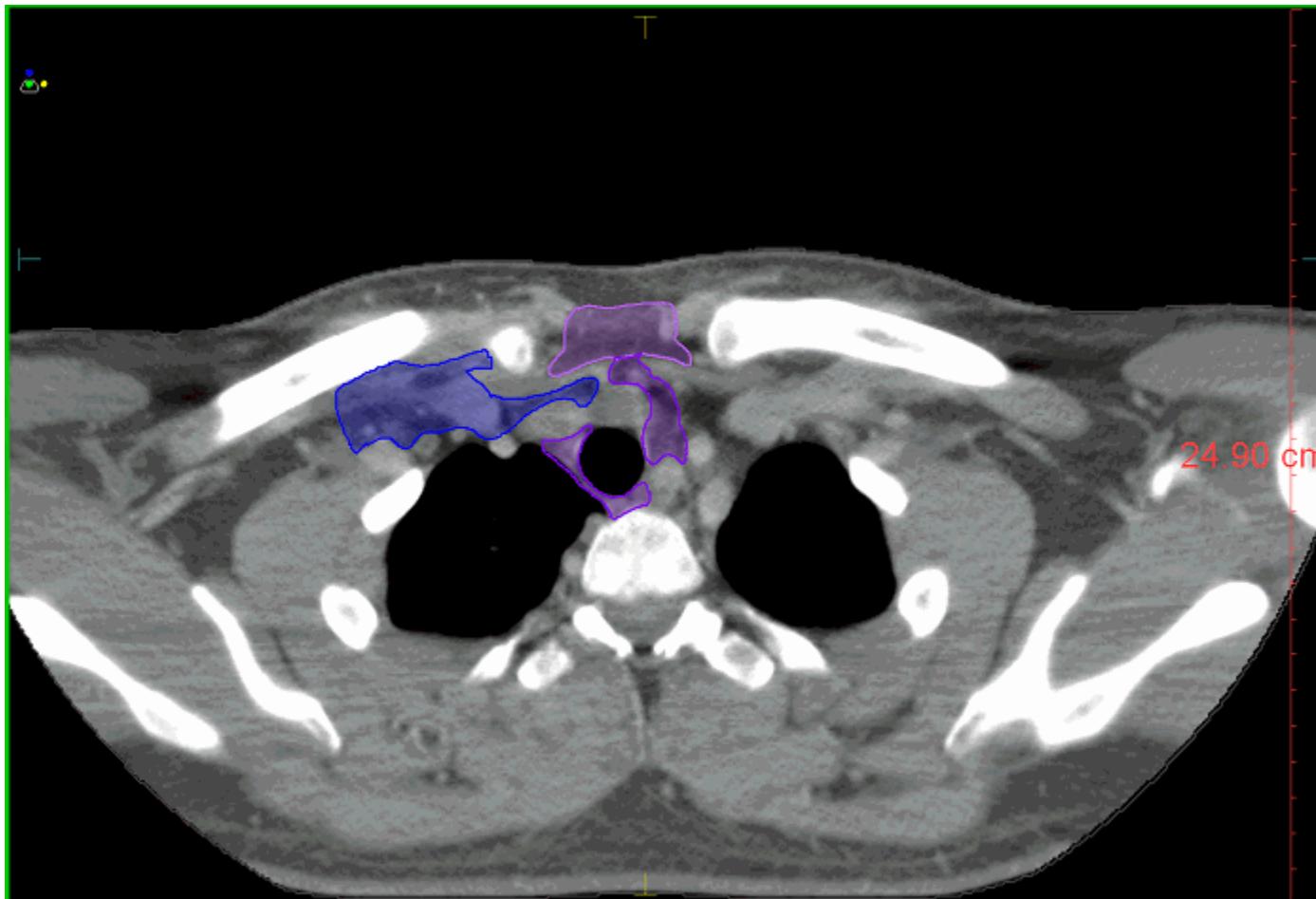
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -16.80



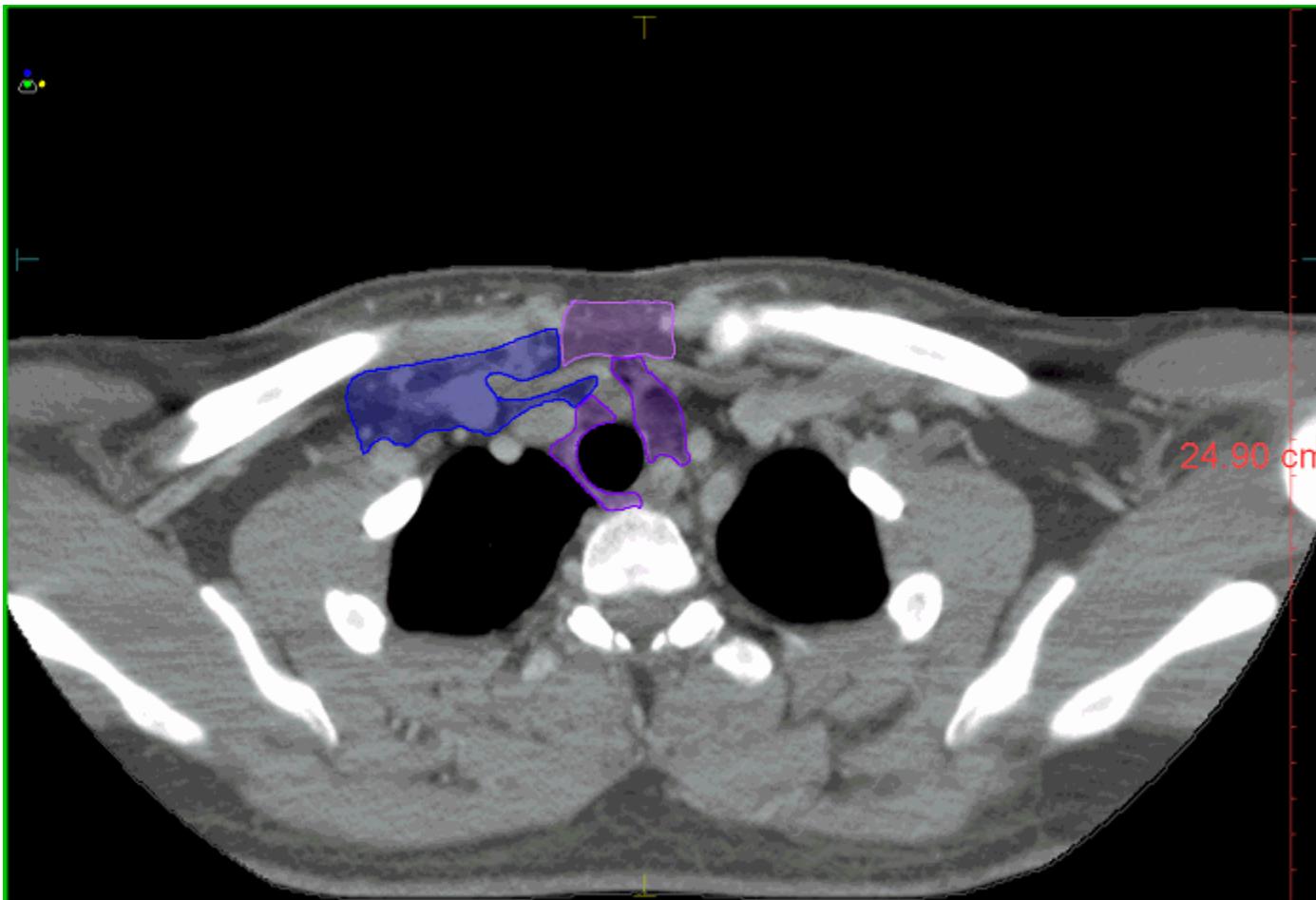
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -16.60



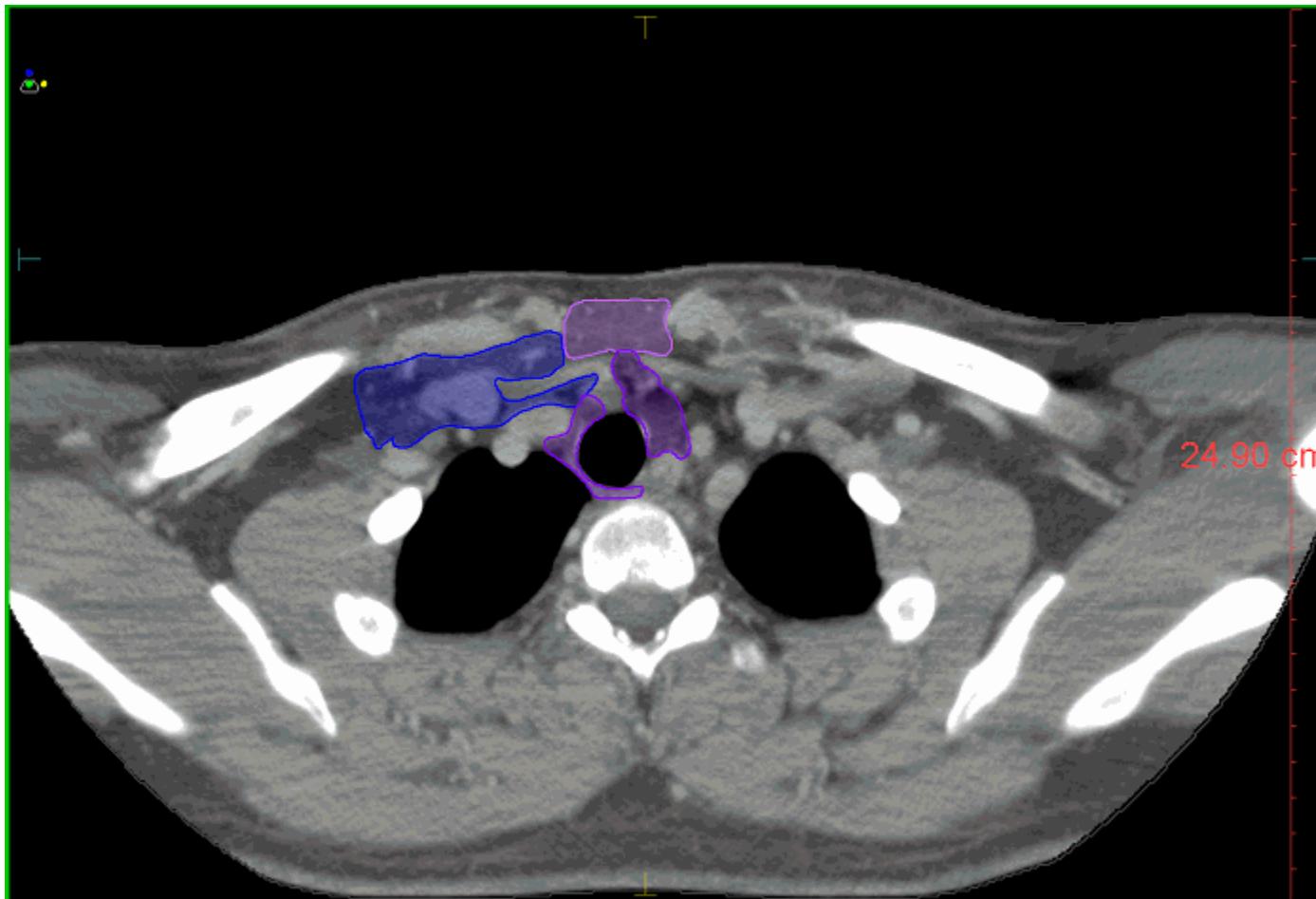
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -16.40

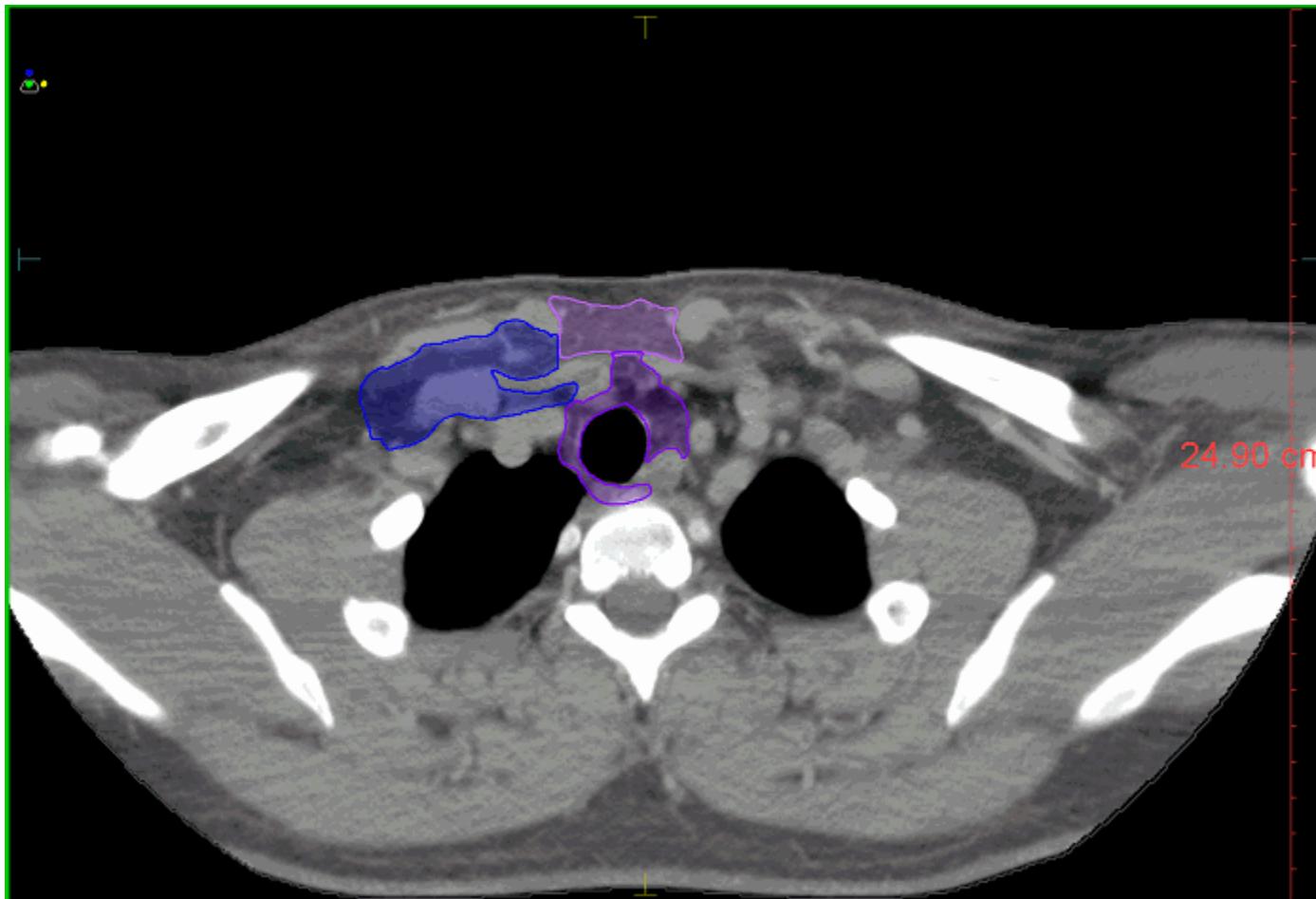


Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -16.20

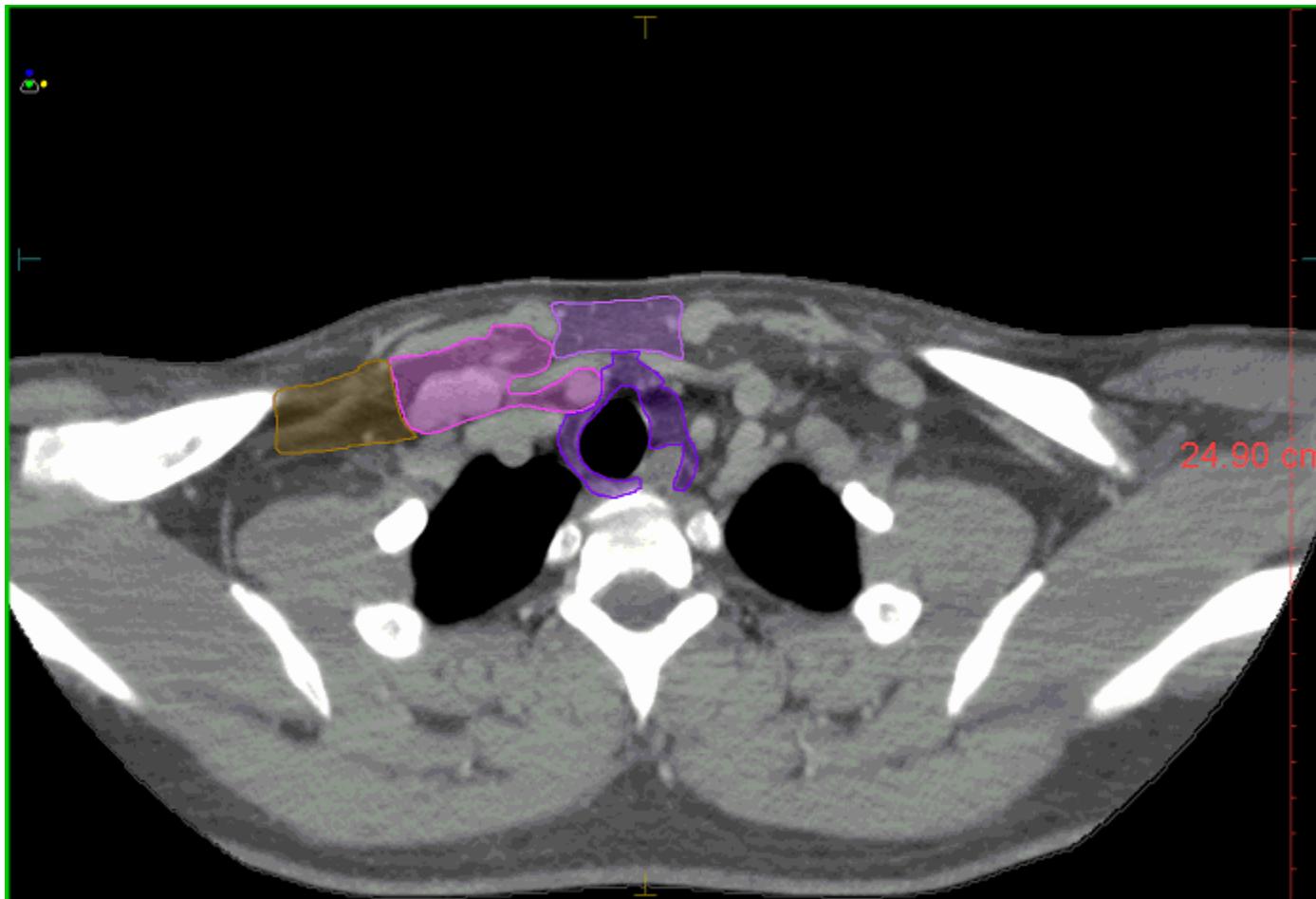


Slice Location(cm): Transverse: -16.00



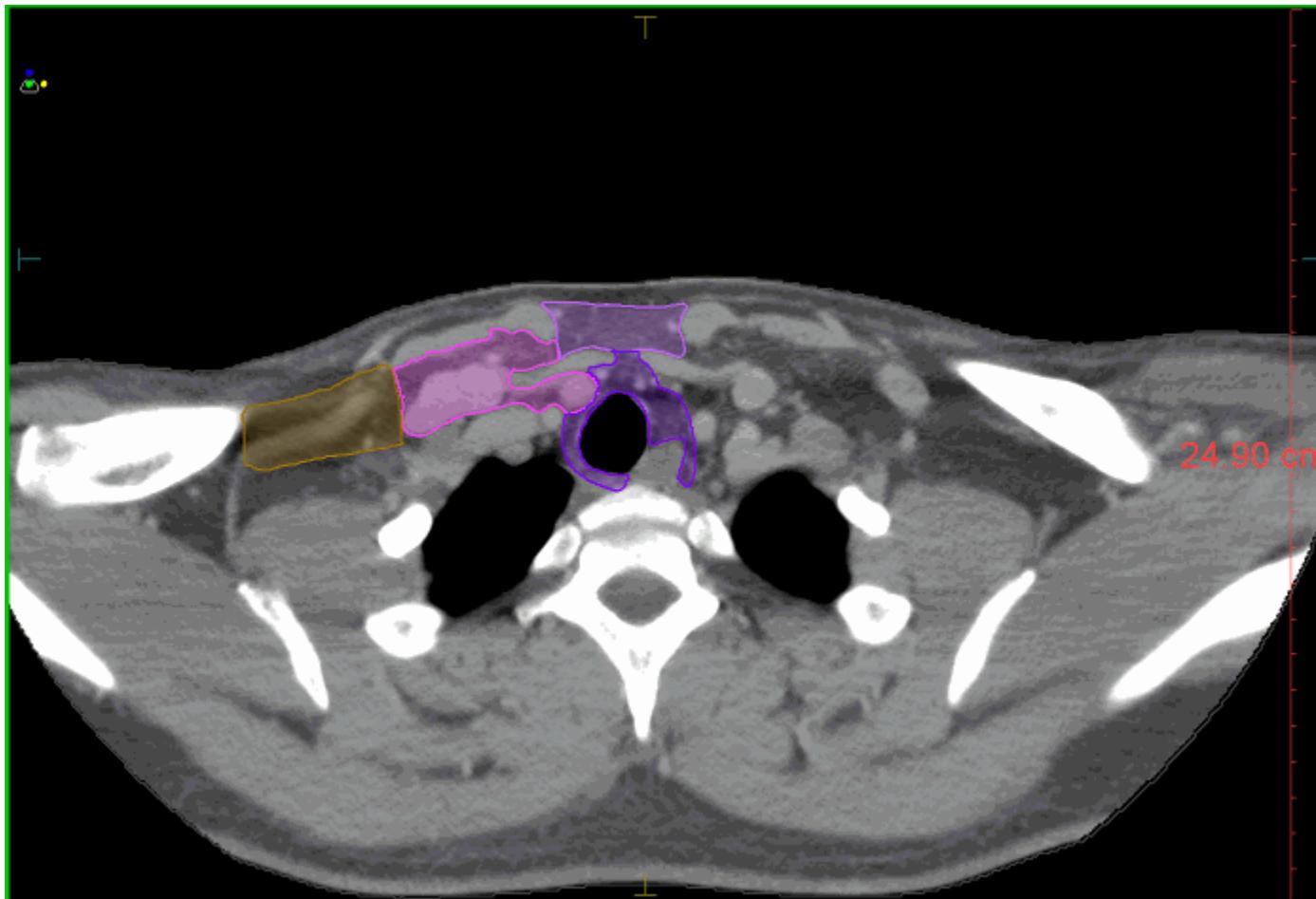
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -15.80



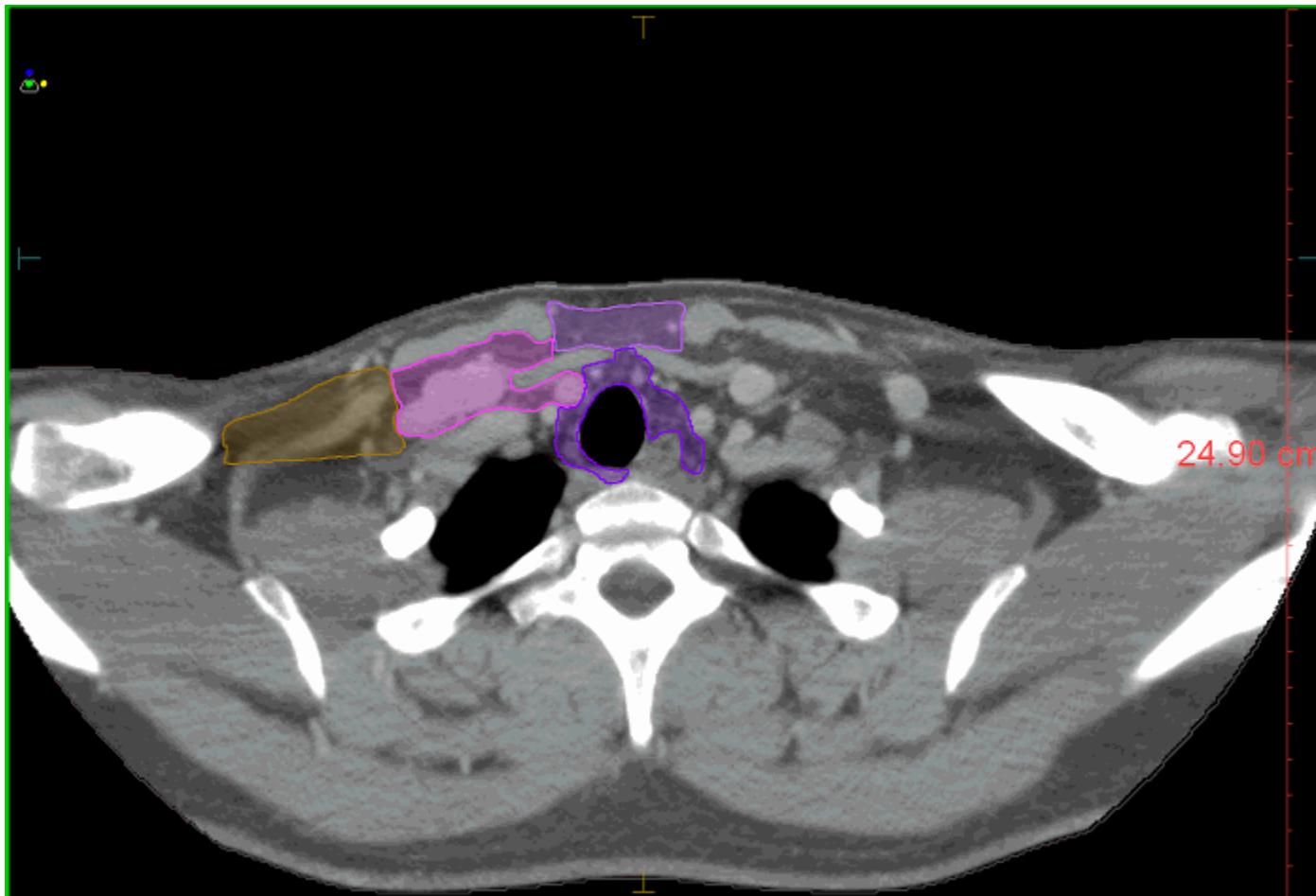
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -15.60



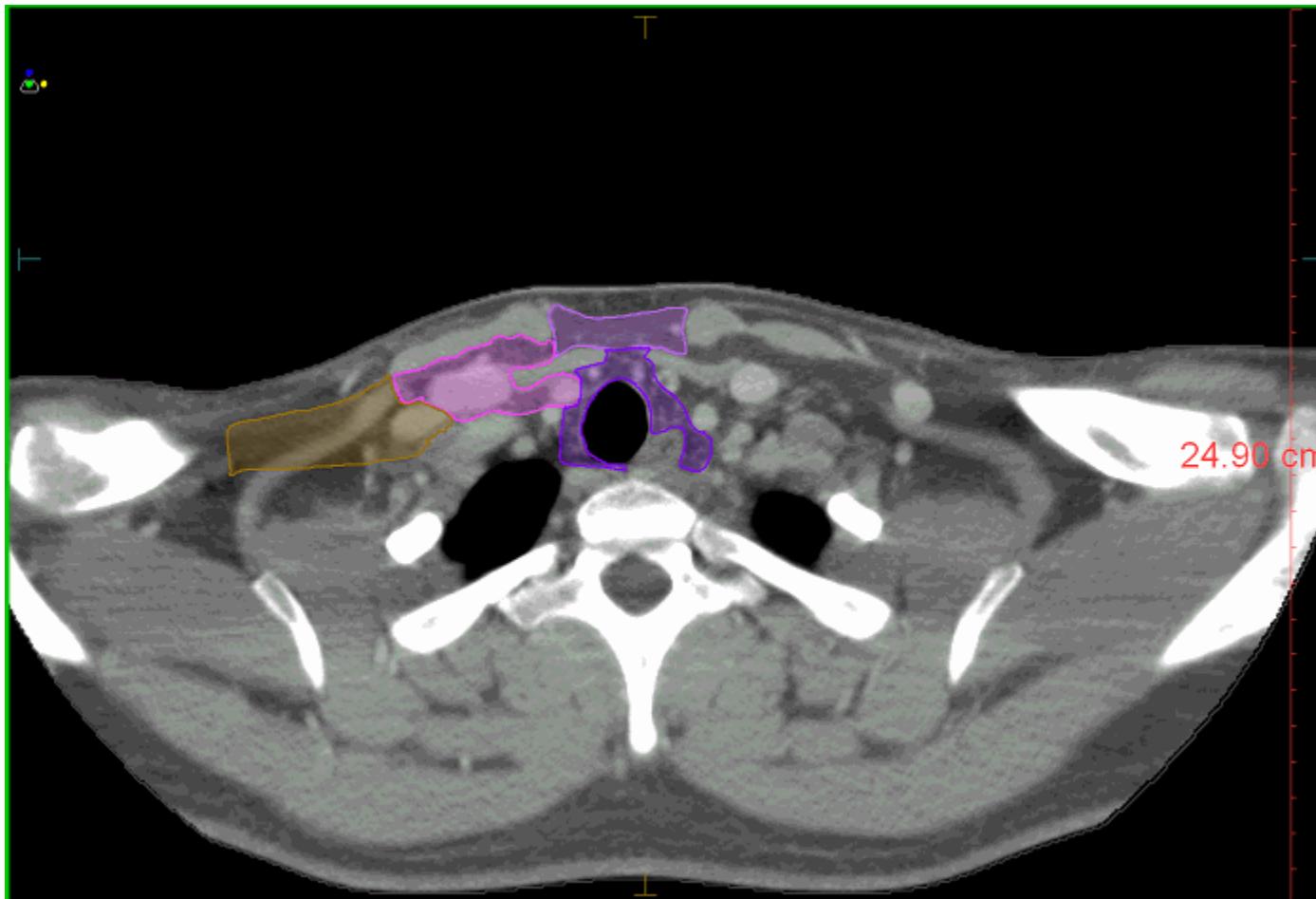
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -15.40



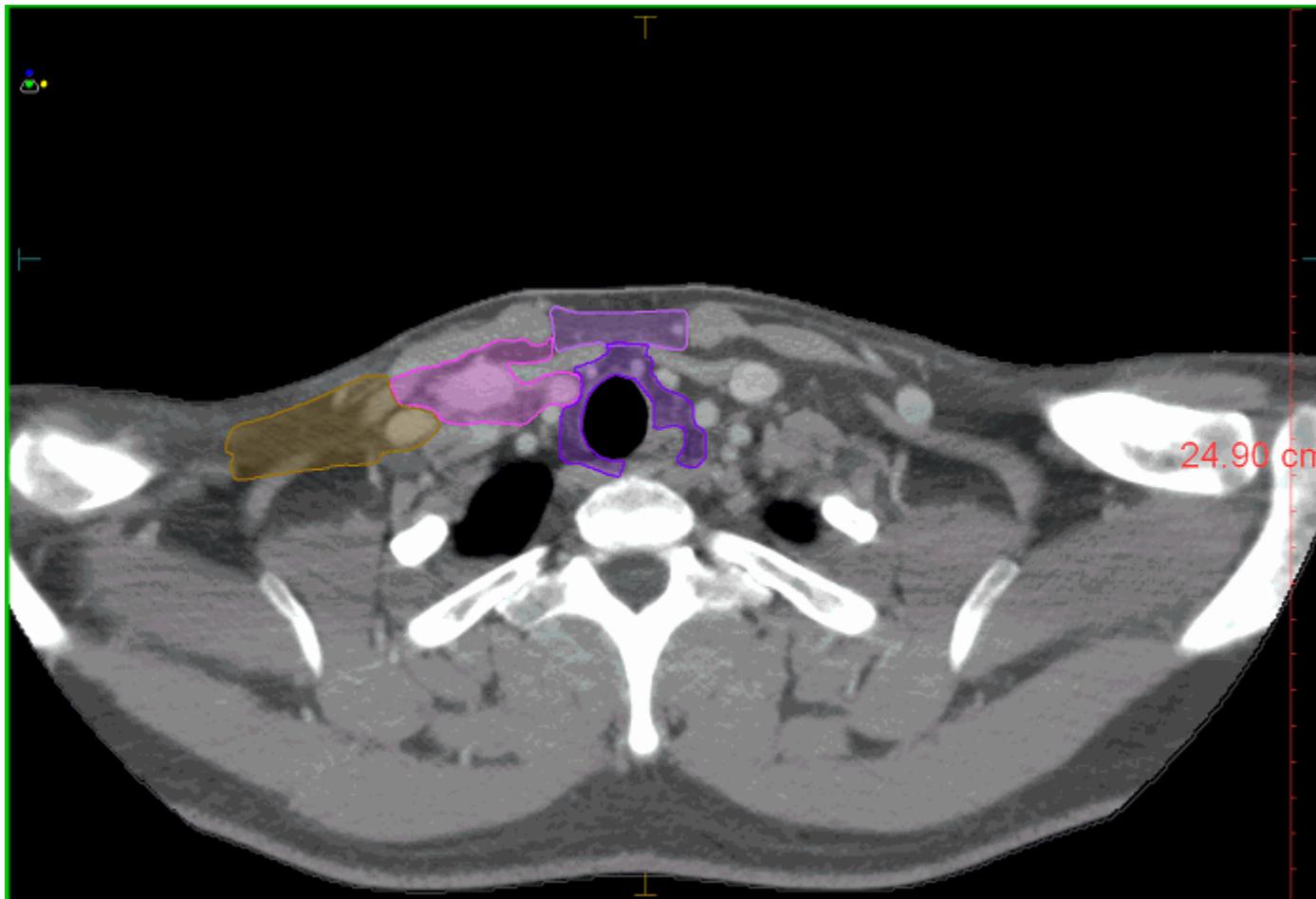
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -15.20



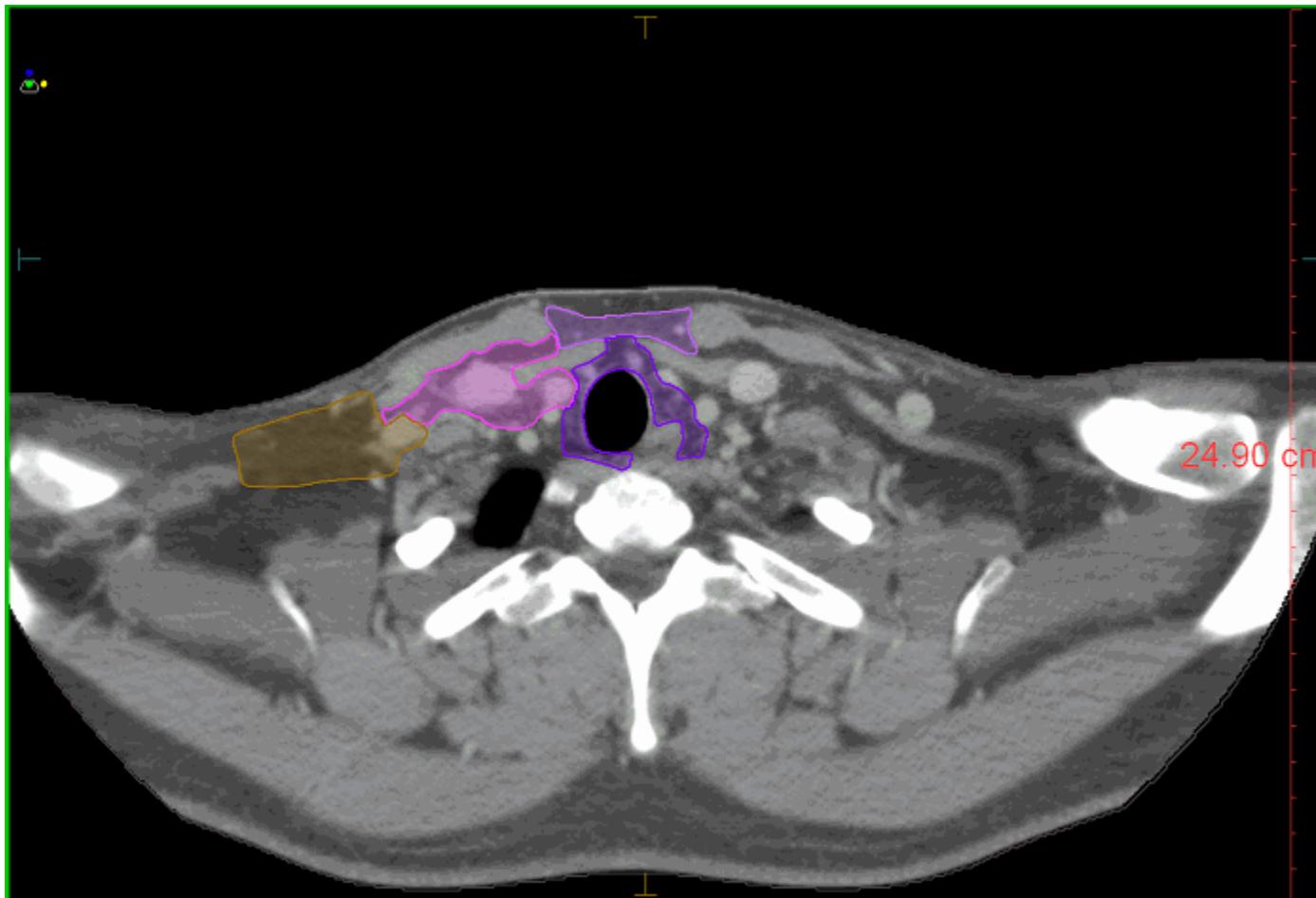
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -15.00



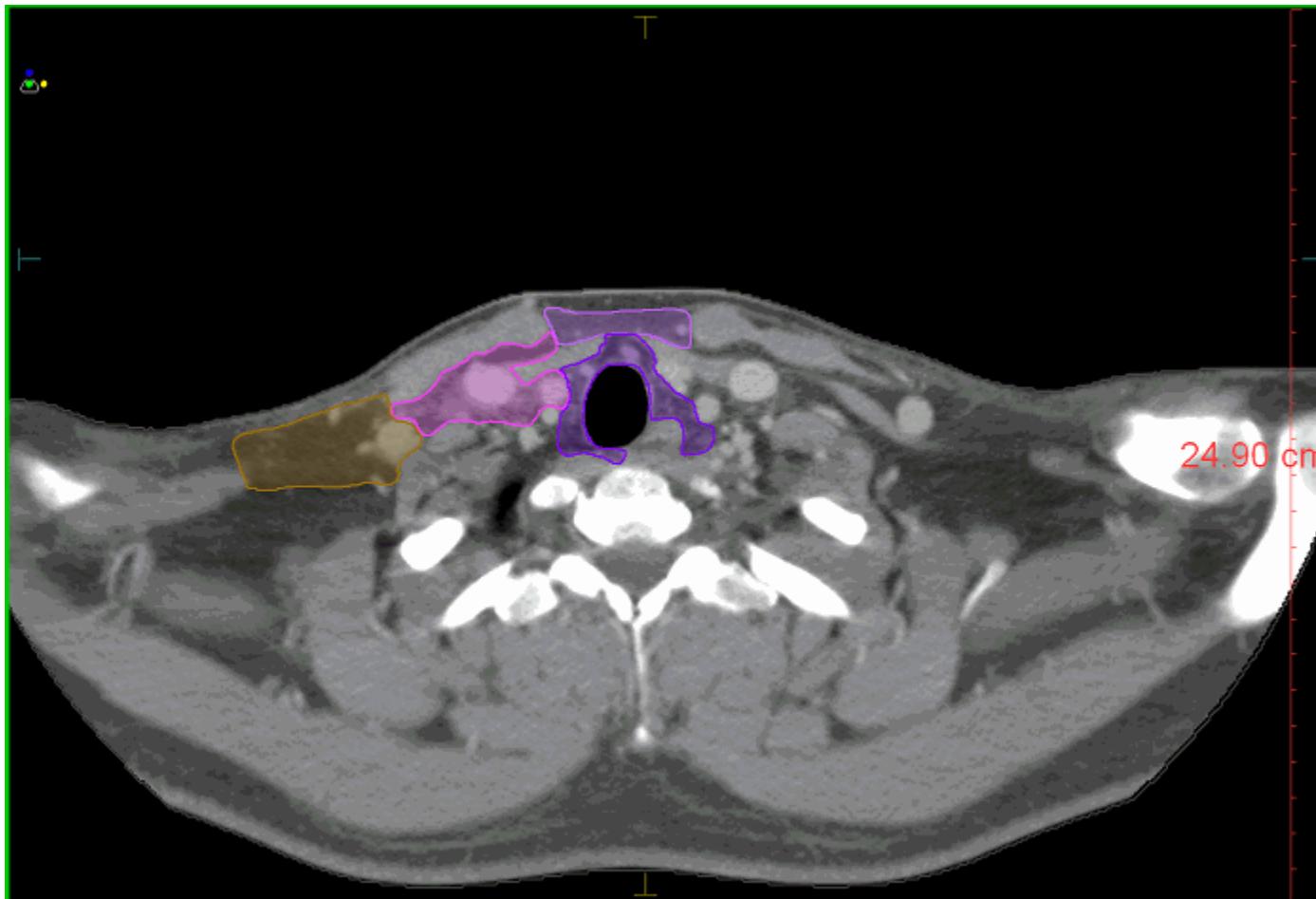
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -14.80



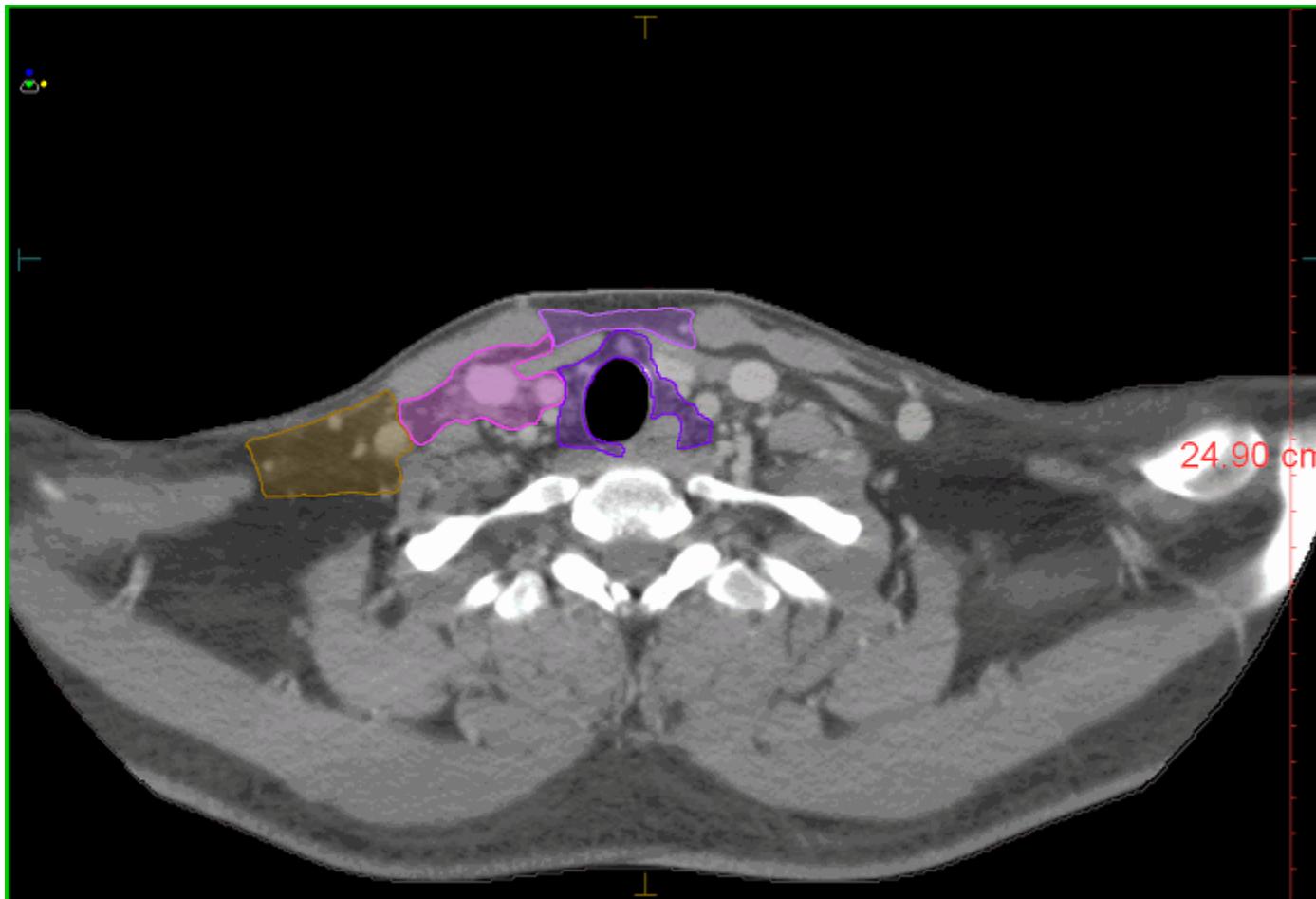
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -14.60



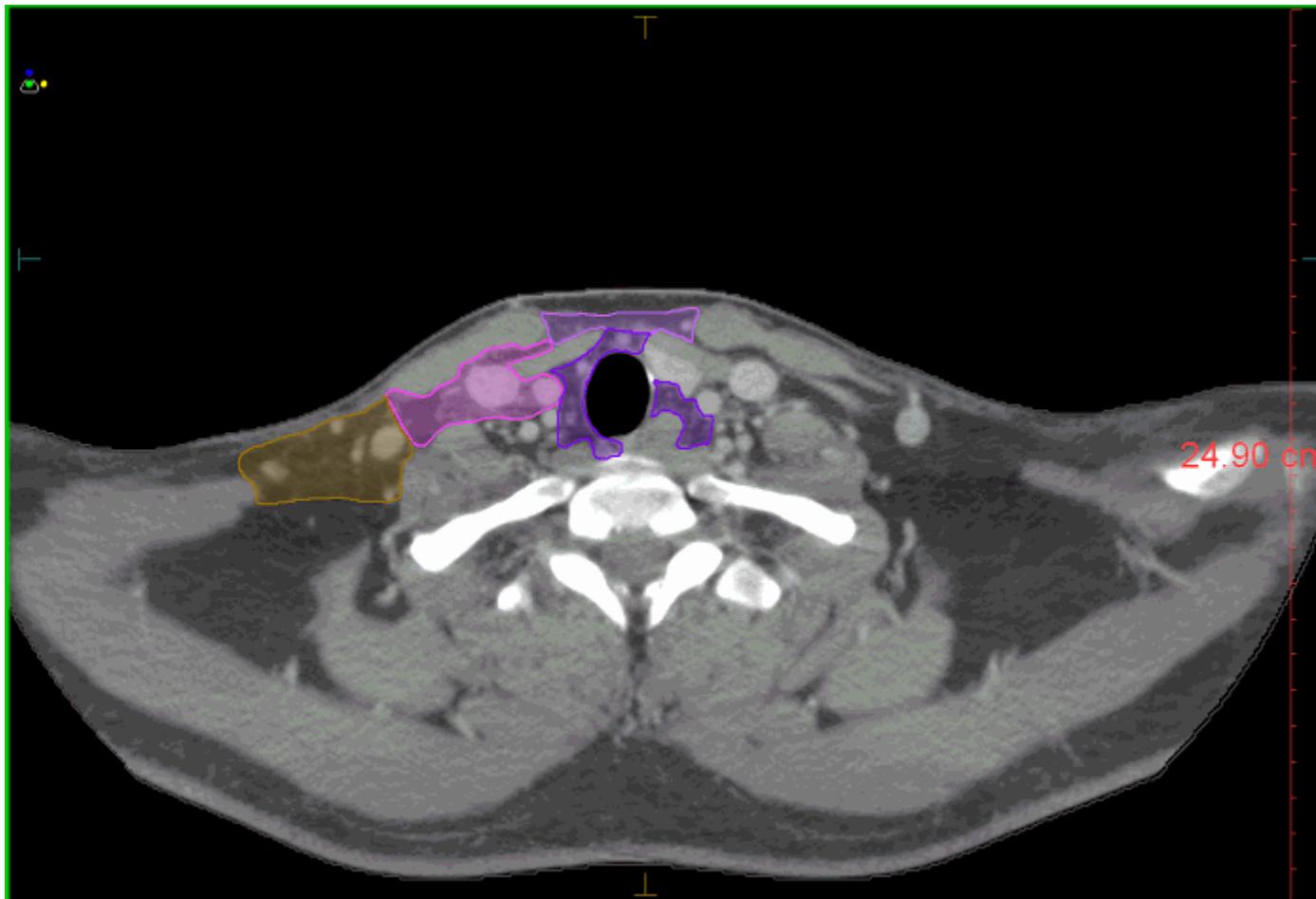
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -14.40



Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -14.20



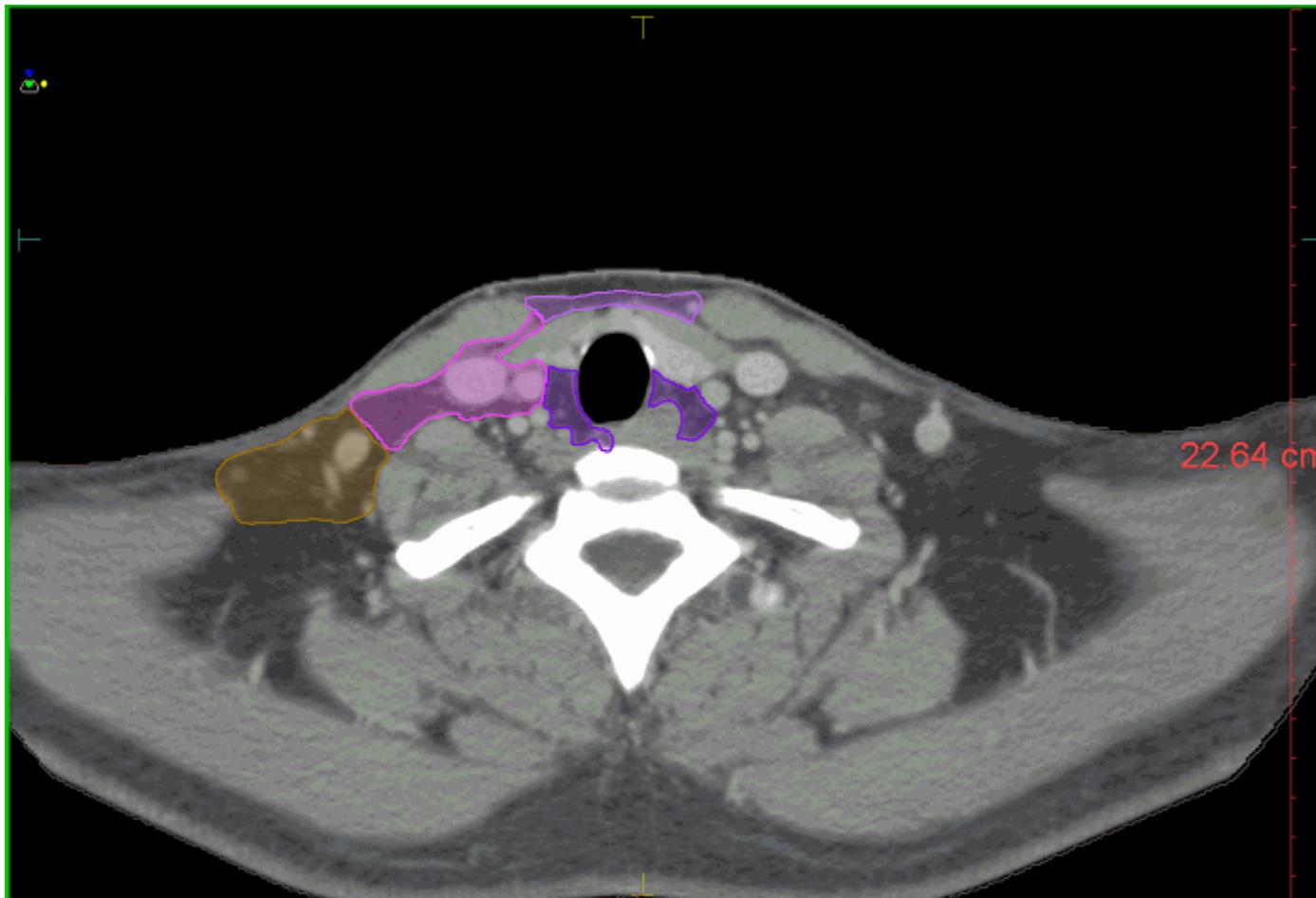
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -14.00



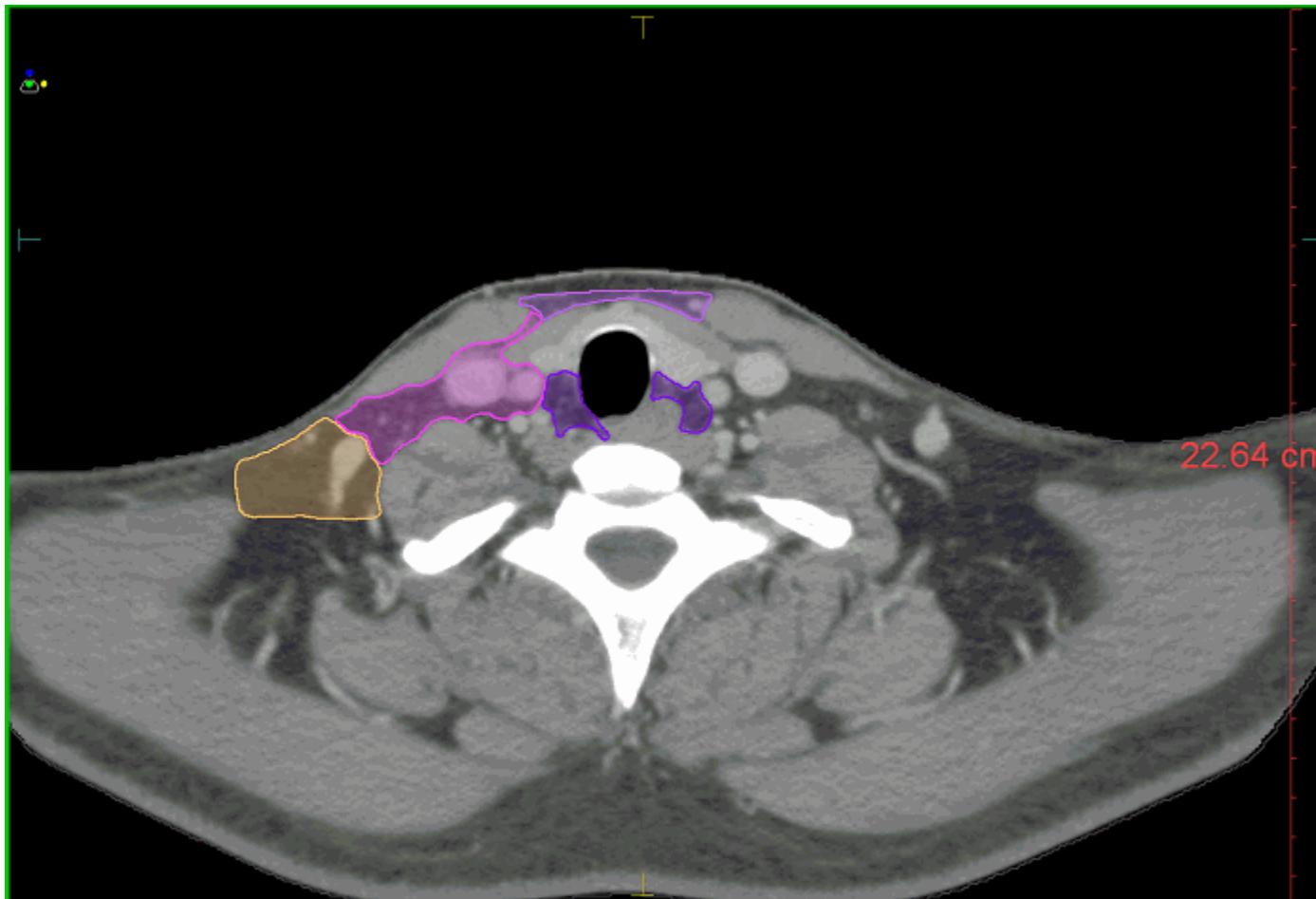
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -13.80



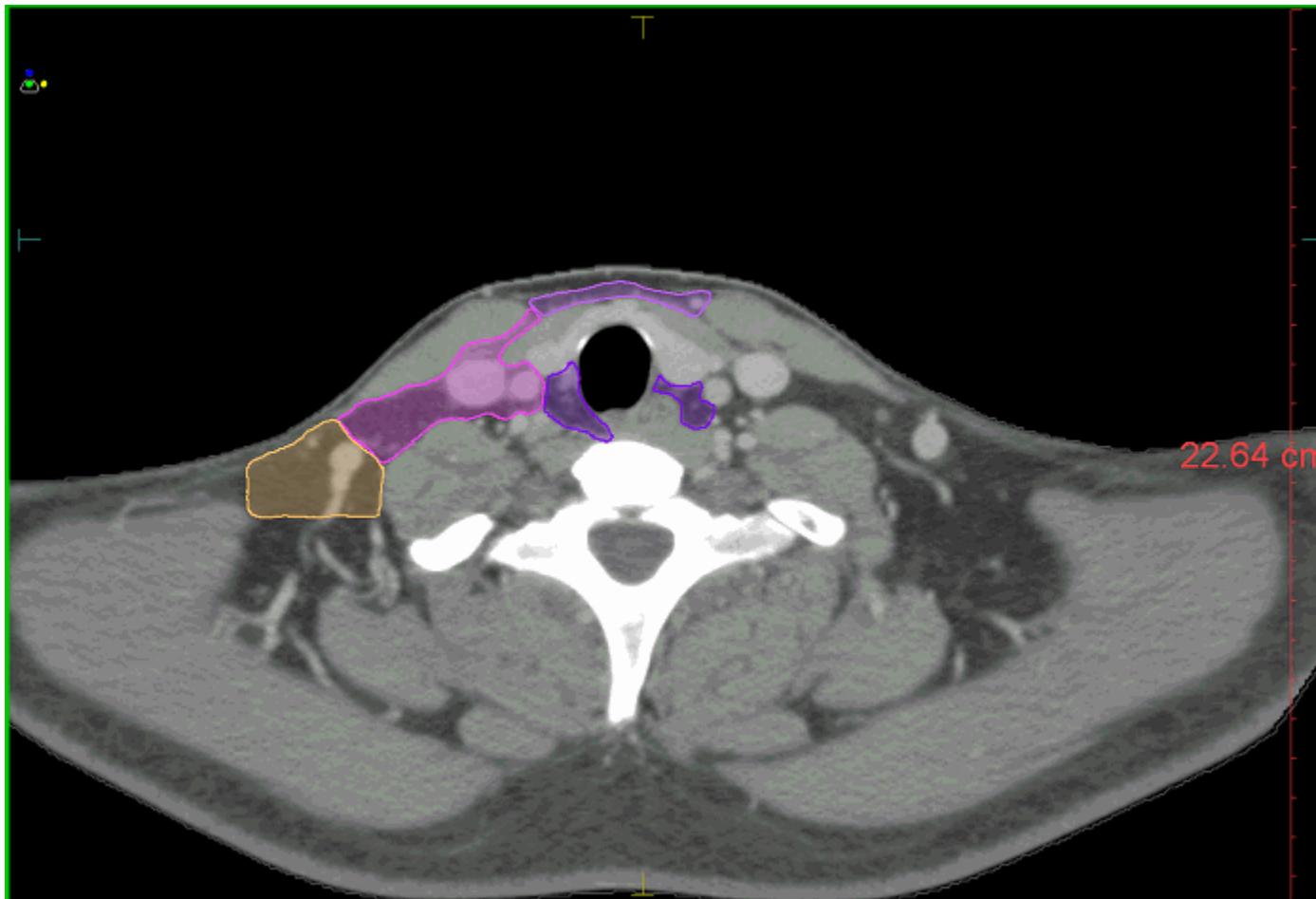
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -13.60



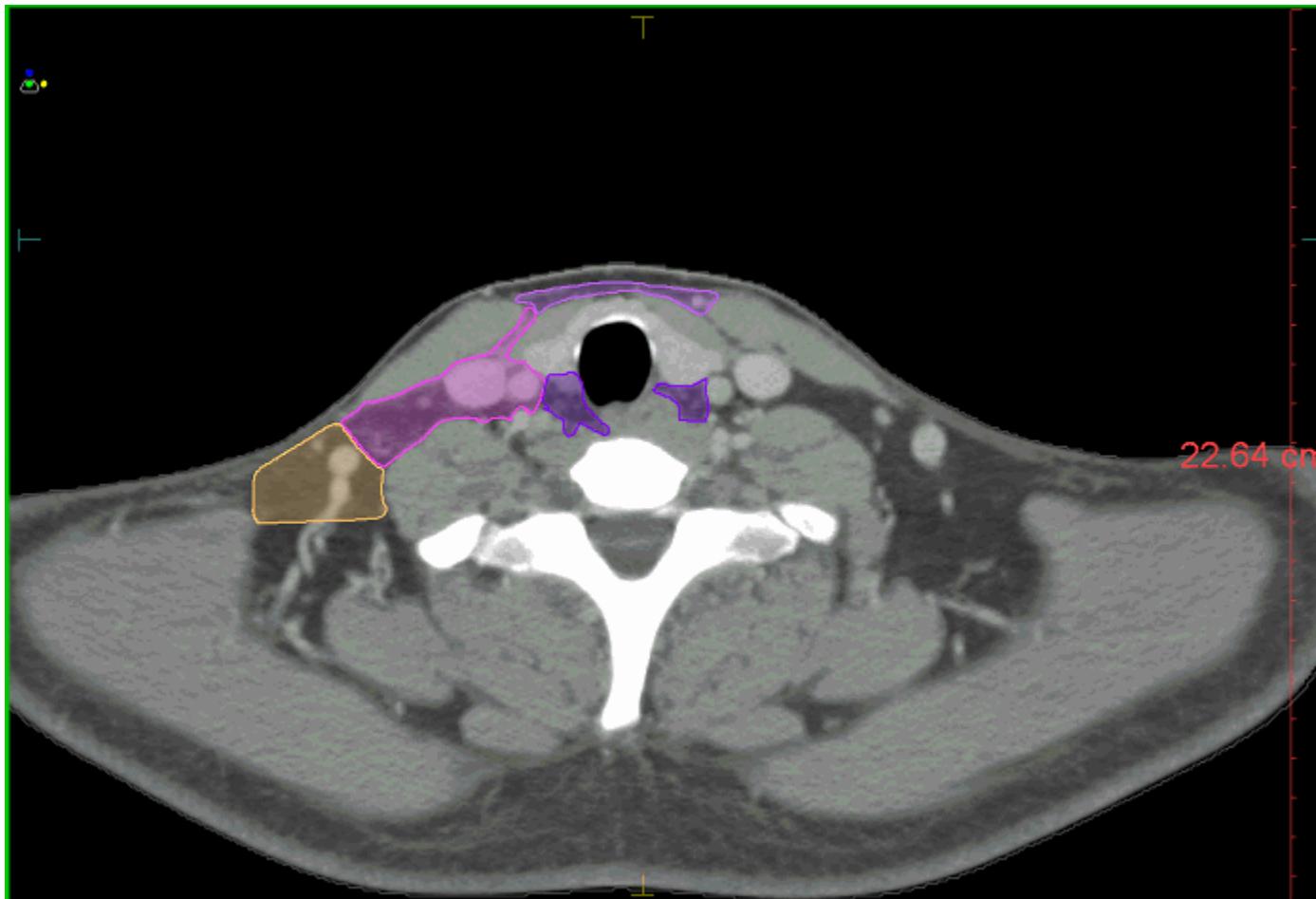
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -13.40



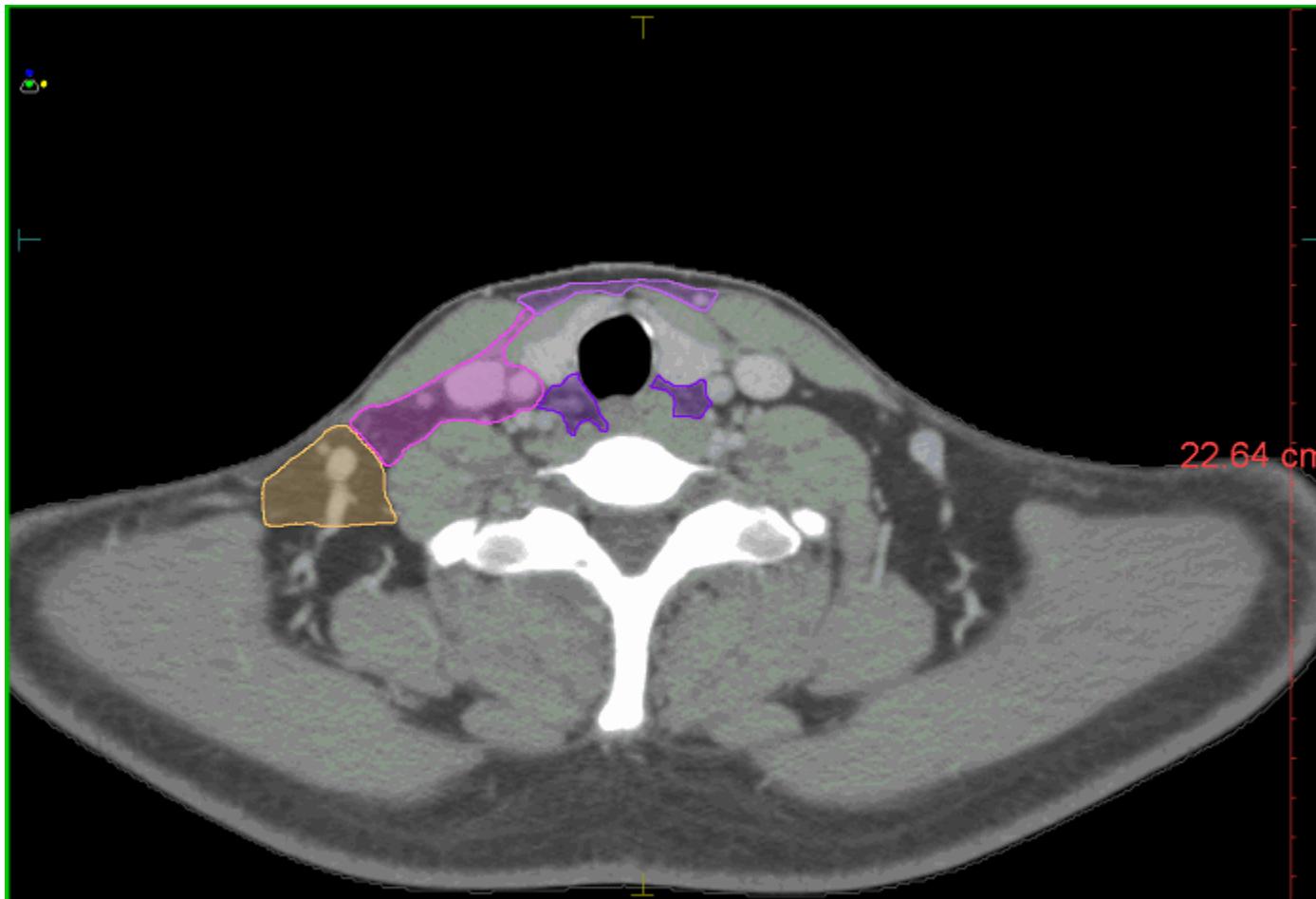
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -13.20



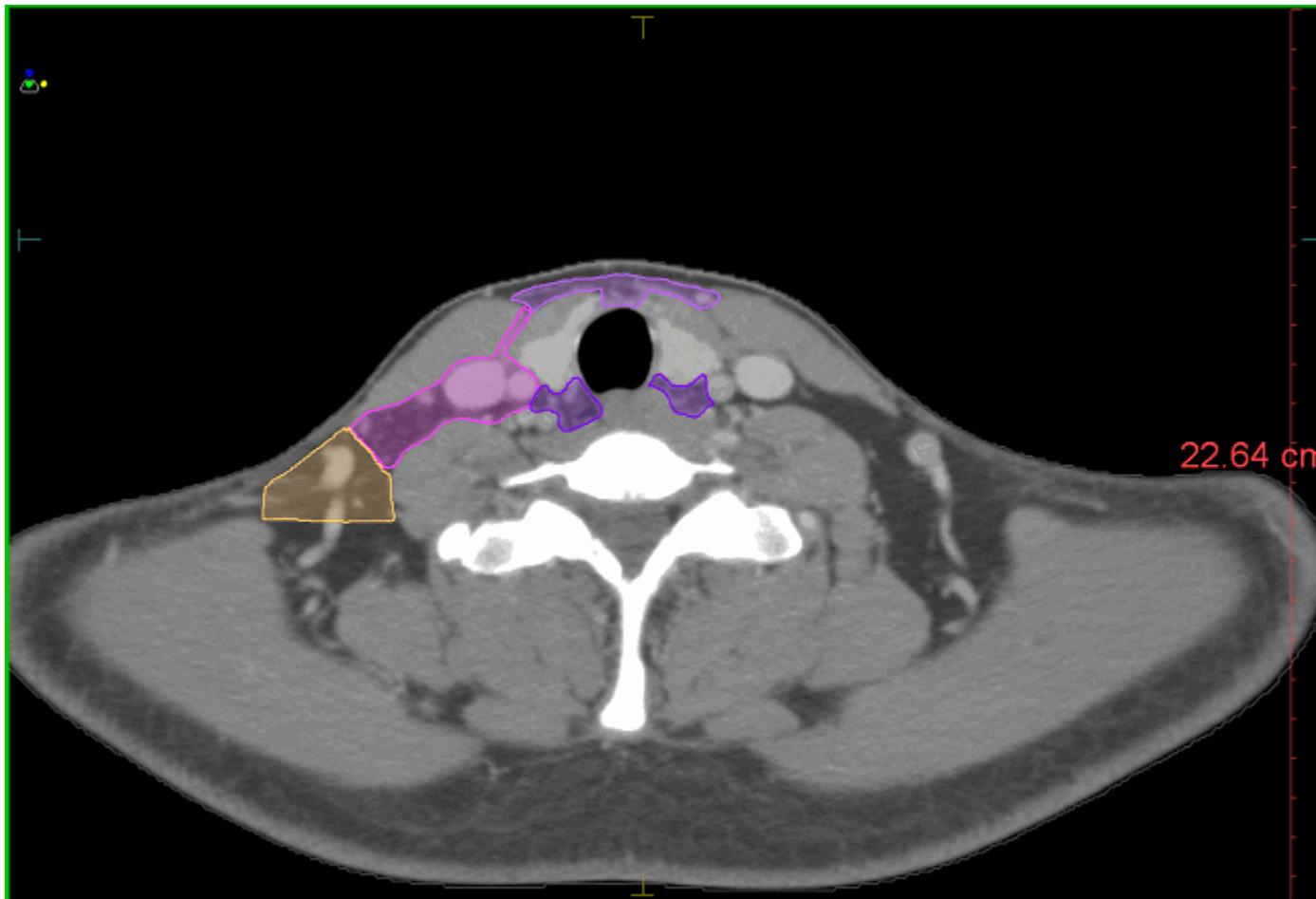
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -13.00



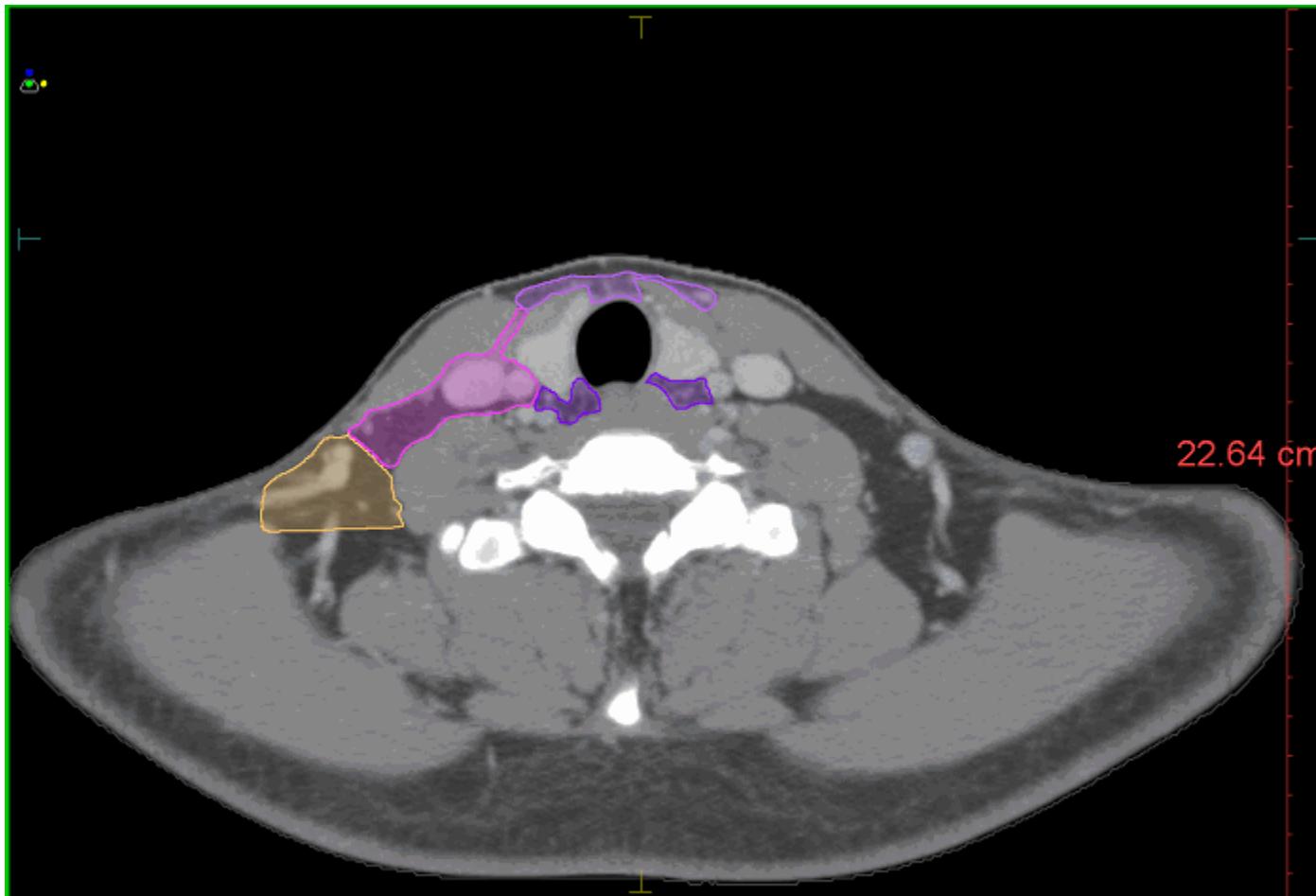
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -12.80



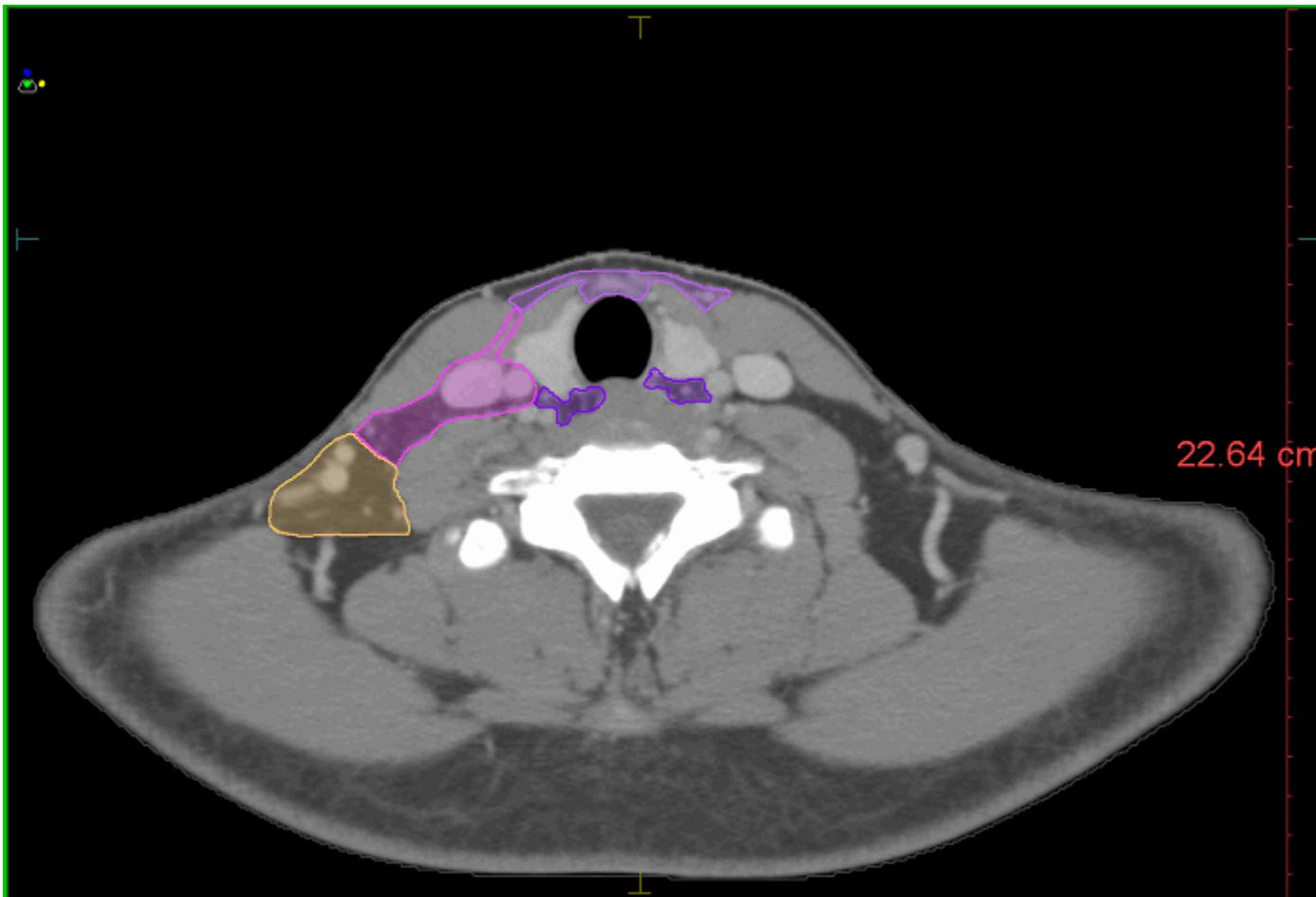
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -12.60



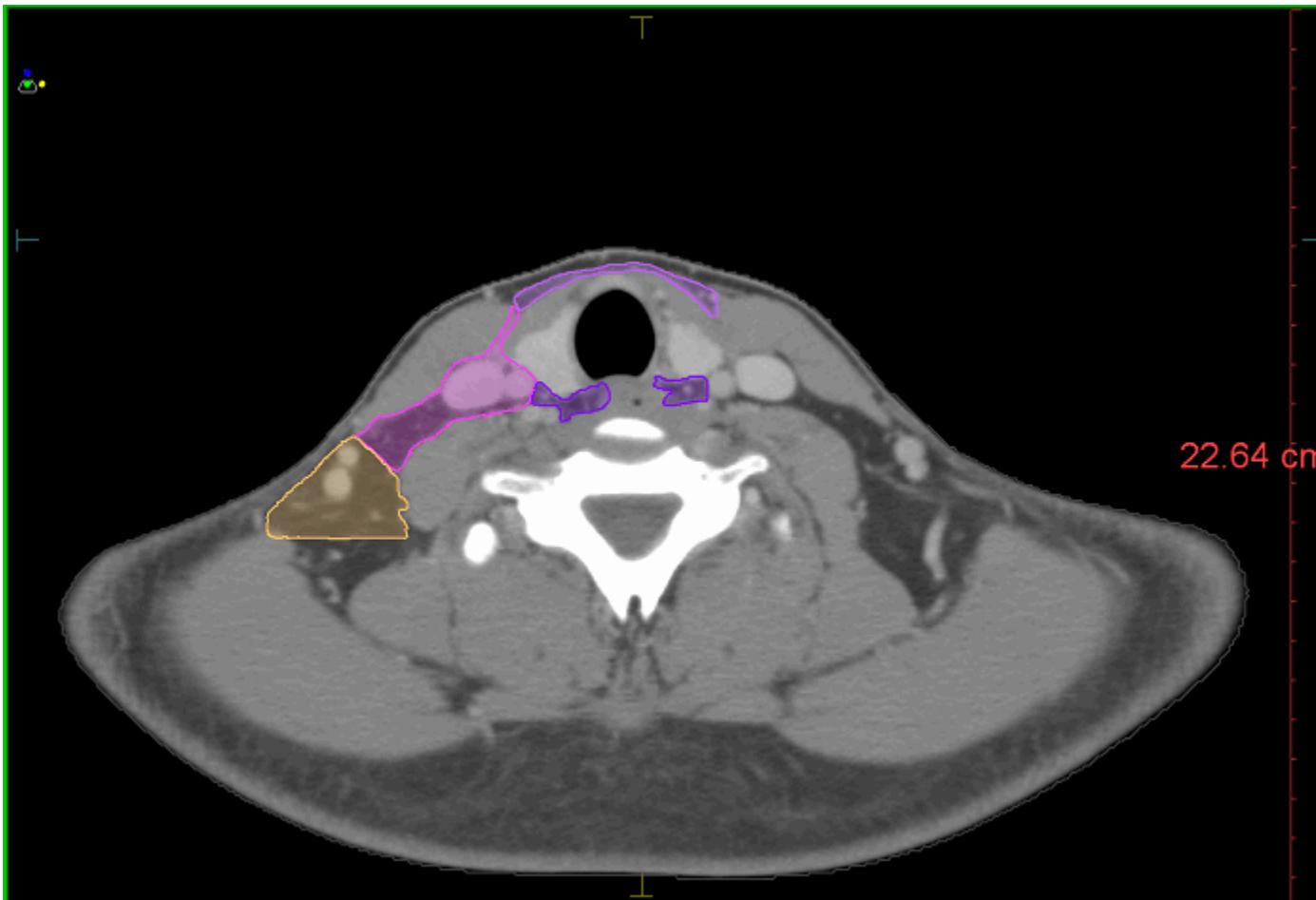
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -12.40



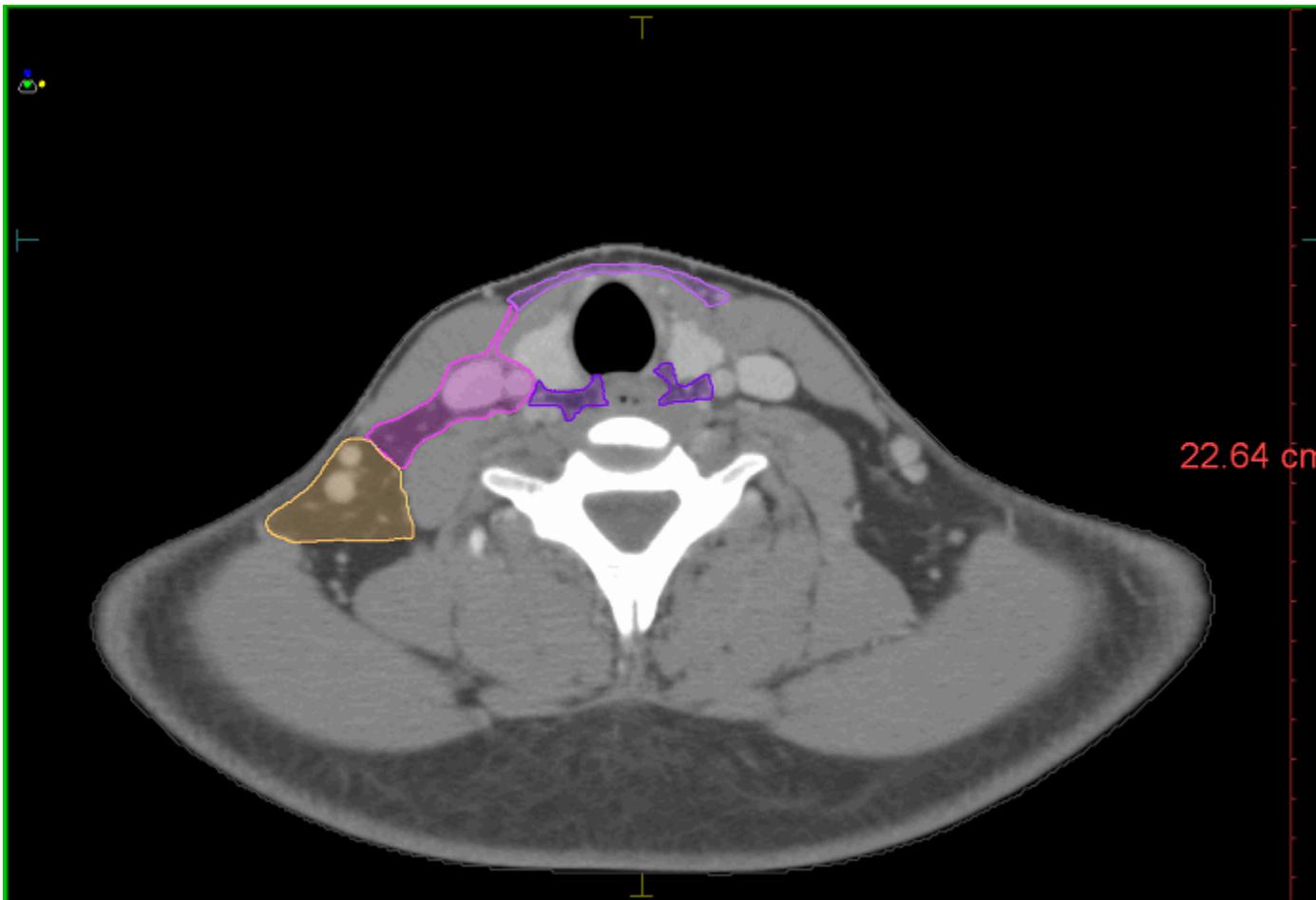
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -12.20



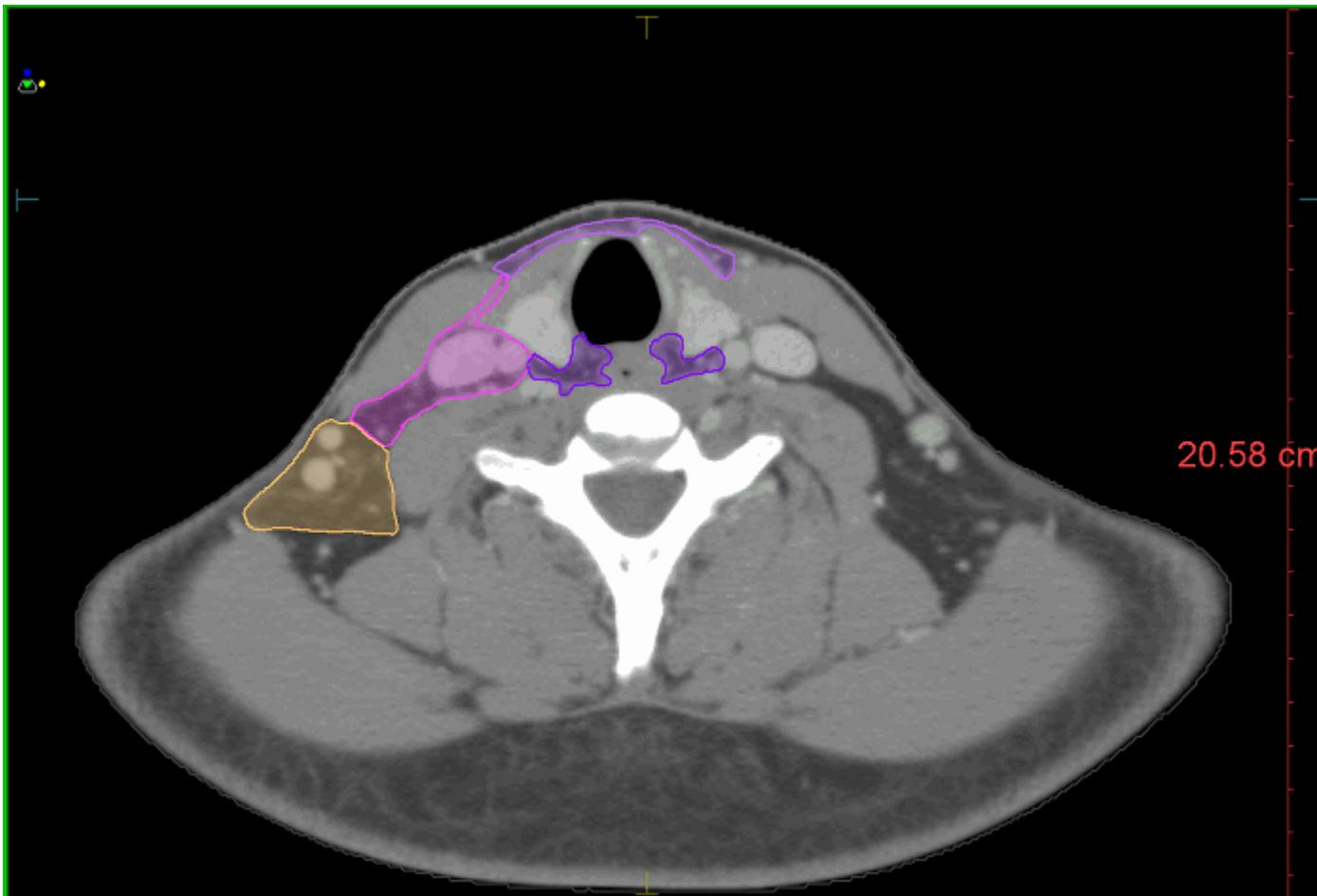
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
violet	Level VIb

Slice Location(cm): Transverse: -12.00



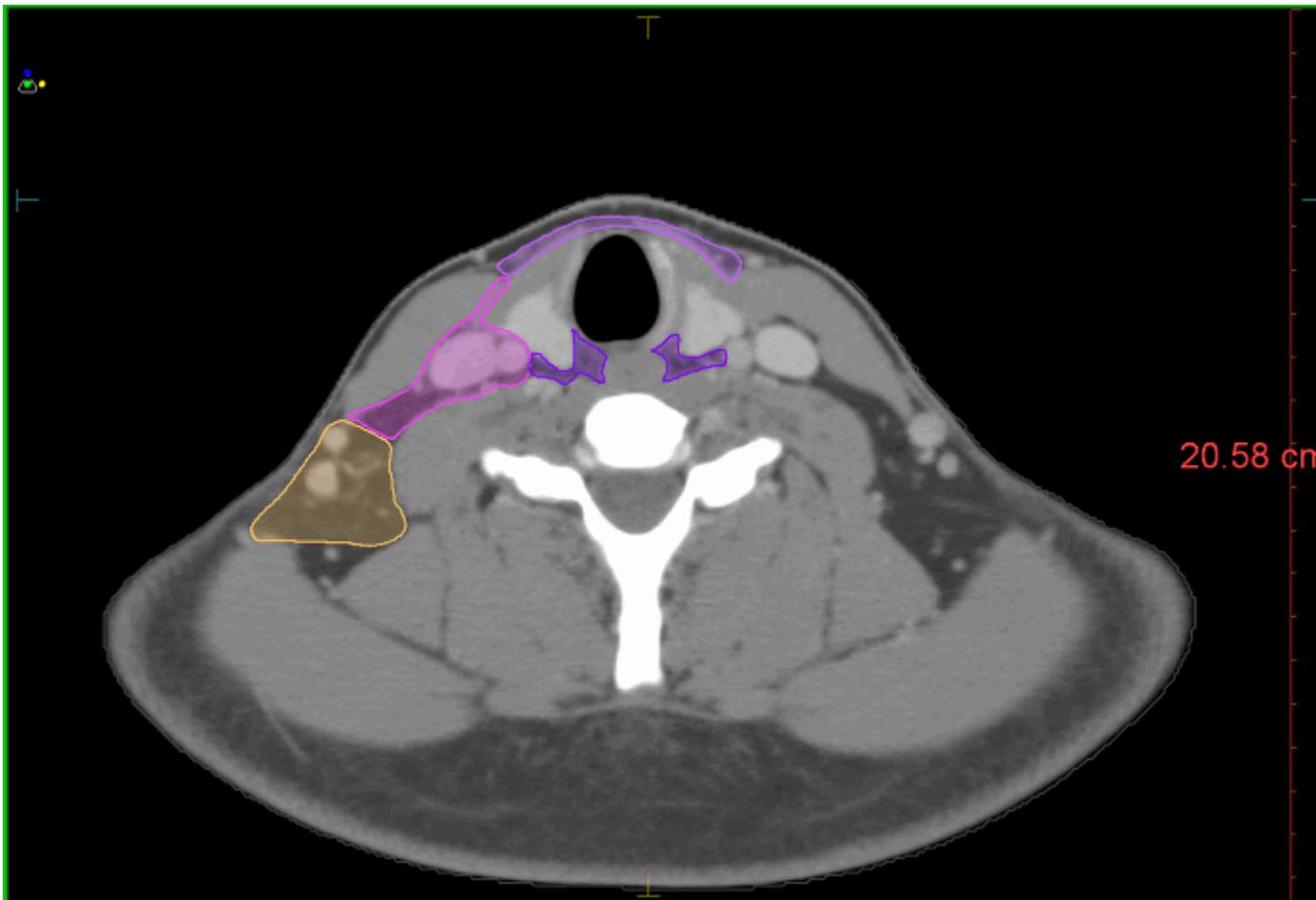
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -11.80



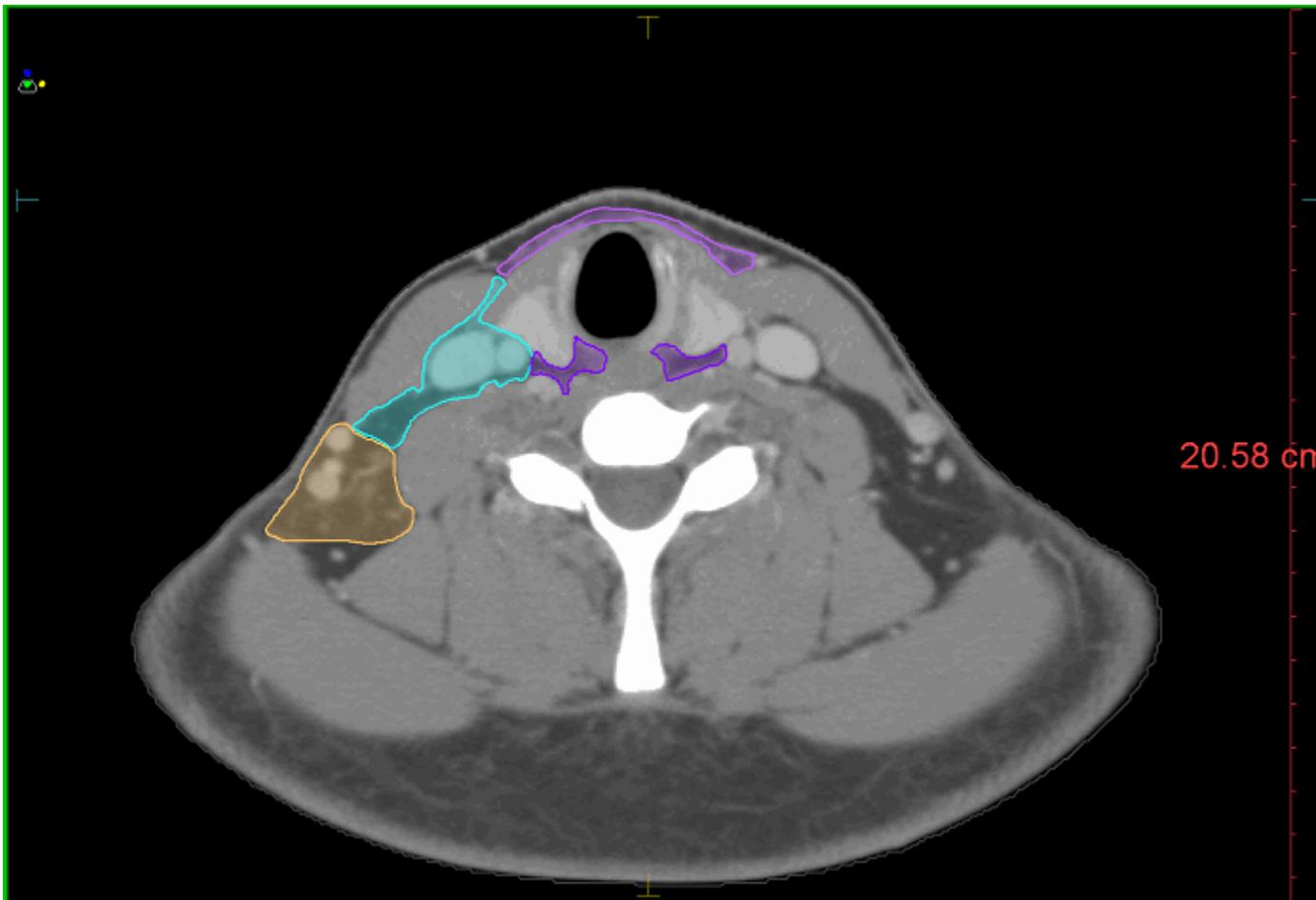
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level XIb

Slice Location(cm): Transverse: -11.60



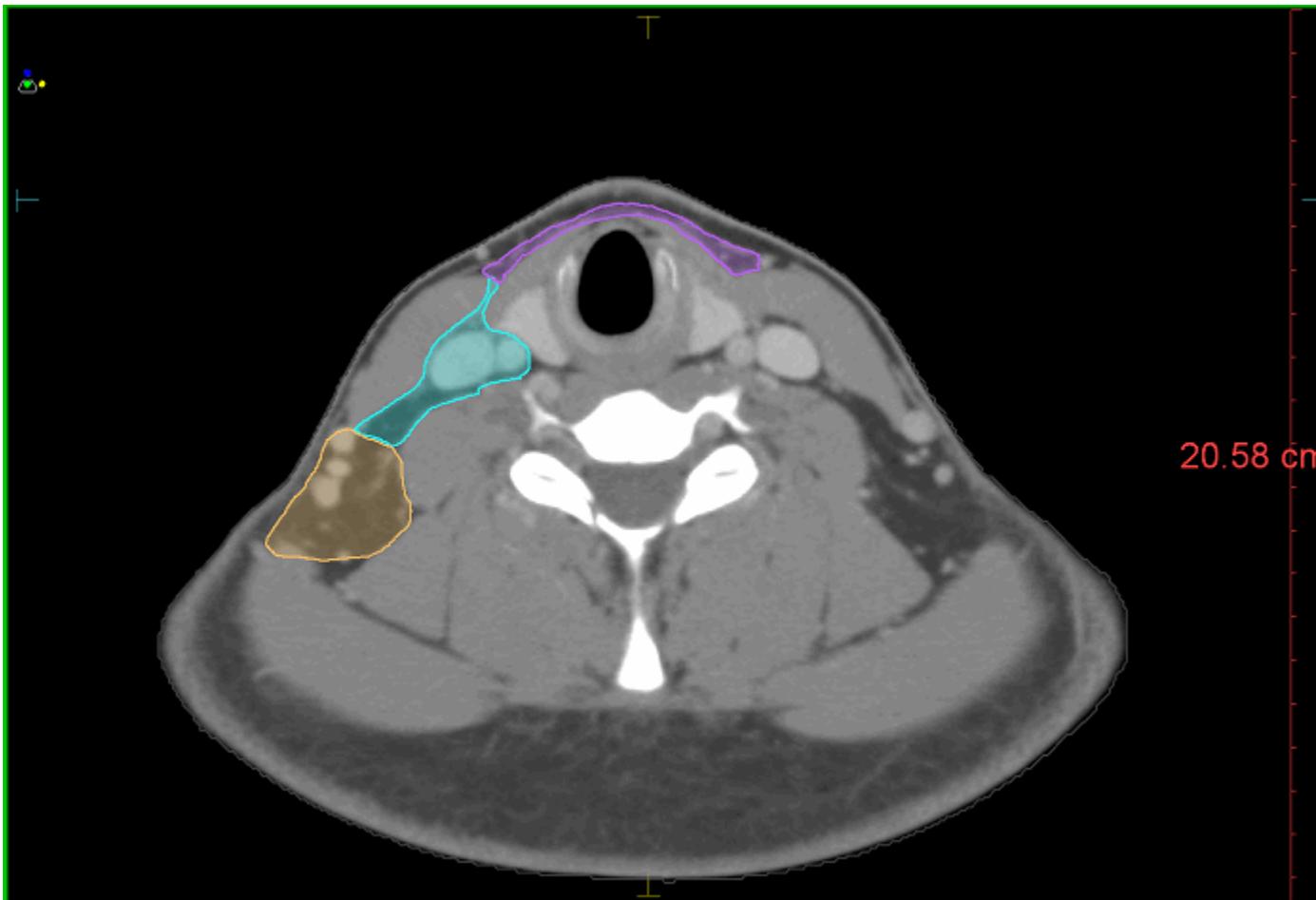
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -11.40



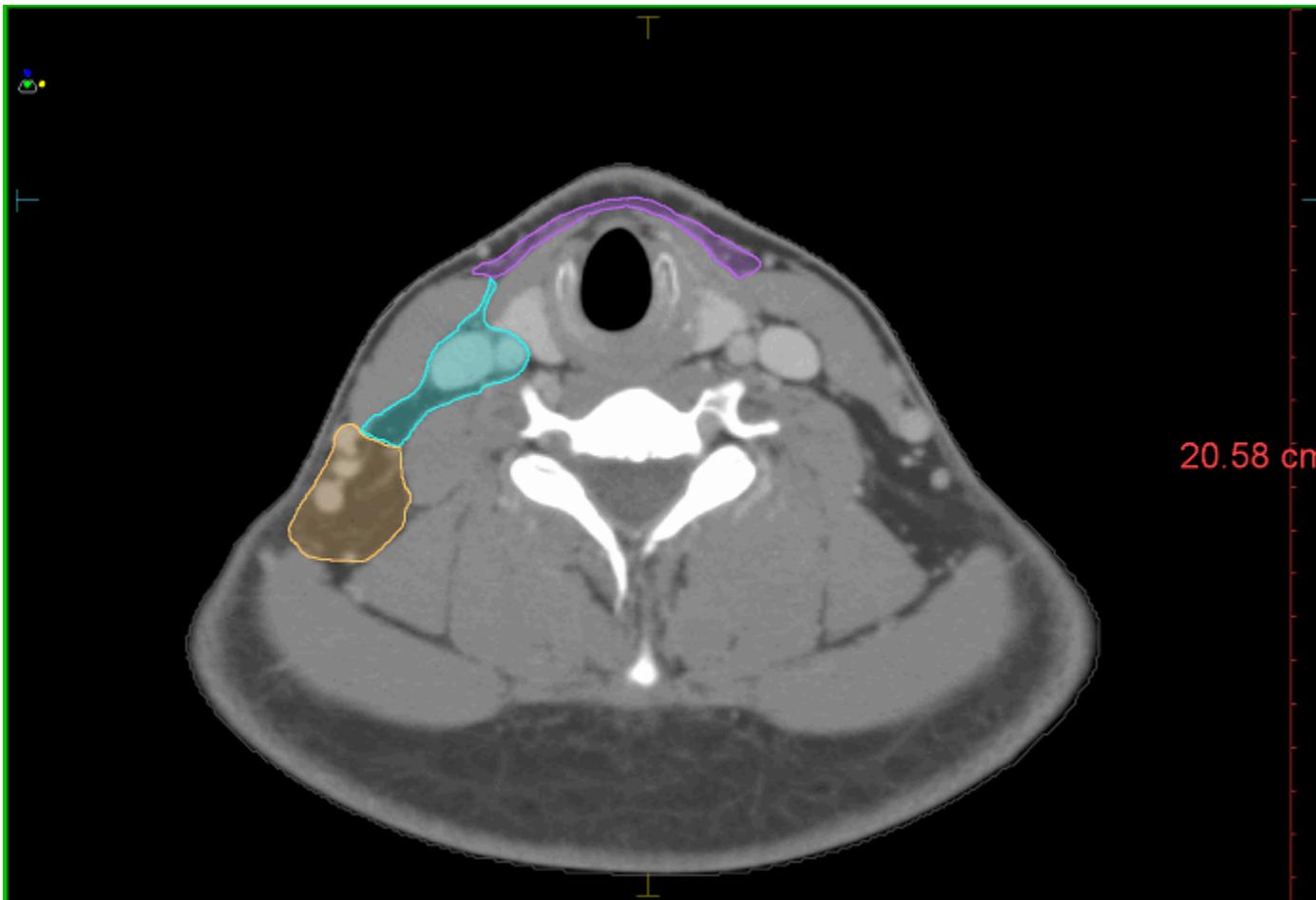
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
violet	Level VIb

Slice Location(cm): Transverse: -11.20



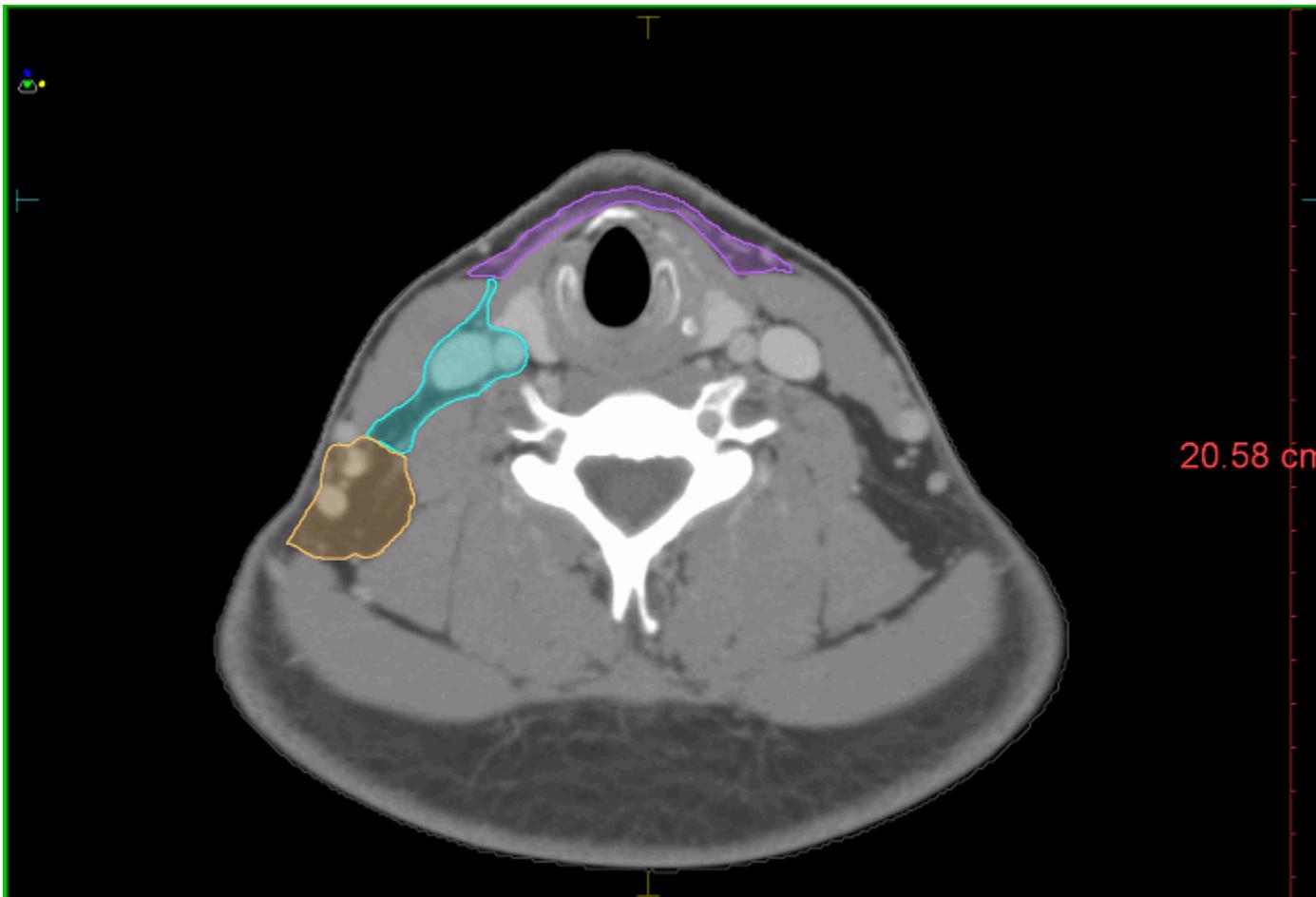
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -11.00



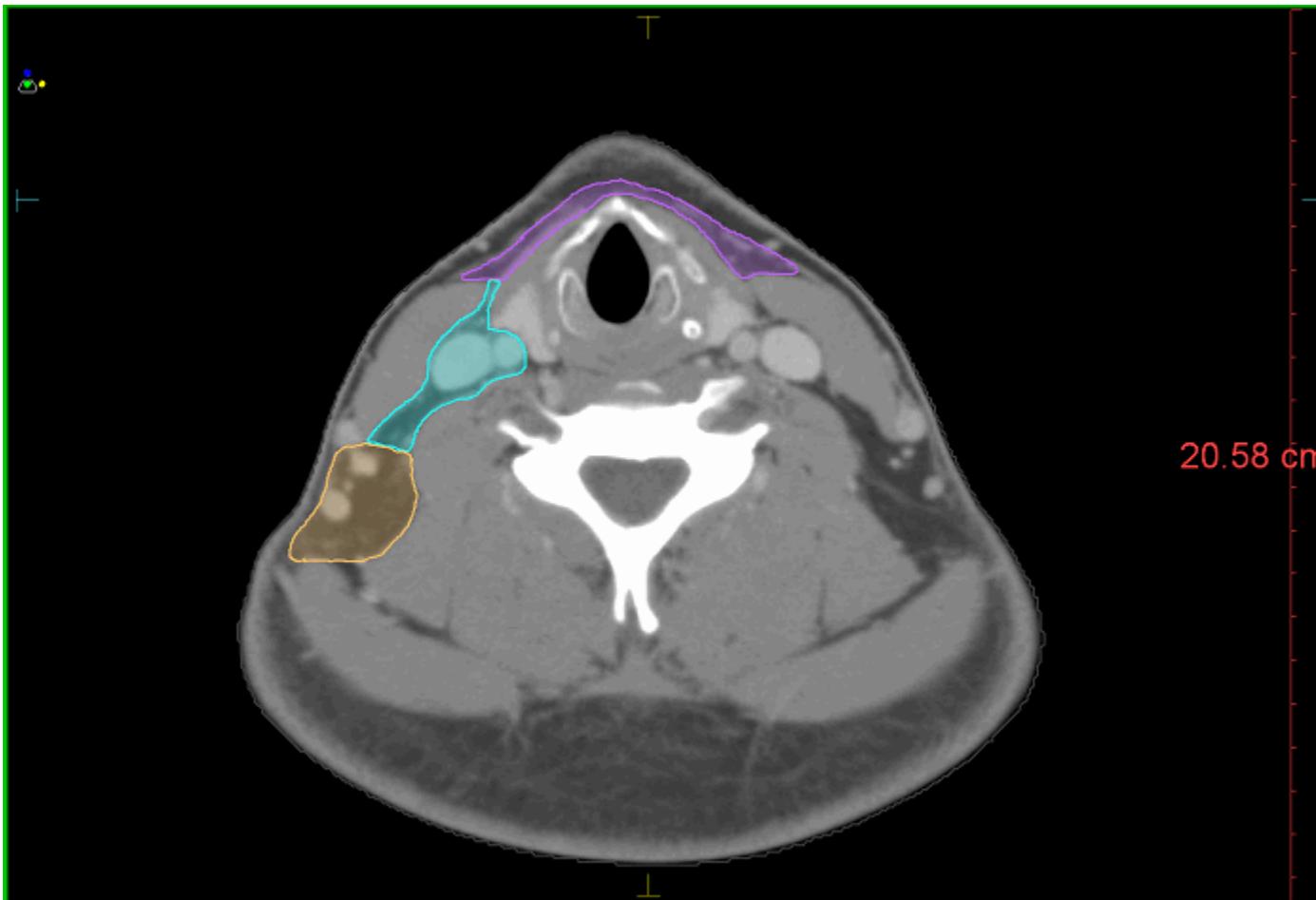
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
orange	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -10.80



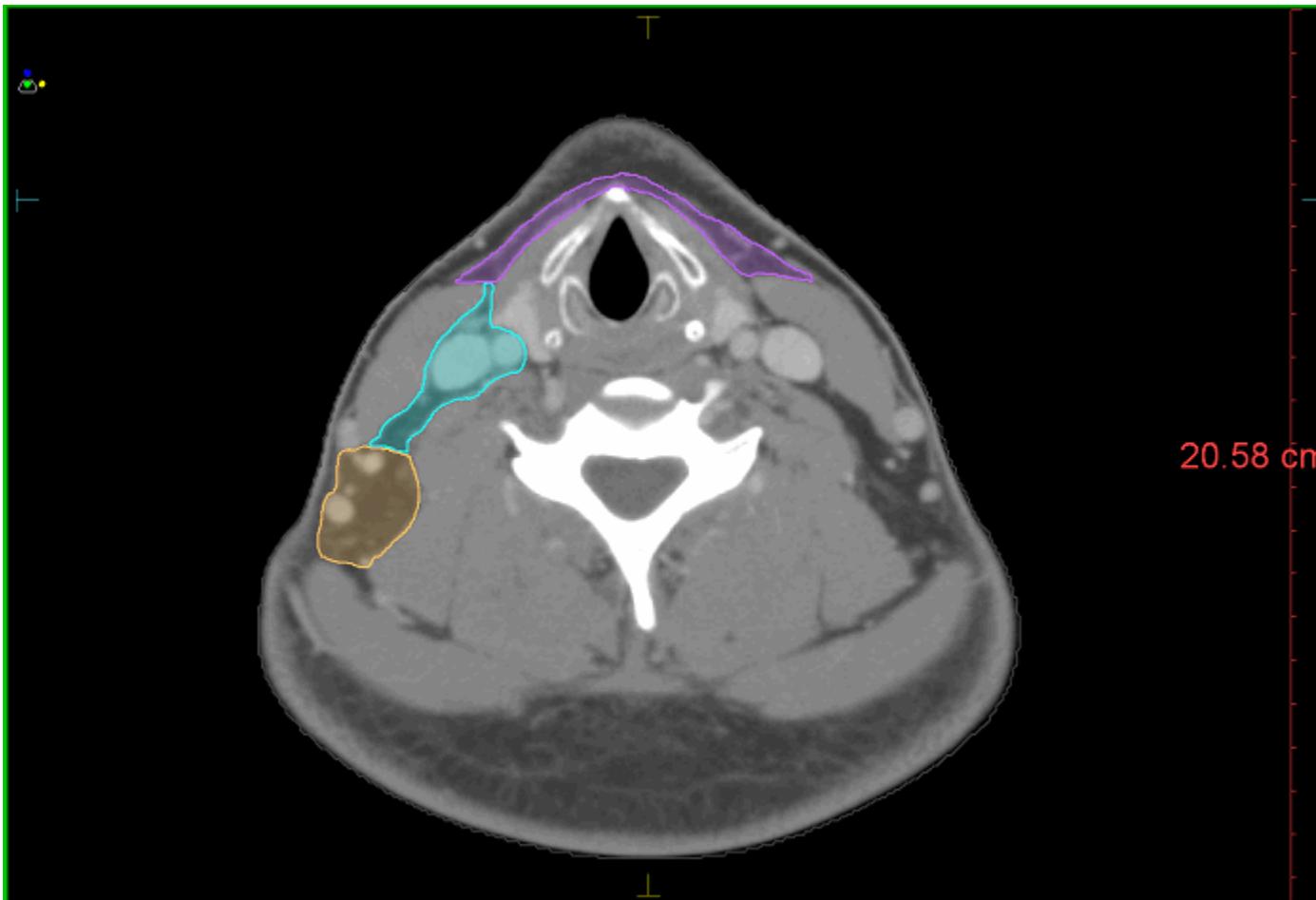
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -10.60



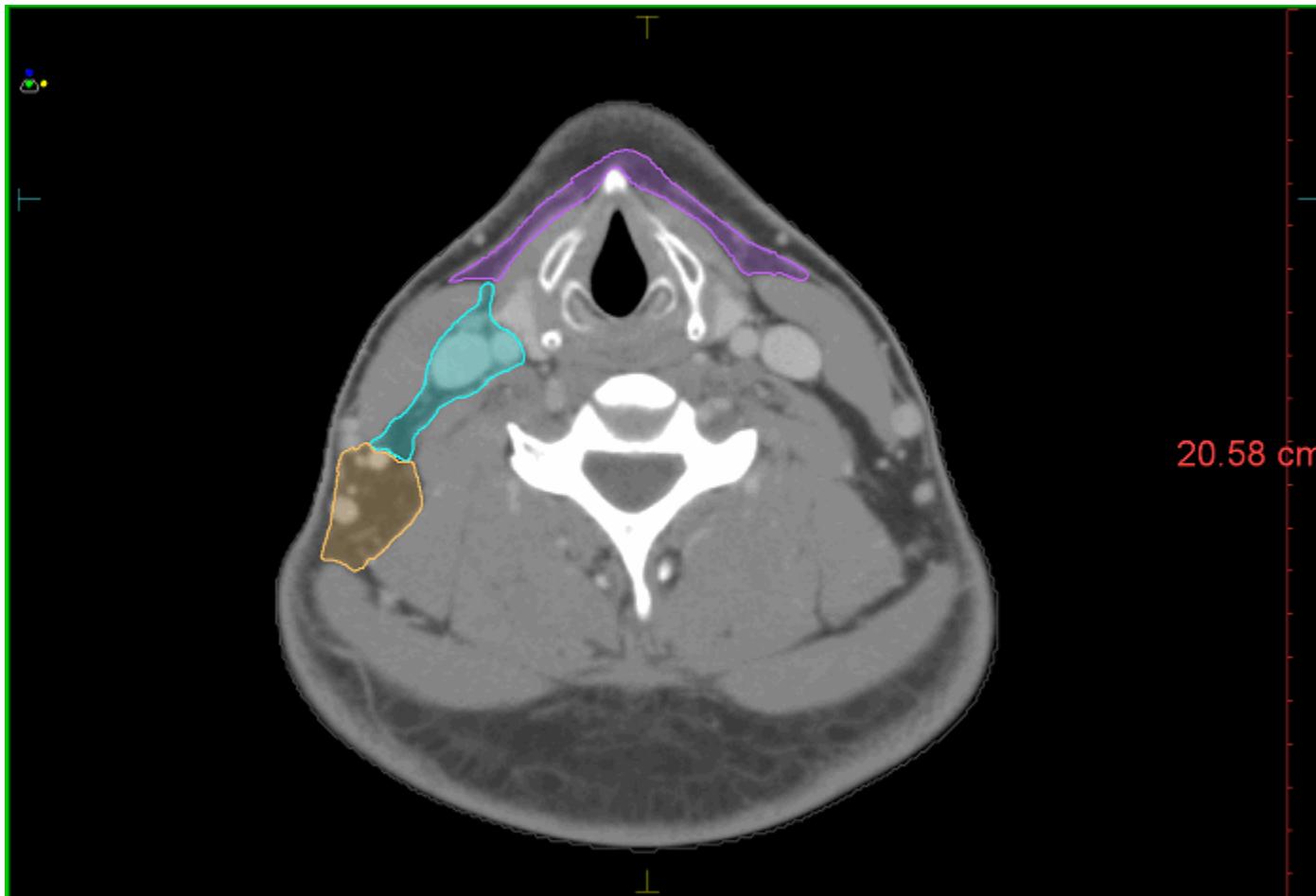
Color	Structure Name
black	patient
brown	Level Ia
orange	Level Ib
light blue	Level II
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
violet	Level VIb

Slice Location(cm): Transverse: -10.40

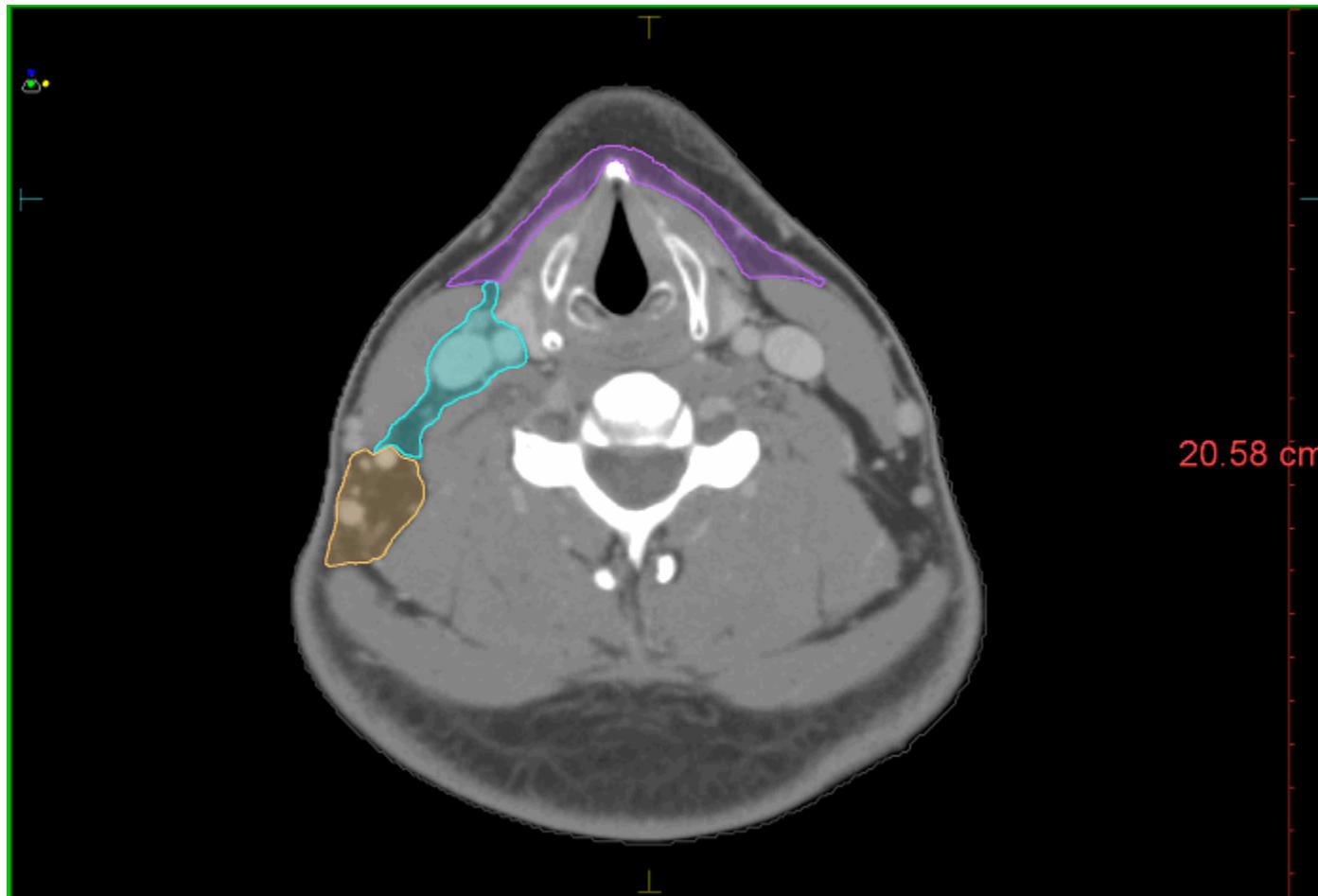


Color	Structure Name
patient	
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -10.20

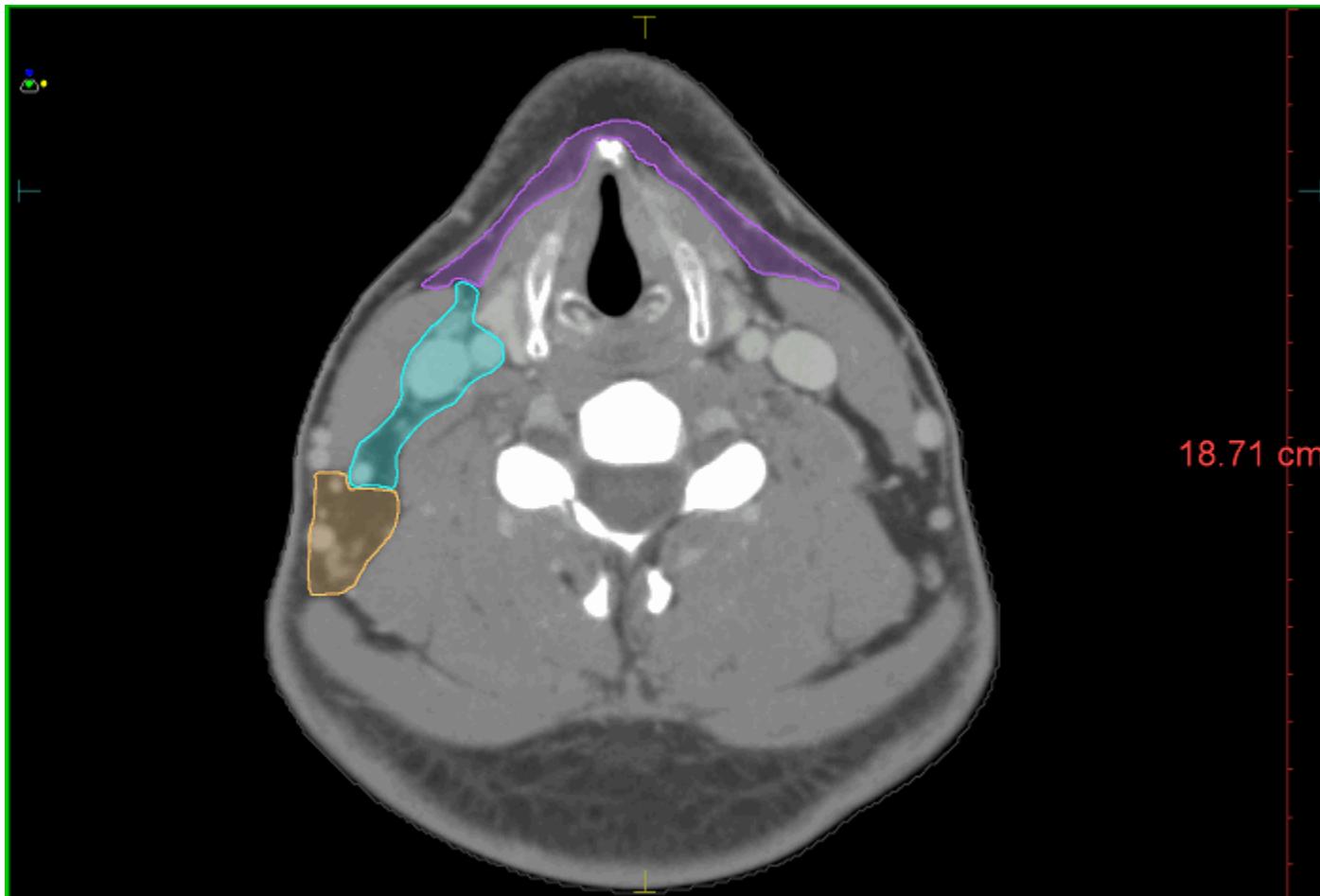


Slice Location(cm): Transverse: -10.00



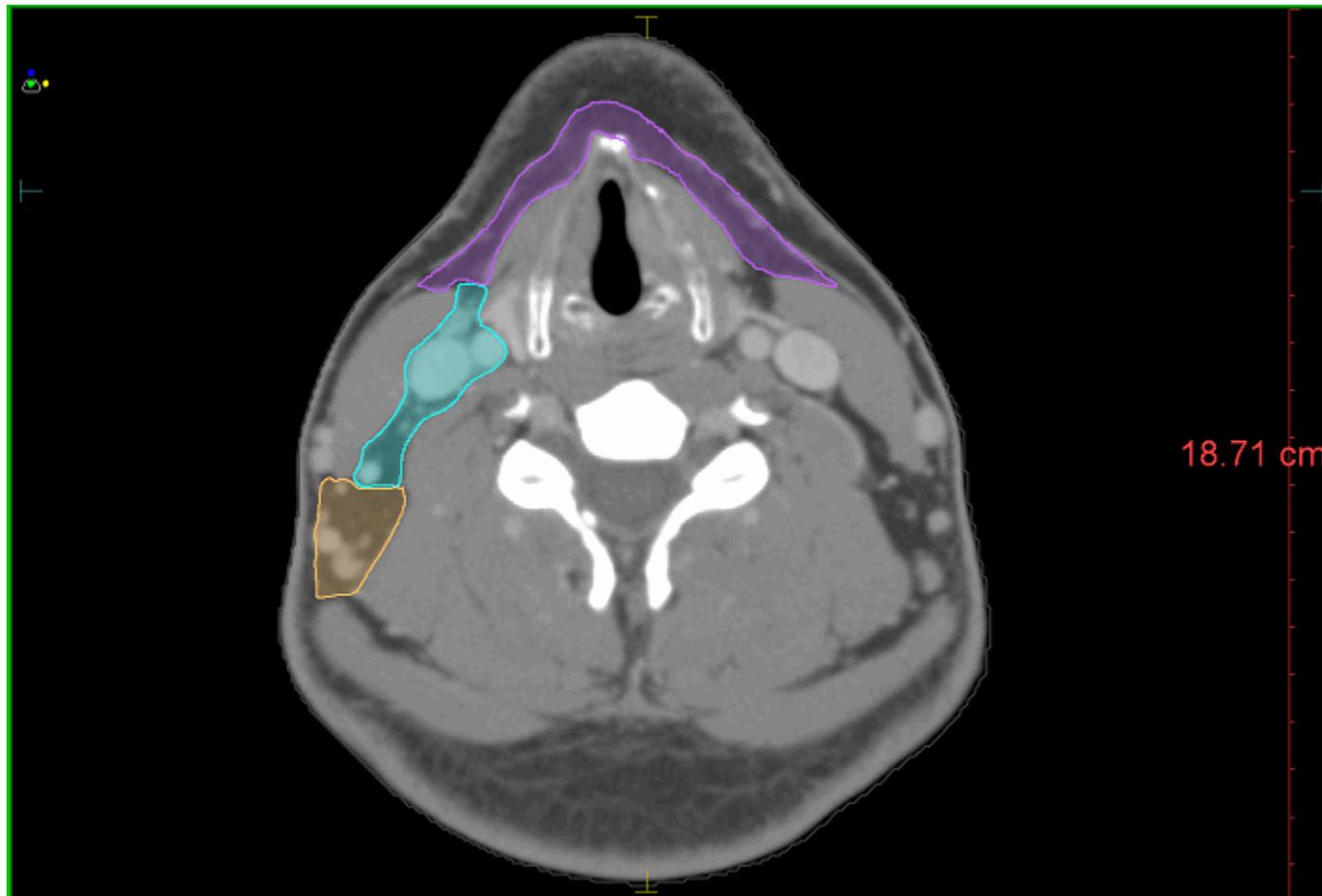
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -9.80



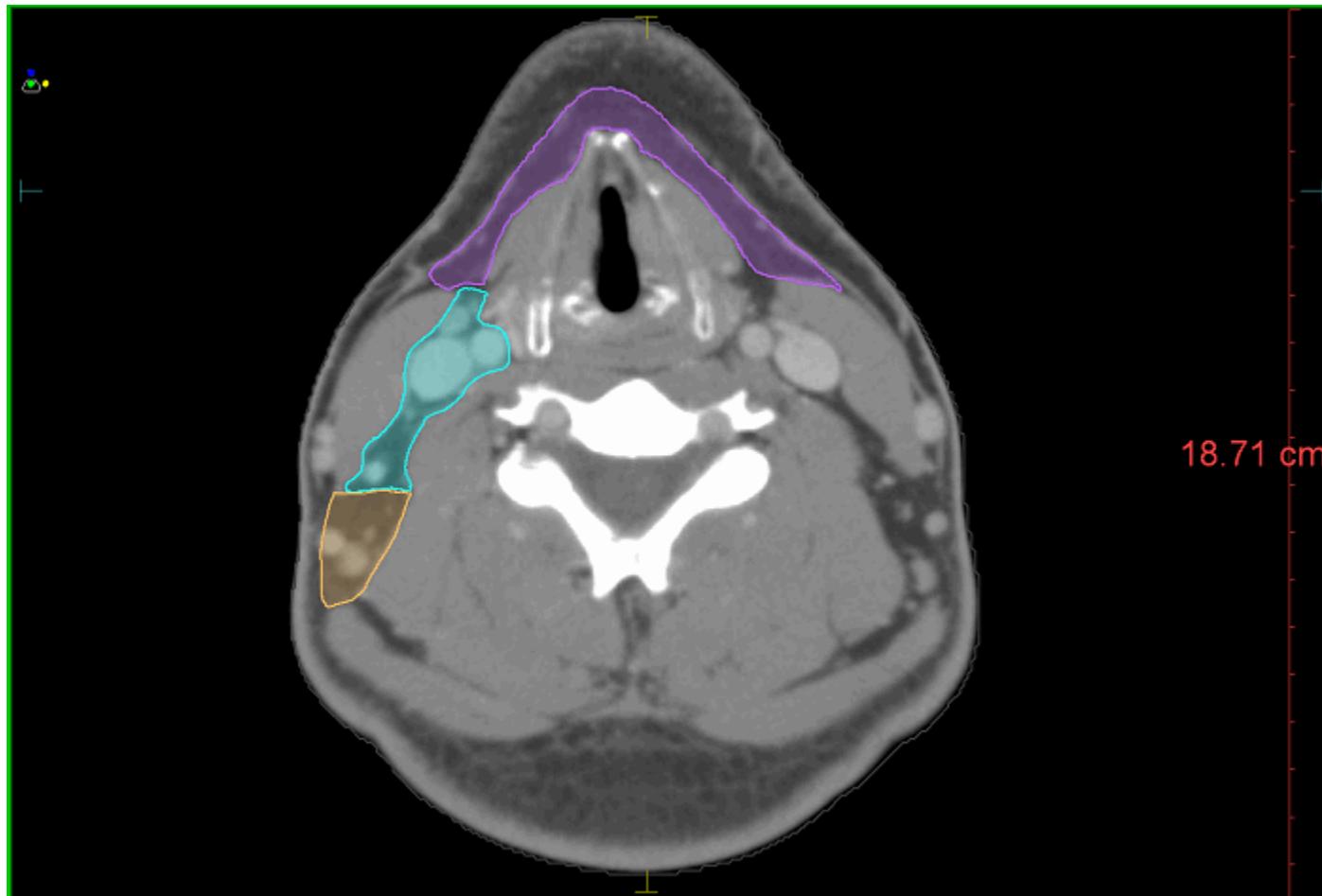
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
gold	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -9.60



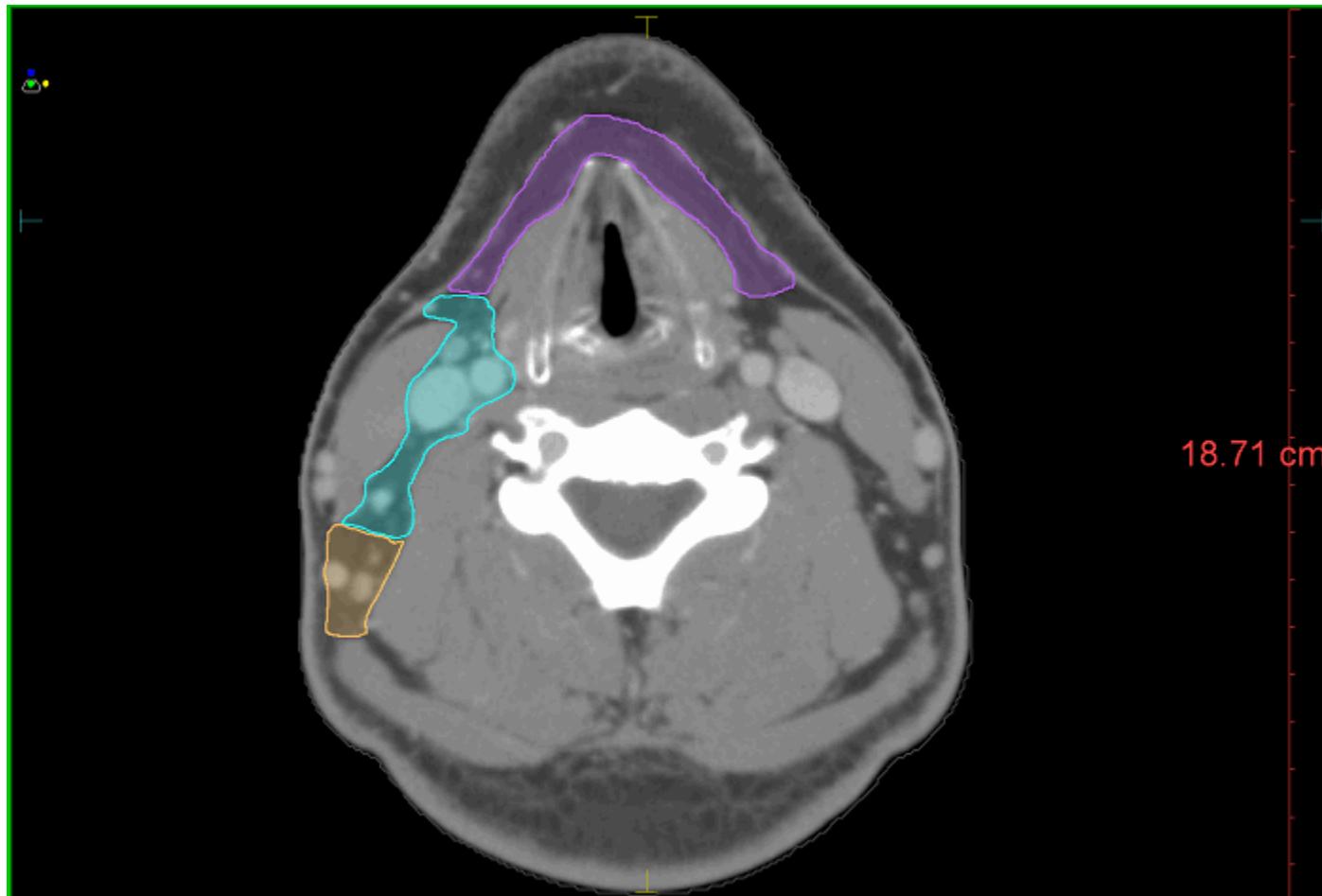
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -9.40



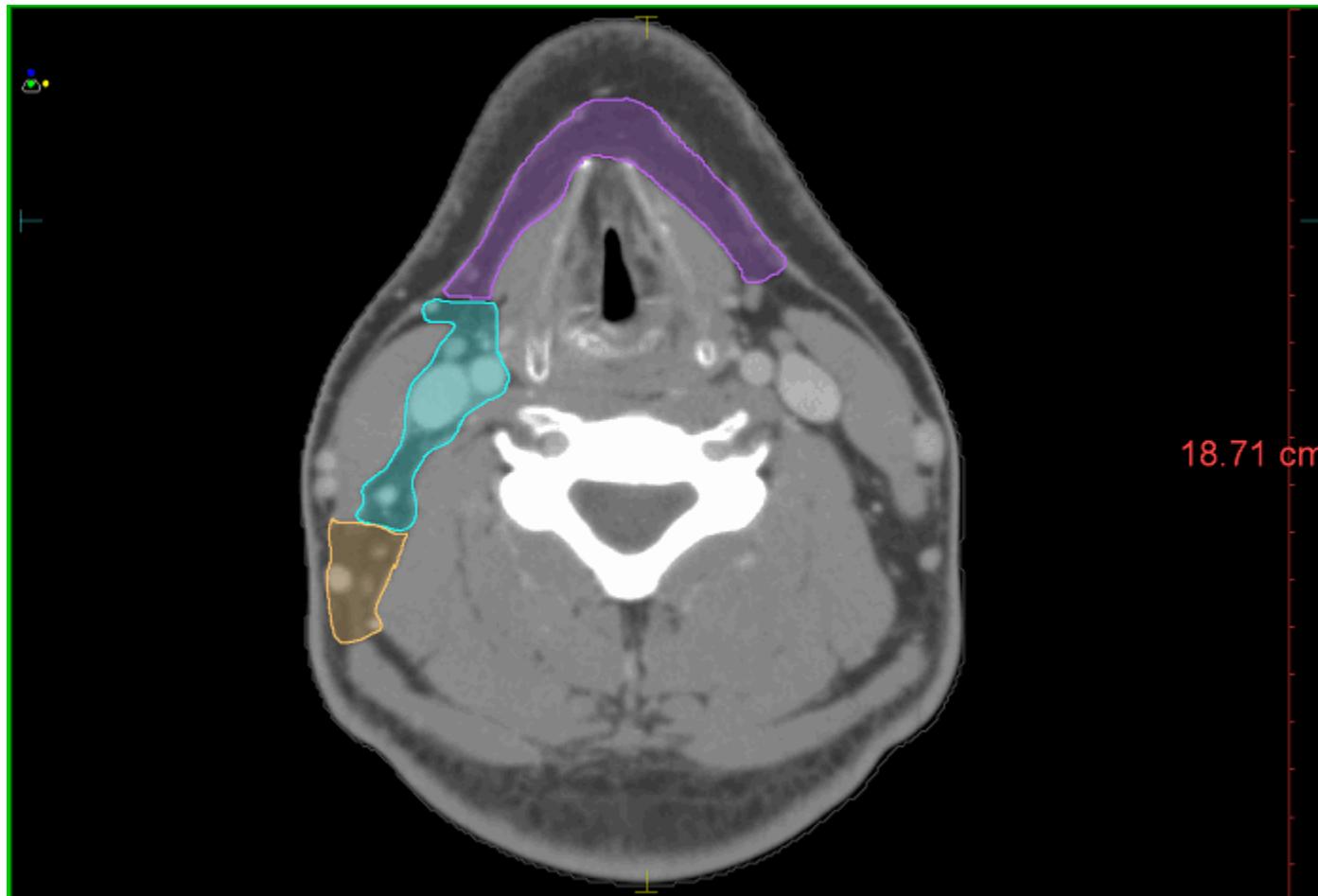
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
pink	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -9.20



Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -9.00



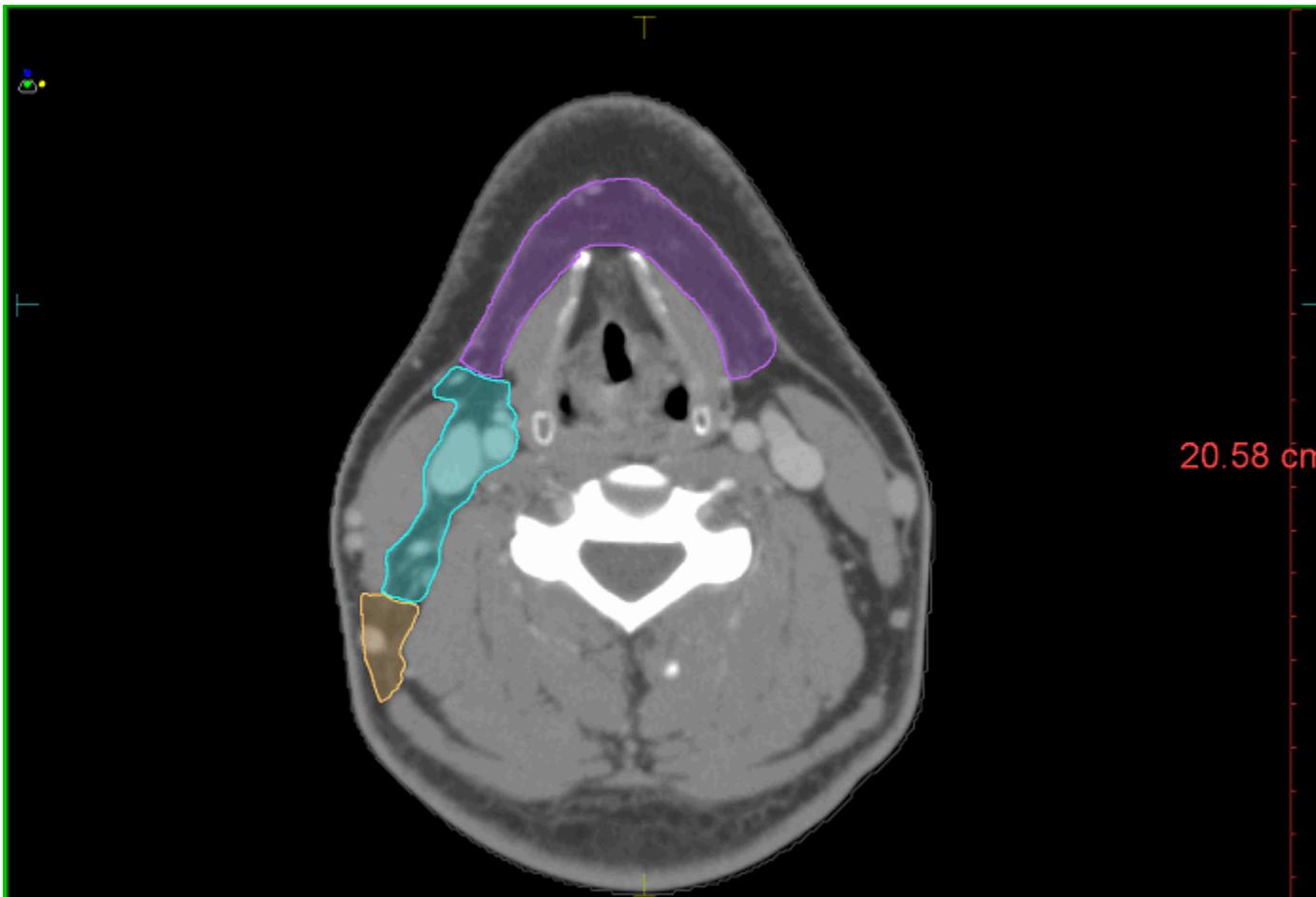
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -8.80



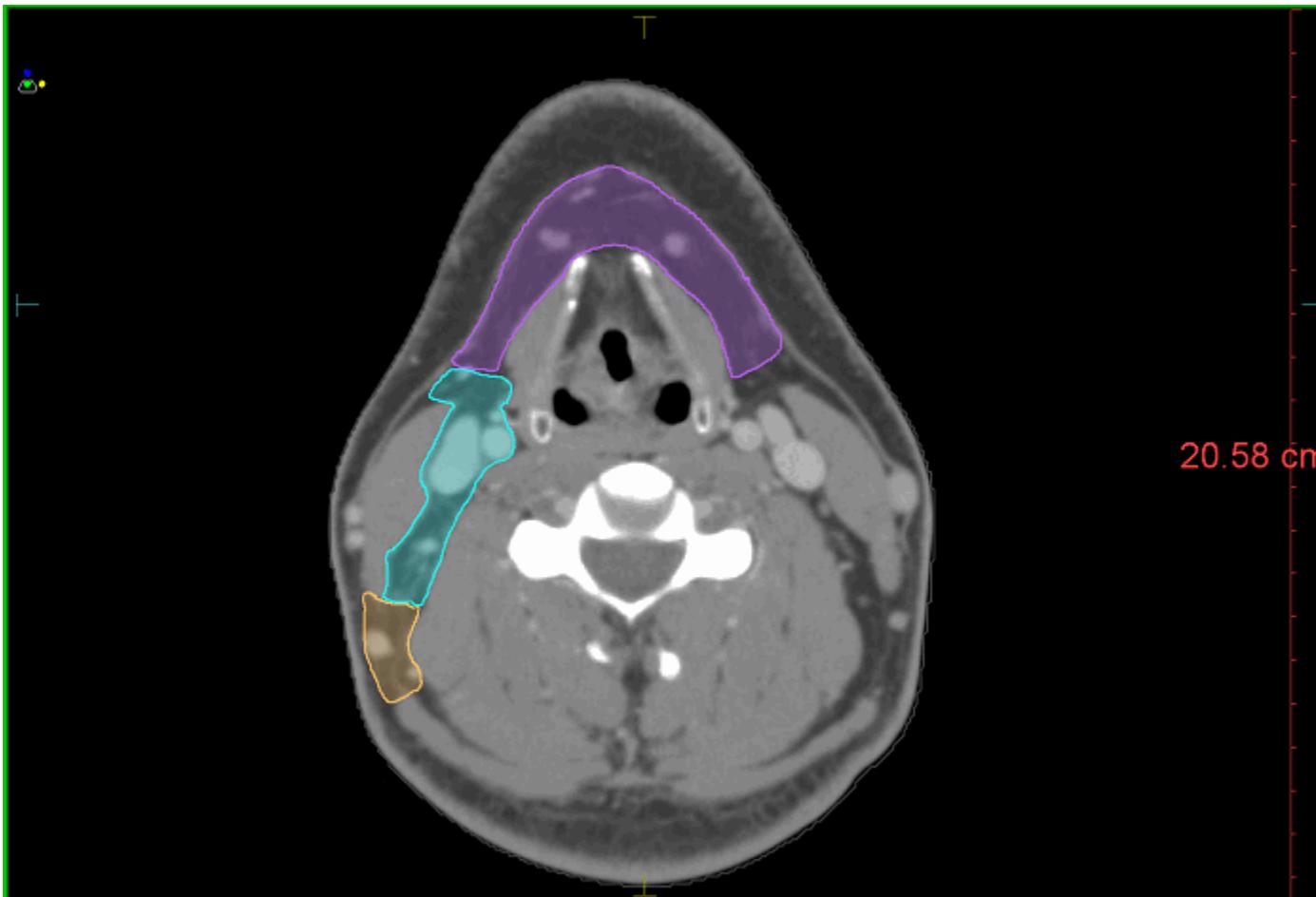
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -8.60



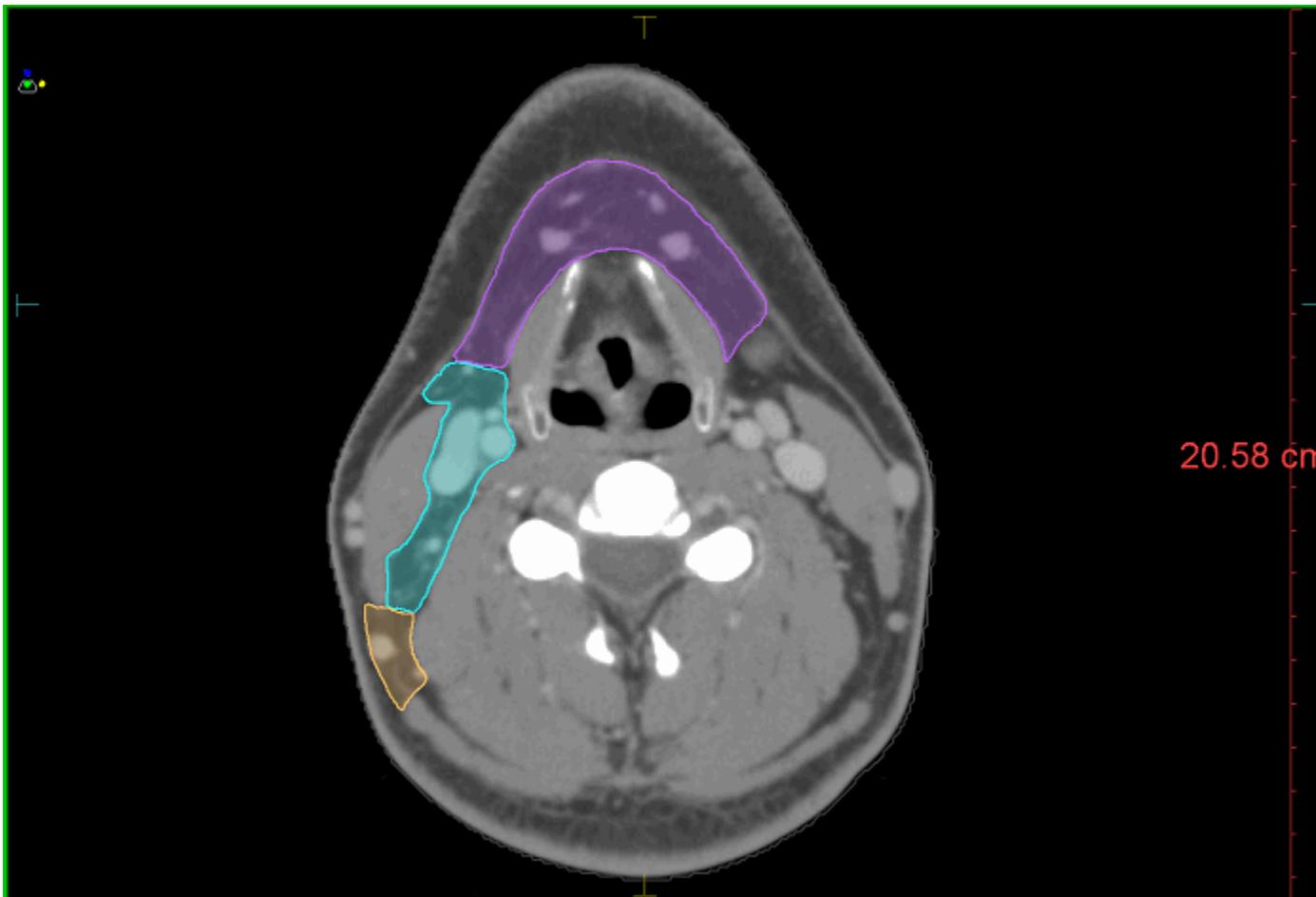
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -8.40



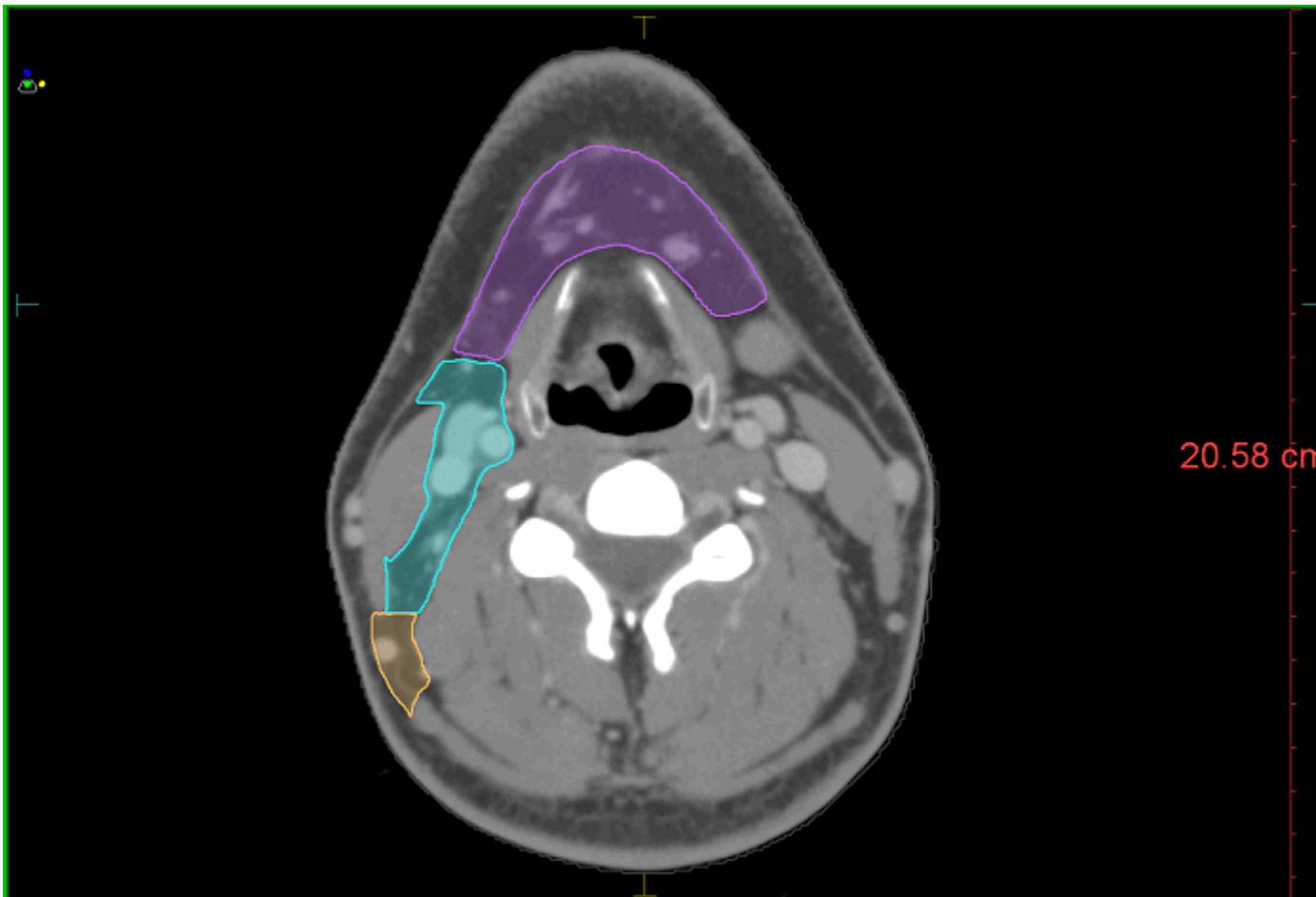
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
violet	Level VIb

Slice Location(cm): Transverse: -8.20



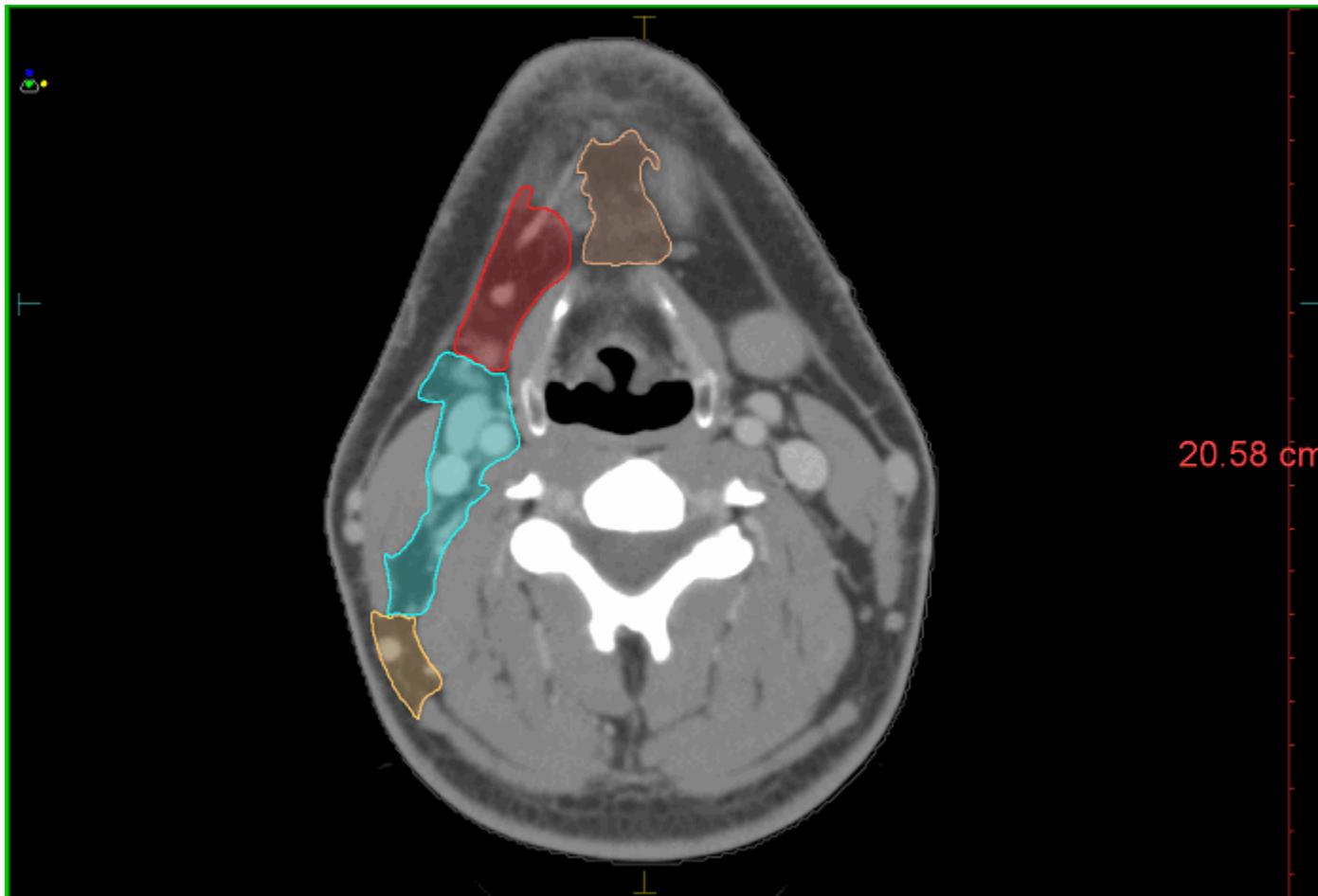
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -8.00



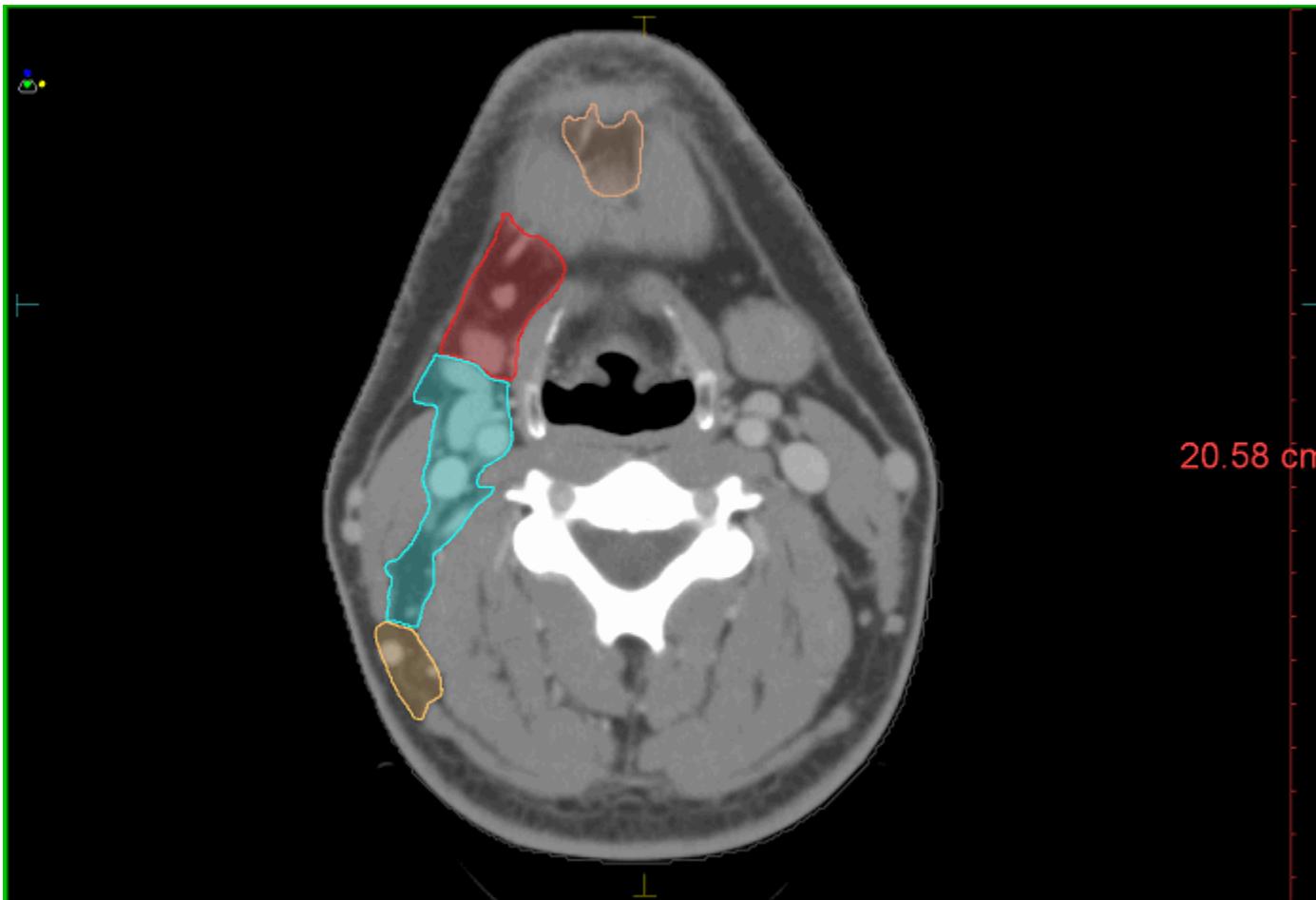
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
dark purple	Level VIb

Slice Location(cm): Transverse: -7.80



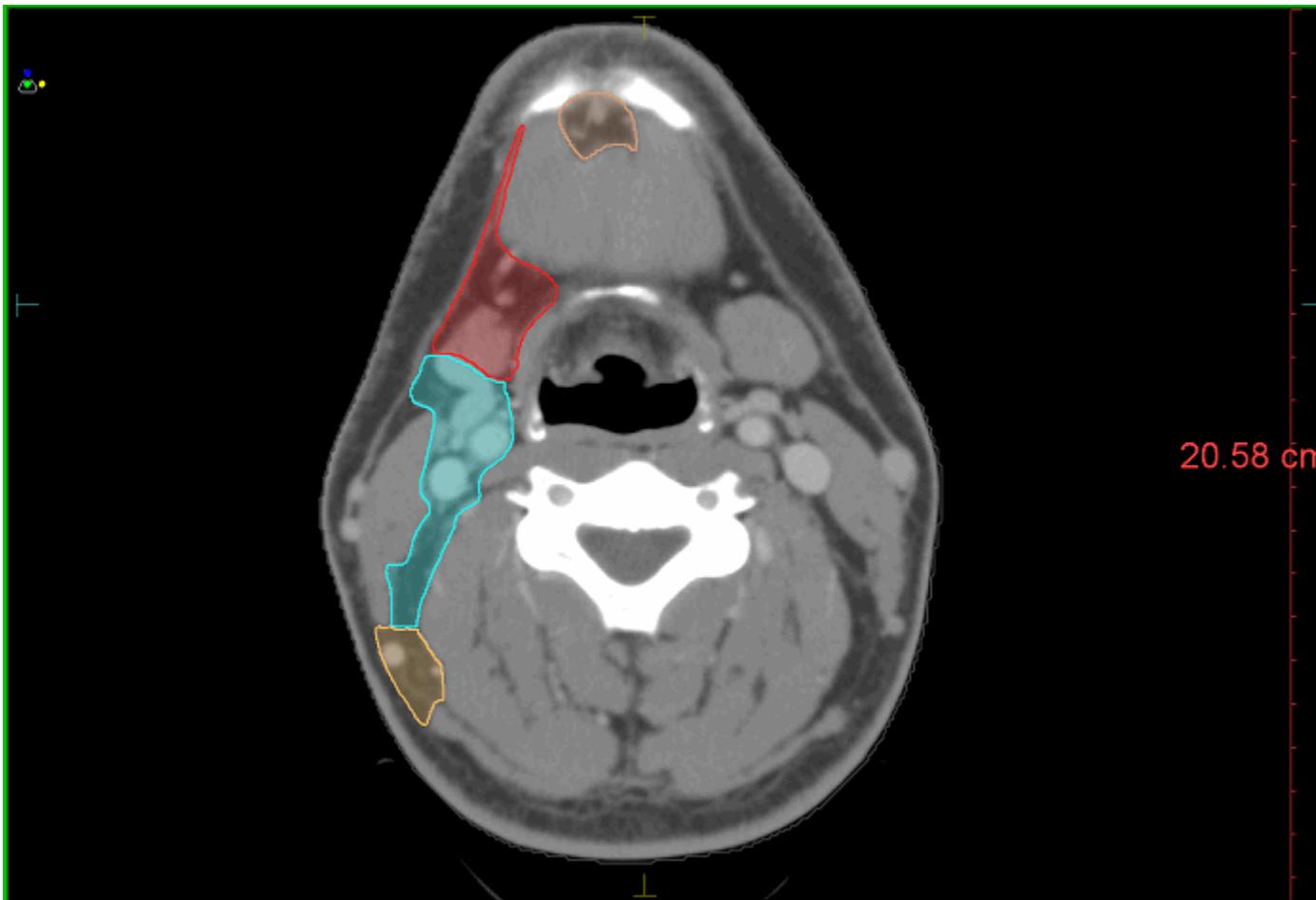
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -7.60



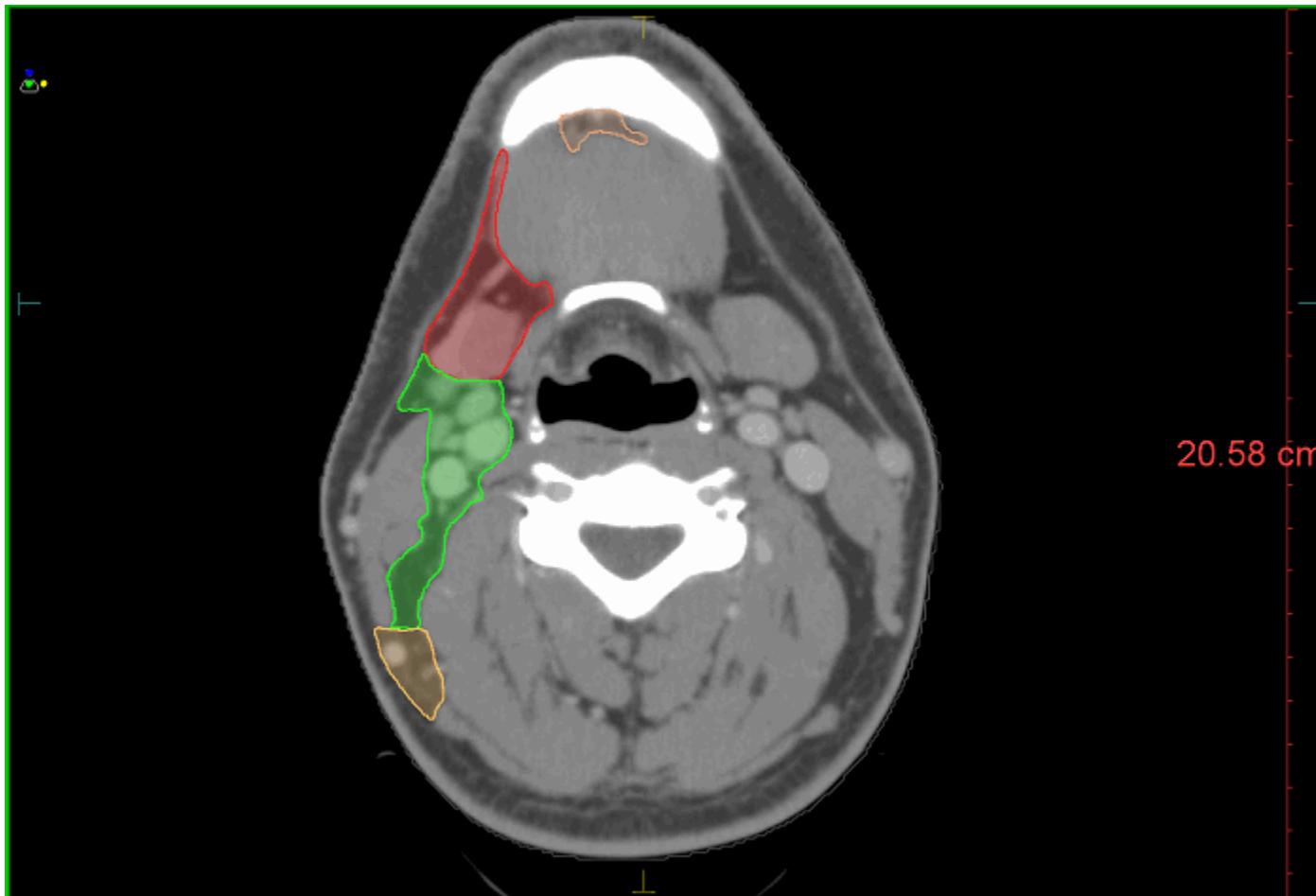
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -7.40



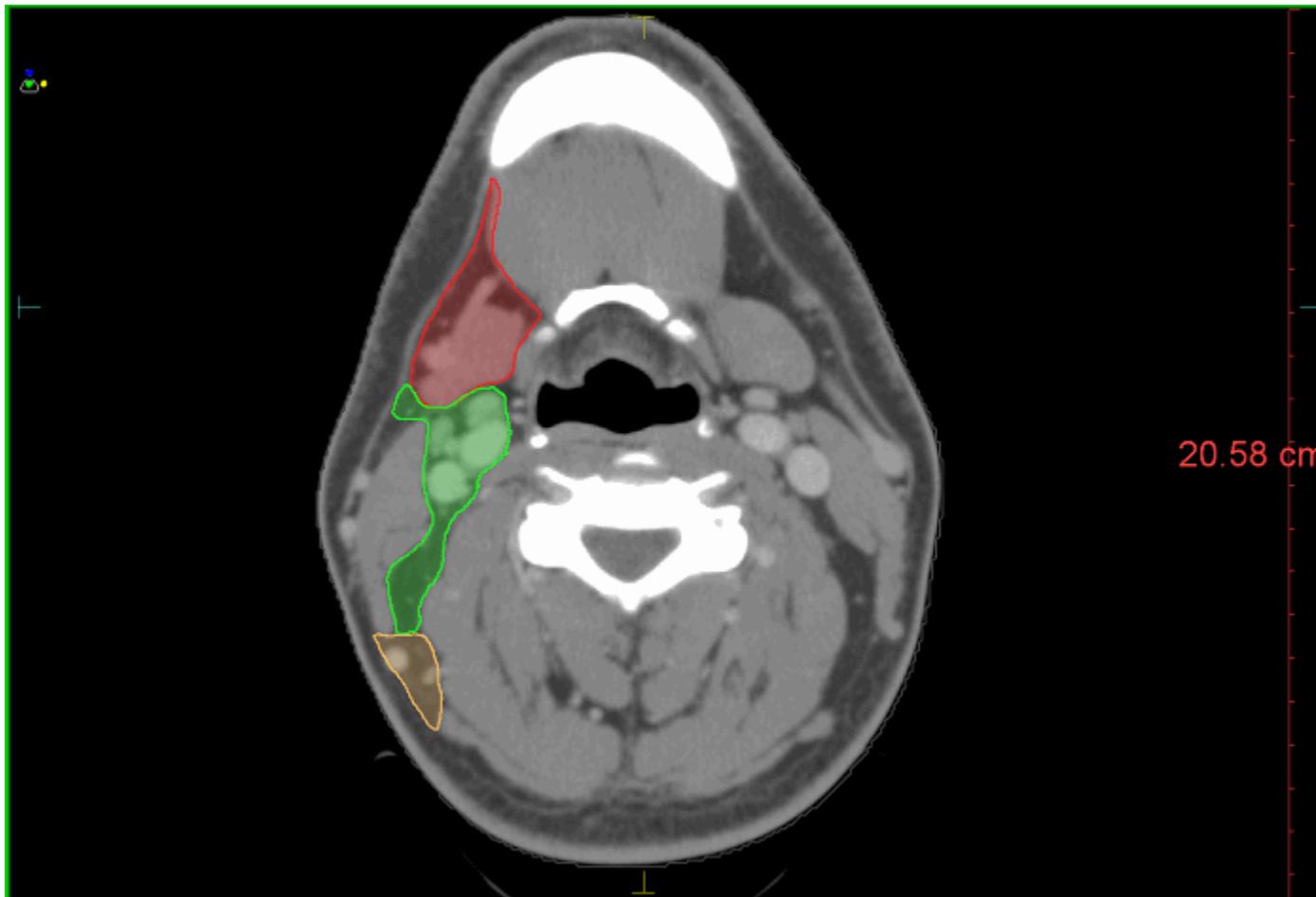
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -7.20



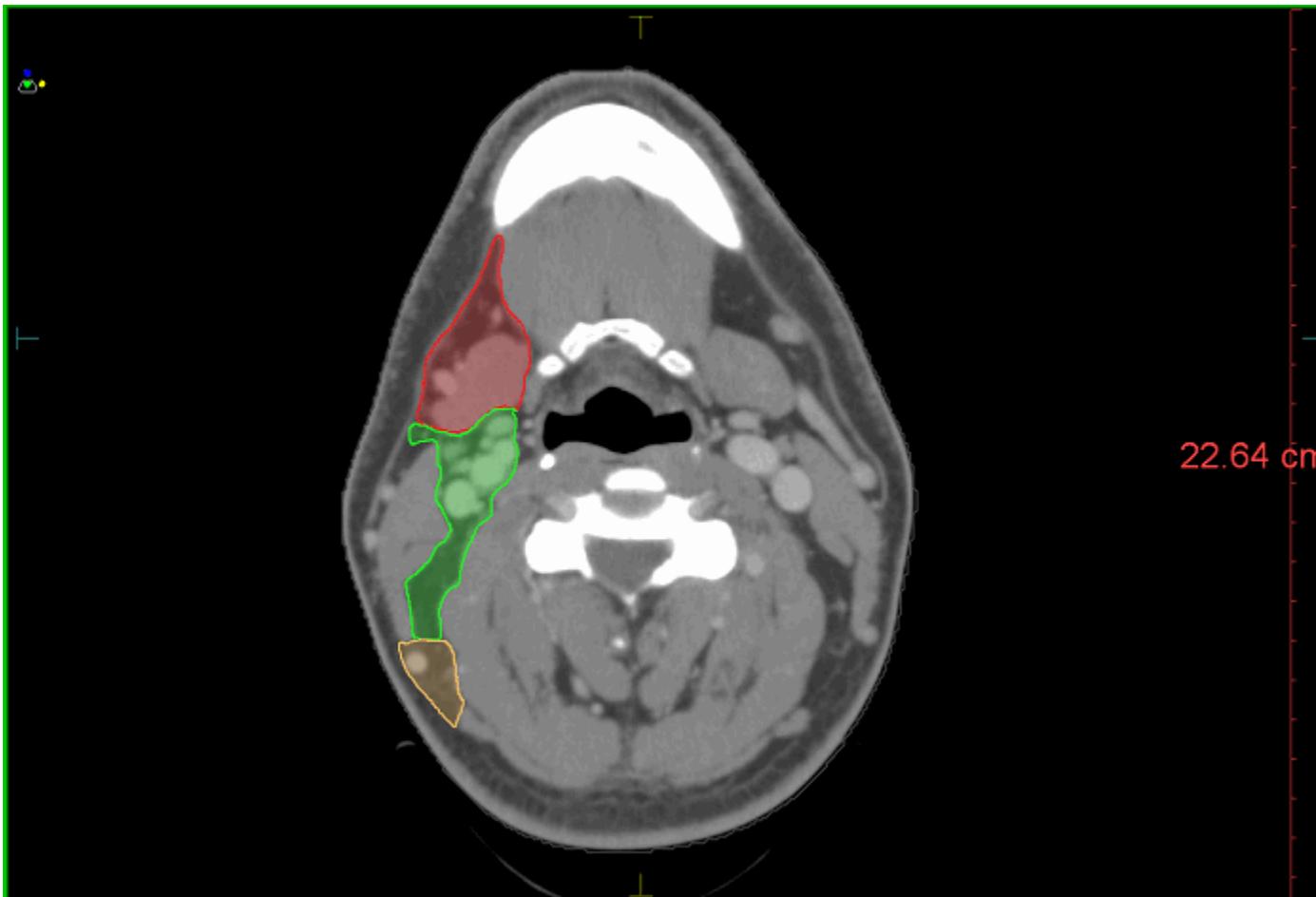
Color	Structure Name
Black	patient
Brown	Level Ia
Red	Level Ib
Green	Level II
Blue	Level VIII
Cyan	Level III
Magenta	Level IVa
Yellow	Level V
Purple	Level VIa
Dark Red	Level VIIb
Light Green	Level VIIa
Dark Blue	Level IVb
Olive	Level IX
Cyan	Level Xb
Brown	Level Vc
Light Red	Level Xa
Purple	Level VIb

Slice Location(cm): Transverse: -7.00



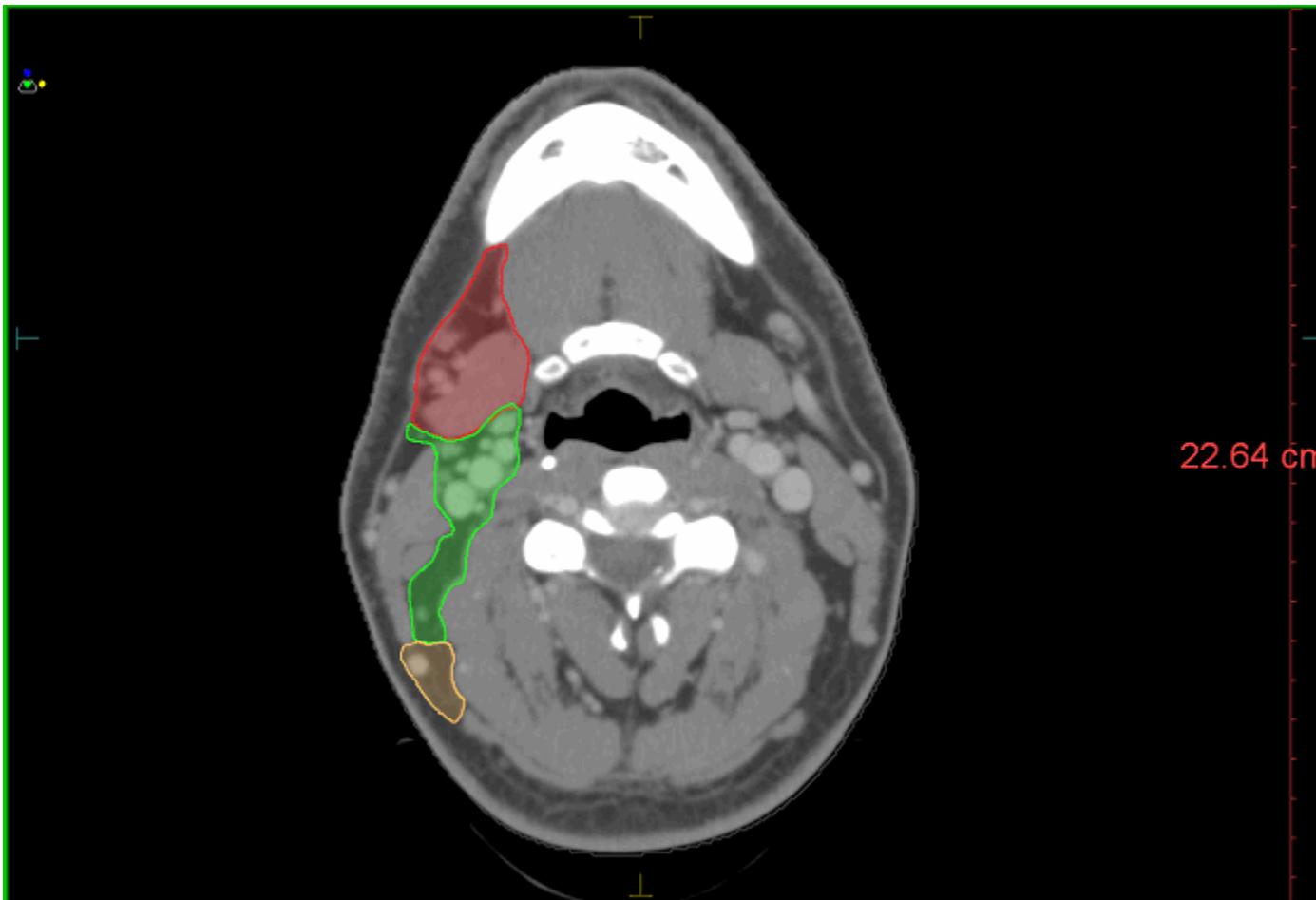
Color	Structure Name
patient	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -6.80



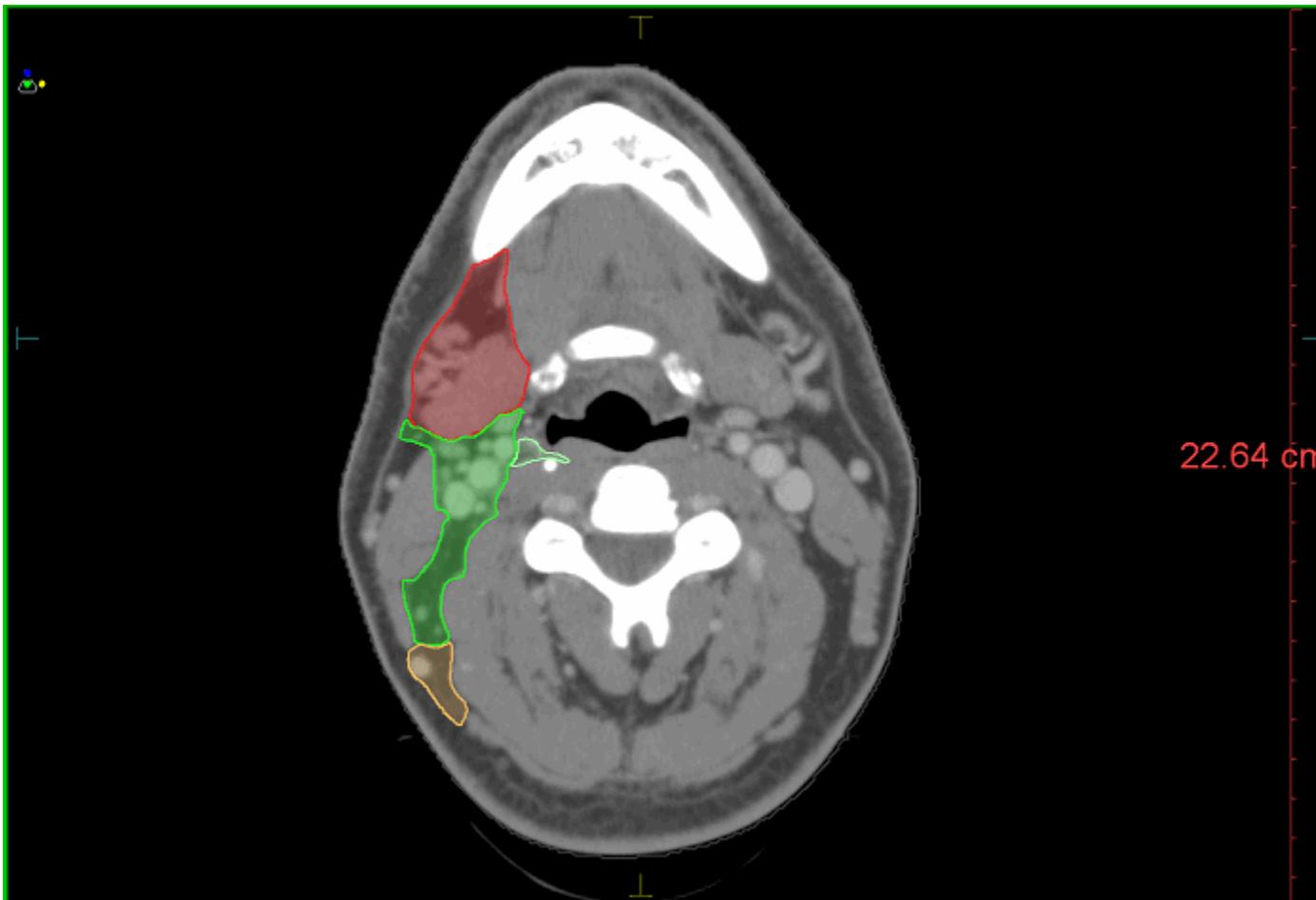
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -6.60



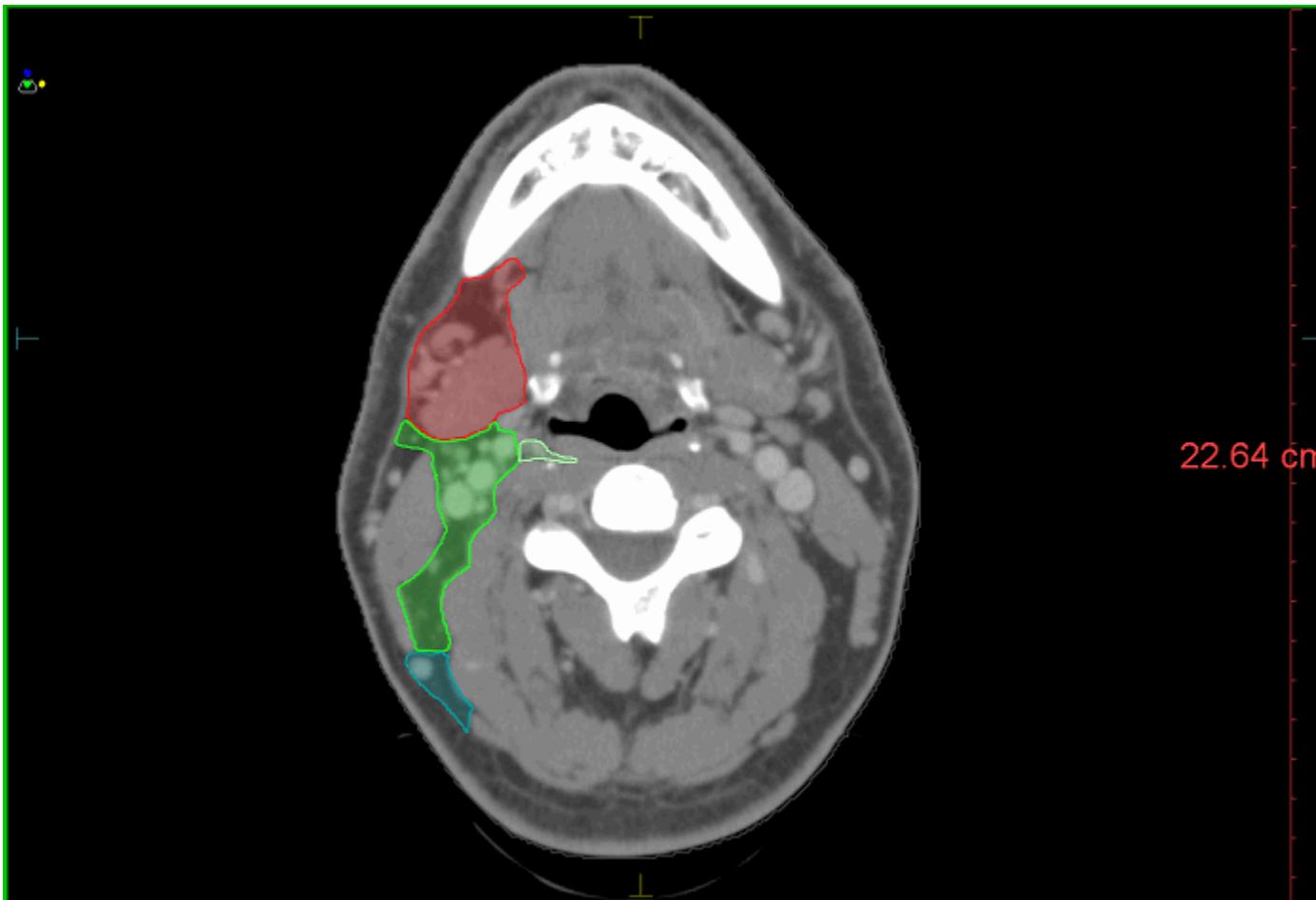
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -6.40



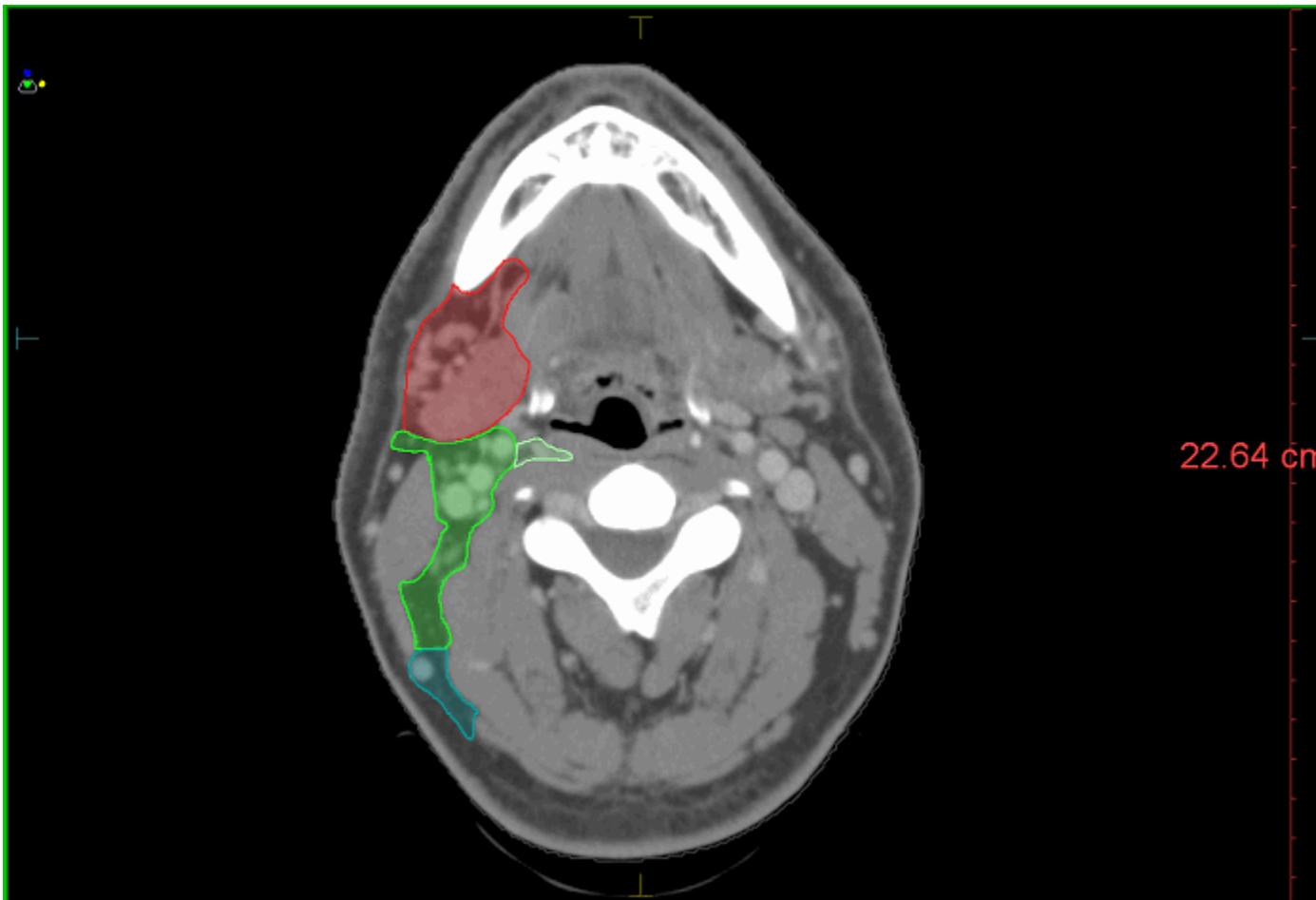
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -6.20



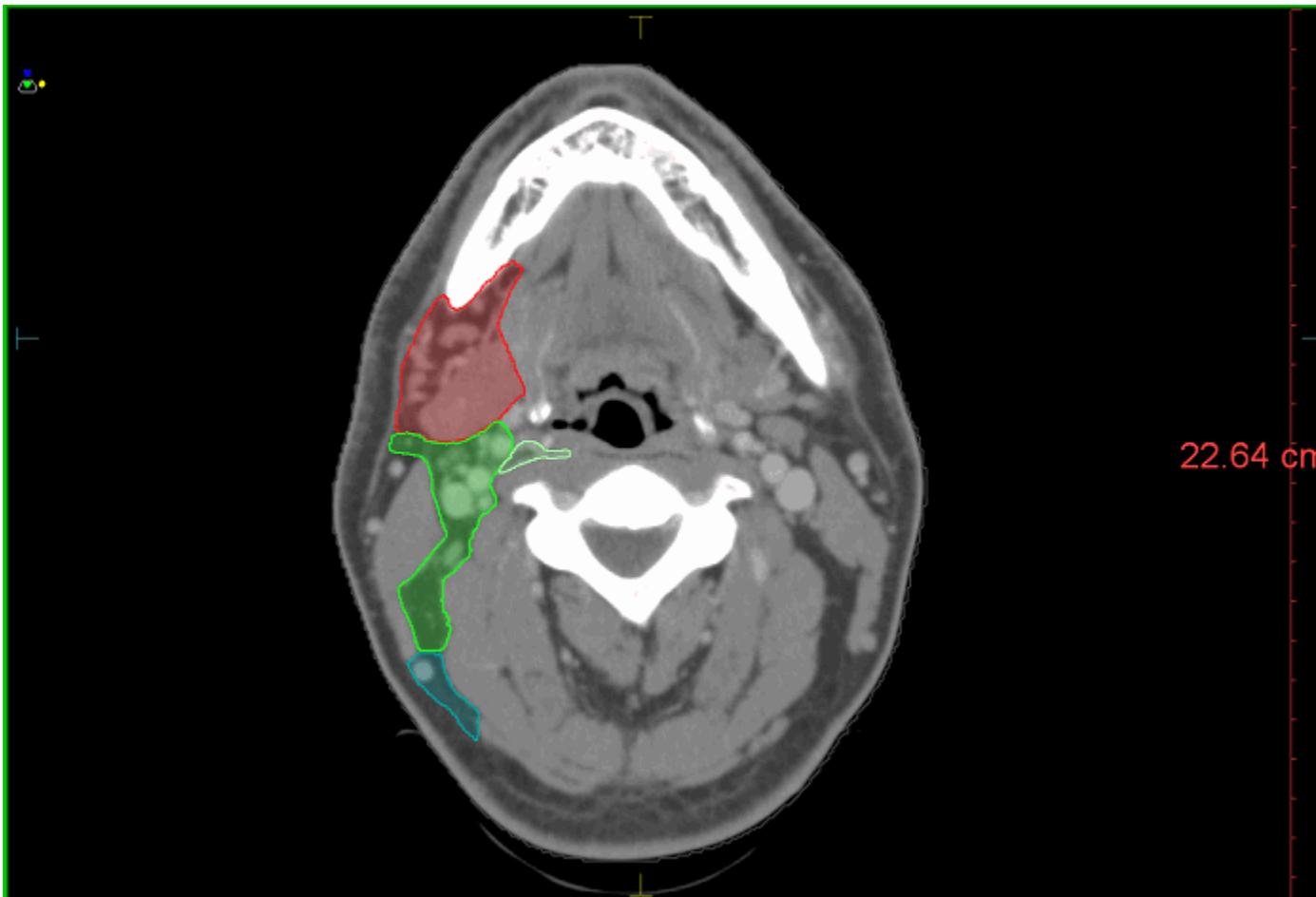
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -6.00



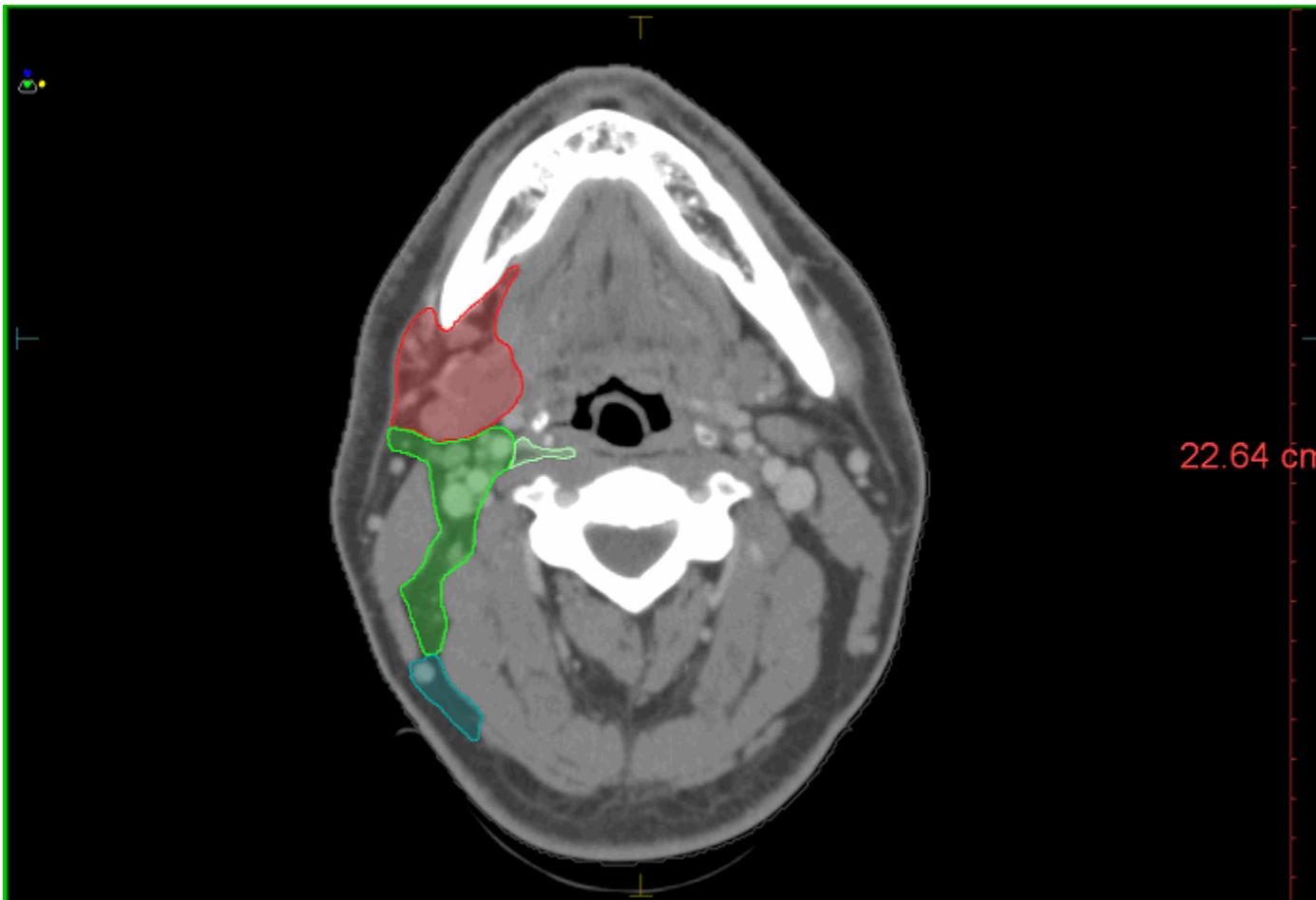
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -5.80



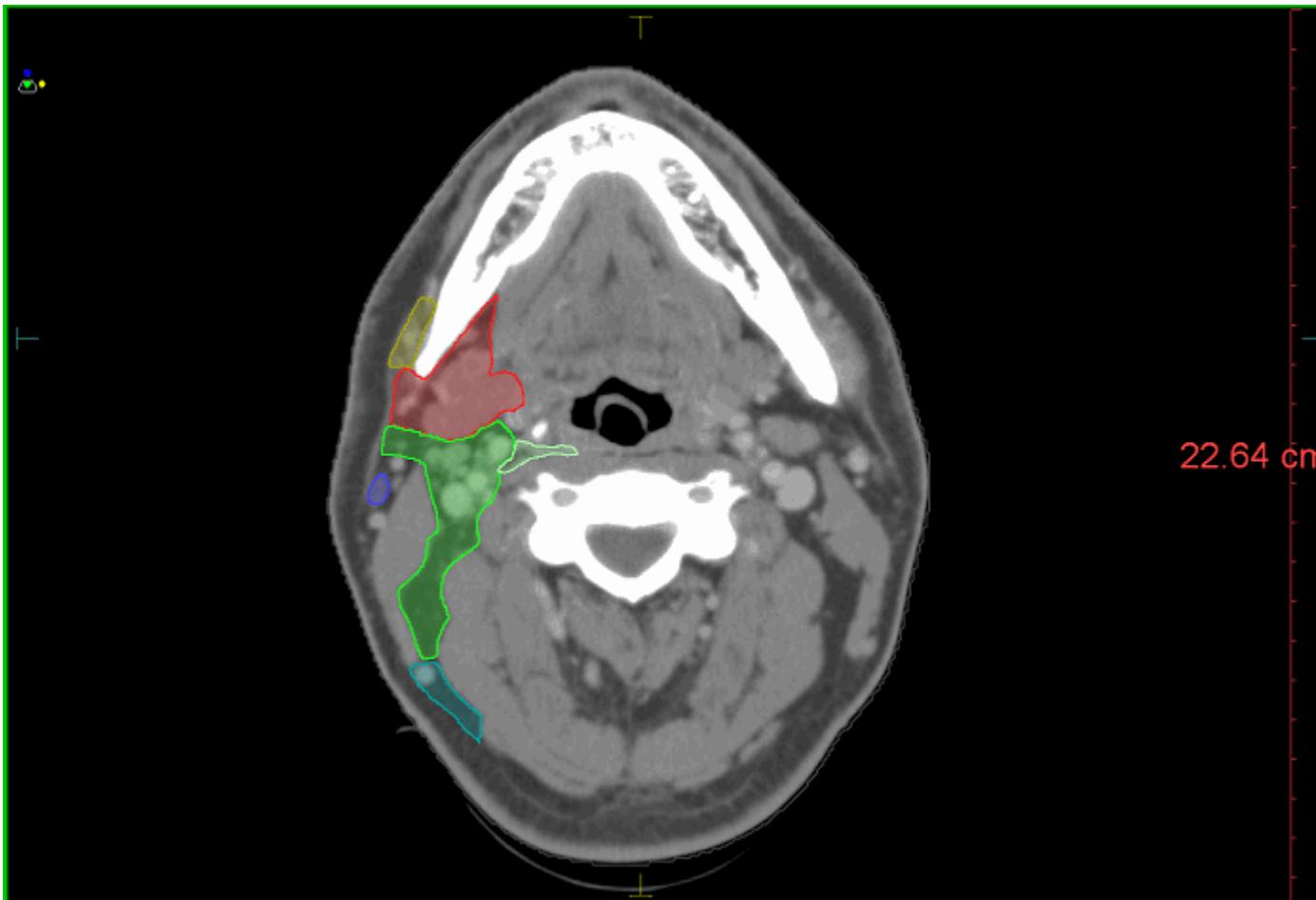
Color	Structure Name
patient	patient
Brown	Level Ia
Red	Level Ib
Green	Level II
Blue	Level VIII
Cyan	Level III
Magenta	Level IVa
Yellow	Level V
Purple	Level VIa
Dark Red	Level VIIb
Light Green	Level VIIa
Dark Blue	Level IVb
Olive Green	Level IX
Cyan	Level Xb
Brown	Level Vc
Red	Level Xa
Purple	Level VIb

Slice Location(cm): Transverse: -5.60



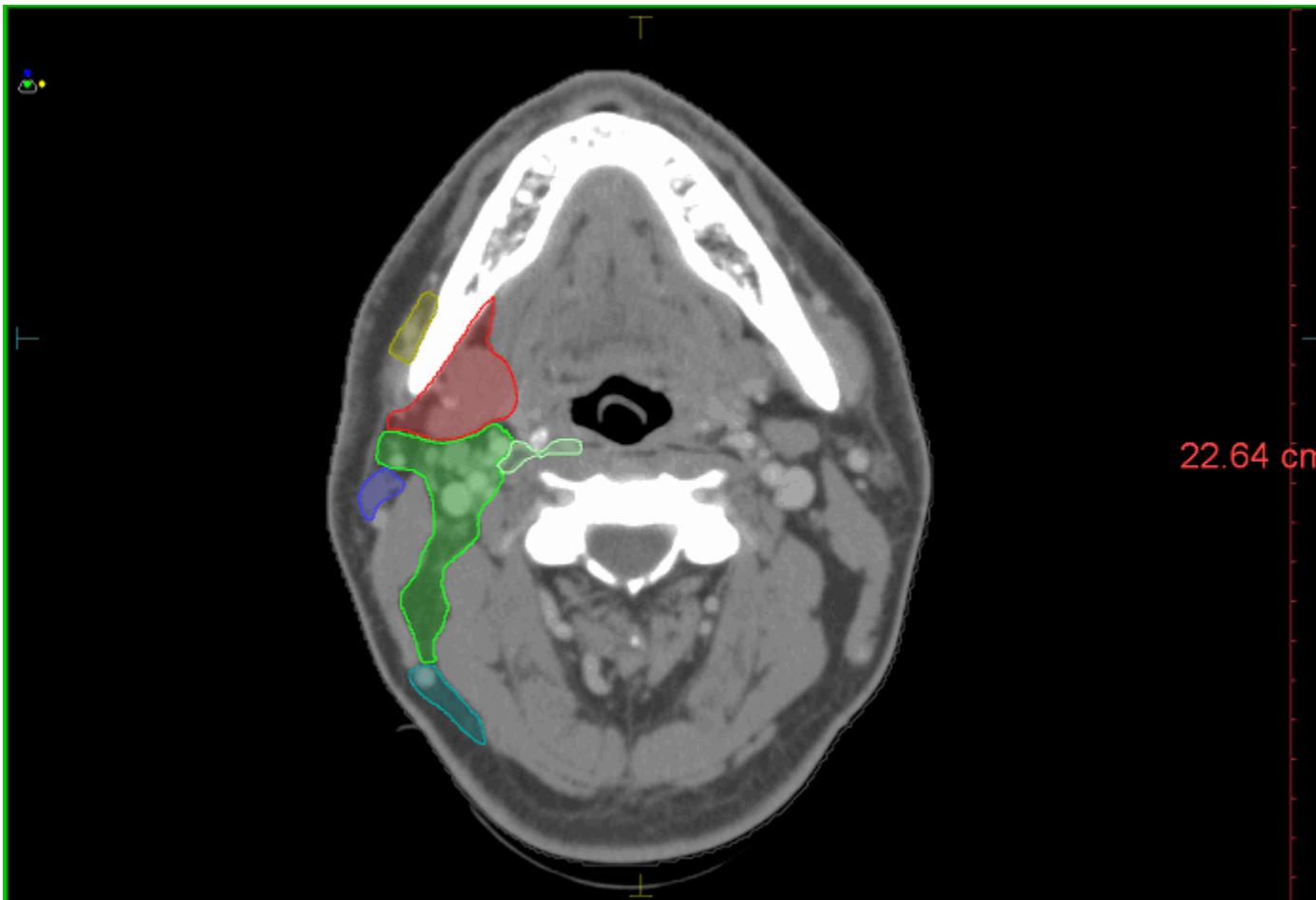
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -5.40



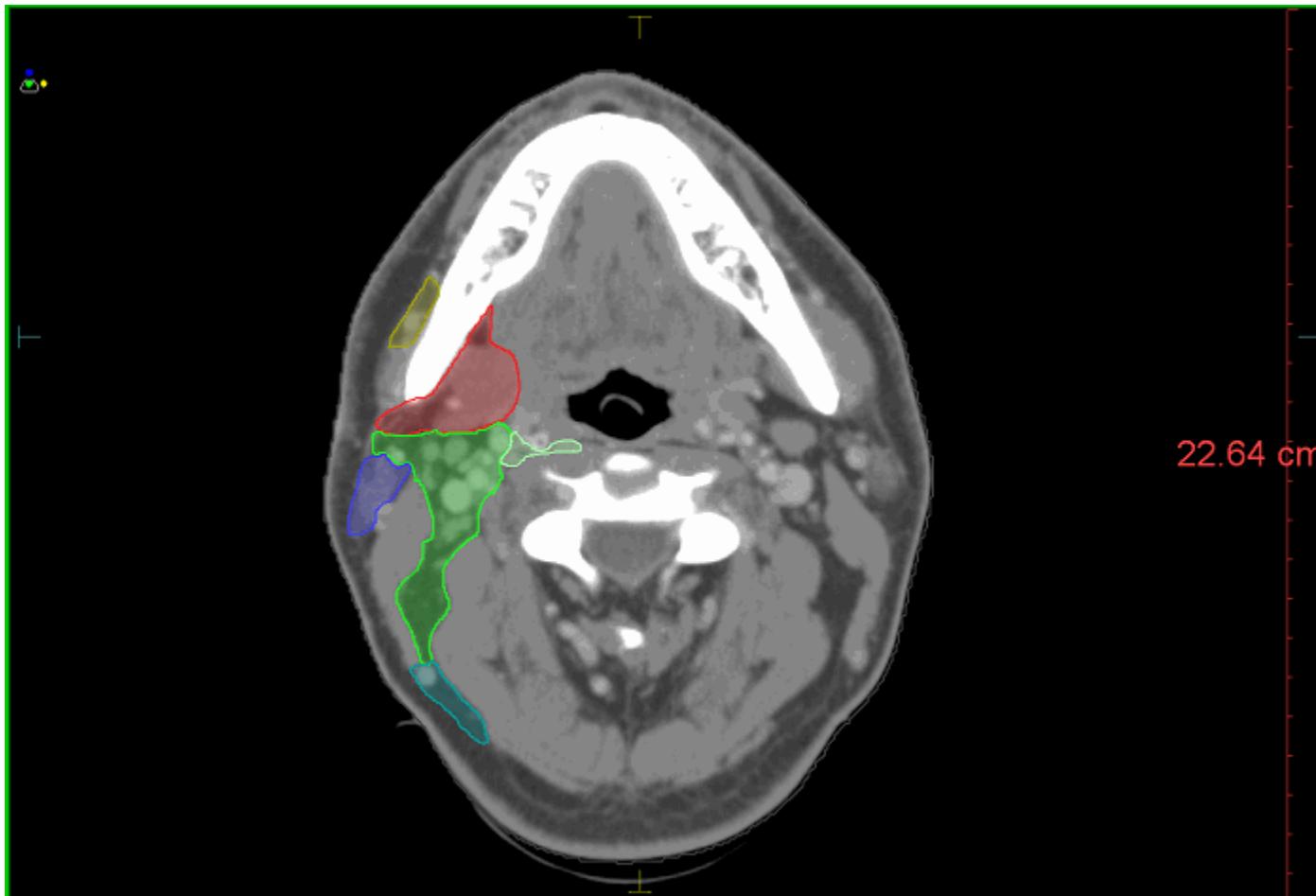
Color	Structure Name
Black	patient
Brown	Level Ia
Red	Level Ib
Green	Level II
Blue	Level VIII
Cyan	Level III
Magenta	Level IVa
Yellow	Level V
Purple	Level VIa
Dark Red	Level VIIb
Light Green	Level VIIa
Dark Blue	Level IVb
Olive Green	Level IX
Cyan	Level Xb
Brown	Level Vc
Red	Level Xa
Purple	Level VIb

Slice Location(cm): Transverse: -5.20



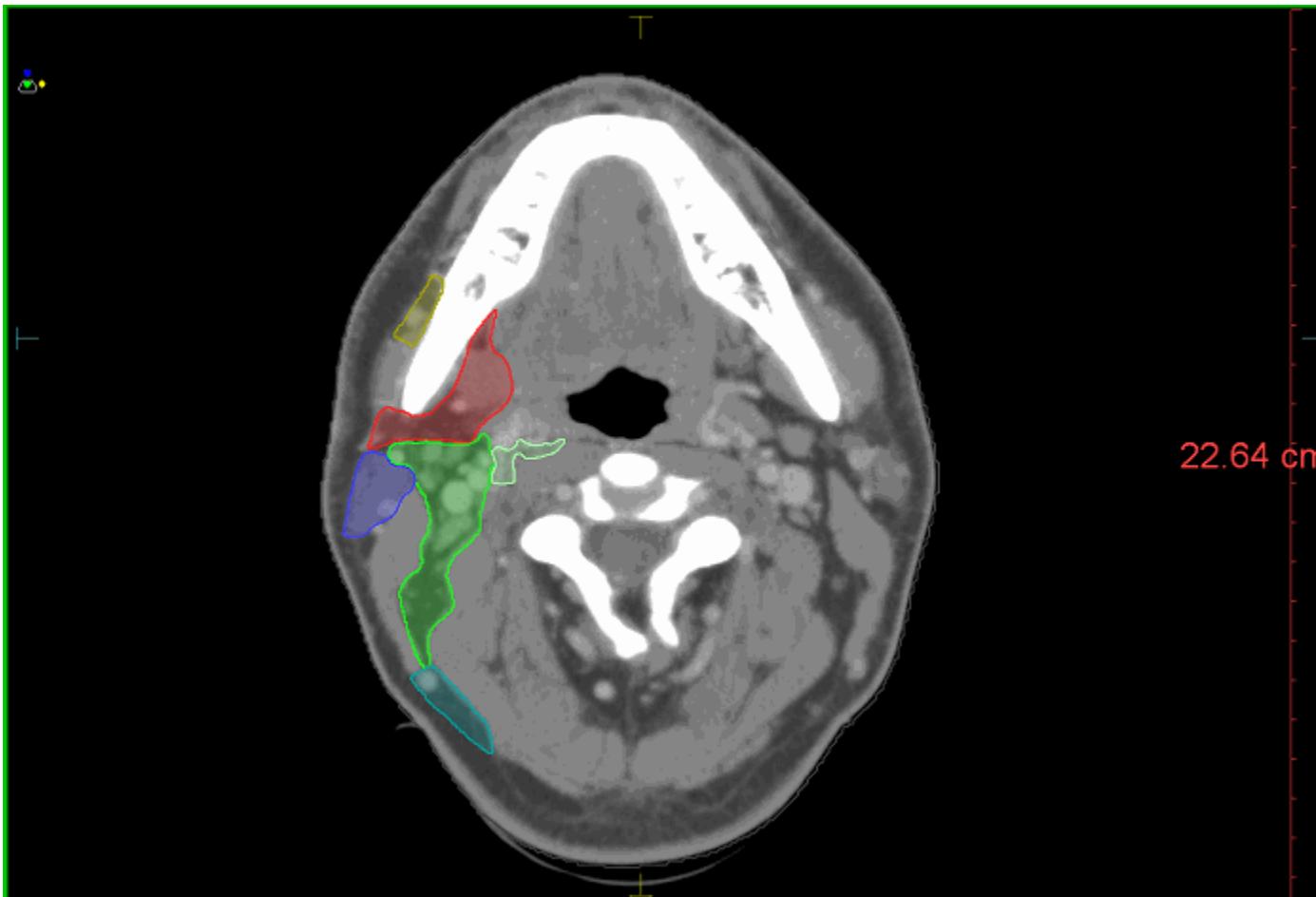
Color	Structure Name
Black	patient
Brown	Level Ia
Red	Level Ib
Green	Level II
Blue	Level VIII
Cyan	Level III
Magenta	Level IVa
Yellow	Level V
Purple	Level VIa
Dark Red	Level VIIb
Light Green	Level VIIa
Dark Blue	Level IVb
Olive Green	Level IX
Cyan	Level Xb
Brown	Level Vc
Red	Level Xa
Purple	Level VIb

Slice Location(cm): Transverse: -5.00



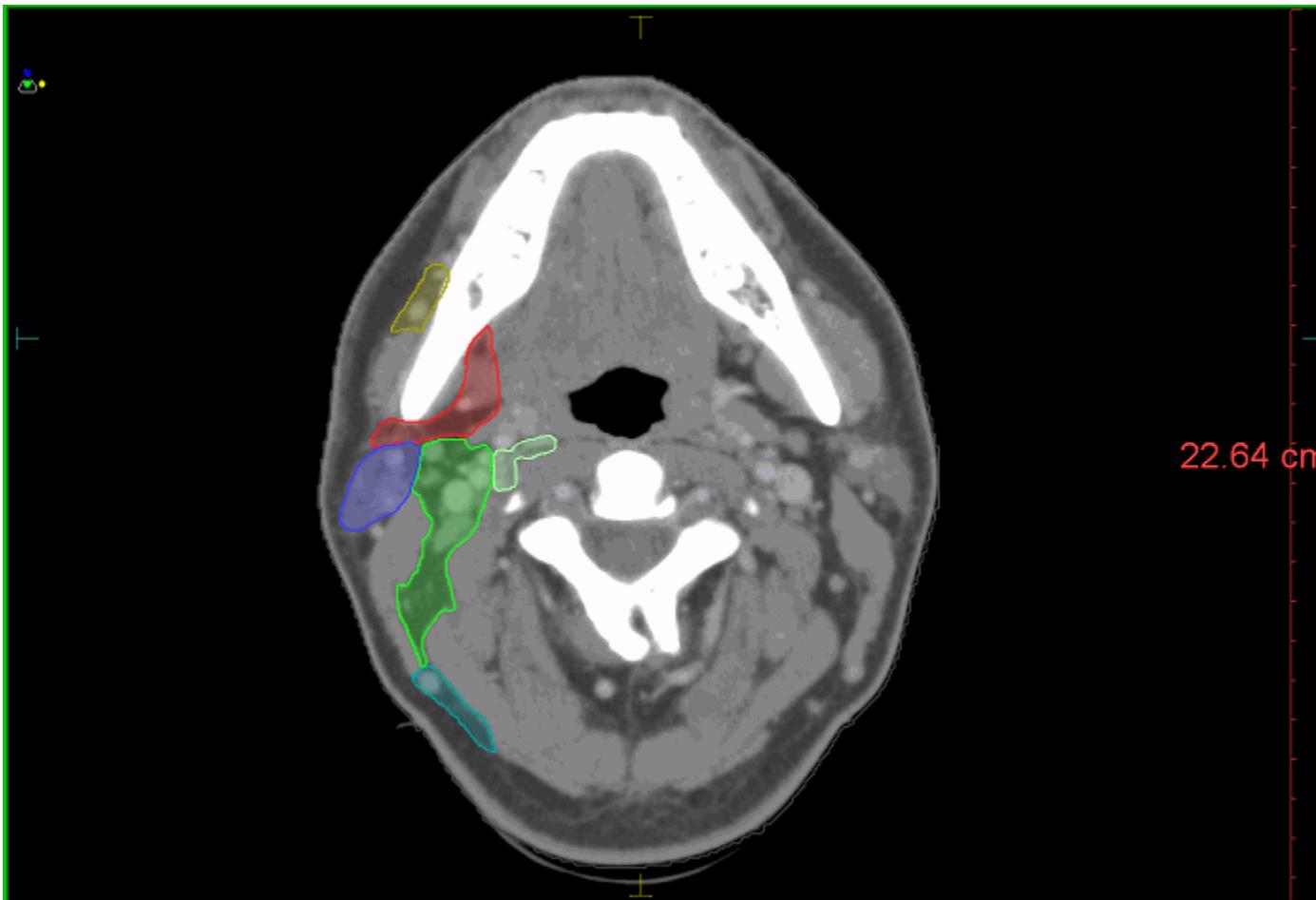
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -4.80



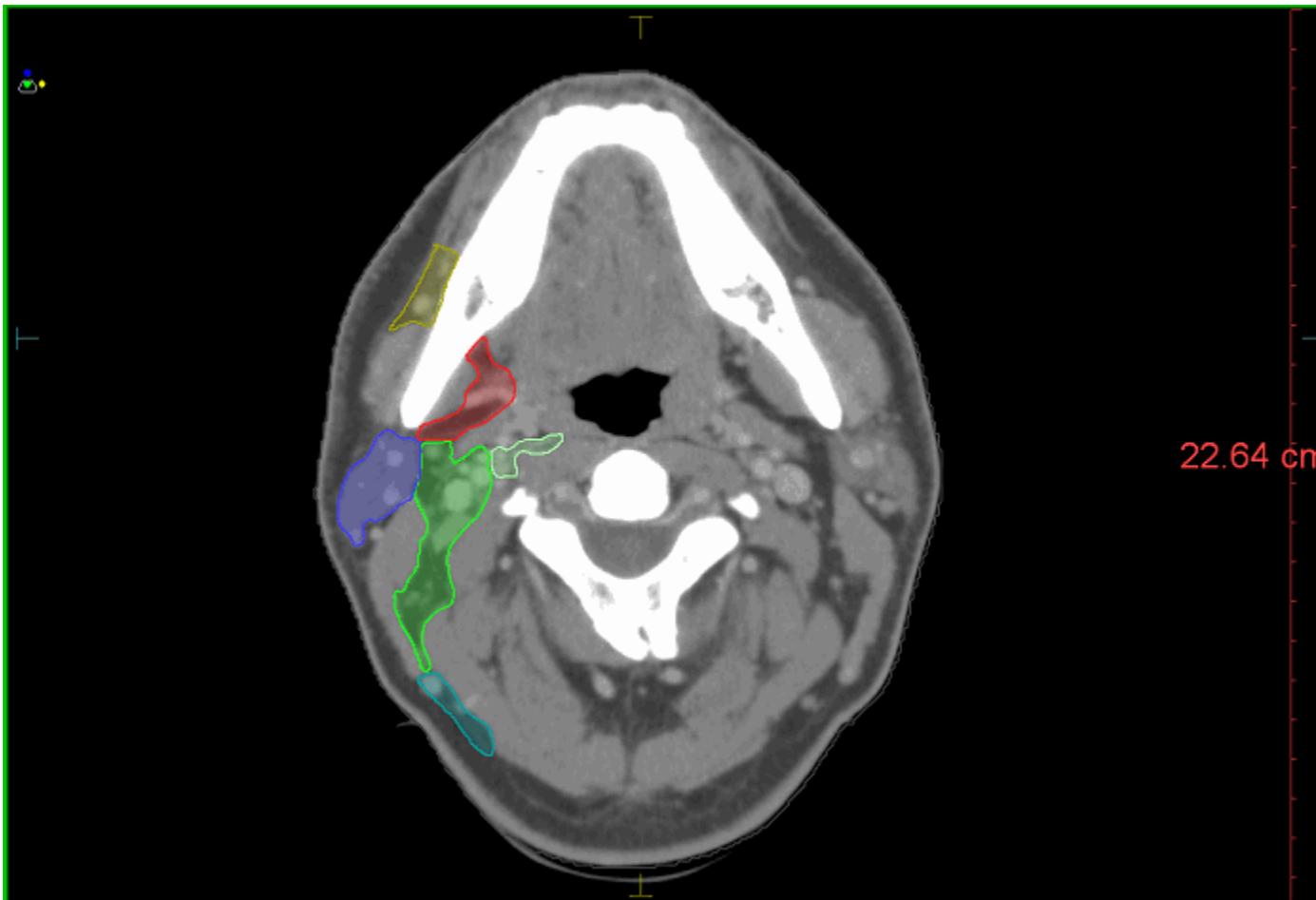
Color	Structure Name
Black	patient
Brown	Level Ia
Red	Level Ib
Green	Level II
Blue	Level VIII
Cyan	Level III
Magenta	Level IVa
Yellow	Level V
Purple	Level VIa
Dark Red	Level VIIb
Light Green	Level VIIa
Dark Blue	Level IVb
Gold	Level IX
Cream	Level Xb
Light Blue	Level Vc
Light Red	Level Xa
Dark Purple	Level VIb

Slice Location(cm): Transverse: -4.60



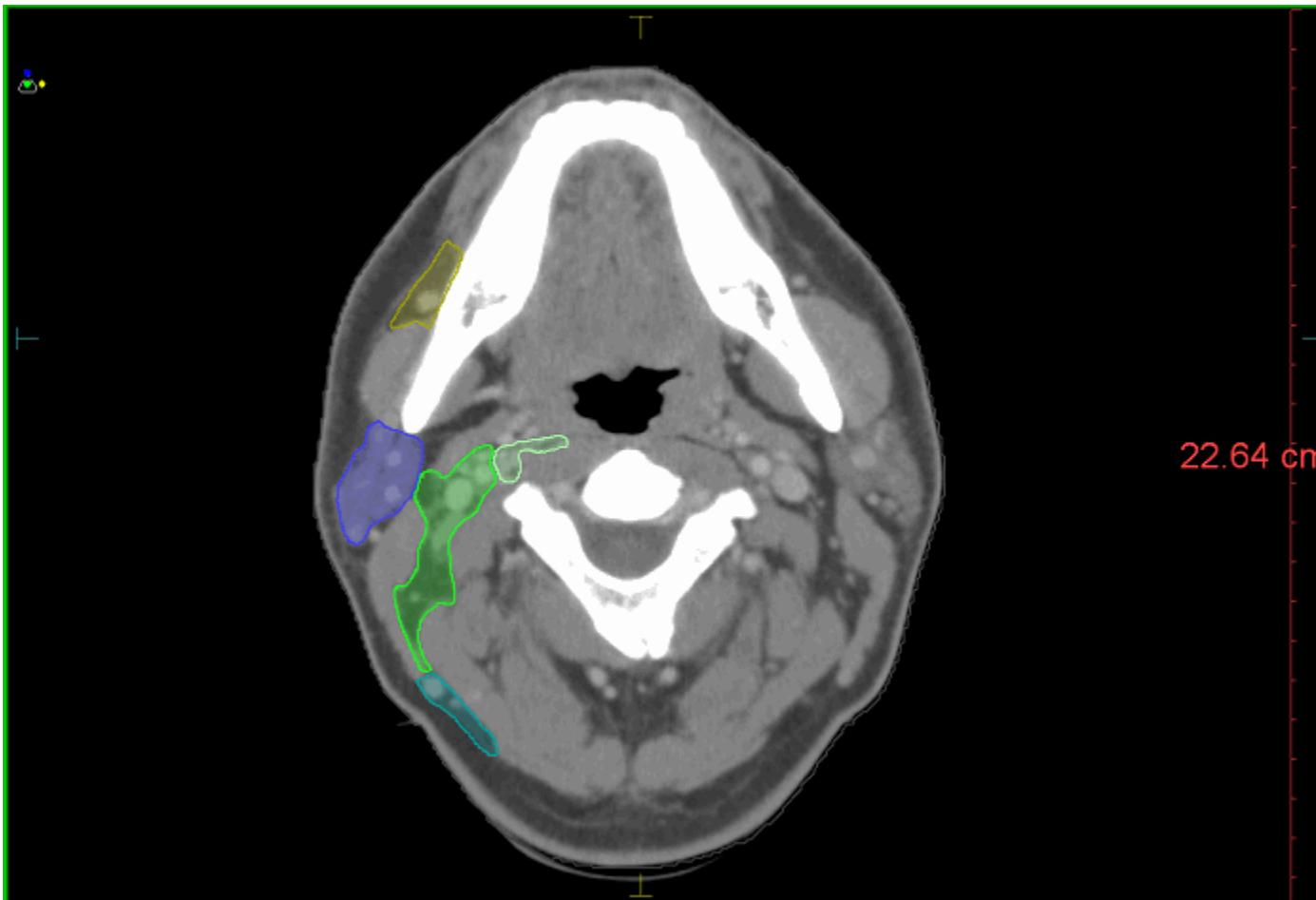
Color	Structure Name
Black	patient
Brown	Level Ia
Red	Level Ib
Green	Level II
Blue	Level VIII
Cyan	Level III
Magenta	Level IVa
Orange	Level V
Purple	Level VIa
Dark Red	Level VIIb
Light Green	Level VIIa
Dark Blue	Level IVb
Gold	Level IX
Teal	Level Xb
Brown	Level Vc
Light Red	Level Xa
Pink	Level VIb

Slice Location(cm): Transverse: -4.40



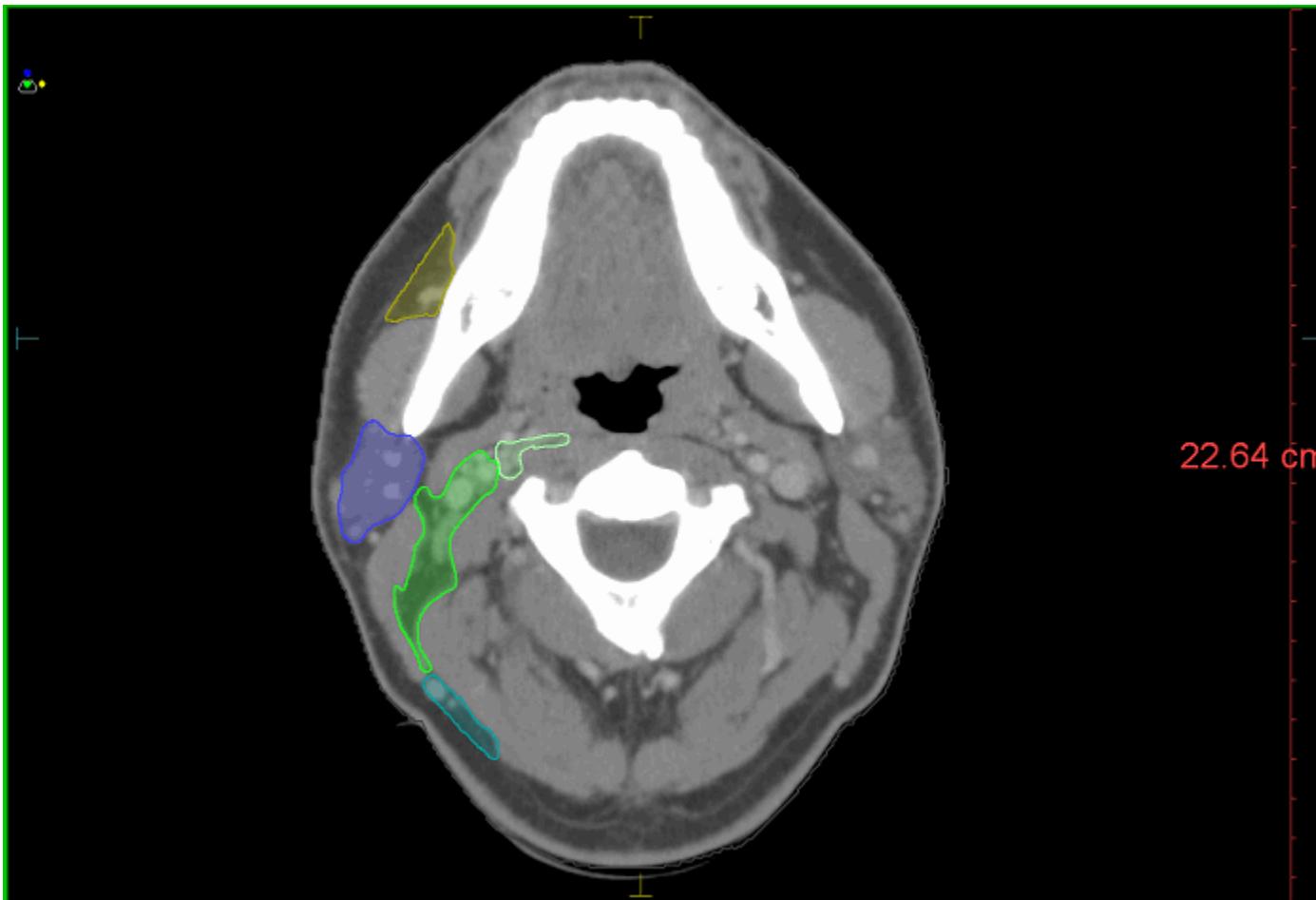
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
violet	Level VIb

Slice Location(cm): Transverse: -4.20



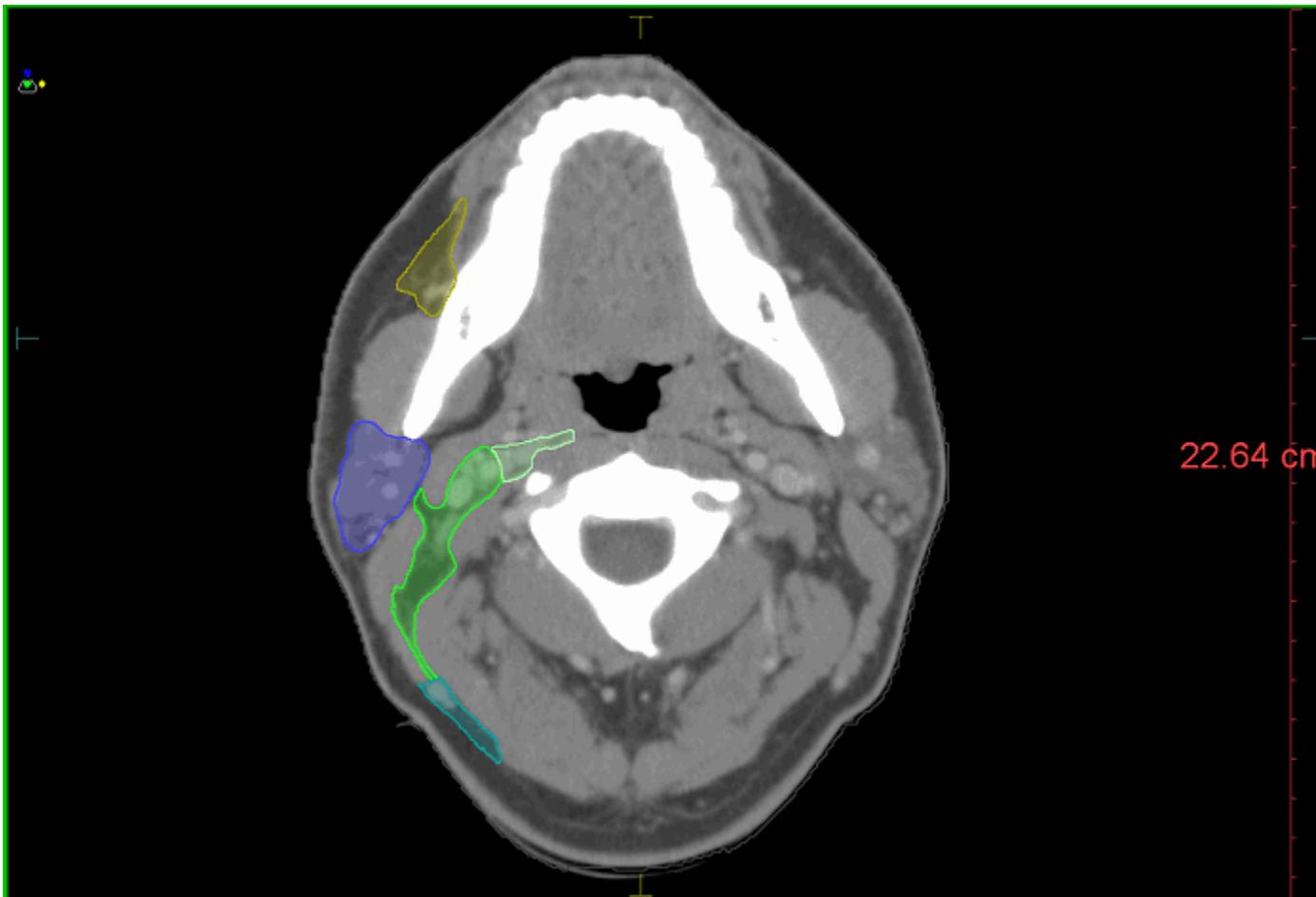
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -4.00



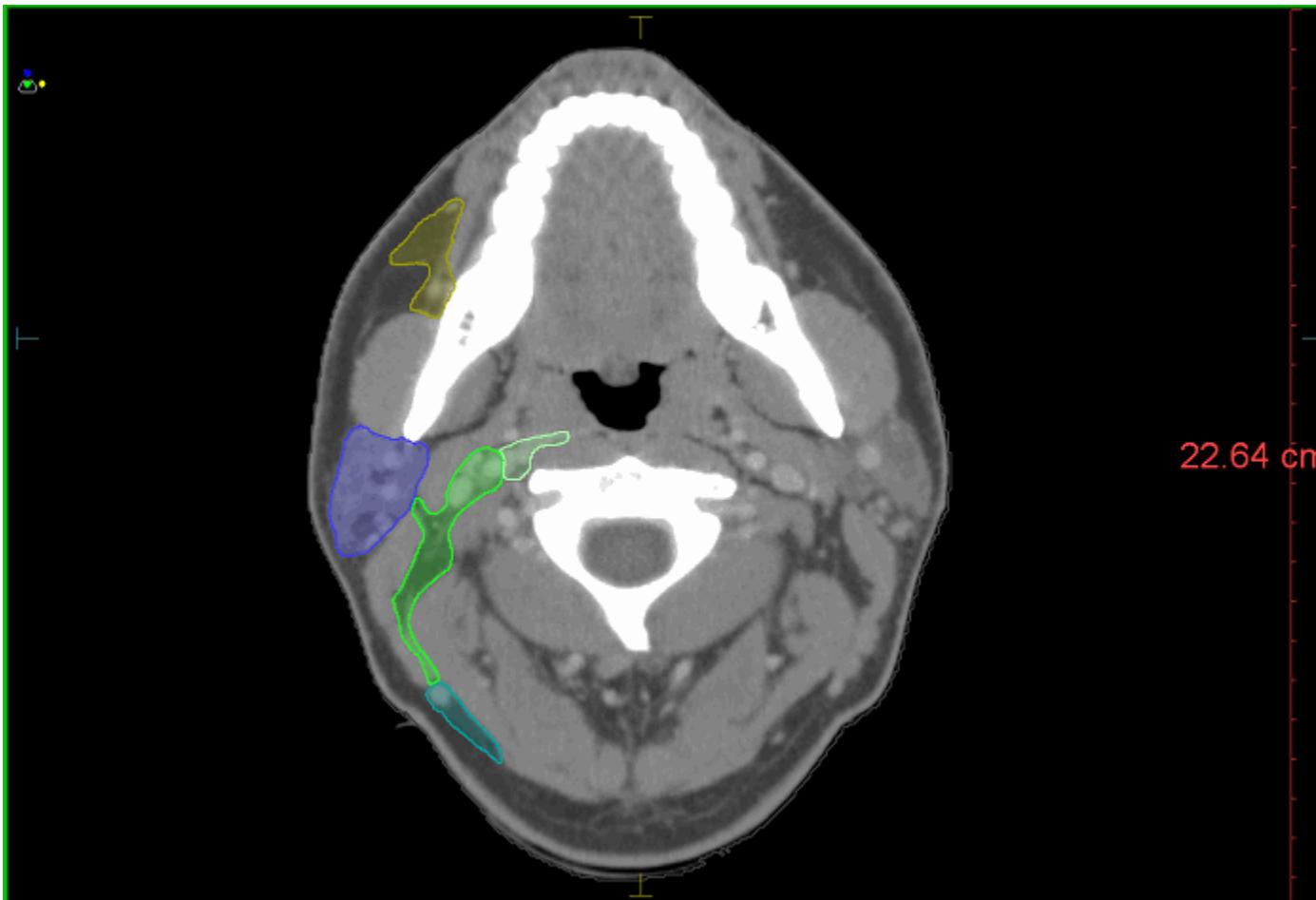
Color	Structure Name
Black	patient
Brown	Level Ia
Red	Level Ib
Green	Level II
Blue	Level VIII
Cyan	Level III
Magenta	Level IVa
Orange	Level V
Purple	Level VIa
Dark Red	Level VIIb
Light Green	Level VIIa
Dark Blue	Level IVb
Olive Green	Level IX
Cyan	Level Xb
Brown	Level Vc
Red	Level Xa
Purple	Level VIb

Slice Location(cm): Transverse: -3.80



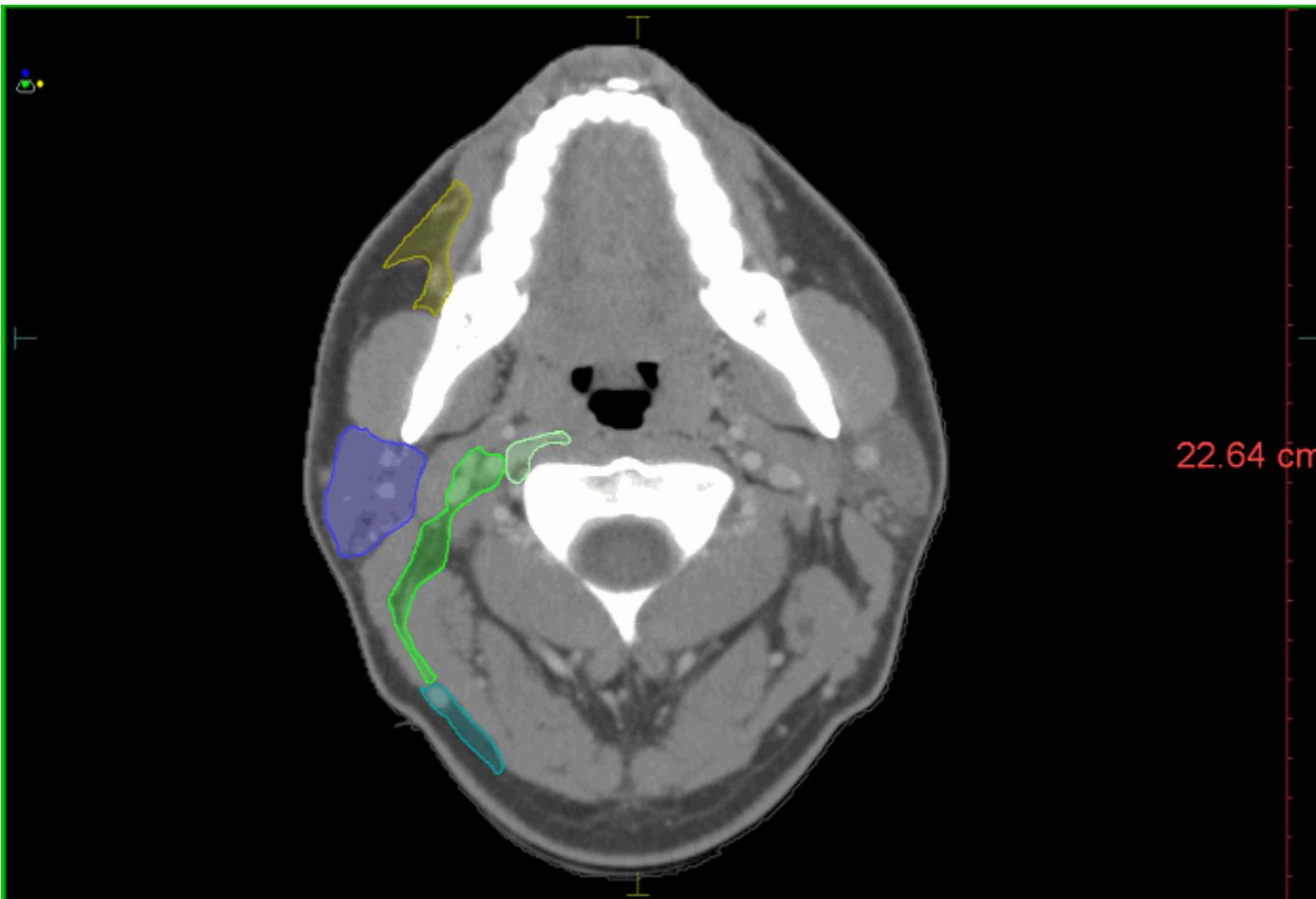
Color	Structure Name
Black	patient
Brown	Level Ia
Red	Level Ib
Green	Level II
Blue	Level VIII
Cyan	Level III
Magenta	Level IVa
Orange	Level V
Purple	Level VIa
Dark Red	Level VIIb
Light Green	Level VIIa
Dark Blue	Level IVb
Gold	Level IX
Cyan	Level Xb
Brown	Level Vc
Red	Level Xa
Purple	Level VIb

Slice Location(cm): Transverse: -3.60



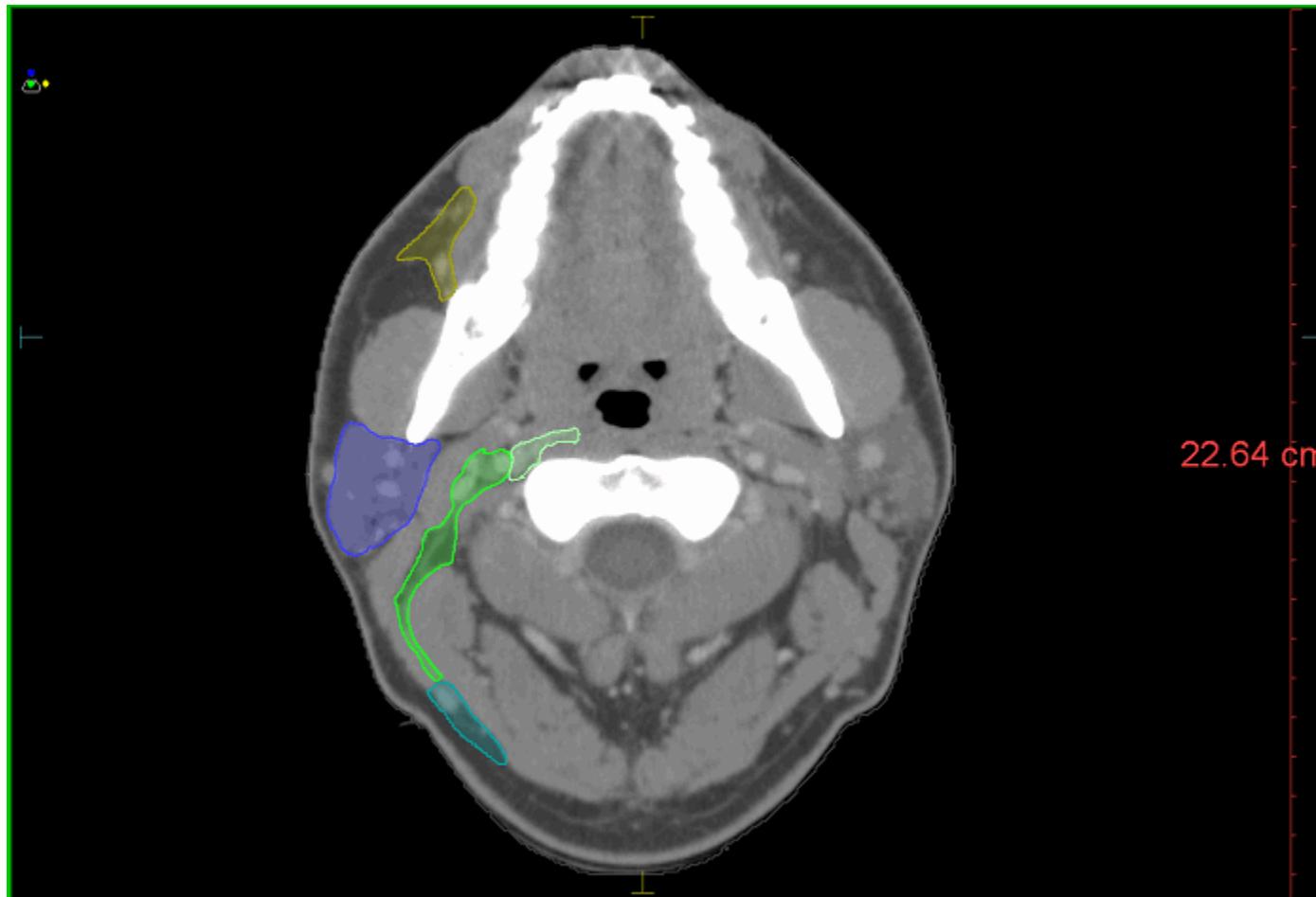
Color	Structure Name
Black	patient
Brown	Level Ia
Red	Level Ib
Green	Level II
Blue	Level VIII
Cyan	Level III
Magenta	Level IVa
Orange	Level V
Purple	Level VIa
Dark Red	Level VIIb
Light Green	Level VIIa
Dark Blue	Level IVb
Olive Green	Level IX
Cream	Level Xb
Brown	Level Vc
Red	Level Xa
Purple	Level VIb

Slice Location(cm): Transverse: -3.40



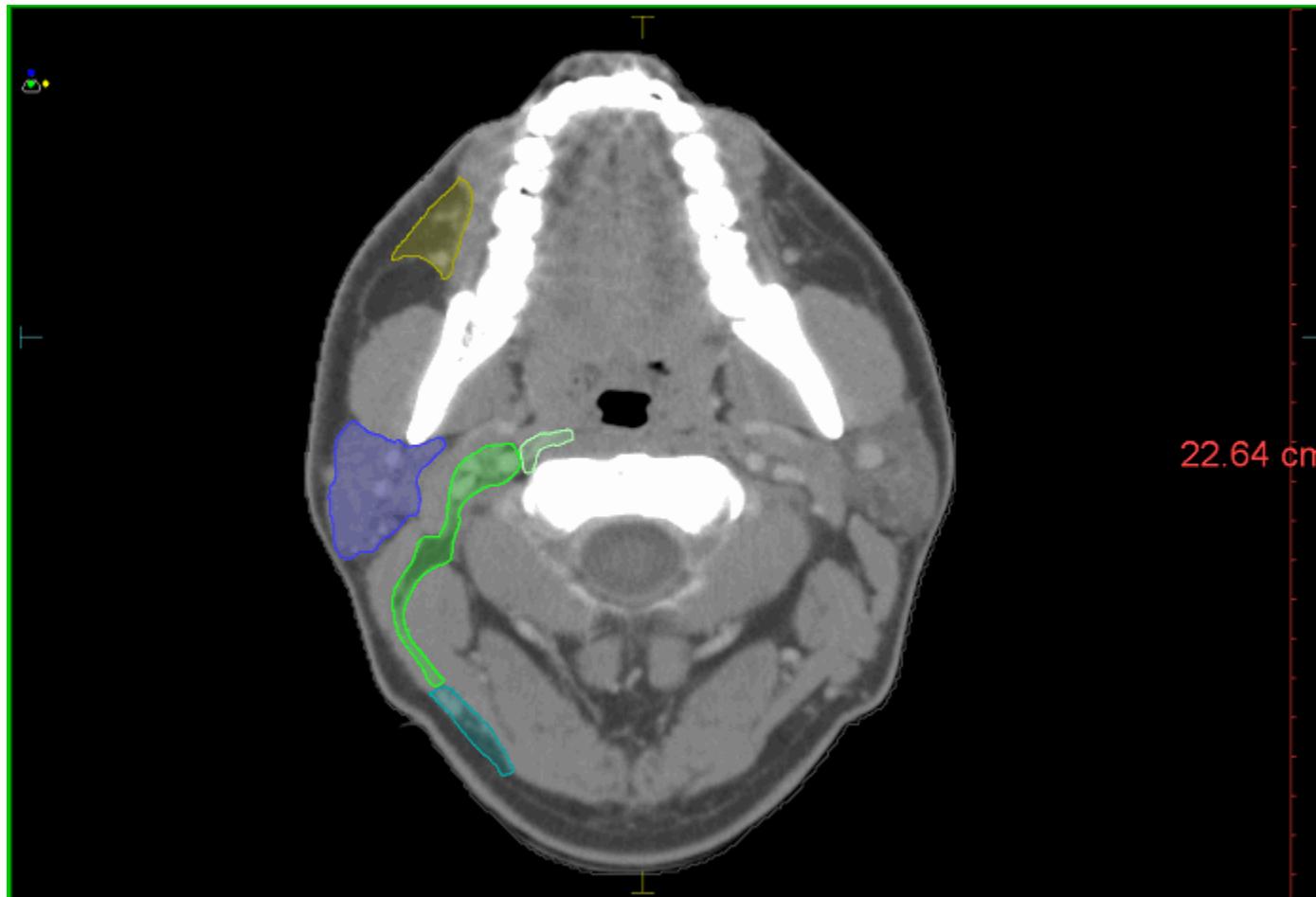
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -3.20



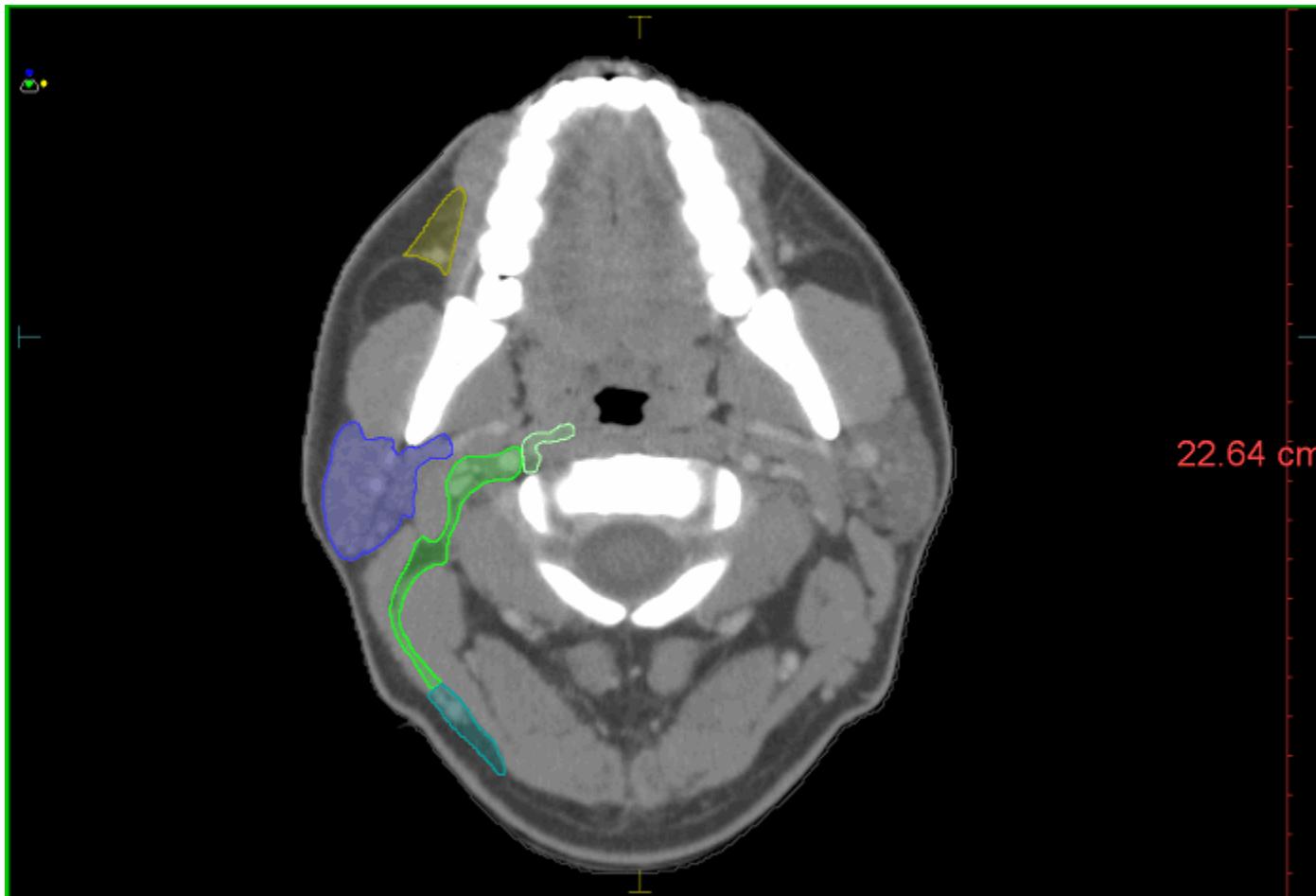
Color	Structure Name
Black	patient
Brown	Level Ia
Red	Level Ib
Green	Level II
Blue	Level VIII
Cyan	Level III
Magenta	Level IVa
Yellow	Level V
Purple	Level VIa
Dark Red	Level VIIb
Light Green	Level VIIa
Dark Blue	Level IVb
Gold	Level IX
Cream	Level Xb
Brown	Level Vc
Red	Level Xa
Purple	Level VIb

Slice Location(cm): Transverse: -3.00



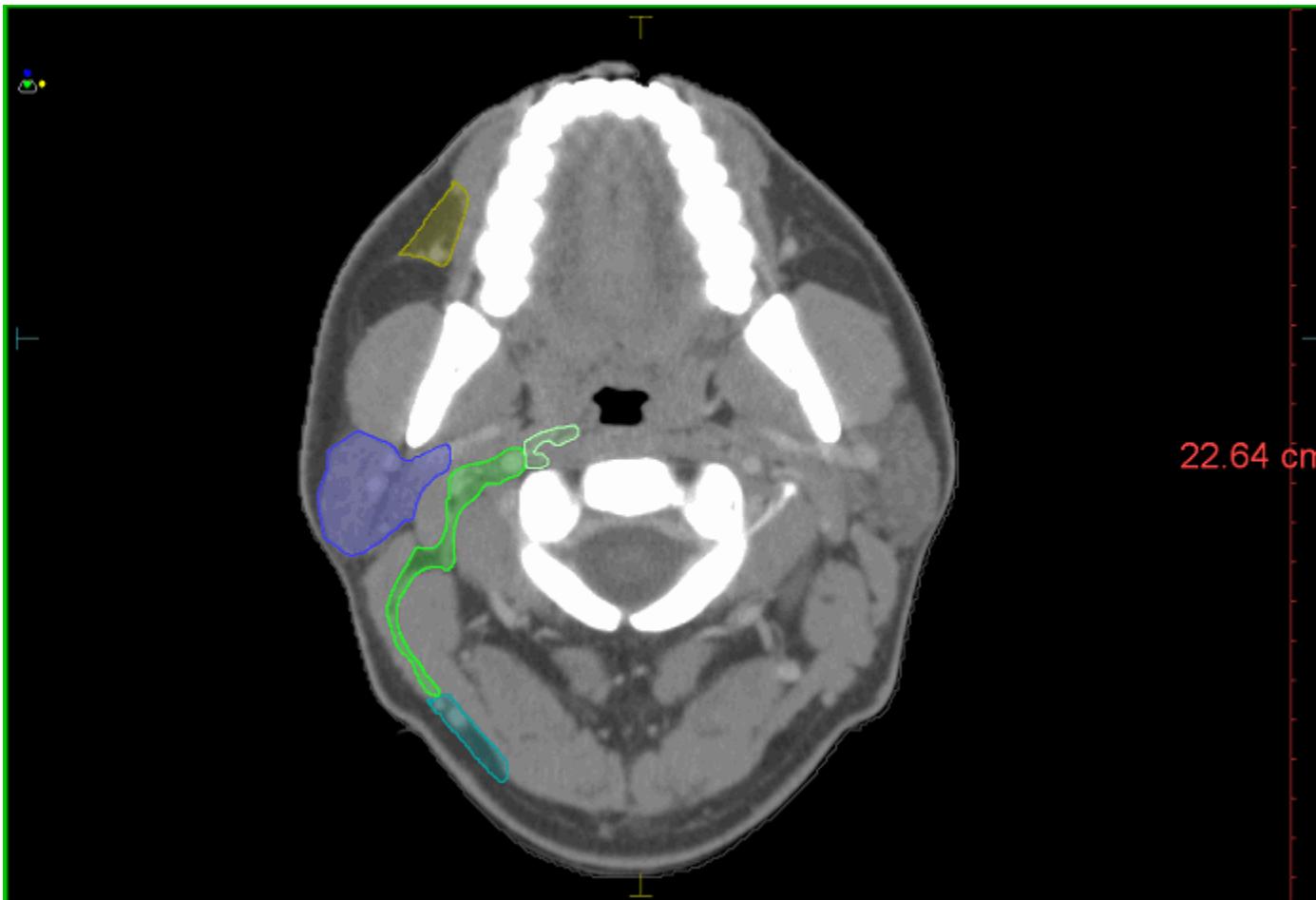
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -2.80

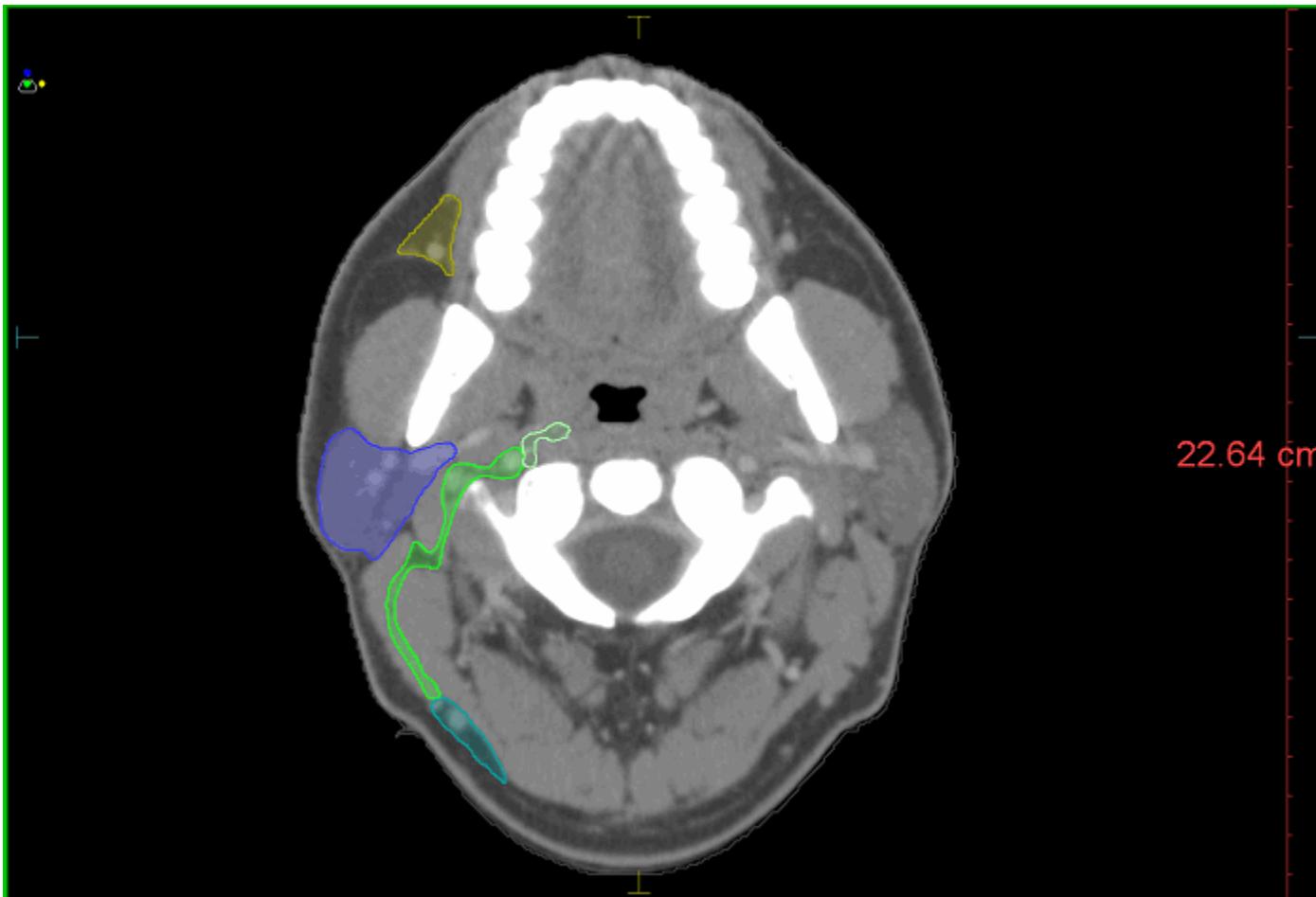


Color	Structure Name
Black	patient
Brown	Level Ia
Red	Level Ib
Green	Level II
Blue	Level VIII
Cyan	Level III
Magenta	Level IVa
Yellow	Level V
Purple	Level VIa
Dark Red	Level VIIb
Light Green	Level VIIa
Dark Blue	Level IVb
Olive Green	Level IX
Cyan	Level Xb
Brown	Level Vc
Red	Level Xa
Purple	Level VIb

Slice Location(cm): Transverse: -2.60

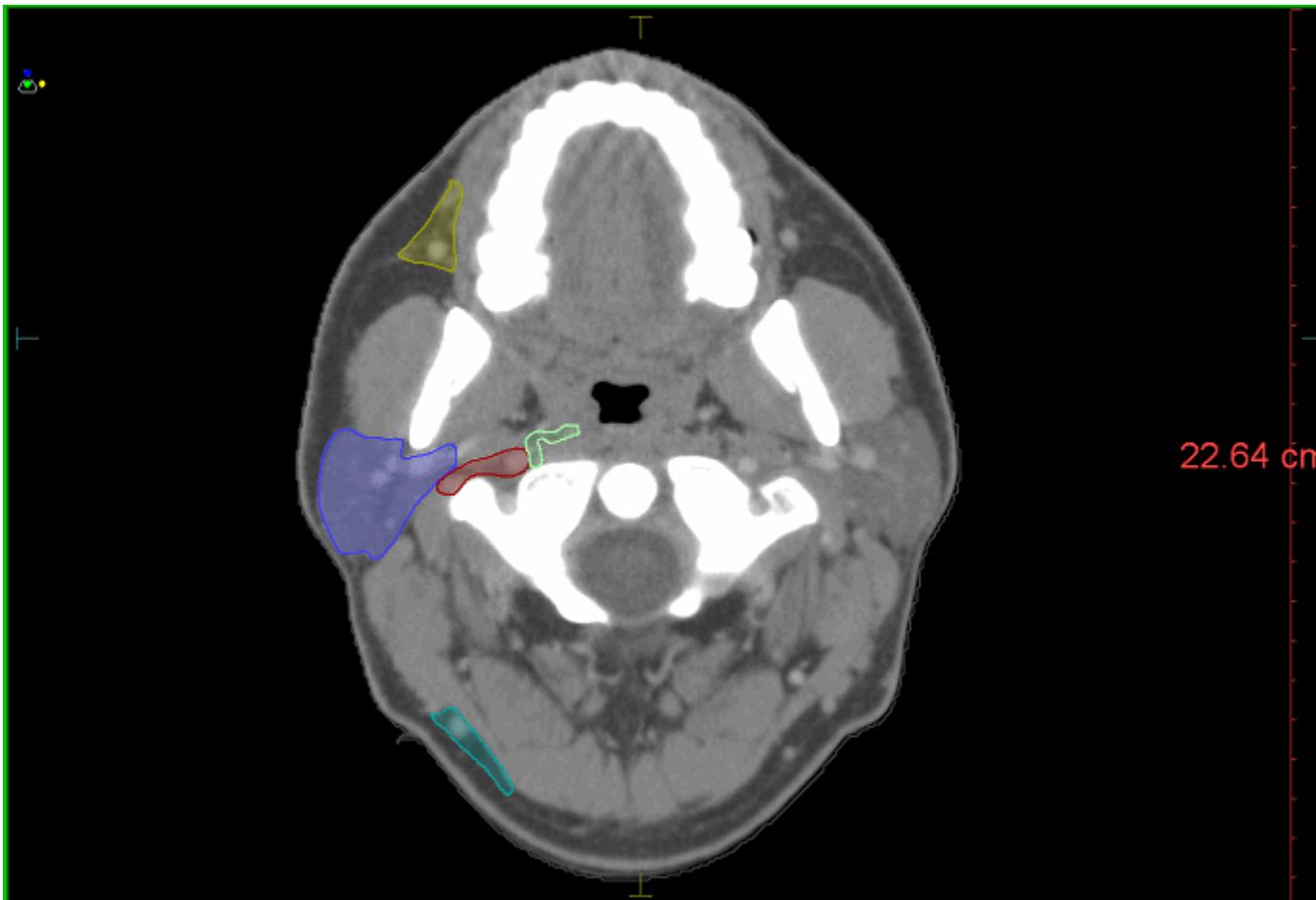


Slice Location(cm): Transverse: -2.40



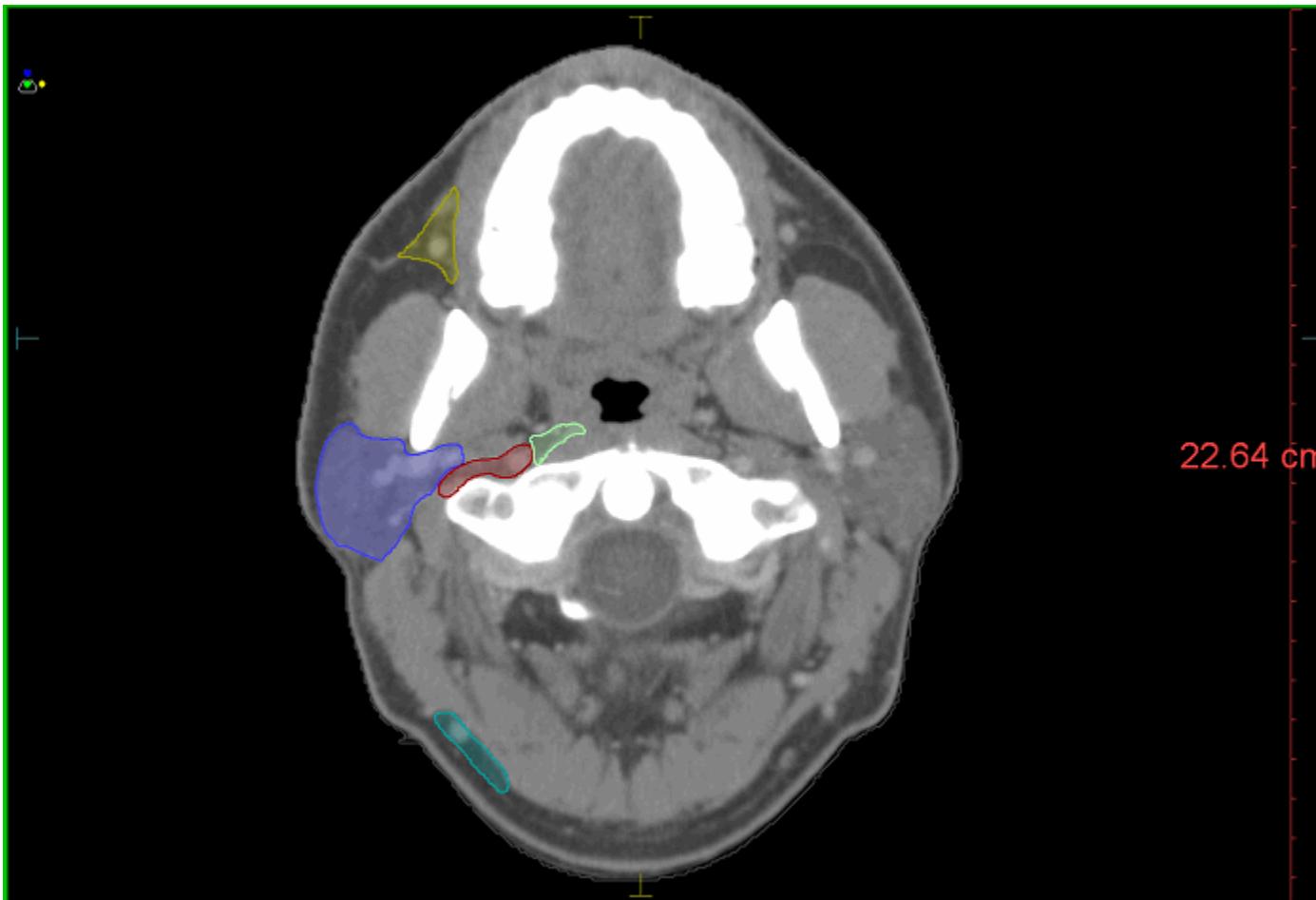
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -2.20



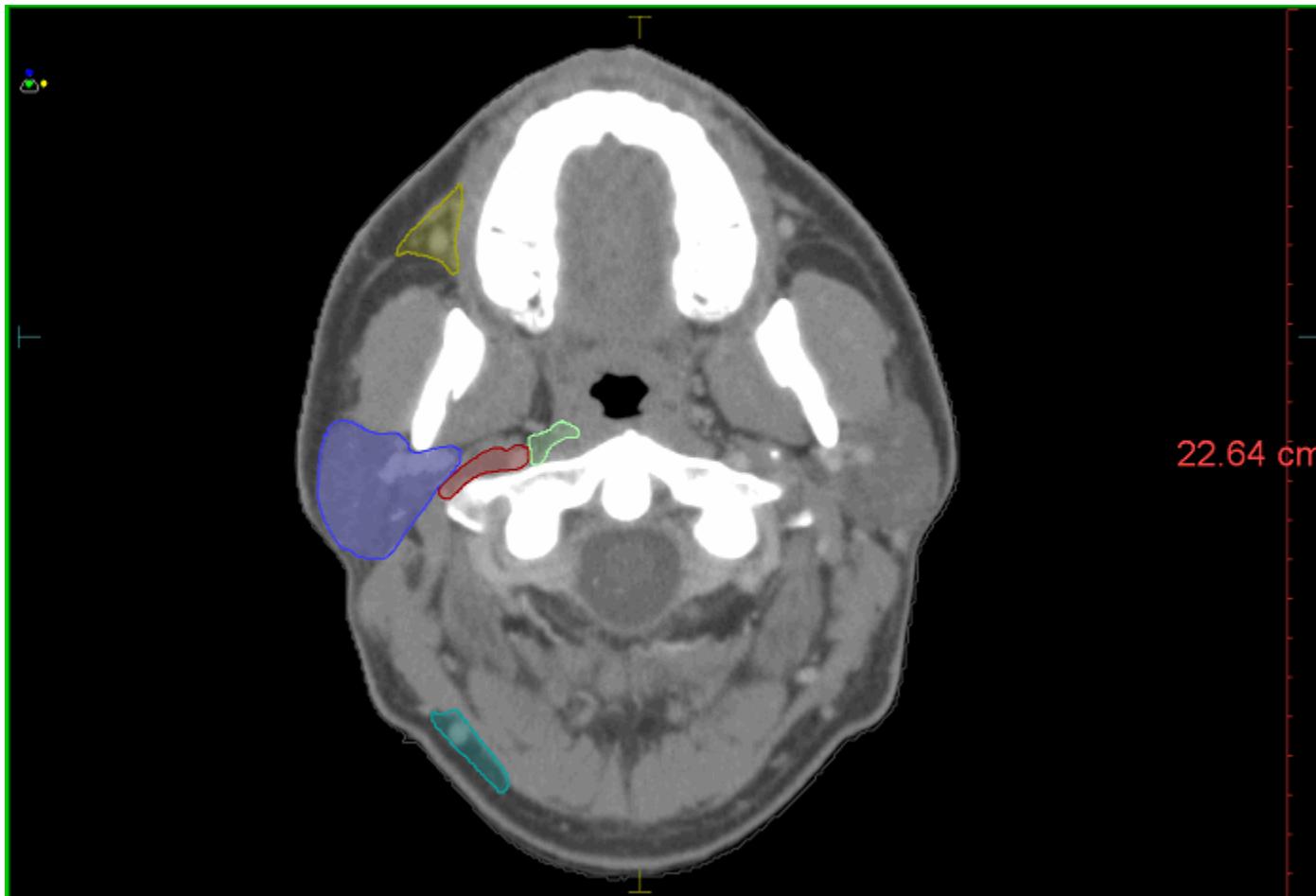
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
violet	Level VIb

Slice Location(cm): Transverse: -2.00



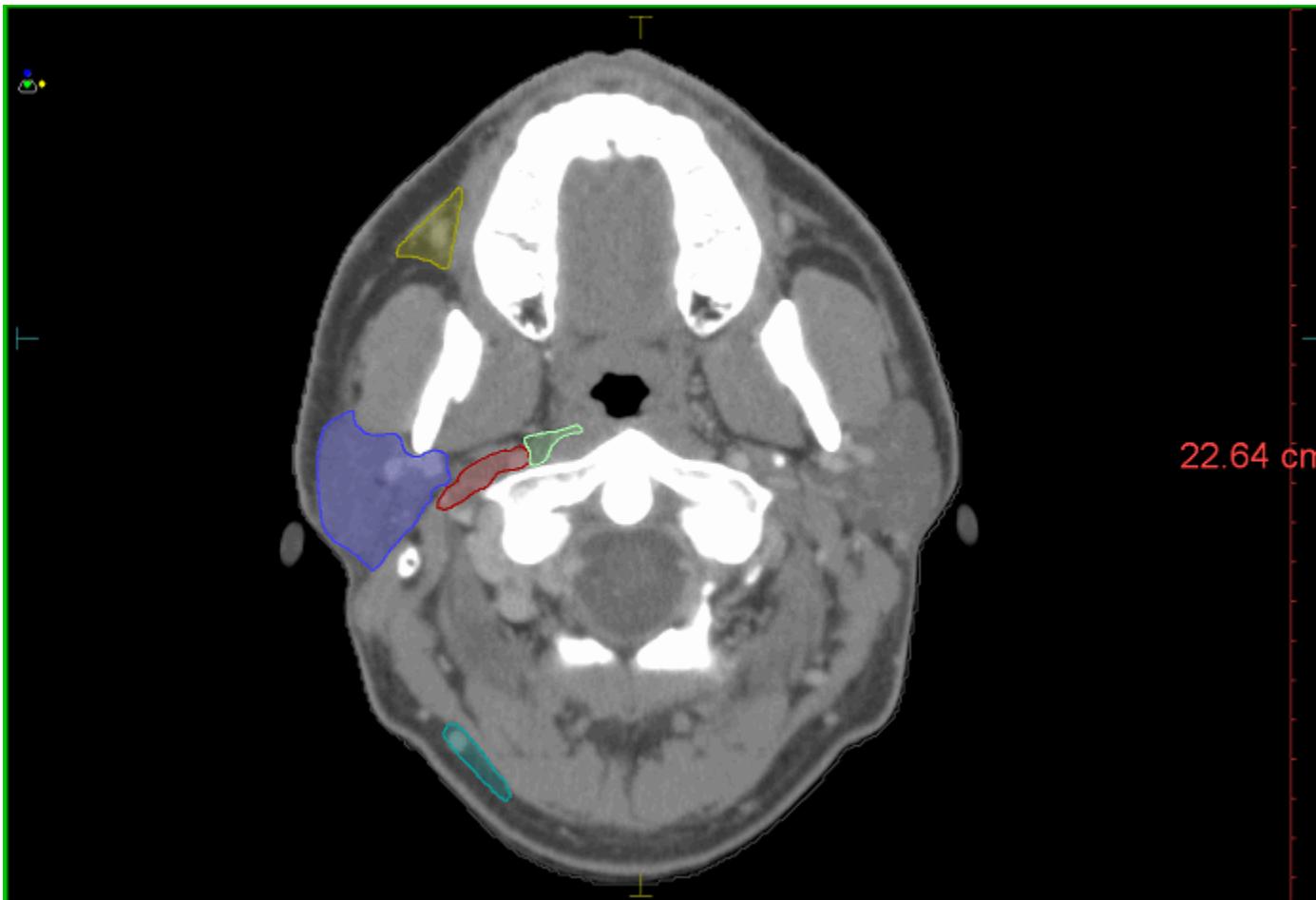
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
blue	Level IVb
yellow	Level IX
teal	Level Xb
brown	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -1.80



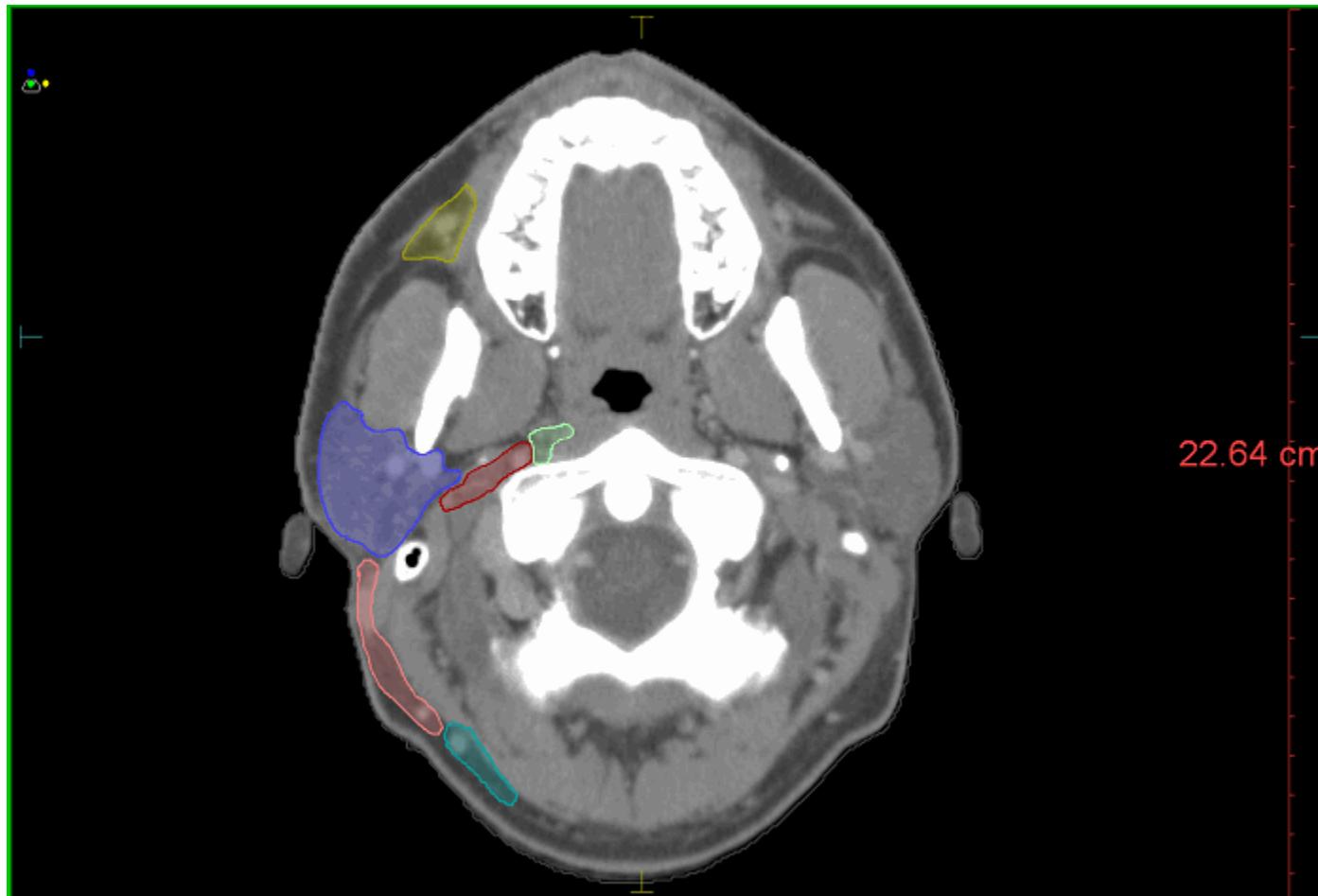
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -1.60



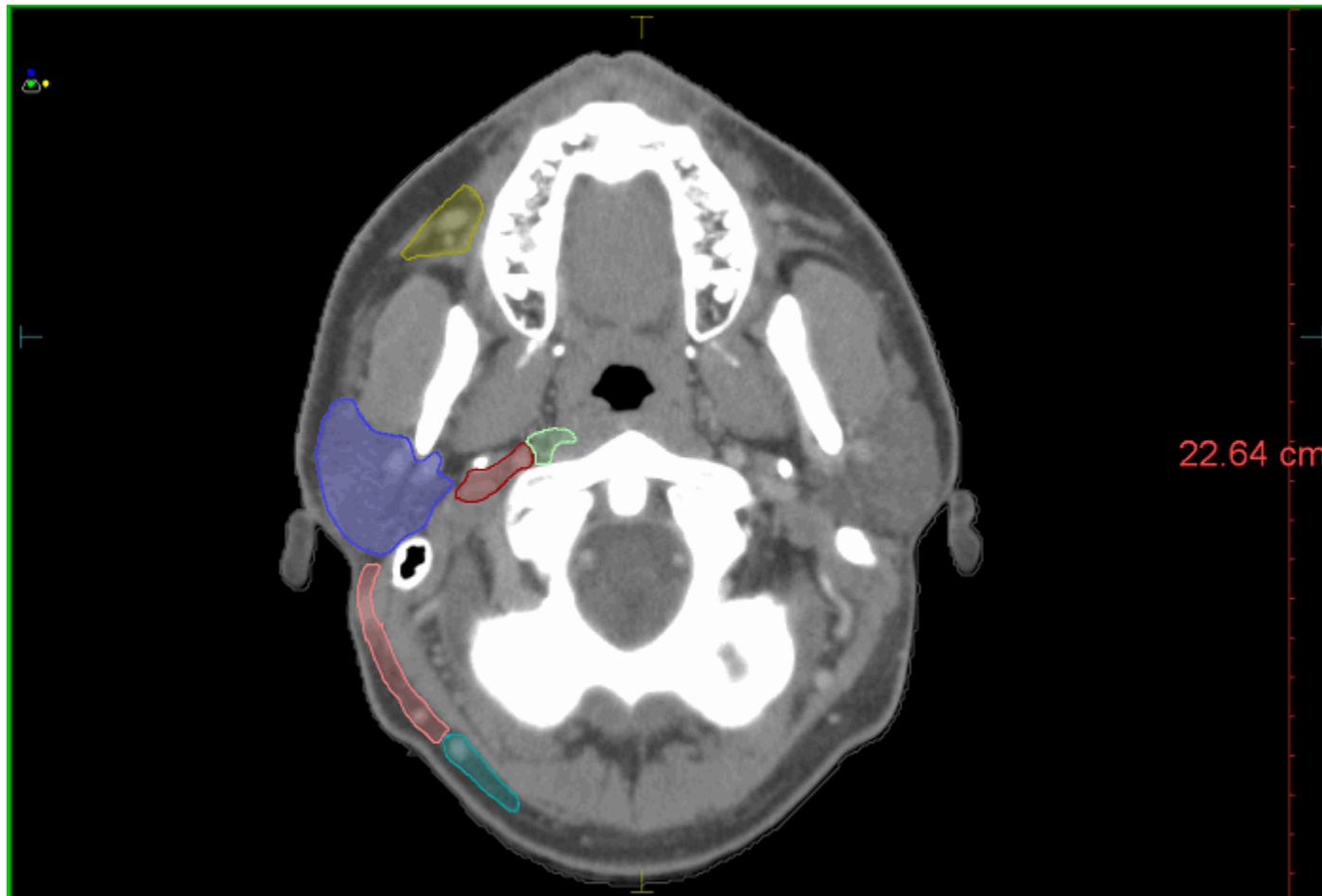
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
gold	Level IX
teal	Level Xb
brown	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -1.40



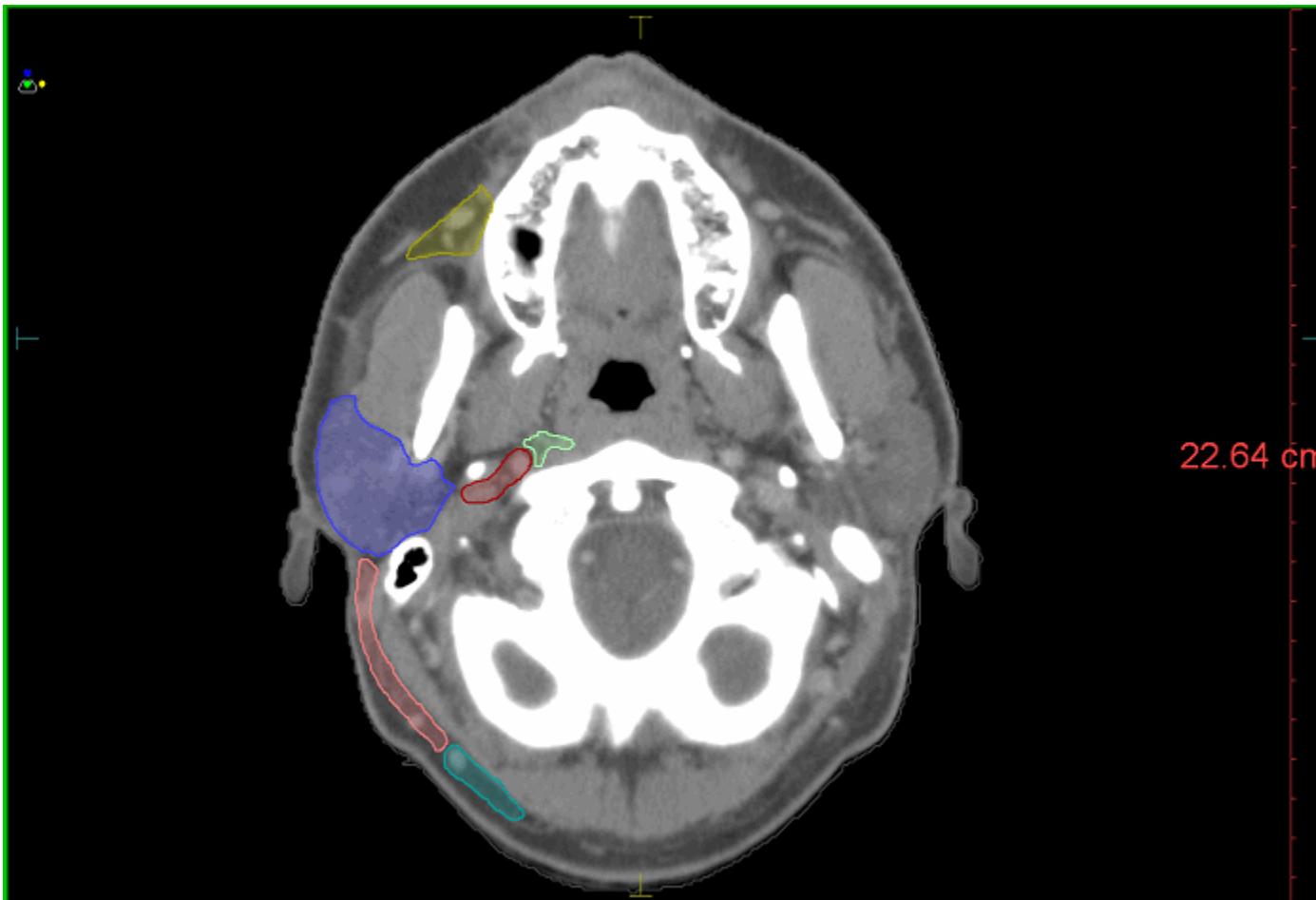
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
yellow	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -1.20



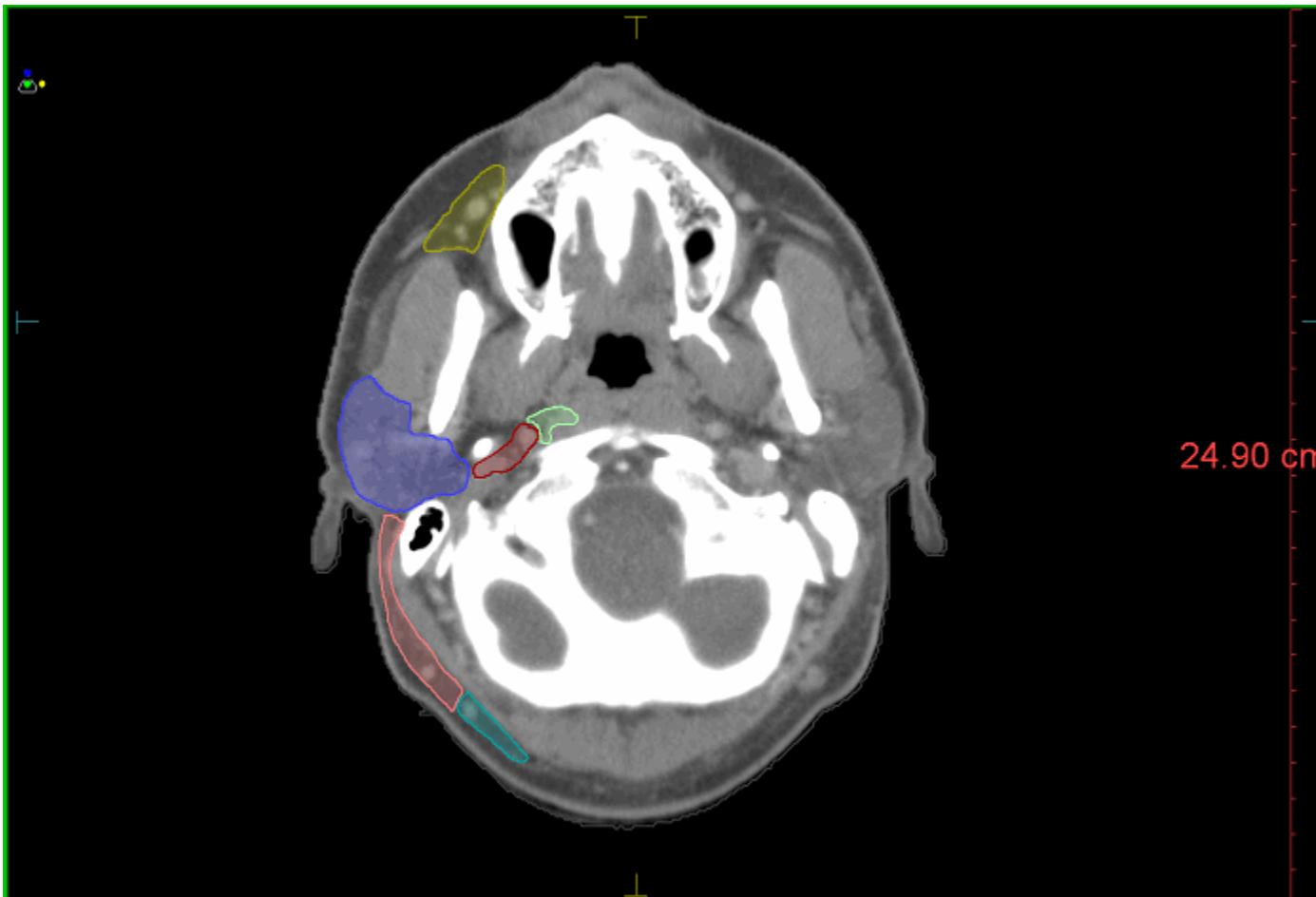
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -1.00



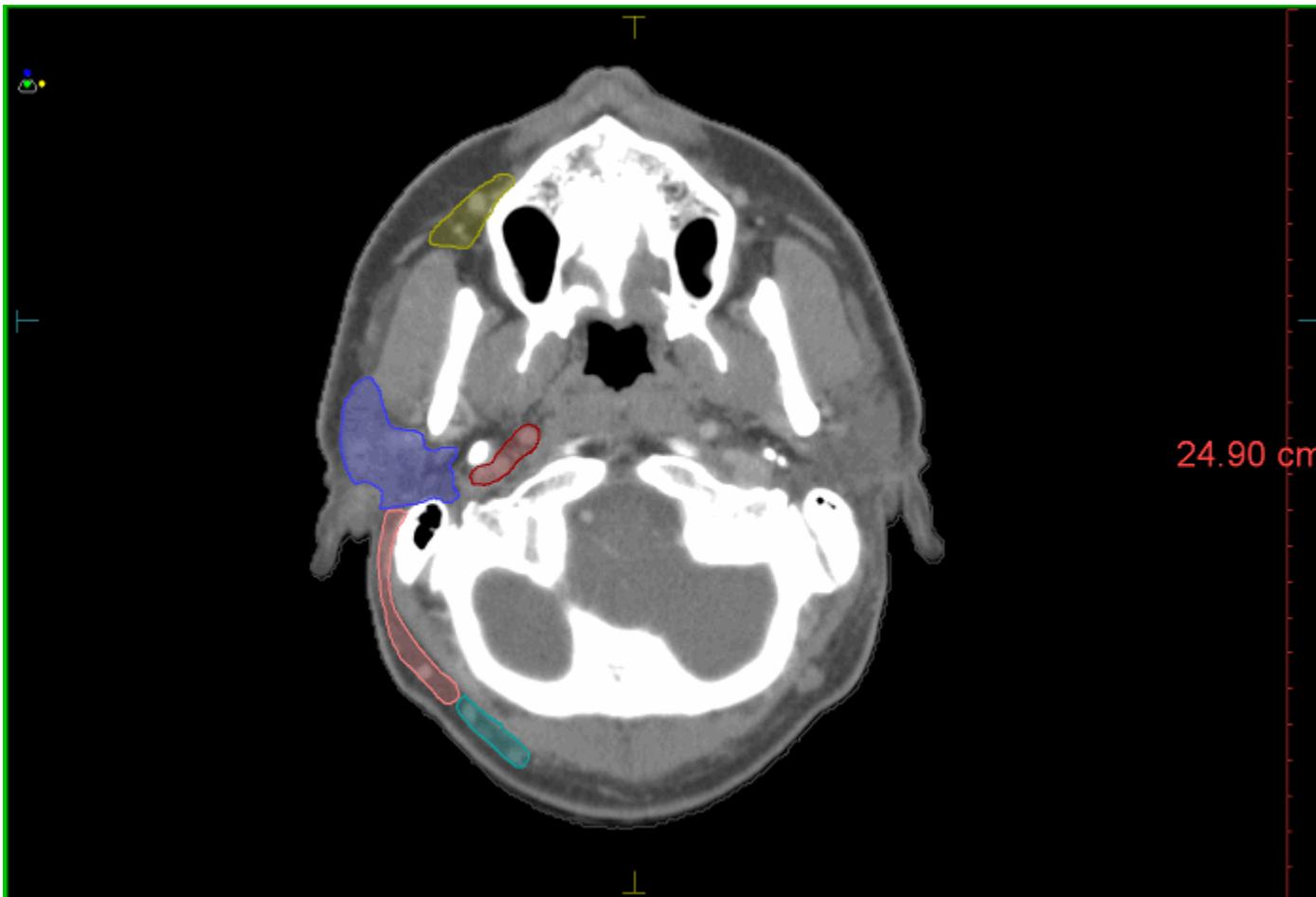
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: -0.80



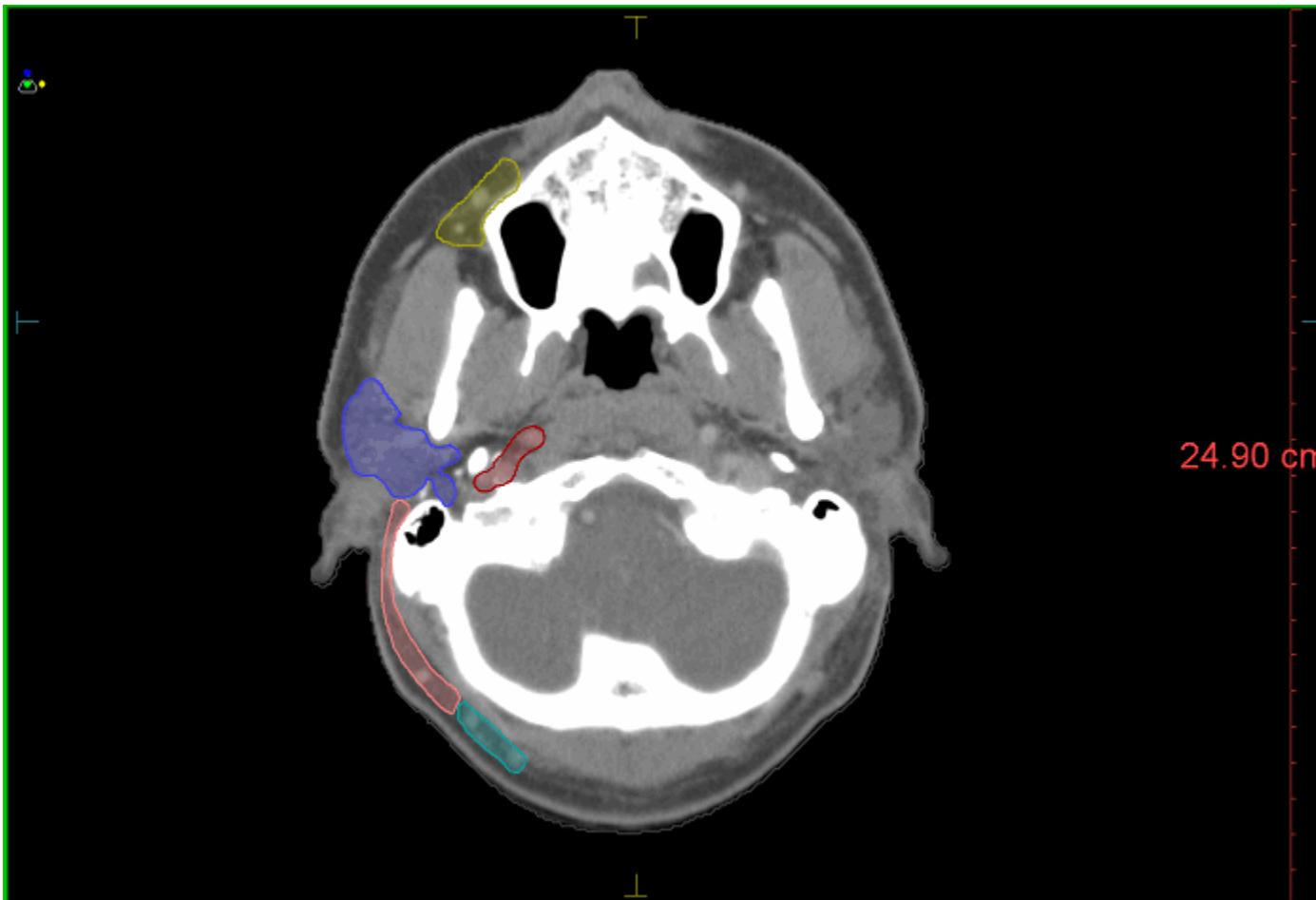
Color	Structure Name
Black	patient
Brown	Level Ia
Red	Level Ib
Green	Level II
Blue	Level VIII
Cyan	Level III
Magenta	Level IVa
Orange	Level V
Purple	Level VIa
Dark Red	Level VIIb
Light Green	Level VIIa
Dark Blue	Level IVb
Gold	Level IX
Cyan	Level Xb
Brown	Level Vc
Light Red	Level Xa
Pink	Level VIb

Slice Location(cm): Transverse: -0.60



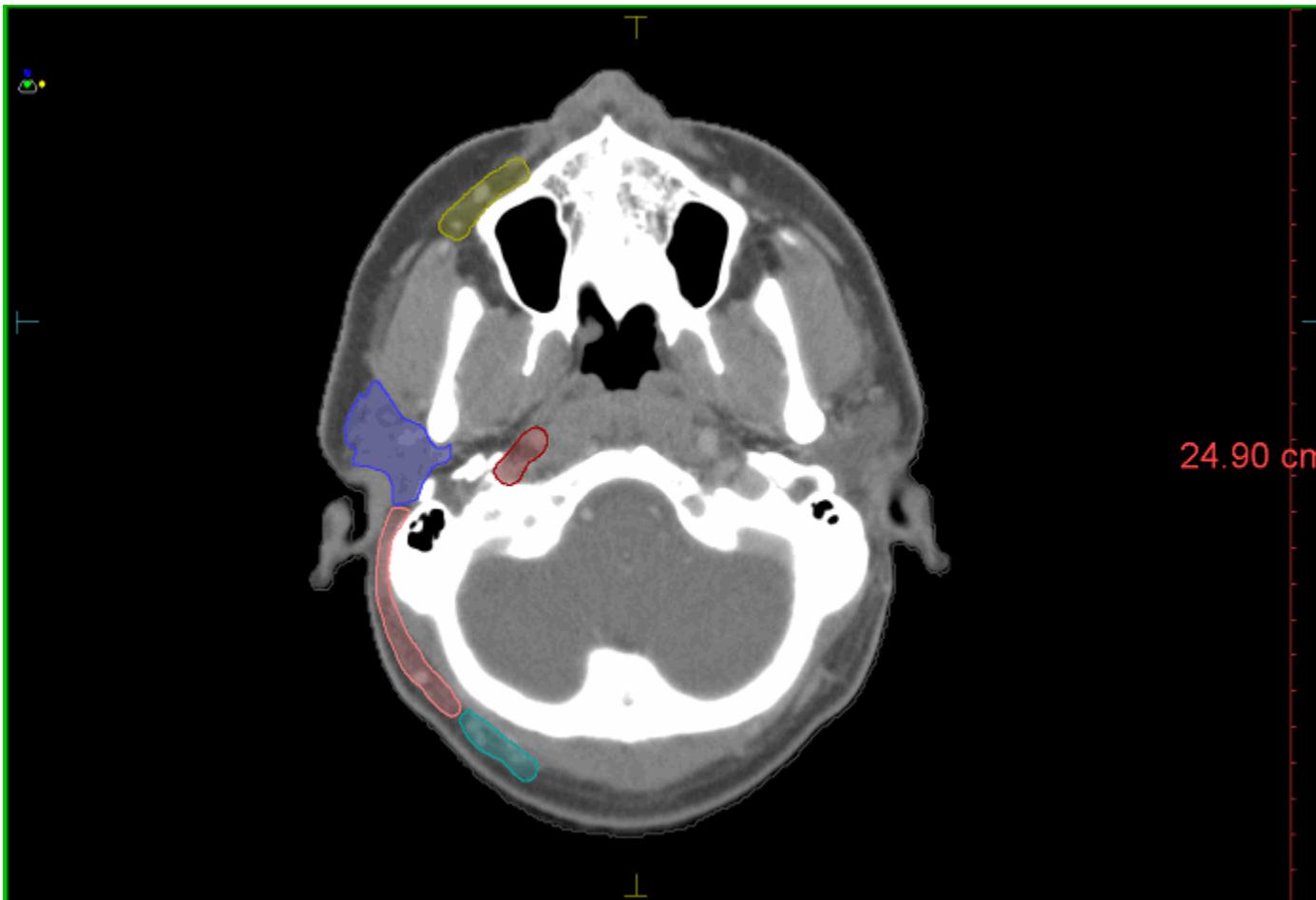
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
violet	Level VIb

Slice Location(cm): Transverse: -0.40



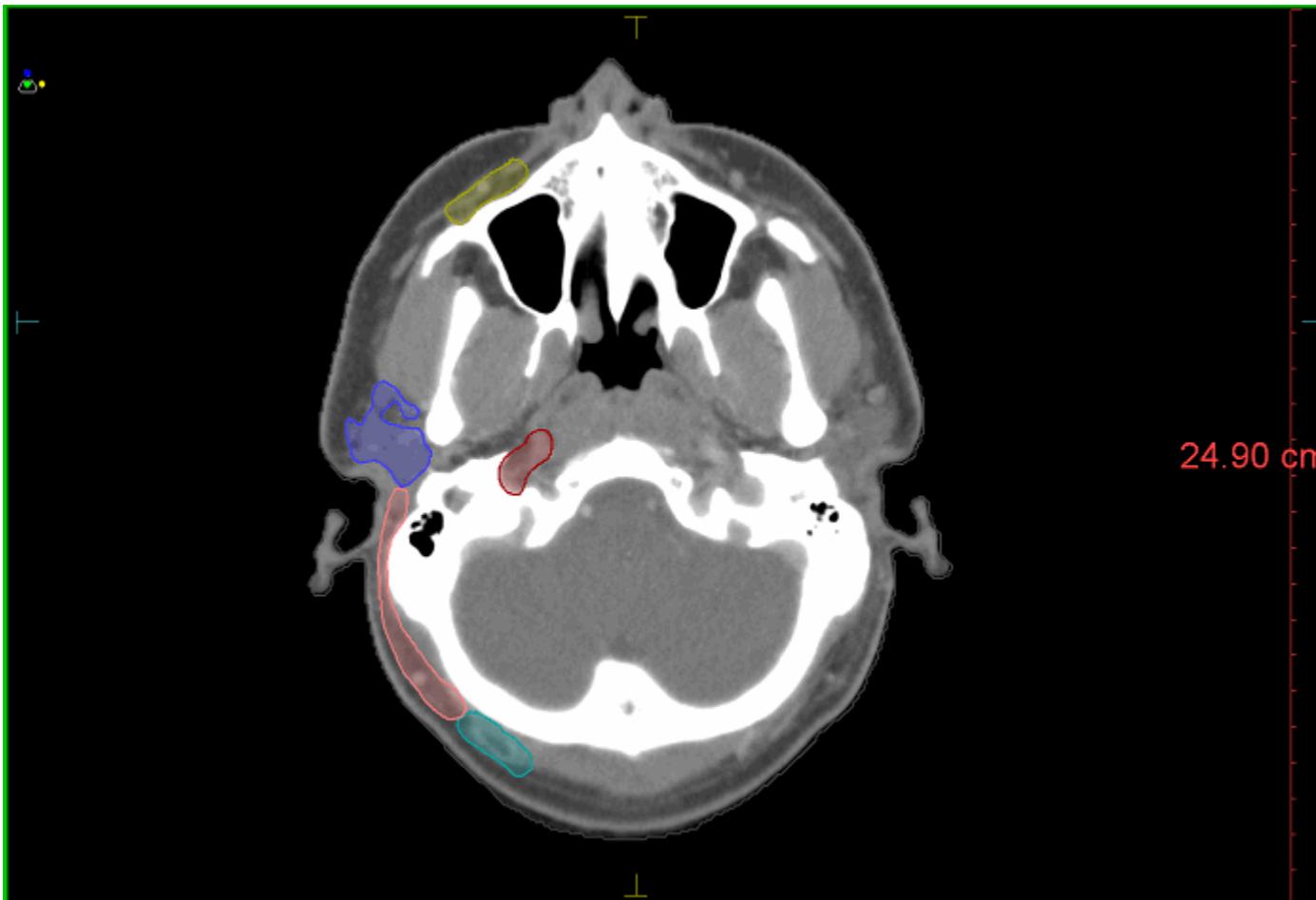
Color	Structure Name
Black	patient
Brown	Level Ia
Red	Level Ib
Green	Level II
Blue	Level VIII
Cyan	Level III
Magenta	Level IVa
Orange	Level V
Purple	Level VIa
Dark Red	Level VIIb
Light Green	Level VIIa
Dark Blue	Level IVb
Gold	Level IX
Cream	Level Xb
Brown	Level Vc
Light Red	Level Xa
Dark Purple	Level VIb

Slice Location(cm): Transverse: -0.20



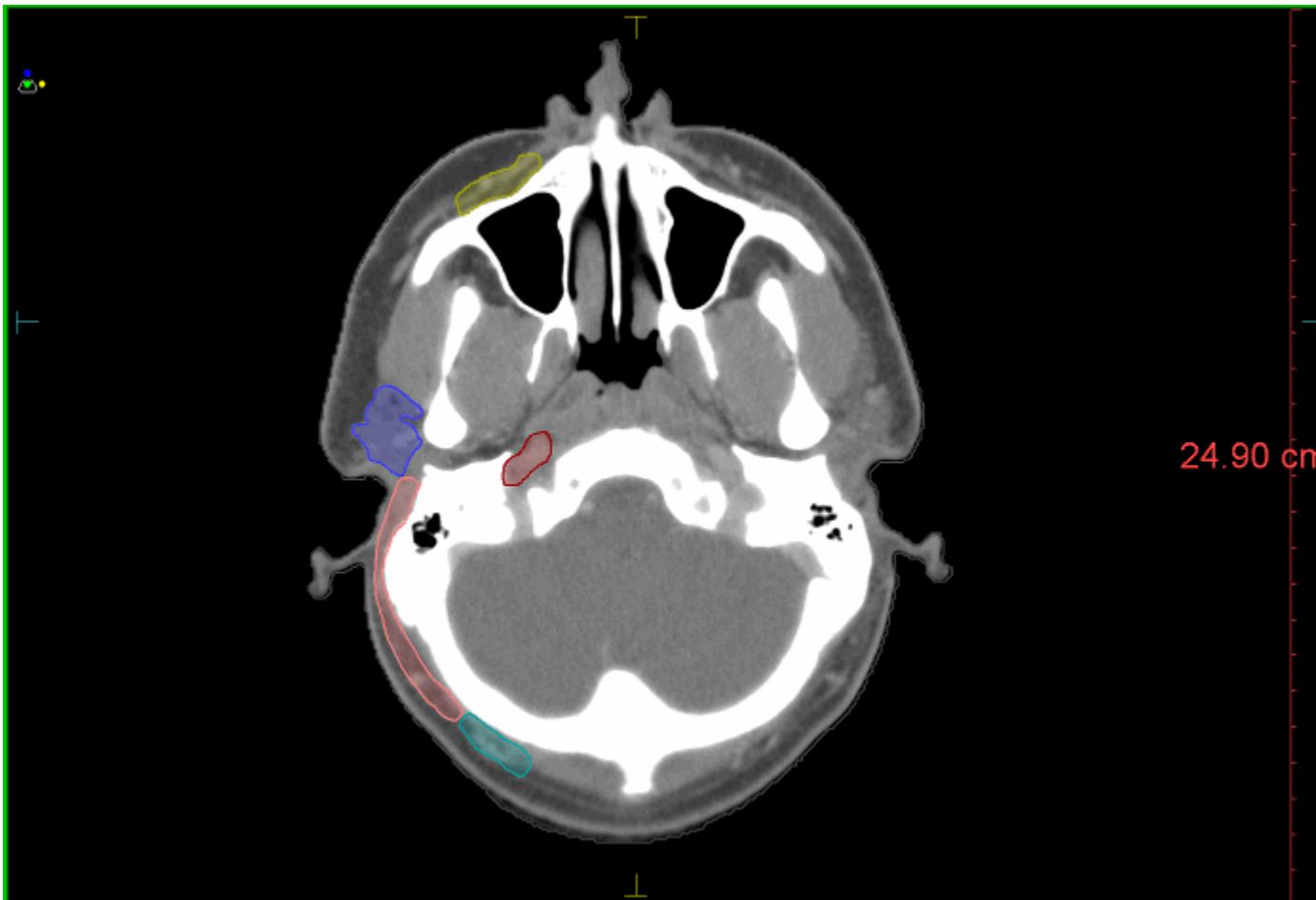
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
violet	Level VIb

Slice Location(cm): Transverse: 0.00



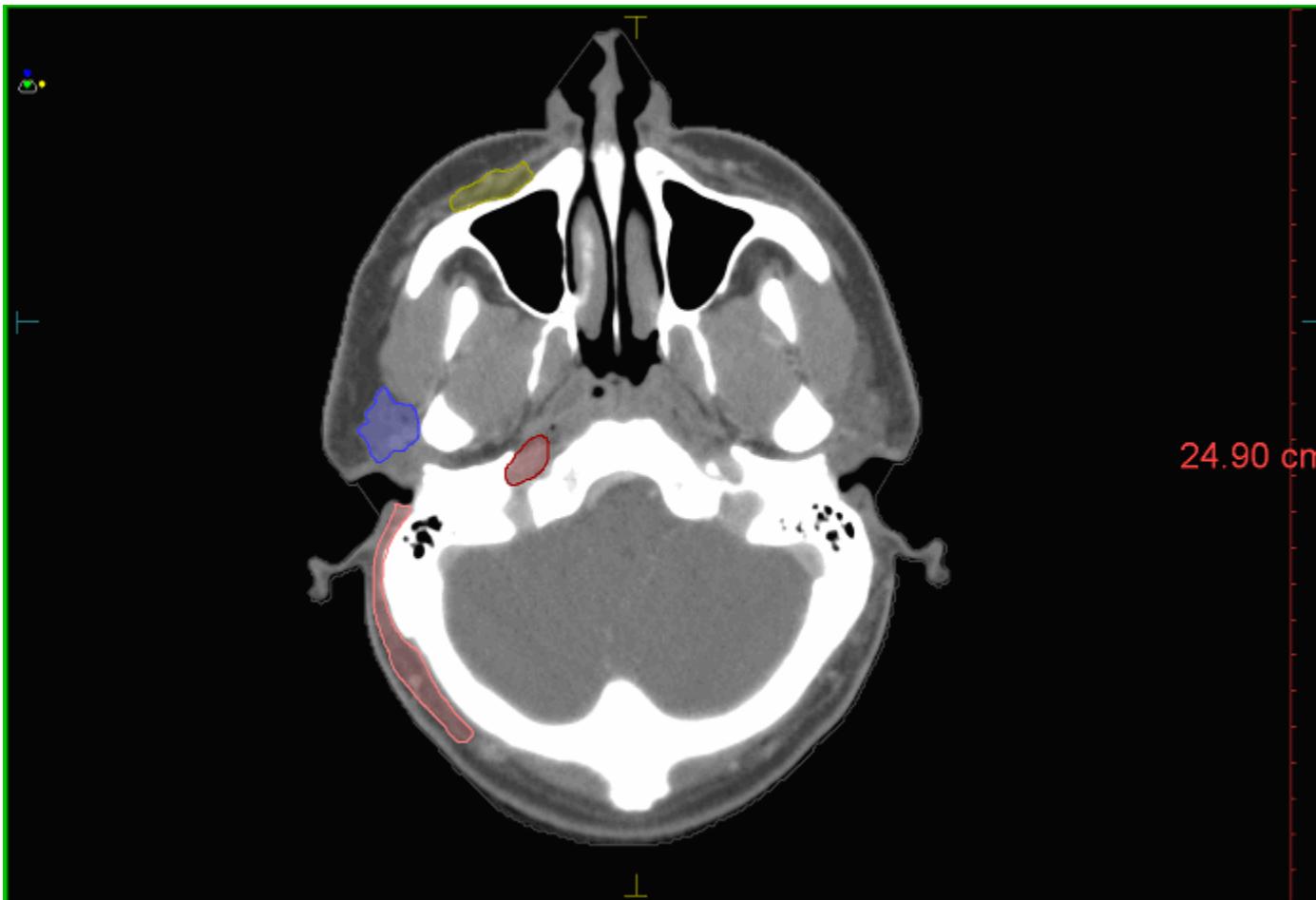
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
violet	Level VIb

Slice Location(cm): Transverse: 0.20



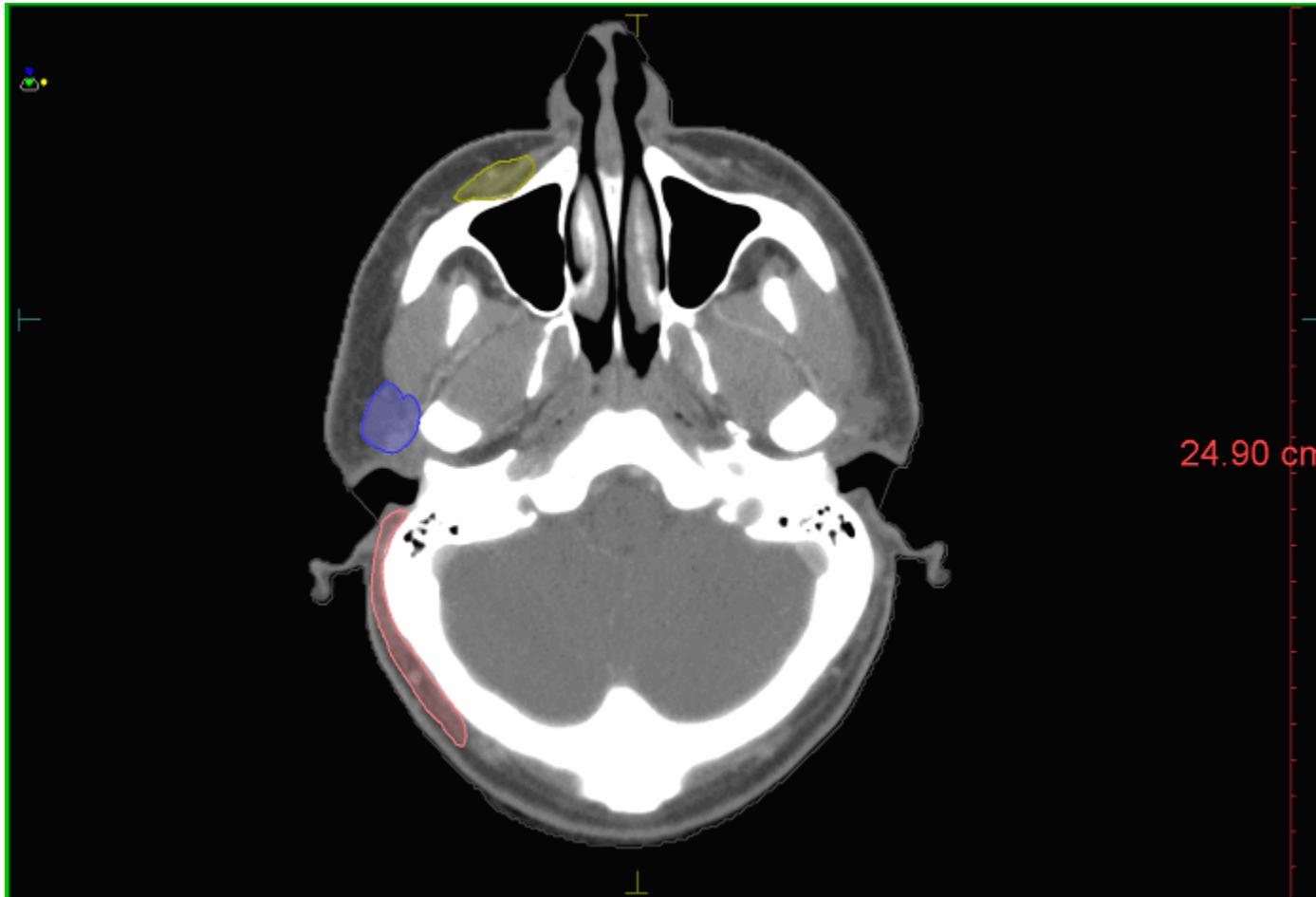
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
violet	Level VIb

Slice Location(cm): Transverse: 0.40



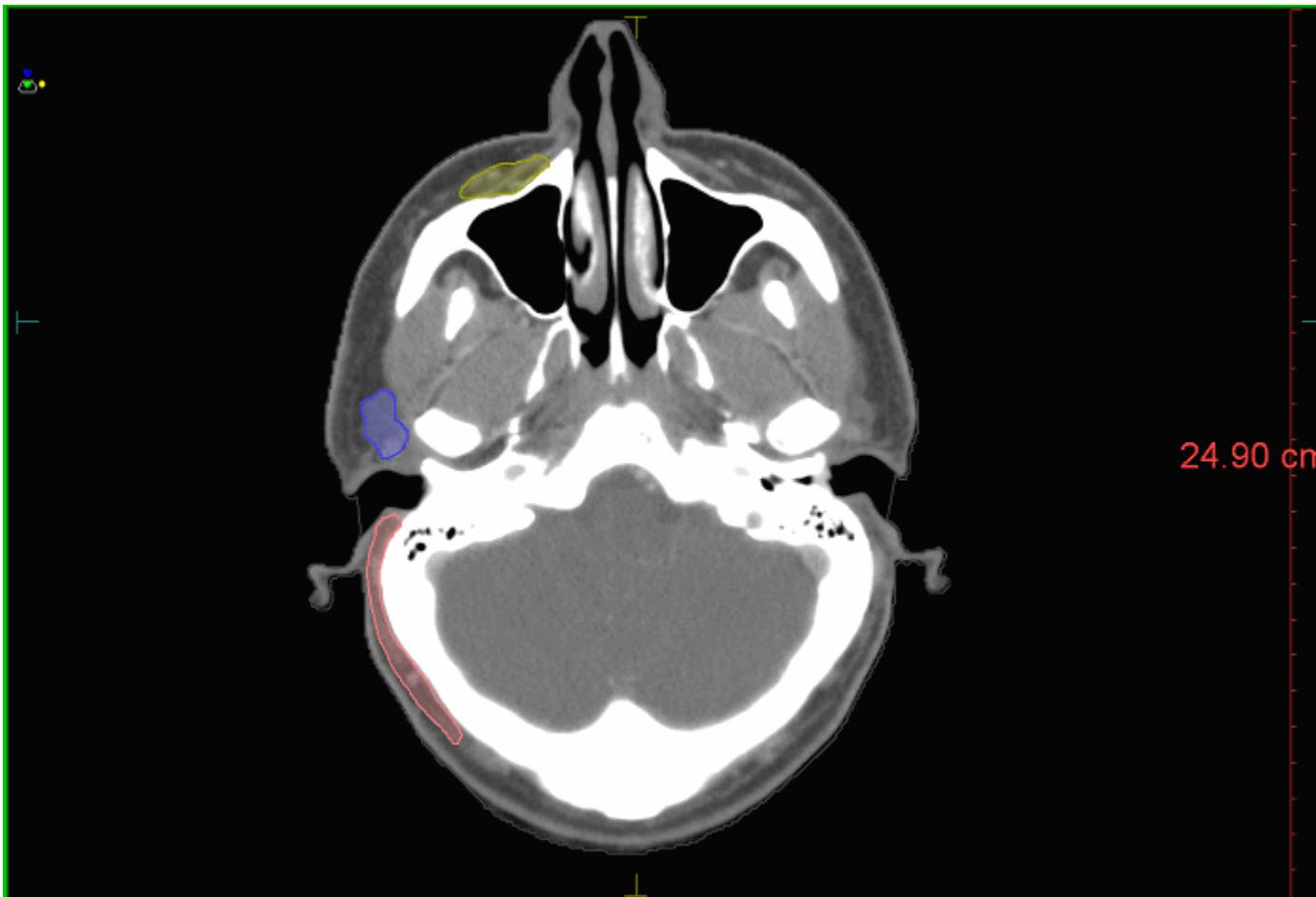
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
violet	Level VIb

Slice Location(cm): Transverse: 0.60



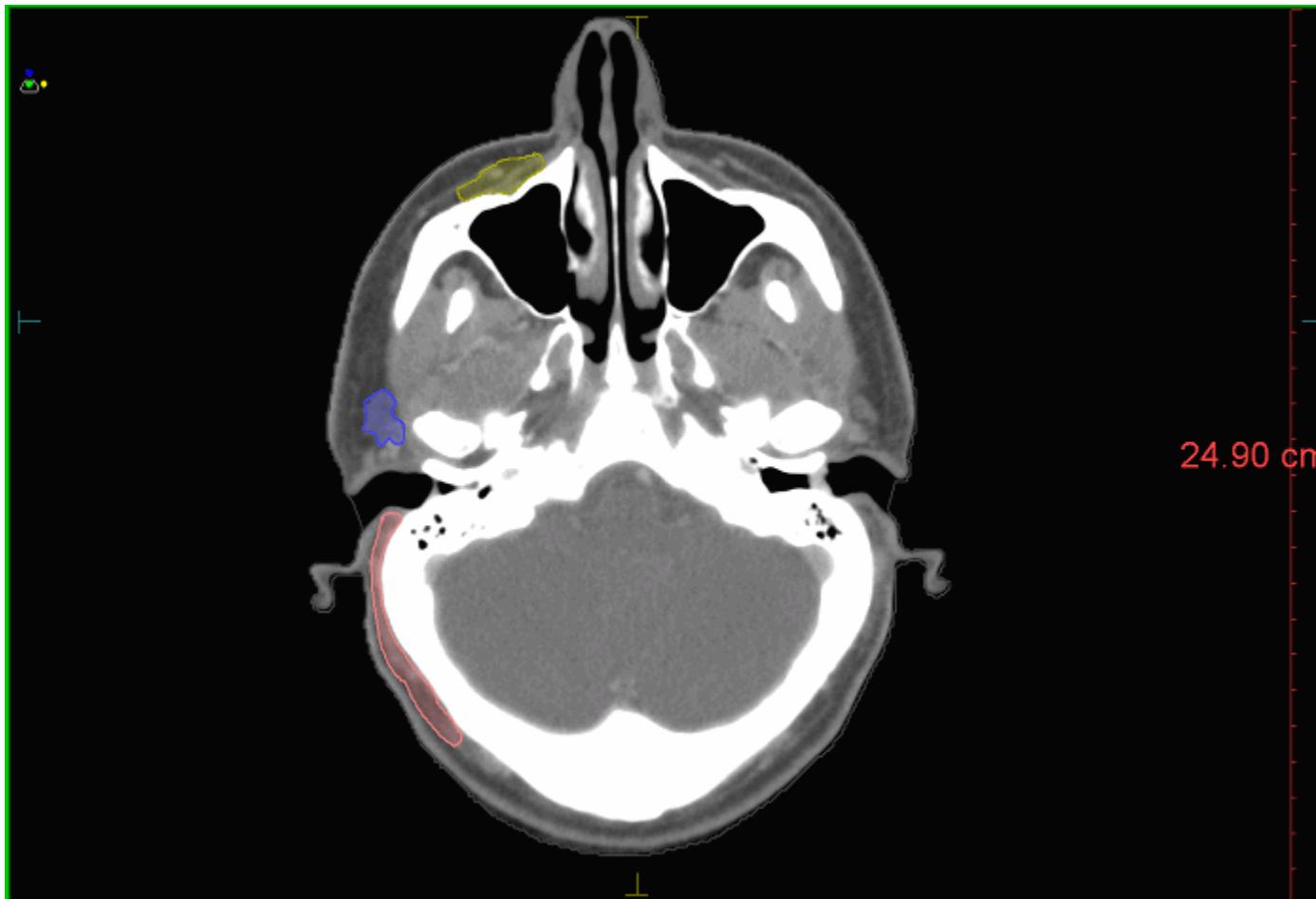
Color	Structure Name
Black	patient
Brown	Level Ia
Red	Level Ib
Green	Level II
Blue	Level VIII
Cyan	Level III
Magenta	Level IVa
Orange	Level V
Purple	Level VIa
Dark Red	Level VIIb
Light Green	Level VIIa
Dark Blue	Level IVb
Olive	Level IX
Cyan	Level Xb
Brown	Level Vc
Red	Level Xa
Purple	Level VIb

Slice Location(cm): Transverse: 0.80



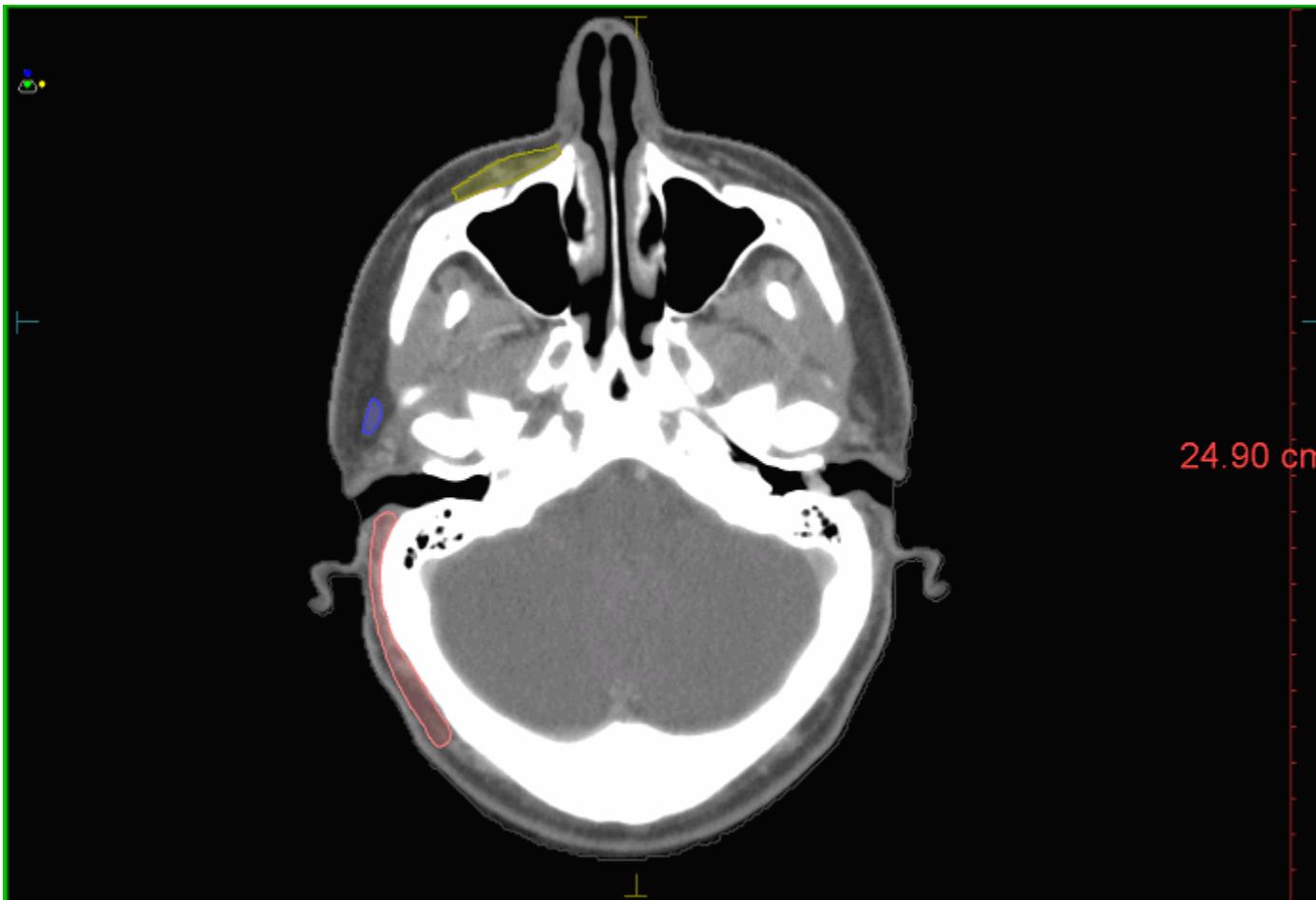
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: 1.00



Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
violet	Level VIb

Slice Location(cm): Transverse: 1.20



Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
yellow	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
violet	Level VIb

Slice Location(cm): Transverse: 1.40



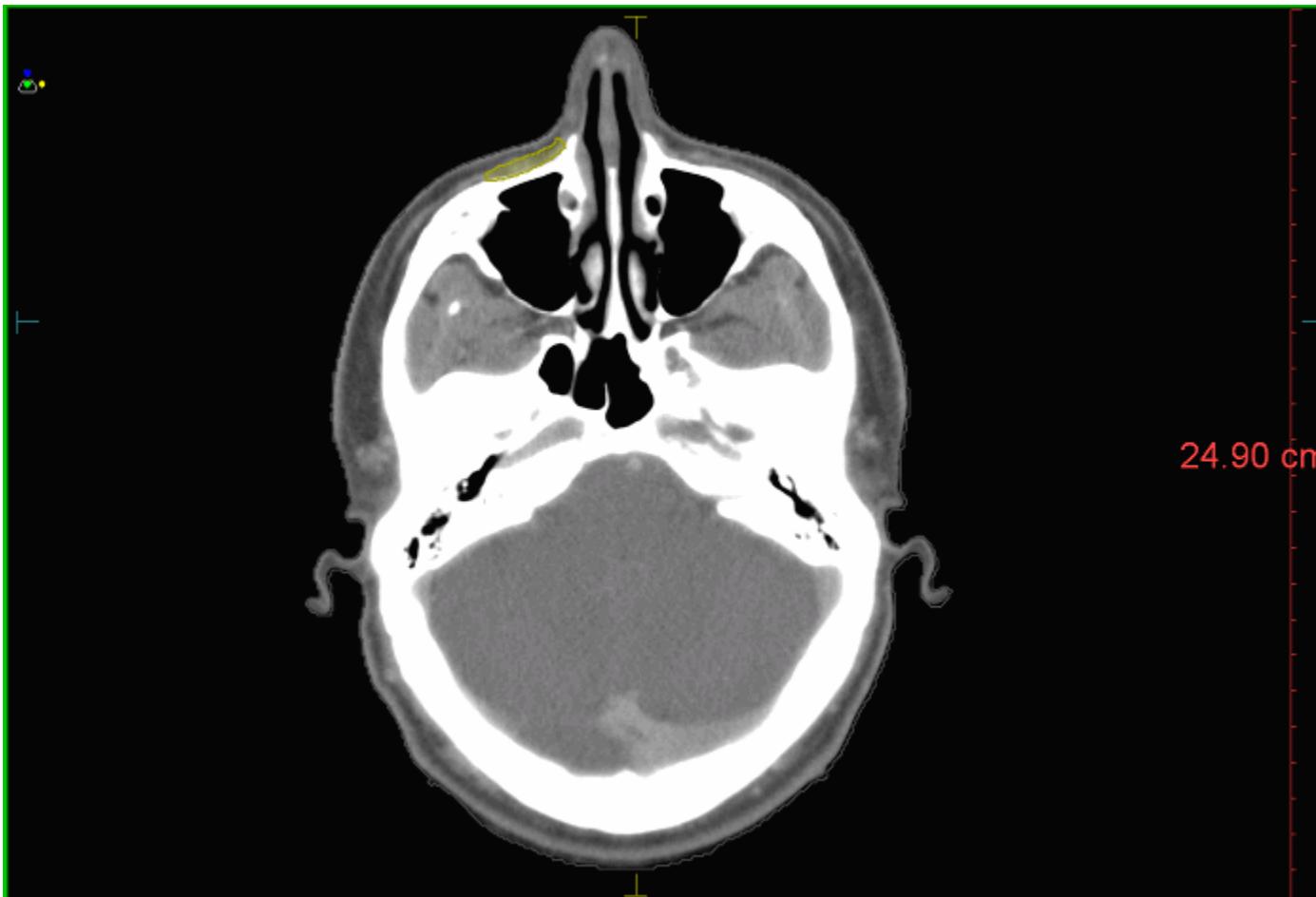
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: 1.60



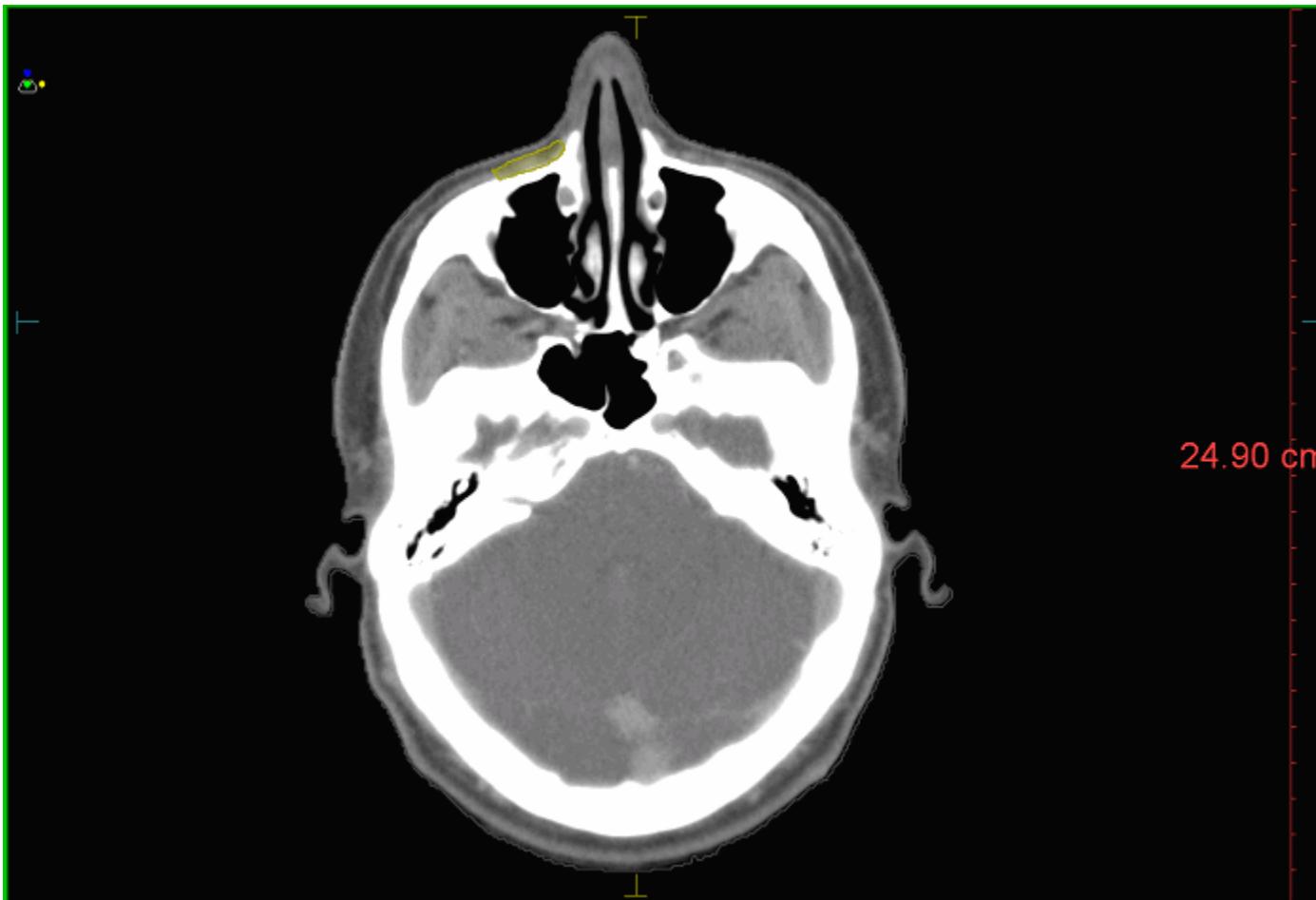
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: 1.80



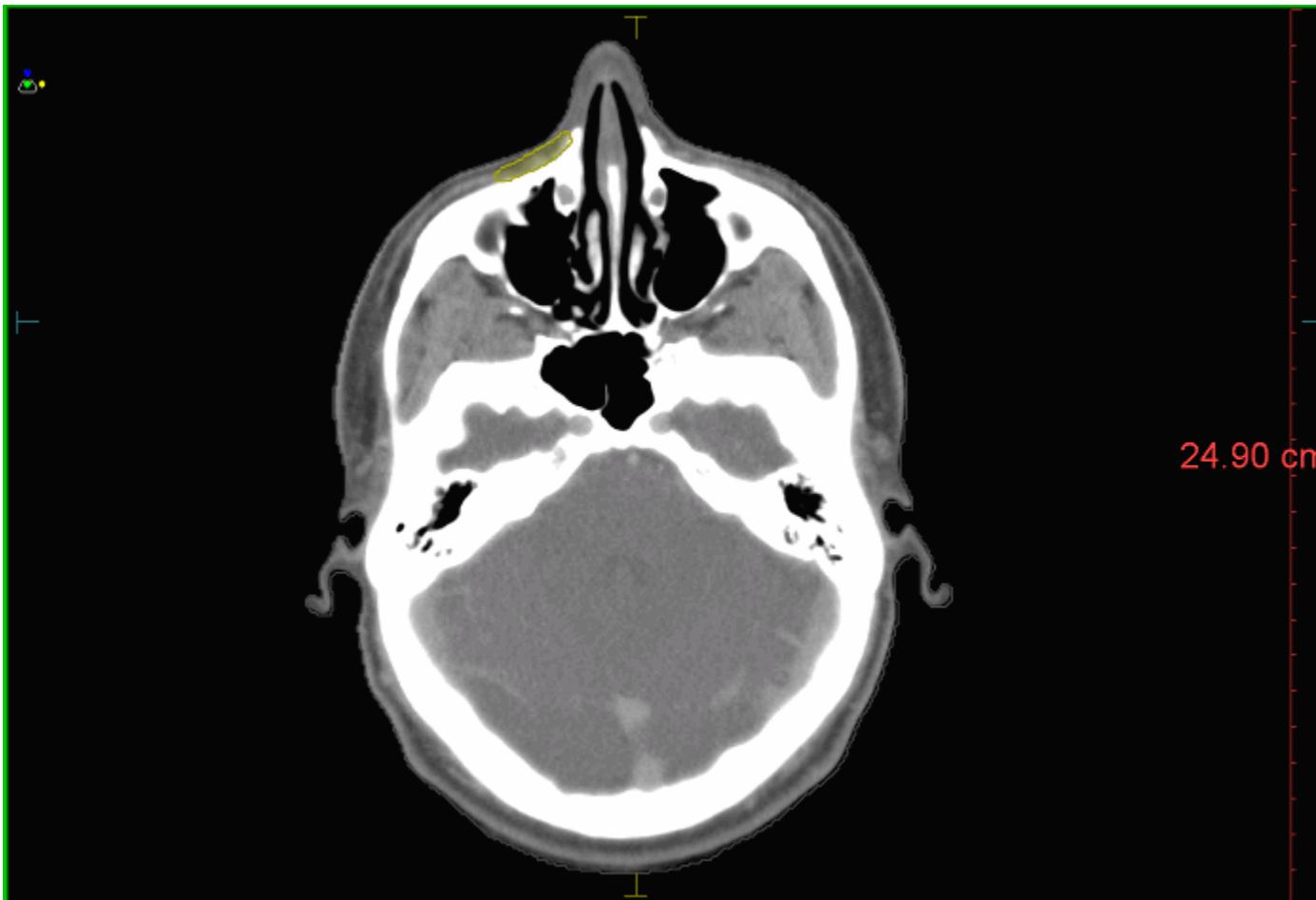
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: 2.00



Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
yellow-green	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: 2.20



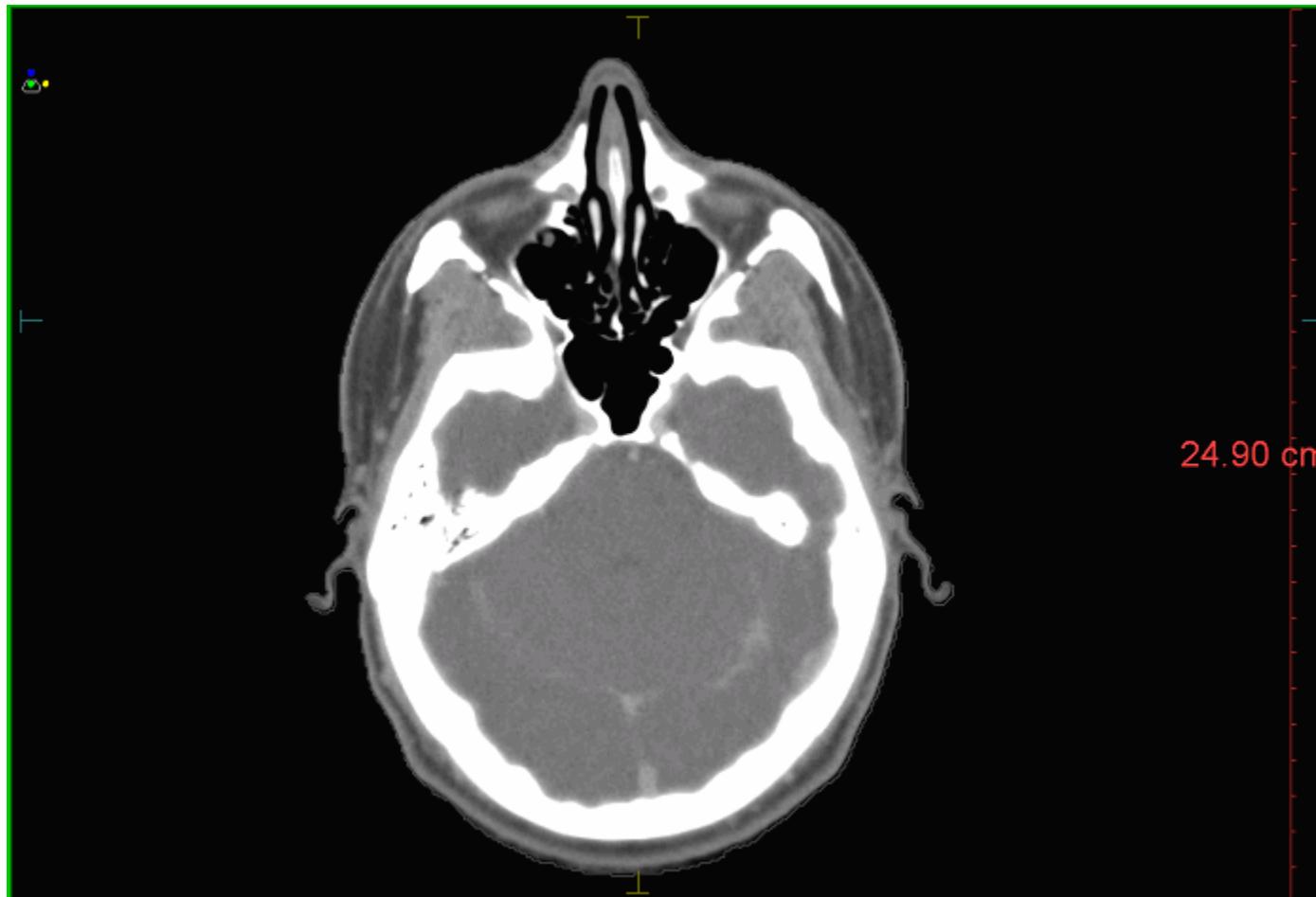
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: 2.40



Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: 2.60



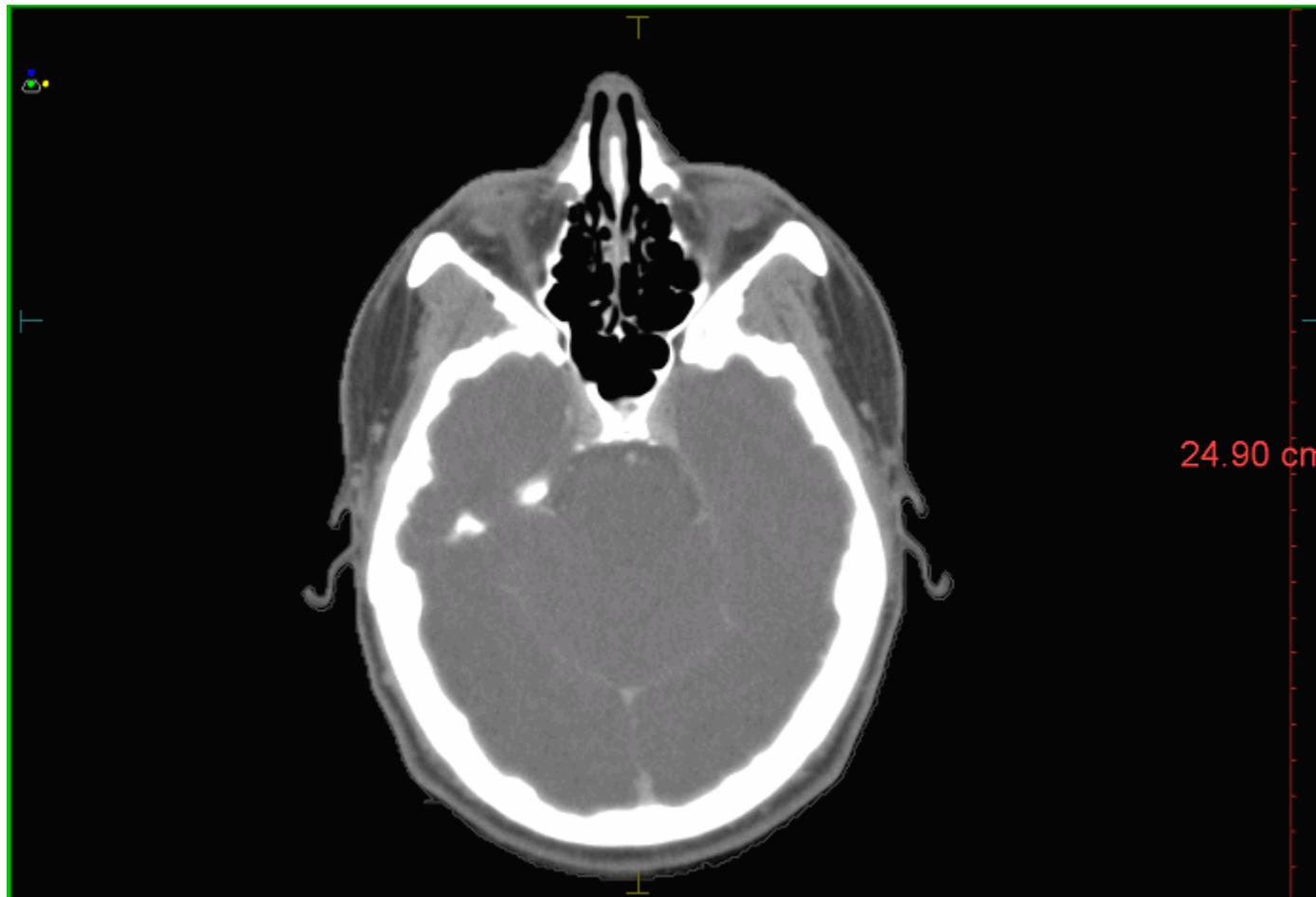
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: 2.80



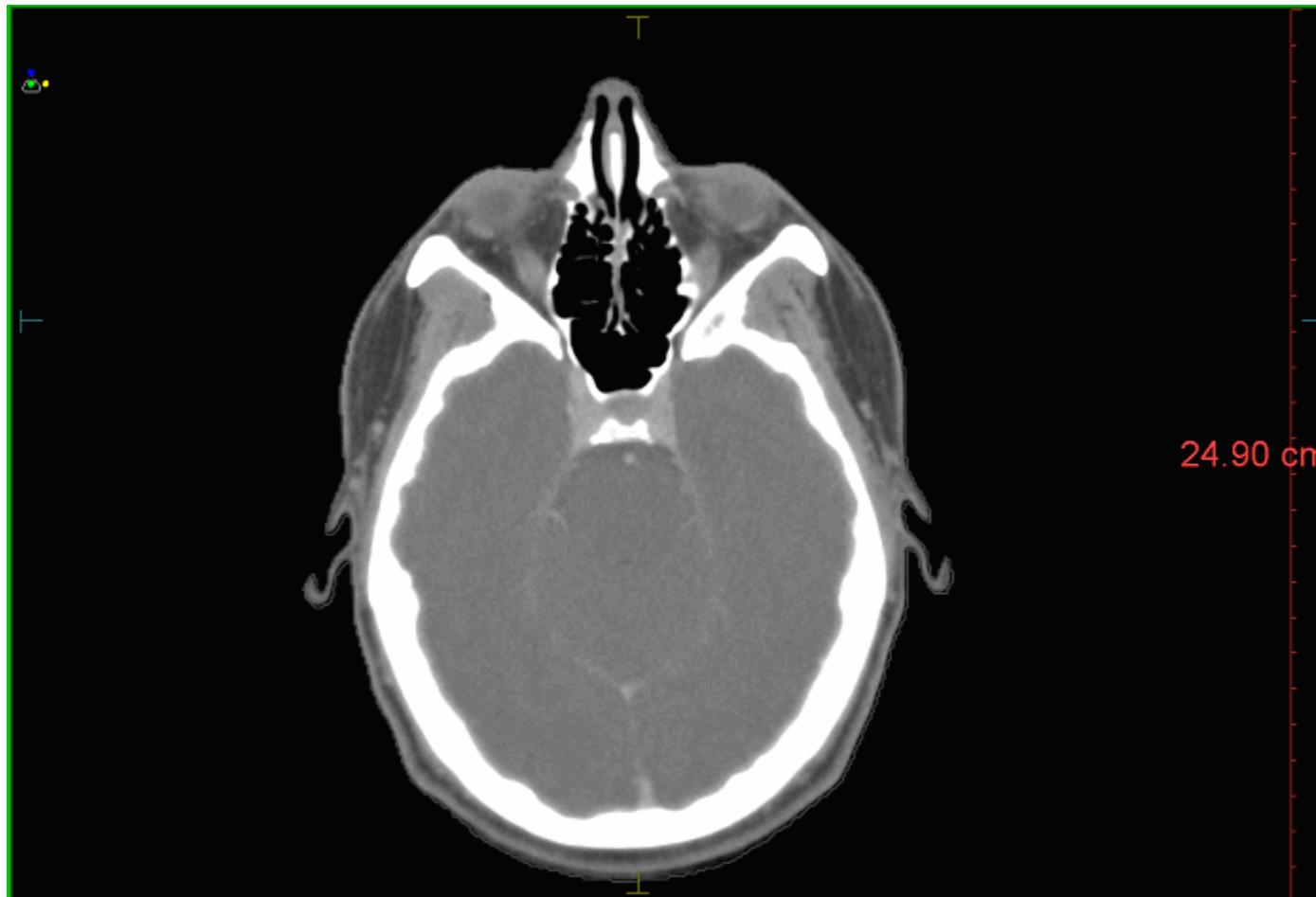
Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: 3.00



Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb

Slice Location(cm): Transverse: 3.20



Color	Structure Name
black	patient
brown	Level Ia
red	Level Ib
green	Level II
blue	Level VIII
cyan	Level III
magenta	Level IVa
orange	Level V
purple	Level VIa
dark red	Level VIIb
light green	Level VIIa
dark blue	Level IVb
olive	Level IX
teal	Level Xb
gold	Level Vc
pink	Level Xa
purple	Level VIb