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|-----------------------------------------------------------------------------------------------------------|--------------------------------------------|
|  <b>University Health™</b> | Policy #: Rad Proc 13.14.19                |
| <b>SUBJECT: CT Abdomen Pelvis Angio With Bilateral LE Runoff 6.19</b>                                     | Effective: 10/2013<br>Reviewed: 03/07/2017 |
| <b>APPROVED BY: Body Imaging Medical Director</b>                                                         | Page 1 of 2                                |

**Purpose:** To provide computed tomography staff with the required protocol for performing CT Angio Abdomen Pelvis with Bilateral LE Runoff

**Scope:** All adult patients 18 years and older.

**Clinical Indication:** Abdominal aneurysm, Vascular Abnormalities

**Patient Preparation:** Clear liquid diet (6 hours prior to exam)

**Orientation:** Feet first

**Breathing:** Inspiration

**Oral Contrast:** None

**IV Contrast per Weight:** 1ml/lb or 2ml/kg not to exceed 150ml injected @ 4ml/sec

**Coverage:** Dome of diaphragm through the tips of toes

**Anatomic Reference:** Xiphoid process;

**Scan Delay:** Smart prep or care bolus

**Group 1: Non-contrast – Dome of diaphragm to iliac crest**

| Scan Mode                           | Thickness<br>Speed<br>Pitch | Table<br>Interval | SFOV  | kVp | Auto mA/<br>Noise<br>Index | Prep<br>Time<br>(sec) | Recon<br>Type |
|-------------------------------------|-----------------------------|-------------------|-------|-----|----------------------------|-----------------------|---------------|
| LS 16<br>0.8 sec<br>Helical<br>Full | 5<br>27.50<br>1.375:1       | 5                 | Large | 120 | 80-440<br>11.5             | N                     | Standard      |
| VCT<br>0.8 sec<br>Helical<br>Full   | 5<br>55.00<br>1.375:1       | 5                 | Large | 120 | 80-600<br>11.5             | N                     | Standard      |
| AS 64<br>0.5 sec<br>Helical         | 5<br>1                      | 5                 | 360   | 120 | Ref MAS<br>250             | N                     | Standard      |

|                                                                                                           |                                                    |
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**Group 2: Arterial phase- SmartPrep aorta at celiac level (above kidneys)**

**Smart prep (GE) or care bolus (Siemens) liver: Monitoring delay 5 sec ISD 3 Threshold 100**

| Scan Mode                            | Thickness<br>Speed<br>Pitch | Table Interval | SFOV  | kVp | mA<br>Auto mA/<br>Noise Index | Prep Time (sec)  | Recon Type |
|--------------------------------------|-----------------------------|----------------|-------|-----|-------------------------------|------------------|------------|
| LS 16<br>0.8 sec<br>Helical          | 2.5<br>27.50<br>1.375:1     | 2.5            | Large | 120 | 80-440<br>11.5                | Smart Prep Aorta | Standard   |
| VCT 64<br>0.8 sec<br>Helical<br>Full | 2.5<br>55.00<br>1.375:1     | 2.5            | Large | 120 | 80-600<br>11.5                | Smart Prep Aorta | Standard   |
| AS 64<br>0.5 sec                     | 3<br>1                      | 3              | 380   | 120 | Ref MAS<br>250                | Care Bolus Aorta | Standard   |

**Algorithm: Recon 1 & 2 Standard**

**Reformation: 2.0 Sagittal and Coronal reformations: abdomen and pelvis: Sagittal and Coronal**  
**Exams including the lower extremity, the thigh and the leg should be reprocessed in two separated blocks.**  
**1st block (pelvis to knee); Sagittal and Coronal**  
**2nd block (knee to foot): Sagittal and Coronal**

**Network: Recon 1 (5mm) to PACS. Recon 2 (1.25) auto transmit to AWSERV**

**Notes: Auto mA must be on and mA table checked prior to scanning. \*\* Include non-contrast images when requested by Radiologist\*\*. If there is an aneurysm put Smart Prep cursor in aneurysm at largest part.**