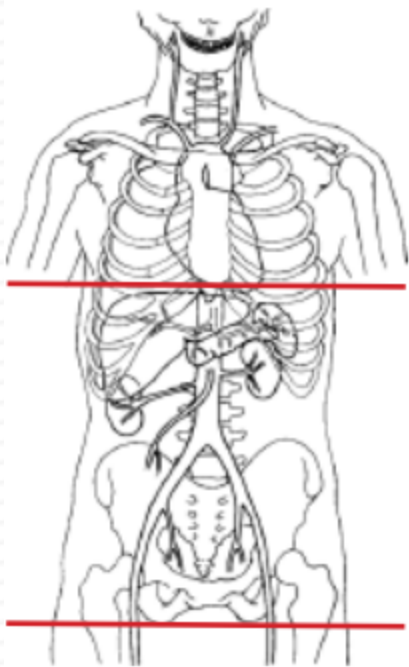


CTV Abdomen/Pelvis with Contrast - VENOGRAM



Indications	hemodialysis access planning, renal cell carcinoma, vascular variants, venous thrombosis.
Patient Position	Supine
Contrast	IV = 125 mL
Injection rate	4.0 mL/sec minimum 18 g
Contrast timing	Smart prep at distal inferior vena cava (inferior to renal veins) or Venous phase 150 sec delay
Respiration	Breath- hold
Scan Parameters	dome of diaphragm through ischial tuberosity
	<u>Must be ordered / billed as CTA but have notes to indicate reason for CTV.</u>
	Required to have 3D renderings of venous system.

PLANE	ALGORITHM	THICKNESS	DFOV	RECONS
Axial + C	Abdomen	5.0 mm	pt largest + 4 cm	150 sec delay
Coronal & Sagittal + C	Abdomen	3.0 mm		MPR
Coronal & Sagittal + C	Abdomen	8 x 5 mm		MIPS
3D recons of venous system				3D renderings

NOTES:

- Use at least 18g needle
- Follow GFR and Metformin protocols for contrast studies
- LMP on pts of child-bearing age
- Shield children when possible