Purpose: To provide computed tomography staff with the required protocol for performing CT High Resolution Inspiration & Expiration Chest.

Scope: All adult patients 18 years and older.

Clinical Indication: Interstitial disease, Bronchiectasis, Pulmonary Fibrosis
Patient Preparation: Give clear breathing instructions
Orientation: Feet first
Breathing: Inspiration & Expiration
Oral Contrast: None
IV Contrast per Weight: None
Coverage: Lung apices through lung bases
Anatomic Reference: Sternal notch
Scan Delay: None

Group 1: Supine Inspiration– Lung apices to lung bases

Scan Mode	Thickness Speed Pitch	Table Interval	SFOV	kVp	Auto mA/ Noise Index	Prep Time (sec)	Recon Type
LS 16 0.8 sec Helical Full	1.25 27.50 1.375:1	1.25	Large	100	80-400 11.5	No	Standard Lung
VCT 0.8 sec Helical Full	1.25 55.00 1.375:1	1.25	Large	120	80-400 11.5	No	Standard Lung
AS 64 0.5 sec Helical	1 1	1	380	120	Ref MAS 250	No	Standard Lung

Group 2 Prone Expiration– Low Dose - Lung apices to lung bases

Scan Mode	Thickness Speed Pitch	Table Interval	SFOV	kVp	Auto mA/ Noise Index	Prep Time (sec)	Recon Type
LS 16 **0.8 sec** **Helical** **Full**	**2.5** **27.50** **1.375:1**	**2.5**	**Large**	**120**	**100**	**No**	**Standard Lung**
VCT **0.8 sec** **Helical** **Full**	**2.5** **55.00** **1.375:1**	**2.5**	**Large**	**120**	**100**	**No**	**Standard Lung**
AS 64 **0.5 sec** **Helical**	**2** **1**	**2**	**380**	**120**	**Ref MAS** **100**	**No**	**Standard Lung**

Algorithm: Recon 1 & 2 Standard and lung Recon 3 & 4 2.5 mm standard and lung recon
Reformation: Sagittal and Coronal on inspiration supine series (recon 1 & 2)
Network: Send all imagines to PACS. Exam will auto transmit to AWSERV