

**Supplementary Table 3. Scanner-Specific Protocol Settings for CNUH, SARP, and SPIROMICS**

Protocol Settings	CNUH	SARP (PIT, WSL, and WIS)			SPIROMICS (CU, SF, WF, UT, JH, LA, and MU)			
Center (subjects, n)	CNUH (223)	PIT (10)	WSL (9)	WIS (8)	CU (6), SF (6), and WF (1)	UT (23), JH (1)	LA (3)	MU (3)
Scanner make	Siemens	GE	Siemens	GE	GE	Siemens	Siemens	GE
Scanner model	Definition Flash 128 slice	VCT 64 slice	Sensation 16 slice	GE 16 slice	VCT 64 slice/ Discovery STE	Definition AS+ 128 slice	Sensation 64 slice	Discovery CT 750HD 64 slice
Scan type	Spiral	Helical	Spiral	Helical	Helical	Spiral	Spiral	Helical
Rotation time, s	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Detector configuration, mm	128 x 0.60	64 x 0.60	16 x 0.75	16 x 1.25	64 x 0.63	128 x 0.60	64 x 0.60	64 x 0.63
Pitch	1.0	1.0	1.5	1.7	1.0	1.0	1.0	1.0
Peak kilovoltage, kVp	120	120	120	120	120	120	120	120
mAs	Effective	mA	Effective	mA	mA	Effective	Effective	mA
Inspiration (TLC)	110	S-145; M-180; L-270	33	50	S-145; M-180; L-270	S-90; M-110; L-165	S-80; M-100; L-145	S-145; M-180; L-270
Dose modulation	Care dose OFF	Auto mA OFF	Care dose OFF	Smart mA OFF	Auto mA OFF	Care dose OFF	Care dose OFF	Auto mA OFF
Reconstruction algorithm	B35f	Standard	B30f	Standard	Standard	B35f	B35f	Standard
Thickness, mm	1.0	0.6	1.0	1.3	0.6	0.8	0.8	0.6
Interval, mm	1.0	0.5–0.6	0.5–1.0	0.6	0.5	0.5	0.5	0.5
Scan times (30-cm length)	< 10 s	< 10 s	< 15 s	< 20 s	< 10 s	< 10 s	< 10 s	< 10 s
Iterative reconstruction	No selection	No selection	No selection	No selection	Do not use ASIR	Do not use IRIS	No selection	Do not use ASIR

ASIR = adaptive statistical iterative reconstruction, CNUH = Chonbuk National University Hospital, COPD = chronic obstructive pulmonary disease, CU = Columbia University, IRIS = iterative reconstruction in image space, JH = Johns Hopkins University, LA = University of California at Los Angeles, mAs = milliamperage seconds, MU = University of Michigan, PIT = University of Pittsburgh, SARP = Severe Asthma Research Program, SF = University of California at San Francisco, SPIROMICS = SubPopulations and InteRmediate Outcome Measures In COPD Study, TLC = total lung capacity, UT = University of Utah, WF = Wake Forest University, WIS = University of Wisconsin, WSL = Washington University in Saint Louis