ROUTINE PEDI BRAIN WO Helical age15-17
Siemens GO UP

Indications	**Intracranial bleed, mental status change, trauma, general screening, ha**
Diagnostic Task	**Detect collections of blood; identify brain masses; detect brain edema or ischemia; identify shift in the normal locations of the brain**
Scan Mode	Helical
Position/Landmark	Head or feet first-supine/ at chin
Topogram	lat 15mA 130kV
kVp/Reference mass	110kV 261mAs
Rotation time/pitch	1sec/0.55
Detector Configuration	32x0.7
Table Speed/Increment	12.32
Dose reduction	na
Allowed CTDI ranges*	10mGy-60mGy
XR29 Dose Notification value	50mGy

Helical Set

recon	body part	thickness spacing	kernel	recon window	recon destination
1	axial brain	1.5mmx 1.5mm	Hr40	cerebrum	pacs
2	axial brain	5mmx 5mm	Hr40	cerebrum	pacs
3	axial skull bone	1mmx1mm	Hr60	bone	pacs
5	Sag Brain	1.5mmx1.5mm	Hr40	cerebrum	pacs
6	Coronal Brain	1.5mmx1.5mm	Hr40	cerebrum	pacs

Scan Start/End	Skull base skull vertex
DFOV	25 cm decrease appropriately Tilt chin down to avoid orbits
Scan Delay	none

Comments: Non Contrast: intracranial bleed, mental status change, trauma, headache.

We do not give contrast to children under 10 years of age

The AAPM recommended NEMA XR29 Dose notification Value of an <2year old head is 50mGy. For a 2-5 year old head, the recommended dose notification value is 60mGy. Dose notification levels less than AAPM recommendation can be set. The maximum CTDI vol should match the dose notification value. Exams with CTDIvol less than the minuminum allowed range should not be performed unless approved by a radiologist.