

ROUTINE CHEST WITH 64 GE

Indications	Cough, SOB, restage cancer, abnormal cxr																																								
Diagnostic Task	Detect nodules or masses and characterize their size and shape, abnormal fluid collections in chest																																								
Scan mode	Helical																																								
Position/Landmark	Head first-Supine Sternal Notch S50-I250																																								
Topogram	AP 120kV 20mA Lat 120kV 40mA																																								
kVp/Reference mass	120kv Auto mA (200-440)																																								
Rotation time/pitch	0.5/1.375:1																																								
Detector Configuration	64x0.625																																								
Table Speed/Increment	55																																								
Dose reduction	Noise Index 21.45																																								
Allowed CTDI ranges*	7mGy-50mGy																																								
XR29 Dose Notification value	50mGy																																								
Helical Set	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th></th> <th style="text-align: center;">body</th> <th style="text-align: center;">thickness</th> <th></th> <th style="text-align: center;">recon</th> </tr> <tr> <th></th> <th style="text-align: center;">part</th> <th style="text-align: center;">spacing</th> <th style="text-align: center;">algorithm</th> <th style="text-align: center;">destination</th> </tr> </thead> <tbody> <tr> <td>1</td> <td style="text-align: center;">chest</td> <td style="text-align: center;">2.5mmx 2.5mm</td> <td style="text-align: center;">standard</td> <td style="text-align: center;">pacs</td> </tr> <tr> <td>2</td> <td style="text-align: center;">lung</td> <td style="text-align: center;">1.25mmx 1.25mm</td> <td style="text-align: center;">lung</td> <td style="text-align: center;">pacs</td> </tr> <tr> <td>3</td> <td style="text-align: center;">sag chest</td> <td style="text-align: center;">2mmx2mm</td> <td style="text-align: center;">standard</td> <td style="text-align: center;">pacs</td> </tr> <tr> <td>4</td> <td style="text-align: center;">coronal chest</td> <td style="text-align: center;">2mmx2mm</td> <td style="text-align: center;">standard</td> <td style="text-align: center;">pacs</td> </tr> <tr> <td>5</td> <td style="text-align: center;">axial mip lung</td> <td style="text-align: center;">10mmx2mm</td> <td style="text-align: center;">standard</td> <td style="text-align: center;">pacs</td> </tr> <tr> <td>6</td> <td style="text-align: center;">Super D</td> <td style="text-align: center;">1mmx0.8mm</td> <td style="text-align: center;">standard</td> <td style="text-align: center;">pacs</td> </tr> </tbody> </table>		body	thickness		recon		part	spacing	algorithm	destination	1	chest	2.5mmx 2.5mm	standard	pacs	2	lung	1.25mmx 1.25mm	lung	pacs	3	sag chest	2mmx2mm	standard	pacs	4	coronal chest	2mmx2mm	standard	pacs	5	axial mip lung	10mmx2mm	standard	pacs	6	Super D	1mmx0.8mm	standard	pacs
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Scan Start/end location	2cm superior to lung apices																																								
	through adrenal glands/inferior aspect of L-1																																								
DFOV	35cm/decrease for lung recons																																								
IV contrast volume/type	75ml < 200lbs, 100ml 200-250lbs, 125ml>250lbs isovue 370 2.5-3cc/sec																																								
Scan delay	Performed as directed by the supervising radiologist																																								

60 seconds

Approximate Values for CTDIvol			
Patient size	weight(kg)	weight(lbs)	CTDIvol(mGy)
SMALL	50-70	110-155	4-10
AVERAGE	70-90	155-200	8-16
LARGE	90-120	200-265	14-22

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.

