High Resolution Chest 16 Sensation

Indications	Cough, interstitial lung disease, emphysema, bronchiectasis, asbestosis, restrictive lung disease
Diagnostic Task	Detect nodules or masses and characterize their size and shape, abnormal fluid collections in chest
Scan mode	Helical/Axial
Position/Landmark	Head first-Supine 1cm to shoulders/inspiration
Topogram	PA 50mA 80kV
kVp/Reference mass	helical120kv 180mas//axial 120kv/180mas
Rotation time/pitch	helical 0.5/1.0 // axial full 0.5s
Detector Configuration	helical 16x0.75 // axial 2x1.0
Table Speed/Increment	helical 9.6 //axial cycle time 1.88
Dose reduction	CareDose 4D
Allowed CTDI ranges*	7mGy-50mGy
XR29 Dose Notification value	50mGy

Helical Set
Routine Chest

recon	body part	thickness spacing	kernel	window	recon destination
1	chest	2mmx 2mm	31medium smooth	mediastinum	pacs
2	lung	1.5mmx 1.5mm	70very sharp	lung	pacs
3	thin chest	1mmx.8mm	31medium smooth	mediastinum	mpr/pacs
4	lung	1mmx.8mm	b20f smooth	lung	mpr

1ST axial set
supine experation

recon	body part	thickness spacing	kernel	window	recon destination
1	Bilat Lung high res	1mmx20mm	70very sharp	Lung	pacs

2ND axial set
prone inspiration

recon	body part	thickness spacing	kernel	window	recon destination
1	Bilat Lung high res	1mmx20mm	70very sharp	Lung	pacs

Scan Start/end location	lung apex lung base
DFOV	35cm on full chest/FOV limited to just lungs on lung views
3D Technique Used	2x2 coronal and sag chest reformats for recon 3, from helical set
	10mmx2mm axial mip lung from recon 5
IV contrast volume/type	none
Scan delay	none

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.

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Approved by Dr Ellermeier Dr Mollard