Gundersen Health System

Angio Run Offs Blue Toe

Siemens go.All

Application Examples: blue toe syndrome

Oral Contrast	1 glass H2O
IV Contrast / Volume / Injection Rate (< 240lbs)	Omni 350 / 100 mL / 4 mL/sec
IV Contrast / Volume / Injection Rate (≥ 240lbs)	Omni 350 / 125 mL / 5 mL/sec

Technical Factors

Care Bolus ROI Location / HU	Aortic Arch / 150
Monitoring Delay	10 seconds
Cycle Time	1.5 seconds
Scan Delay	5 seconds
Breath Hold	Inspiration

Scan Type	Spiral
Detector Collimator	Acq 32 x 0.7mm
Care kV	On / 100 kV
Care Dose 4D	On / 80
Rotation Time (seconds)	0.5
Pitch	0.6
Typical CTDIvol	8.78 mGy ± 50%

Topogram: Lateral 1024 mm and AP 1970 mm

Angio RunOffs	Recon Type	Width/Increment	Algorithm	Safire	Window	Series Description	Networking	Post Processing
Recon 1	Axial	3 x 3	Bv40	2	Abdomen	AXIAL	PACS	None
Recon 2	3D:COR	3 x 3	Bv36	2	Angio	COR MIP	PACS	Coronal MIP
Recon 3	3D:SAG	3 x 3	Bv36	2	Angio	SAG MIP	PACS	Sagittal MIP
Recon 4	3D:OBL	3 x 3	Bv36	2	Angio	OBL MIP	PACS	Oblique MIP
Recon 5	3D:COR	2 x 2	Bv36	2	Angio	RUN OFFS COR MIP	PACS	Coronal MIP
Recon 6	3D:SAG	2 x 2	Bv36	2	Angio	RUN OFFS SAG MIP	PACS	Sagittal MIP
Recon 7	Axial	0.6 x 0.6	Bv36	2	Angio	AXIAL 0.6 STND	TR & PACS	None

Blue toe syndrome is the bluish discoloration to toes as a result of tissue ischemia (lack of blood flow). The syndrome is caused by the blockage of small vessels that lead into the toes.

IV Placement: ≥ 20 gauge, *preferably* in antecubital (AC) fossa.

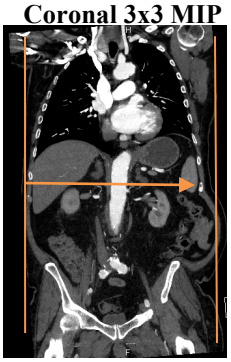
Patient Position: Patient lying supine with arms comfortably above head and lower legs together and straight (no cushions under knees).

Scan Instructions: Place pre-monitoring ROI in aortic arch, away from any calcium deposits. Adjust pitch so that the scan time is about 30 seconds.

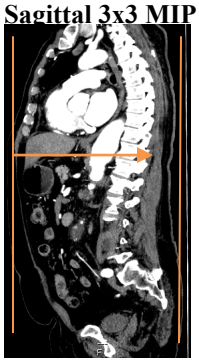
Scan Range: Include aortic arch through toes. If chest or abdominal stent is present, do 3 minute delay through entire stent. No delays are necessary for stents in legs.

Recons and Reformations: Adjust FoV to fit body contour. Make coronal, sagittal and oblique MIPs of arch through femoral bifurcations and coronal and sagittal MIPs of legs.

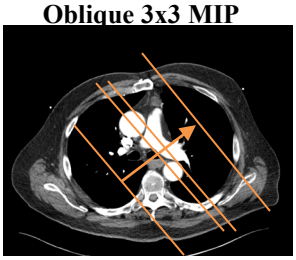
Coronal 3x3 MIP



Sagittal 3x3 MIP



Oblique 3x3 MIP



RunOffs Coronal 2x2 MIP & Sagittal 2x2 MIP

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3D: Upon request.