

# L-SPINE 16 Sensation

Indications	Lower back pain, fall, surgery, trauma						
Diagnostic Task	Detect fractures, herniated disk, spinal stenosis						
Scan mode	Helical						
Position/Landmark	Head or feet first-Supine at xyphoid						
Topogram	AP/Lat 50mA 140kV						
kVp/Reference mass	120kv 240mAs						
Rotation time/pitch	0.75/0.75						
Detector Configuration	16x0.75						
Table Speed/Increment	9						
Dose reduction	CareDose 4D						
Allowed CTDI ranges*	7mGy-50mGy						
XR29 Dose Notification value	50mGy						
Helical Set		body	thickness			recon	
	recon	part	spacing	kernel	window	destination	
	1	thin l-spine	1mmx.5mm	60sharp	neuro bone	mpr/pacs	
	2	l-spine	2mmx 2mm	31medium smooth	mediastinum	pacs	
3	thin l-spine	1mmx.5mm	31medium smooth	mediastinum	for mpr		
Scan Start/end location	1cm superior to L-1 and 1cm inferior to L-5						
DFOV	18 cm decrease appropriately						
3D Technique Used	2x2 coronal and sag reformats from recon 1 (bone)						
	2x2 coronal and sag reformats for recon 3 (soft tissue)						
IV contrast volume/type	none						
Scan delay	none						
	note: If hardware present use extended ct scale and increase kv to 140						
NOTE*	*The AAPM recommended NEMA XR29 Dose Notification Value for an adult toros 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.						