

# RIH – CT ANGIOGRAM ABDOMEN/PELVIS GI BLEED SIEMENS DEFINITION AS+ PROTOCOL

**Indications: Evaluation for acute lower GI bleed**

<b>Position/Landmark</b>	Head first or feet first-Supine Sternal Notch			
<b>Topogram Direction</b>	Craniocaudal / Craniocaudal			
<b>Respiratory Phase</b>	Inspiration			
<b>Scan Type</b>	Helical			
<b>Ref kV/Ref mAs/Rotation time (sec)</b> <b>Pitch / Speed (mm/rotation)</b> <b>Safire Strength / Dose Optimization</b>	Care kV 120 / Care Dose4D 180 / 0.5 sec 1.2:1 , 32.00mm 3 / 8			
<b>Detector width x Rows = Beam Collimation</b>	0.625mm x 64 = 40mm (128 x .6mm)			
<b>Average Tube Output</b>	ctdi – 10.0mGy dlp – 500mGy.cm			
<b>First Helical Set</b> Slice Thickness/ Spacing Algorithm <b>Recon Destination</b>	body recon part	thickness/ spacing	algorithm	recon destination .
	1 <b>nc abdomen/pelvis</b>	5mm x 5mm	I40f medium	pac
	2 <b>coronal nc abd/pelvis</b>	5mm x 5mm	I40f medium	pac
	3 thin abd/pelvis	.75mm x .6mm	I40f medium	terarecon
<b>Second Helical Set</b> Slice Thickness/ Spacing Algorithm Recon Destination	body recon part	thickness/ spacing	algorithm	recon destination .
	1 <b>axial ct angio</b>	3mm x 3mm	I26f medium smooth	pac
	2 <b>coronal ct angio</b>	3mm x 3mm	I26f medium smooth	pac
	3 thin ct angio	.75mm x .6mm	I26f medium smooth	terarecon
<b>Third Helical Set</b> Slice Thickness/ Spacing Algorithm Recon Destination	body recon part	thickness/ spacing	algorithm	recon destination .
	1 <b>axial ct delayed</b>	3mm x 3mm	I26f medium smooth	pac
	2 <b>coronal ct delayed</b>	3mm x 3mm	I26f medium smooth	pac
	3 thin ct delayed	.75mm x .6mm	I26f medium smooth	terarecon
<b>Scan Start / End Locations</b>  <b>DFOV</b>	1 cm superior to diaphragm lesser trochanters 38cm decrease appropriately			
<b>IV Contrast Volume / Type / Rate</b>	100mL Iohexol (Omnipaque 350) 4mL/sec			
<b>Scan Delay</b>	Bolus tracking at level of celiac artery			
<b>2D/3D Technique Used</b>	CTA: 3mm x 3mm <b>coronal abdomen/pelvis</b> series (auto-batch on), <b>mip mode</b> . 10mm x 1mm <b>inverted coronal abdomen/pelvis mip</b> series (auto-batch on) Delay: 3mm x 3mm <b>coronal abdomen/pelvis</b> series (auto-batch on), <b>mip mode</b> , auto-transferred to PACS			
<b>Comments:</b>	Comments: A non-contrast study is done first. Then the cta is done using a smart prep at the level of the celiac artery. Note: There is a second helical scan done 60 seconds after the cta to look for blood pooling.			
<b>Images required in PACS</b>	Topograms, 5mm x 5mm axial nc abdomen/pelvis, 3mm x 3mm axial ct angio abdomen pelvis, 3mm x 3mm coronal ct angio abdomen pelvis, 10mm x 1mm inverted coronal abdomen/pelvis mip, 3mm x 3mm axial delayed abdomen/pelvis, 3mm x 3mm coronal mip delayed abdomen/pelvis, Patient Protocol			