RIH – ABDOMEN/PELVIS CT VENOGRAM
SIEMENS DEFINITION AS+ PROTOCOL

Indications: Abdominal/iliac venous thrombus

Position/Landmark	Head first or feet first-Supine Sternal Notch
Topogram Direction	Craniocaudal / Craniocaudal
Respiratory Phase	Inspiration
Scan Type	Helical
Ref kV/Ref mAs/Rotation time (sec) **Pitch / Speed (mm/rotation)** **Safire Strength / Dose Optimization**	Care kV 120 / Care Dose4D 180 / 0.5 sec 1.2:1 , 32.00mm 3 / 9
Detector width x Rows = Beam Collimation	0.625mm x 64 = 40mm (128 x .6mm)
Average Tube Output	First Helical: ctdi – 11.3mGy dlp – 313 mGy.cm Second Helical: ctdi – 11.3mGy dlp – 616 mGy.cm
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon / body part / thickness/ spacing / algorithm / recon destination . 1 **non con pelvis** 5mm x 5mm I40f medium pacs
Helical Set Slice Thickness/ Spacing Algorithm Recon Destination	recon / body part / thickness/ spacing / algorithm / recon destination . 1 **axial venogram** 5mm x 5mm I26f medium smooth pacs 2 **coronal ct venogram** 5mm x 5mm I26f medium smooth pacs 3 thin ct venogram .75mm x .7mm I26f medium smooth terarecon
Scan Start / End Locations **DFOV**	1 cm superior to diaphragm lesser trochanters 38cm decrease appropriately
IV Contrast Volume / Type / Rate	100mL Iohexol (Omnipaque 350) 4mL/sec
Scan Delay	Smart prep at distal inferior vena cava, inferior to the renal veins
2D/3D Technique Used	Workstream 4D mpr 5mm x 5mm **coronal abdomen/pelvis** series (auto-batch on), mip mode, auto-transferred to PACS.
Comments: There is a non-contrast series to identify the distal ivc. The bolus tracking has 60 second scan delay. The monitor phase will scan 1 image every 10 seconds at the distal inferior vena cava. When the enhancement graph peaks/levels off, the helical scan should be started. The iv contrast bolus is injected at 4mL/second because a tight contrast bolus will result in higher ivc enhancement.	
Images required in PACS	Topograms, 5mm x 5mm axial non-contrast pelvis, 5mm x 5mm axial abdomen/pelvis venogram, 5mm x 5mm coronal abdomen/pelvis venogram mip, Patient Protocol

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