Imaging Protocol – CT Pedi Sinus_Orbits_Facial Bones

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 sinuses through the bottom of top teeth**
- **Orbits - Scan from above orbital roof through the maxillary sinuses**
- **Face - Scan from above orbits through the entire mandible**

Setup: LAT scout from no gantry tilt

DFOV: Appropriate to patient body habitus

PACS SERIES
1. **SCOUT**
2. **BONE AX**
3. **ST AX**
4. **BONE COR**
5. **BONE SAG**
6. **ST COR**
7. **ST SAG**
8. **DOSE REPORT**

Acquisition Parameters

PT AGE	0-5mo	6-18m	19m-6y	7y-14y	15+
Scan Type	AXIAL	AXIAL	AXIAL	Helical	Helical
Scan FOV	PED HEAD	PED HEAD	SM HEAD	SM HEAD	HEAD
mA *Smart mA/ODM	85	135	220	285	355
kVp *kV assist	100	100	100	100	100
Pitch and Speed (mm/rot)	N/A	N/A	N/A	0.984:1 (140.63 mm/s)	0.984:1 (140.63 mm/s)
Detector Coverage *Smart Coverage	120mm*	140mm*	160mm*	40mm	40mm
Thick	1.25mm	1.25mm	1.25mm	1.25mm	1.25mm
Speed	0.28	0.28	0.28	0.28	0.28

Reconstruction Parameters

RECON 1 (Bone AX)	3000/500
Algorithm	BONE PLUS
ASIR	50%
Recon Type	HELICAL FULL
Slice Thickness	0.625
Increment	0.625
RECON 2 (ST AX)	**400/40**
Algorithm	STND
ASIR	50%
Recon Type	HELICAL FULL
Slice Thickness	1.25
Increment	1.25
RECON 3 (BONE REF)	**3000/500**
Algorithm	BONE PLUS
ASIR	50%
Recon Type	HELICAL PLUS
Slice Thickness	0.625
Increment	0.3125
RECON 4 (ST REF)	**400/40**
Algorithm	STND
ASIR	50%
Recon Type	HELICAL PLUS
Slice Thickness	0.625
Increment	0.3125