

| Protocol Name: MESENTERIC CTA ADULT | |
|-------------------------------------|---|
| INDICATIONS: | Evaluation of mesenteric arteries (SMA) which feed the bowel. |
| IV CONTRAST: | 100 cc nonionic contrast (370 mg/ml). 4cc/sec, 20ga or better IV in a large vein. |
| ORAL CONTRAST: | No barium for abdominal CTAs. Water is an option if oral contrast is needed. |
| PATIENT POSITIONING AND SCAN AREA: | Patient supine. Feet first. Landmark at mid sternum. Cuts are taken from a few cuts into the lungs through the bifurcation or pubis if pelvis is also ordered. Same DFOV as previous abdomen CTs. |
| GENERAL EXAM GUIDELINES: | 2.5 x 2.5 mm axial images. 400 DFOV. |
| TRIGGER OR CONTRAST DELAY: | Smart prep or can use timing bolus in aorta by the SMA (7-10 seconds after optimal aorta filling is good timing for SMA). |
| TECHNIQUE GUIDELINES: | 120 kvp. Auto ma on. |
| LABEL: | SCOUT*, ABDOMEN*. The * means anything after these beginnings will hang correct in pacs |
| RECON 1: | .625mm thick/.625 mm interval. Std recon at 700ww/60wl. |
| RECON 2: | 2.5mm thick /2.5 mm interval. Std recon 700ww/60wl. |
| ADDITIONAL POST PROCESSING: | Send 0.625mm to awkstn1 for 3Ds. Save a 40 image rotation of the 3D aorta and abdominal arteries to pacs. |
| SEND EXAM: | Send scout, 2.5mm axials, and sag and cor images to pacs. |
| ARCHIVE: | |
| BILL AS: | ABDOMEN CTA OR ABDOMEN AND PELVIS CTA |

SCOUT PROTOCOL SET IN SCANNER

| Scan Type | Start Loc | End Loc | kV | mA | Scout Plane | Voice Lights Timer |
|-----------|------------------------|----------------------|-----|----|-------------|--------------------|
| Scout | S0.00 Diaphragm | I650.00 Pubis | 120 | 10 | 90 and 0 | 2T |

AXIAL IMAGE PROTOCOL SET IN SCANNER

| Scan Type | Start Loc | End Loc | Thick Speed | Interval (mm) | Gantry Tilt | SFOV | kv | ma | DFOV | Show Recon1 | Show Recon2 | Show Recon3 | Direct Vis |
|-------------------------------|-------------------------|-----------------------|---------------------------|---------------|-------------|------------|-----|---|------|--|--|-------------|--------------------------------|
| Helical Full 0.6 sec rotation | S0.0 Above Diaphragm | I400.0 Below Pubis | 0.625 55.00 1.375:1 | 0.625 | S0.0 | Large Body | 120 | 450 22.10~ Auto ma on DR 50% | 40.0 | 0.625mm Std 400ww 50wl For recons SS50 | 2.5mm Std 400ww 50wl Send to Pacs SS50 | | On 5mm Cor and Sag MIPs |