

# ROUTINE CHEST WITH GO UP

<b>Indications</b>	Cough, SOB, restage cancer, abnormal cxr					
<b>Diagnostic Task</b>	Detect nodules or masses and characterize their size and shape, abnormal fluid collections in chest					
<b>Scan mode</b>	Helical-inspiration					
<b>Position/Landmark</b>	Head first-Supine 1cm to shoulders-arms above head					
<b>Topogram</b>	AP 110kv 15mA					
<b>kVp/Reference mass</b>	130kV 54Eff mAs/Care Dose ON					
<b>Rotation time/pitch</b>	1.0/1.5					
<b>Detector Configuration</b>	32x0.7					
<b>Table Speed/Increment</b>	33.6					
<b>Dose reduction</b>	CareDose 4D					
<b>Allowed CTDI ranges*</b>	7mGy-50mGy					
<b>XR29 Dose Notification value</b>	50mGy					
<b>Helical Set</b>	recon	body part	thickness spacing	kernel	window	recon destination
	1	chest	2mmx 2mm	Br40	mediastinum	paces
	2	lung	1mmx 1mm	Br36	lung	paces
	3	Super D	1mmx.8mm	Br36	mediastinum	paces
	4	Lung Mip	10mmx2mm	Br38smooth	lung	paces
<b>Scan Start/end location</b>	2cm superior to lung apices through adrenal glands/inferior aspect of L-1					
<b>DFOV</b>	35cm decrease appropriately/decrease for lung recons					
<b>IV contrast volume/type</b>	75ml < 200lbs, 100ml 200-250lbs, 125ml>250lbs isovue 370 2.5-3cc/sec					
	Performed as directed by the supervising radiologist					
<b>Scan delay</b>	60 seconds					
	<b>Approximate Values for CTDIvol</b>					
	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.

