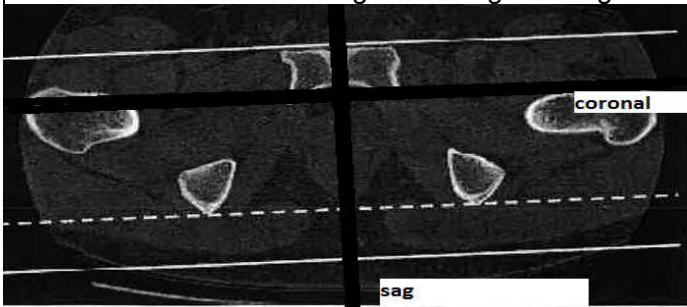


# Bone hip 16 Sensation

Indications	Pain, swelling, trauma					
Diagnostic Task	Detects fractures, hematomas, arthritis, bone cyst					
Scan mode	Helical					
Position/Landmark	Head or feet first-supine-iliac crest					
Topogram	AP 120kv 100mA Lat 100mA120 kV					
kVp/Reference mass	120kv 220mas					
Rotation time/pitch	1.0/1.0					
Detector Configuration	16x0.75					
Table Speed/Increment	12					
Dose reduction	Care Dose on					
Allowed CTDI ranges*	7mGy-50mGy					
XR29 Dose Notification value	50mGy					
Helical Set	recon	body part	thickness spacing	kernel	window	recon destination
	1	thin pelvis	.75mmx.5mm	80ultra sharp	osteo	mpr/pacs
	2	pelvis soft tissue	2mmx 2mm	30smooth	mediastinum	pacs
	3	thin soft	.75mmx.5mm	30smooth	mediastinum	for 3d
	2x2 coronal and sag reformats from recon 1 bone 2x2 coronal and sag reformats from recon 3 soft tissue					
Scan Start/end location	1cm superior to iliac crest					
	1cm inferior to lesser trochanters					
	include all of fx and hardware					
DFOV	25 cm					
	decrease appropriately					
IV contrast volume/type	100ml -isovue 370- if needed for soft tissue infection or mass					
Scan delay	90seconds-Performed as directed by a the supervising radiologist					
3D Technique Used	do 3d spin with recon 3-if fracture seen					
	note: If hardware present use extended ct scale and increase kv to 140 using axial image for sag and coronal reformats- do sag of hip of intrest					



Approximate Values for CTDIvol

Patient size	weight(kg)	weight(lbs)	CTDIvol(mGy)
SMALL	50-70	110-155	10-17
AVERAGE	70-90	155-200	15-25
LARGE	90-120	200-265	22-35

NOTE\*

\*The AAPM recommended NEMA XR29 Dose Notification Value for an adult torso is 50mGy. Dose Notification levels less than the AAPM recommended can be set. The maximum CTDI vol should match the dose notification value. Exams with CTDI vol values less than the minimum allowed range should not be performed unless approved by a radiologist.

