T-SPINE 16 Emotion

Indications	upper back pain, fall, surgery, trauma
Diagnositc Task	Detect fractures, herniated disk, spinal stenosis
Position/Landmark	Head or feet first-Supine 1cm superior to sternal notch
Scan mode	Helical
Topogram	AP/Lat 130kV 50mA
kVp/Reference mass	130kv 300mAs
Rotation time/pitch	1.0/0.65
Detector Configuration	16x0.6
Table Speed/Increment	6.24
mA or mAs(min and max)	
Dose reduction	CareDose 4D
Allowed CTDI ranges*	7mGy-50mGy
XR29 Dose Notification value	50mGy
Helical Set	recon 1: thin t-spine; 1mmx.7mm; 60sharp; osteo; mpr/pacs recon 2: t-spine; 2mmx 2mm; 31medium smooth; mediastinum; pacs recon 3: thin t-spine; 1mmx.7mm; 31medium smooth; mediastinum; for mpr
Scan Start/end location	1cm superior to c-7
	1cm inferior to t-12
DFOV	25 cm decrease appropriately
3D Technique Used	2x2 coronal and sag reformats from recon 1 (bone)
	2x2 sag reformats for recon 3 (soft tissue)
IV contrast volume/type	none
Scan delay	none
	if metal present increase kVp to 140 and use extended scale
NOTE*	*The AAPM recommended NEMA XR29 Dose Notificaton Value for an adult toros is 50mGy. Dose Notification levels less than the AAPM recommened 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.

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Approved by Dr Walker