

**IMAGING PROTOCOL – CT DCN PEDI SINUS-ORBITS-FACIAL BONES SIEMENS EDGE+128**

**CTDI: 0-4yr: ≤ 15mGy 5-16: ≤25mGy**

**PT Positioning:**

- If possible, tilt the patient’s head so that a line connecting the lateral canthus of the eye and the EAC is perpendicular to the CT tabletop.

**Scan Parameters:**

- **SINUS-** Scan from above frontal sinus through the bottom of the teeth
- **ORBITS-** Scan from above the orbital roof through the maxillary sinus
- **FACE-** Scan from above orbits through the entire mandible
- **ORBITAL CELLULITIS PROTOCOL (Sinus W)-** Scan from below top teeth through top of scalp
- Scan delay 60 seconds after start of contrast.

**Setup:** LAT scout from below the mandible through the top of the head

**DFOV:** Appropriate for patient’s body habitus

**PACS SERIES**

1. SCOUT & DOSE REPORT
2. BONE AXL 1X1
3. ST AXL 1X1
4. BONE COR 1X1
5. BONE SAG 1X1
6. BRAIN COR 1X1
7. BRAIN SAG 1X1

**Acquisition Parameters**

<u>Pedi 0-6 yr old</u>		<u>Pedi 7-14 yrs</u>	
Scan Type	Spiral	Scan Type	Spiral
Pitch	0.8	Pitch	0.8
Detector Configuration	128 x 0.6	Detector Configuration	128 x 0.6
Slice Thickness	1.0	Slice Thickness	1.0
Rotation Time	.28	Rotation Time	.28
Care Dose	on	Care Dose	on
Care kV	on	Care kV	on
Dose Optimization	5	Dose Optimization	5
Quality Ref mAs	125	Quality Ref mAs	190
Ref kV	120	Ref kV	120

See Adult ARA protocol for 15+ year old imaging

## Reconstruction Parameters

<b>Recon 1 Bone Axial</b>	
<b>Kernel</b>	<b>Hr56</b>
<b>ADMIRE</b>	<b>none</b>
<b>Window</b>	<b>Bone Dell 3000 500</b>
<b>Slice Thickness</b>	<b>1X1</b>
<b>Recon 2 Soft Tissue Axial</b>	
<b>Kernel</b>	<b>Hr38</b>
<b>ADMIRE</b>	<b>2</b>
<b>Window</b>	<b>Soft Tissue 400 40</b>
<b>Slice Thickness</b>	<b>1X1</b>
<b>Recon 3 Coronal Bone</b>	<b>Recon 4 Sagittal Bone</b>
<b>Kernel: Hr56</b>	<b>Kernel: Hr56</b>
<b>ADMIRE: none</b>	<b>ADMIRE: none</b>
<b>Window: Bone Dell 3000 500</b>	<b>Window: Bone Dell 3000 500</b>
<b>Slice Thickness: 1X1</b>	<b>Slice Thickness: 1X1</b>
<b>Recon 3 Coronal ST</b>	<b>Recon 4 Sagittal ST</b>
<b>Kernel: Hr38</b>	<b>Kernel: Hr38</b>
<b>ADMIRE: 2</b>	<b>ADMIRE: 2</b>
<b>Window: Soft Tissue 400 40</b>	<b>Window: Soft Tissue 400 40</b>
<b>Slice Thickness 1X1</b>	<b>Slice Thickness 1X1</b>