 University Health™	Policy #: Rad Proc 13.12.7
SUBJECT: Angio Head/Neck 3 Phase 1.12	Effective: 10/1/2013 Revised: 7/15/2016
APPROVED BY: Eduardo Gonzalez-Toledo, MD PhD	Page 1 of 3

Purpose: To provide computed tomography staff with the required protocol for performing angio head/neck 3 phase.

Scope: All adults patients 18 years and older.

Procedure:

Clinical Indication: Vascular abnormalities, suspected CVA

Patient Preparation: None

Orientation: Head first

Breathing: Normal breathing

Oral Contrast: None

IV Contrast: Per Weight: *If clinically indicated* 1ml/lb or 2ml/kg Visipaque 320 not to exceed 150ml injected @ 4ml/sec


Coverage: Base of skull through vertex; Aortic arch through vertex; Base of skull through vertex

Anatomic Reference: Orbitomeatal line

Scan Delay: Smart prep the descending aorta

Group 1: Non-contrast – Base of skull through vertex

Scan Mode	Thickness Speed Pitch	Table Interval	SFOV	kVp	mA Auto mA/ Noise Index	Prep Time (sec)	Recon Type
LS 16 1 sec Axial Full	5 2i	10	Head	120	280 2.8	None	Standard
VCT 64 1 sec Axial Full	5 4i	20	Head	120	280 2.8	None	Standard
AS 64 2.0 sec Helical	4.8 1	4.8	200	120	Ref mAs 200	None	Standard


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Group 2: Arterial Phase Head and Neck (1st phase) – Aortic arch through vertex

Scan Mode	Thickness Speed Pitch	Table Interval	SFOV	kVp	mA Auto mA/ Noise Index	Prep Time (sec)	Recon Type
LS 16 0.5 sec Helical	1.25 9.37 0.938:1	1.25	Large	120	80-440 11.5	Smart Prep	Standard
VCT 64 0.5 sec Helical Full	1.25 9.37 0.938:1	1.25	Large	120	80-600 11.5	Smart Prep	Standard
AS 64 0.5 sec	1 1	1	260	120	Ref MAS 350	Bolus Tracking	Standard

Group 3: Arterial Phase (2nd and 3rd phases) - Base of skull through vertex

Scan Mode	Thickness Speed Pitch	Table Interval	SFOV	kVp	mA Auto mA/ Noise Index	Prep Time (sec)	Recon Type
LS 16 0.5 sec Helical	1.25 9.37 0.938:1	1.25	Large	120	80-440 11.5	4 sec	Standard
VCT 64 0.5 sec Helical Full	1.25 9.37 0.938:1	1.25	Large	120	80-600 11.5	4 sec	Standard
AS 64 0.5 sec	1 1	5	380	120	Ref MAS 350	4 sec	Standard

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Algorithm: Recon 1 Standard

Retro Recon: Retro recon each series separately so that all images are not in the same group. Select new image number with each group.

Network: Recon 1 to PACS; Recon 1 to AWMR, AWCARD, AWSERV.

Reformat: Group 2: Arterial Phase Head and Neck (1st phase) – Aortic arch through vertex require Sagittal and Coronal reformats

Group 3: Arterial Phase (2nd and 3rd phases) - Base of skull through vertex require MIP reformats in sagittal and coronal

Notes: Auto mA and Care Dose must be on and mA table checked prior to scanning.
Scanning at 1.25 no need to process any thinner.

The protocol is loaded, however below is how to perform MIPs on Siemen's:

- Load exam into exam card
- Add recon job
- Click 3D box
- Description - SAGITTAL MIP OR CORONAL MIP
- Recon axis – SAGITTAL OR CORONAL
- Type – MIP Thin
- Slice – 6 mm
- Increment – 3 mm
- Window – CT Angio

How to perform MIPS on GE scanners

- Images works to Reformat
- Move thickness bar to 6mm
- Batch
- Spacing between images is 3
- Slice thickness is 6
- Mode is MIP
- FOV is same as on scan
- Label correct view i.e. sagittal MIP