

# C-SPINE 16 Emotion

Indications	Neck pain, fall, surgery, trauma					
Diagnostic Task	Detect fractures, herniated disk, spinal stenosis					
Scan mode	Helical					
Position/Landmark	Head or feet first-Supine at Vetex of head					
Topogram	AP/Lat 130kV 50mA					
kVp/Reference mass	130kv 210mAs					
Rotation time/pitch	1.0/0.8					
Detector Configuration	16x0.6					
Table Speed/Increment	7.68					
mA or mAs(min and max)						
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 c-spine	1mmx.7mm	60sharp	osteo	mpr/pacs
	2	c-spine	2mmx 2mm	31medium smooth	mediastinum	pacs
3	thin c-spine	1mmx.7mm	31medium smooth	mediastinum	for mpr	
Scan Start/end location	1cm superior to base of skull					
	1cm inferior to c-7					
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)					
	If axial images of c-spine were not obtained because of pt's kyphosis please					
	do a modified axial reformat 2x2( to get an axial view of c-spine)in bone					
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 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.					