

CT Chest Esophogram 16 Sensation

Indications																															
Diagnostic Task																															
Scan mode	Helical-inspiration																														
Position/Landmark	Head first-Supine 1cm to shoulders-arms above head																														
Topogram	AP																														
kVp/Reference mass	120kV 160mas/Care Dose ON 100kv if pt under 140lbs																														
Rotation time/pitch	0.5/1																														
Detector Configuration	16x0.75																														
Table Speed/Increment	12																														
Dose reduction	CareDose 4D																														
Allowed CTDI ranges*	7mGy-50mGy																														
XR29 Dose Notification value	50mGy																														
Helical Set	<table style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 10%;"></th> <th style="width: 15%;">body part</th> <th style="width: 15%;">thickness spacing</th> <th style="width: 15%;">kernel</th> <th style="width: 15%;">window</th> <th style="width: 10%;">recon destination</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>chest</td> <td>2mmx 2mm</td> <td>31medium smooth</td> <td>mediastinum</td> <td>pac</td> </tr> <tr> <td>2</td> <td>lung</td> <td>1.5mmx 1.5mm</td> <td>70very sharp</td> <td>lung</td> <td>pac</td> </tr> <tr> <td>3</td> <td>thin chest</td> <td>1mmx.8mm</td> <td>31medium smooth</td> <td>mediastinum</td> <td>mpr and pac</td> </tr> <tr> <td>4</td> <td>thin lung</td> <td>1mmx.8mm</td> <td>B20f smooth</td> <td>lung</td> <td>mpr</td> </tr> </tbody> </table>		body part	thickness spacing	kernel	window	recon destination	1	chest	2mmx 2mm	31medium smooth	mediastinum	pac	2	lung	1.5mmx 1.5mm	70very sharp	lung	pac	3	thin chest	1mmx.8mm	31medium smooth	mediastinum	mpr and pac	4	thin lung	1mmx.8mm	B20f smooth	lung	mpr
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Scan Start/end location	C4/5																														
	L2/3																														
DFOV	35cm/decrease for lung recons decrease appropriately																														
3D Technique Used	2x2 coronal and sag chest reformats for recon 3																														
	10x2 axial mip lung from recon 4																														
	Immediately before scout, pt drinks all contrast but one swallow																														
	immediately after scout with pt lying down 1 swallow of contrast by straw																														
	Approximate Values for CTDIvol																														
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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.																														

