

Neck ST

Siemens 16 Slice

Application Examples: tumor, swelling, hoarseness, vocal cord paralysis

Oral Contrast	No
IV Contrast / Volume	80 ml Omnipaque 300
Injection Rate	2.5 ml/sec

Technical Factors

Care Bolus ROI Location / HU	N/A
Monitoring Delay	N/A
Cycle Time	N/A
Scan Delay	60 seconds
Patient Instructions	Do Not Swallow

Neck

Scan Type	Spiral
Detector Collimator	Acq 16 x 1.2 mm
kV / mAs / Rotation Time (seconds)	130 kV / 161mAs / 1.0
Care Dose 4D	On
Pitch	0.9
Typical CTDIvol	18.02 mGy

Angled

Scan Type	Sequential
Detector Collimator	Acq 12 x 1.2 mm
kV / mAs / Rotation Time (seconds)	110 kv / 130 mAs/ 1.0 FULL
Care Dose 4D	On
Feed	14.4
Typical CTDIvol	20.41 mGy

Topogram: Lateral & AP, 512 mm

Neck	Width / Increment	Kernel	Window	FoV	Series Description	Networking
Recon 1	3 x 3	B30s	Larynx	200	AXIAL	PACS
Recon 2	1.5 x 0.7	B30s	Larynx	200	AXIAL 1.5 x 0.7 STND	MPR / TeraRecon

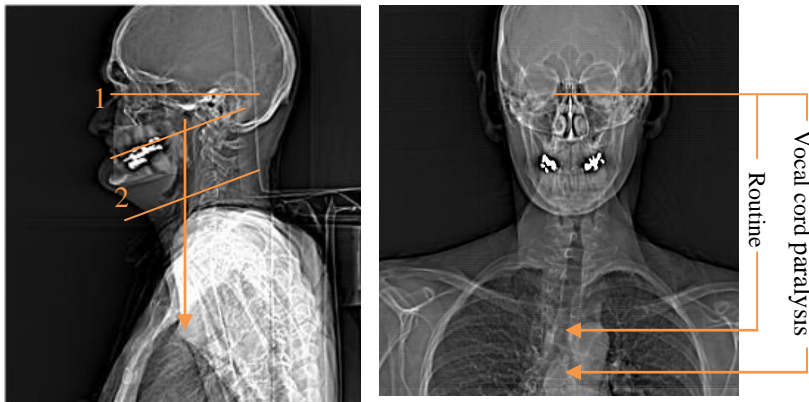
Angle	Width / Increment	Kernel	Window	FoV	Series Description	Networking
Recon 1	3.6 x 3.6	H30s	Larynx	200	AXIAL ANGLE	PACS

Patient Position: Patient lying supine with neck slightly extended and head secured. IOML should be perpendicular to table.

Scan Range: First series, for most indications scan from sellar floor to top of aortic arch. **For hoarseness, voice weakness or vocal cord paralysis, scan sellar floor to carina.** Second series is only taken if patient has dental hardware causing artifact. Scan range is hard palate to hyoid to include dental artifact from first scan.

Scan Instructions: Instruct patient not to swallow during scan—motion around the larynx can be mistaken for a tumor. Remove dentures, retainers, or piercings if applicable. If patient has orthodontics or dental fillings, angle gantry and scan hard palate to hyoid.

Lateral & AP Topogram (scan coverage)



Reformations: Create axial MPR parallel to vocal cords. Make coronal MPR perpendicular to vocal cords.

Series: Neck	Reformat Type	Width / Increment	Window	Series Description	Networking
Recon 2	Coronal MPR	3 x 3	Larynx	COR	PACS
Recon 2	Sagittal MPR	3 x 3	Larynx	SAG	PACS
Recon 2	Axial MPR	1.5 x 1.5	Larynx	AXIAL MPR	PACS