CTA Head and Neck 7/15/2025

	Siemens	**GE**
Pre-contrast Brain	3 x 3 mm recon Soft Tissue	2.5 x 2.5 mm recon Standard
Head and Neck CTA	1 x 1 mm recon Soft Tissue	1.25 x 1.25 mm recon Standard
Post-contrast Brain	3 x 3 mm recon Soft Tissue	2.5 x 2.5 mm recon Standard

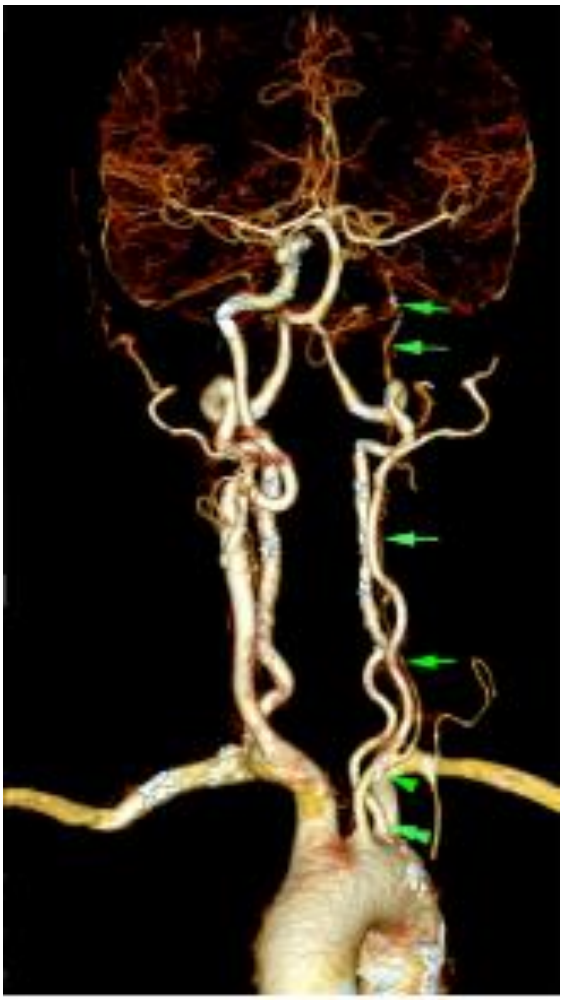
Head and Neck CTA post processing	
For optimal image quality it is necessary to create a sub mm axial data set that is used to create reformats	
0.6 x .0.6 mm CTA axial recon for Siemens scanners 0.625 x 0.625 mm CTA axial recon for GE scanners	
Oblique Axial thick MIP: from the base of the skull through the vertex of the head	16 mm thick x 1mm increment
Coronal thin MIP: from the anterior skin surface of the head and neck through the posterior skin surface of the head and neck	1mm thick x 1mm increment
Sagittal thin MIP from the left lateral skin surface of the head and neck through the right lateral skin surface of the head and neck	1mm thick x 1mm increment
Coronal thick MIP: from the anterior skin surface of the head and neck through the posterior skin surface of the head and neck	16 mm thick x 1mm increment
Sagittal thick MIP from the left lateral skin surface of the head and neck through the right lateral skin surface of the head and neck	16 mm thick x 1mm increment

PACS Series should be:

	Siemens	GE
1. Pre-contrast Brain	3 x 3 mm recon Soft Tissue	2.5 x 2.5 mm recon Standard
2. Head and Neck CTA	1 x 1 mm recon Soft Tissue	1.25 x 1.25 mm recon Standard
3. Thick MIP Oblique Axial	16 mm thick x 1mm increment	16 mm thick x 1mm increment
4. Thin MIP Coronal	1 x 1 mm recon Soft Tissue	1.25 x 1.25 mm recon Standard
5. Thin MIP Sagittal	1 x 1 mm recon Soft Tissue	1.25 x 1.25 mm recon Standard
6. Thick MIP Coronal	16 mm thick x 1mm increment	16 mm thick x 1mm increment
7. Thick MIP Sagittal	16 mm thick x 1mm increment	16 mm thick x 1mm increment
8. Post-Contrast Brain	3 x 3 mm recon Soft Tissue	2.5x 2.5 mm recon Soft Tissue
9. 3D VR Rotation Head/Neck		

**Protocol designed to minimize the amount of radiation while maximizing the yield and produce diagnostically acceptable image quality*

3D VRT Rotational Brain and Carotid from aortic arch with bone/soft tissue subtraction



**Protocol designed to minimize the amount of radiation while maximizing the yield and produce diagnostically acceptable image quality*