Patient Position | Supine, Feet First into Gantry  
| Heart Isocenter  
Scanogram | AP and Lateral  
Injection Rate | 5 ml / sec preferred  
IV Size and Location | 18g, 20g min  
RT AC preferred  
Contrast | Omnipaque 350  
Saline | Amount equal to contrast amount  
Respiration | Breath Hold  
RT AC preferred  
Contrast Scan | Volume Scan  
ECG Gated Retrospective Scan Mode  
BT | Descending aorta  
HU | 200  
Acquisition Specs | 0.5 mm Thickness  
0.275 sec rotation / 0.35 sec rotation  
Place and size scan over chest to include carina through bottom of heart.  
Scan max length- 16 cm  
Scan FOV | 220 mm  
Algorithm | Cardiac CTA  
R1 | Thickness 0.5 mm  
Spacing 0.25 mm  
FOV 220 mm  
Phase 75%  
Transfer PACS and ENTERPRISE  
Algorithm | Cardiac CTA  
R2 | Thickness 1.0 mm  
Spacing 1.0 mm  
FOV 220 mm  
Phase CFA 0% - 90%  
Every 10%  
Transfer PACS and ENTERPRISE
For LVAD Protocol, see page 3

<table>
<thead>
<tr>
<th>Patient Position</th>
<th>Supine, Feet First into Gantry Heart Isocenter</th>
</tr>
</thead>
<tbody>
<tr>
<td>Scanogram</td>
<td>AP and Lateral</td>
</tr>
<tr>
<td>Injection Rate</td>
<td>5 ml / sec preferred</td>
</tr>
<tr>
<td>IV Size and Location</td>
<td>18g, 20g min RT AC preferred</td>
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<tr>
<td>Contrast</td>
<td>Omnipaque 350</td>
</tr>
<tr>
<td>Saline</td>
<td>Amount equal to contrast amount</td>
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<tr>
<td>Respiration</td>
<td>Breath Hold</td>
</tr>
<tr>
<td>HU</td>
<td>200</td>
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</tbody>
</table>

### Patient Position

- **Scanogram**: AP and Lateral
- **Injection Rate**: 5 ml/sec preferred
- **IV Size and Location**: 18g, 20g min, RT AC preferred
- **Contrast**: Omnipaque 350
- **Saline**: Amount equal to contrast amount
- **Respiration**: Breath Hold
- **HU**: 200

### Acquisition Specs

- **0.5 mm Thickness**
- **0.3 mm Spacing**

### Start

- **Carina**

### End

- **Bottom of Heart**

### Scan FOV

- **220 mm**

### Algorithm

- **Cardiac CTA**

<table>
<thead>
<tr>
<th>Thickness</th>
<th>0.5 mm</th>
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</thead>
<tbody>
<tr>
<td>Spacing</td>
<td>0.3 mm</td>
</tr>
<tr>
<td>FOV</td>
<td>220 mm</td>
</tr>
<tr>
<td>Phase</td>
<td>75%</td>
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<tr>
<td>Transfer</td>
<td>PACS and ENTERPRISE</td>
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### Functional Analysis

- **Built in retrospective protocol**

<table>
<thead>
<tr>
<th>Thickness</th>
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<tbody>
<tr>
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<tr>
<td>FOV</td>
<td>220 mm</td>
</tr>
<tr>
<td>Phase</td>
<td>CFA 0% - 90% Every 10%</td>
</tr>
<tr>
<td>Transfer</td>
<td>PACS and ENTERPRISE</td>
</tr>
</tbody>
</table>
## CTA Cardiac Structures Congenital LVAD Protocol

### Patient Position
- Supine, Feet First into Gantry Heart Isocenter

### Scanogram
- AP and Lateral

### Injection Rate
- 5 ml / sec preferred

### IV Size and Location
- 18g, 20g min RT AC preferred

### Contrast
- Omnipaque 350

### Saline
- Amount equal to contrast amount

### Respiration
- Breath Hold

### BT Descending aorta

### HU 200

### A Contrast Scan
- Helical Scan
- ECG Gated Continual Helical Mode

### B Contrast Scan
- ECG Gated Continual Helical Mode
- Immediately following A contrast scan.

### Acquisition Specs
- 0.5 mm Thickness
- 0.3 sec Spacing

### Start
- Above Aortic Arch

### End
- Bottom of Heart

### Scan FOV
- 320 mm

### Algorithm Cardiac CTA

<table>
<thead>
<tr>
<th>R1</th>
<th>Thickness</th>
<th>Spacing</th>
<th>FOV</th>
<th>Phase</th>
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<tbody>
<tr>
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<td>0.5 mm</td>
<td>0.3 mm</td>
<td>320 mm</td>
<td>75%</td>
<td>PACS and ENTERPRISE</td>
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### Functional Analysis
- Built in retrospective protocol

<table>
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<th>Algorithm Cardiac CTA</th>
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<tr>
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<tr>
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<tr>
<td></td>
<td>Phase CFA 0% - 90%</td>
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<td>Every 10%</td>
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