General Electric Standard Dose

1.7 CT Scanning Protocol	Inspiratory CT	Expiratory CT	Inspiratory CT	Expiratory CT	Inspiratory CT	Expiratory CT	Inspiratory CT	Expiratory CT
Scanner Make	GE	GE	GE	GE	GE	GE	GE	GE
Scanner Model	LS 16	LS 16	VCT 64	VCT 64	Discovery 750 HD 64	Discovery 750 HD 64	Revolution 256	Revolution 256
Scan Type	Helical	Helical	Helical	Helical	Helical	Helical	Helical	Helical
Scan FOV	Large	Large	Large	Large	Large	Large	Large	Large
Rotation Time (s)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Det. Configuration	16 x 0.625	16 x 0.625	64 x 0.625	64 x 0.625	64 x 0.625	64 x 0.625	64 x 0.625	64 x 0.625
Pitch	1.375	1.375	0.984	0.984	0.984	0.984	0.992	0.992
kVp	120	120	120	120	120	120	120	120
mA Setting	400	100	400	100	400	100	400	100
Dose Modulation	Auto-mA OFF	Auto-mA OFF	Auto-mA OFF	Auto-mA OFF	Auto-mA OFF	Auto-mA OFF	Auto-mA OFF	Auto-mA OFF
HD Mode	OFF	OFF	OFF	OFF	OFF	OFF	OFF	OFF
Scan Time(s) 30cm Length	<10	<10	<10	<10	<10	<10	<10	<10
Additional Image Filters	No Selection	No Selection	No Selection	No Selection	No Selection	No Selection	No Selection	No Selection
Thickness (mm)	0.625	0.625	0.625	0.625	0.625	0.625	0.625	0.625
Interval (mm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Iterative Reconstruction (Noise Reduction)	Do Not Use ASIR	Do Not Use ASIR	Do Not Use ASIR	Do Not Use ASIR	Do Not Use ASIR	Do Not Use ASIR	Do Not Use ASIR	Do Not Use ASIR
Reconstructions								
RECON 1 Algorithm	Standard	Standard	Standard	Standard	Standard	Standard	Standard	Standard
RECON 2 Algorithm	Bone	Bone	Bone	Bone	Bone	Bone	Bone	Bone
DFOV (mm)*	Same as phase 1	Same as phase 1	Same as phase 1	Same as phase 1	Same as phase 1	Same as phase 1	Same as phase 1	Same as phase 1

*If the DFOV from the baseline CT scan was too large, additional inspiratory and expiratory reconstructions will be requested using the RECON 1 algorithm and a tighter DFOV. The CT Scan Parameters Report provided by the coordinator will specify the required reconstructions.

General Electric Reduced Dose

1.7 CT Scanning Protocol	Inspiratory Lowdose and Iterative CT		
Scanner Make	GE	GE	GE
Scanner Model	VCT 64	Discovery CT 750 HD 64	Revolution 256
Scan Type	Helical	Helical	Helical
Scan FOV	Large	Large	Large
Rotation Time (s)	0.5	0.5	0.5
Det. Configuration	64 x 0.625	64 x 0.625	64 x 0.625
Pitch	0.984	0.984	0.992
kVp	120	120	120
Dose Modulation	Auto-mA, Smart-mA ON	Auto-mA, Smart-mA ON	Auto-mA, Smart-mA ON
HD Mode	OFF	OFF	OFF
Target noise index	NI=66.5	NI=66.5	NI=50.6
Max mA limit	100	100	100
Scan Time(s) 30cm Length	<10	<10	<10
Additional Image Filters	No Selection	No Selection	No Selection
Thickness (mm)	0.625	0.625	0.625
Interval (mm)	0.5	0.5	0.5
Iterative Reconstruction (Noise Reduction)	ASIR	ASIR	ASIR
Recon Mode	plus	plus	plus
Reconstructions			
Low1	STANDARD	STANDARD	STANDARD
Low2	BONE	BONE	BONE
Low2i	STANDARD ASIR 40%	STANDARD ASIR 40%	STANDARD ASIR 40%
Low3i	BONE ASIR 40%	BONE ASIR 40%	BONE ASIR 40%
Low4i	STANDARD ASIR 100%	STANDARD ASIR 100%	STANDARD ASIR 100%
DFOV (mm)*	Same as phase 1	Same as phase 1	Same as phase 1

*If the DFOV from the baseline CT scan was too large, additional lowdose and iterative recons with a tighter DFOV will be requested. The CT Scan Parameters Report provided by the coordinator will specify the required the coordinator will specify the required reconstructions.

Philips

1.7 CT Scanning Protocol	Inspiratory CT	Expiratory CT	Inspiratory CT	Expiratory CT
Scanner Make	**Philips**	**Philips**	**Philips**	**Philips**
Scanner Model	**Brilliance 40 slice**	**Brilliance 40 slice**	**Brilliance 64/256**	**Brilliance 64/256**
Scan Type	Spiral Helix	Spiral Helix	Spiral Helix	Spiral Helix
Scan FOV	No Selection	No Selection	No Selection	No Selection
Rotation Time (s)	0.5	0.5	0.5	0.5
Det. Configuration	40 x 0.625	40 x 0.625	64 x 0.625	64 x 0.625
Pitch	0.923	0.923	0.923	0.923
kVp	120	120	120	120
mAs	mAs 200	mAs 50	mAs 200	mAs 50
Dose Modulation	Dose Right (ACS) OFF	Dose Right (ACS) OFF	Dose Right (ACS) OFF	Dose Right (ACS) OFF
HD Mode	n/a	n/a	n/a	n/a
Scan Time(s) 30cm Length	<10	<10	<10	<10
Additional Image Filters	Adaptive Filtering OFF	Adaptive Filtering OFF	Adaptive Filtering OFF	Adaptive Filtering OFF
Thickness (mm)	0.67	0.67	0.67	0.67
Interval (mm)	0.5	0.5	0.5	0.5
Iterative Reconstruction (Noise Reduction)	Do Not Use iDOSE	Do Not Use iDOSE	Do Not Use iDOSE	Do Not Use iDOSE
Reconstructions				
RECON 1 Algorithm	B	B	B	B
RECON 2 Algorithm	D (YB if D not available)	D (YB if D not available)	D (YB if D not available)	D (YB if D not available)
DFOV (mm)*	Same as phase 1	Same as phase 1	Same as phase 1	Same as phase 1
*If the DFOV from the baseline CT scan was too large, additional inspiratory and expiratory reconstructions will be requested using the RECON 1 algorithm and a tighter DFOV. The CT Scan Parameters Report provided by the coordinator will specify the required reconstructions.				

Philips Reduced Dose

1.7 CT Scanning Protocol	Inspiratory CT
Scanner Make	**Philips**
Scanner Model	**Brilliance 64/256**
Scan Type	Spiral Helix
Scan FOV	No Selection
Rotation Time (s)	0.5
Det. Configuration	64 x 0.625
Pitch	0.923
kVp	120
Reference mAs	46 mAs (128mA)
Dose Modulation	Z-DOM or DoseRight ON
HD Mode	n/a
Scan Time(s) 30cm Length	<10
Additional Image Filters	Adaptive Filtering OFF
Thickness (mm)	0.67
Interval (mm)	0.5
Iterative Reconstruction (Noise Reduction)	iDose ON
Reconstructions	
Low1	B
Low2	D (YB where D not available)
Low2i	B iDose L3
Low3i	D iDose L3 (YB where D not available)
Low4i	B iDose L6
DFOV (mm)*	Same as phase 1

*If the DFOV from the baseline CT scan was too large, additional lowdose and iterative recons with a tighter DFOV will be requested. The CT Scan Parameters Report provided by the coordinator will specify the required reconstructions.

Siemens Standard Dose 1

1.7 CT Scanning Protocol	Inspiratory CT	Expiratory CT	Inspiratory CT	Expiratory CT	Inspiratory CT	Expiratory CT
Scanner Make	Siemens	Siemens	Siemens	Siemens	Siemens	Siemens
Scanner Model	Sensation 16 slice	Sensation 16 slice	Biograph 40 slice	Biograph 40 slice	Sensation 64 slice	Sensation 64 slice
Scan Type	Spiral	Spiral	Spiral	Spiral	Spiral	Spiral
Scan FOV	No Selection	No Selection	No Selection	No Selection	No Selection	No Selection
Rotation Time (s)	0.5	0.5	0.5	0.5	0.5	0.5
Det. Configuration	16 x 0.75	16 x 0.75	40 x 0.6	40 x 0.6	(64) 32 x 0.6	(64) 32 x 0.6
Pitch	1.1	1.1	1.1	1.1	1	1
kVp	120	120	120	120	120	120
Eff. mAs	Effective mAs 200	Effective mAs 50	Effective mAs 200	Effective mAs 50	Effective mAs 200	Effective mAs 50
Dose Modulation	Care Dose OFF	Care Dose OFF	Care Dose OFF	Care Dose OFF	Care Dose OFF	Care Dose OFF
HD Mode	n/a	n/a	n/a	n/a	n/a	n/a
Scan Time(s) 30cm Length	<10	<10	<10	<10	<10	<10
Additional Image Filters	No Selection	No Selection	No Selection	No Selection	No Selection	No Selection
Thickness (mm)	0.75	0.75	0.75	0.75	0.75	0.75
Interval (mm)	0.5	0.5	0.5	0.5	0.5	0.5
Iterative Reconstruction (Noise Reduction)	Do Not Use IRIS or SAFIRE	Do Not Use IRIS or SAFIRE	Do Not Use IRIS or SAFIRE	Do Not Use IRIS or SAFIRE	Do Not Use IRIS or SAFIRE	Do Not Use IRIS or SAFIRE
Reconstructions						
RECON 1 Algorithm	B31f	B31f	B31f	B31f	B31f	B31f
RECON 2 Algorithm	B46f	B46f	B45f	B45f	B46f	B46f
RECON 3 Algorithm	B35f	B35f	B35f	B35f	B35f	B35f
DFOV (mm)*	Same as phase 1	Same as phase 1	Same as phase 1	Same as phase 1	Same as phase 1	Same as phase 1

*If the DFOV from the baseline CT scan was too large, additional inspiratory and expiratory reconstructions will be requested using the RECON 1 algorithm and a tighter DFOV. The CT Scan Parameters Report provided by the coordinator will specify the required reconstructions.

Siemens Standard Dose 2

1.7 CT Scanning Protocol	Inspiratory CT	Expiratory CT	Inspiratory CT	Expiratory CT	Inspiratory CT	Expiratory CT	Inspiratory CT	Expiratory CT
Scanner Make	**Siemens**	**Siemens**	**Siemens**	**Siemens**	**Siemens**	**Siemens**	**Siemens**	**Siemens**
Scanner Model	**Definition (DS and AS) 64 slice**	**Definition (DS and AS) 64 slice**	**Definition (AS+) 128 slice**	**Definition (AS+) 128 slice**	**Definition Flash 128 slice**	**Definition Flash 128 slice**	**Somatom Force**	**Somatom Force**
Scan Type	Spiral Single Source	Spiral Single Source	Spiral	Spiral	Spiral Single Source	Spiral Single Source	Spiral Single Source	Spiral Single Source
Scan FOV	No Selection	No Selection	No Selection	No Selection	No Selection	No Selection	No Selection	No Selection
Rotation Time (s)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Det. Configuration	(64) 32 x 0.6	(64) 32 x 0.6	(128) 64 x 0.6	(128) 64 x 0.6	(128) 64 x 0.6	(128) 64 x 0.6	(128) 64 x 0.6	(128) 64 x 0.6
Pitch	1	1	1	1	1	1	1	1
kVp	120	120	120	120	120	120	120	120
Eff. mAs	Effective mAs 200	Effective mAs 50	Effective mAs 200	Effective mAs 50	Effective mAs 200	Effective mAs 50	Effective mAs 200	Effective mAs 50
Dose Modulation	Care Dose OFF	Care Dose OFF	Care Dose OFF	Care Dose OFF	Care Dose OFF	Care Dose OFF	Care Dose OFF	Care Dose OFF
HD Mode	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a
Scan Time(s) 30cm Length	<10	<10	<10	<10	<10	<10	<10	<10
Additional Image Filters	No Selection	No Selection	No Selection	No Selection	No Selection	No Selection	No Selection	No Selection
Thickness (mm)	0.75	0.75	0.75	0.75	0.75	0.75	0.75	0.75
Interval (mm)	0.5	0.5	0.5	0.5	0.5	0.5	0.5	0.5
Iterative Reconstruction (Noise Reduction)	Do Not Use IRIS or SAFIRE	Do Not Use IRIS or SAFIRE	Do Not Use IRIS or SAFIRE	Do Not Use IRIS or SAFIRE	Do Not Use IRIS or SAFIRE	Do Not Use IRIS or SAFIRE	Do Not Use ADMIRE	Do Not Use ADMIRE
Reconstructions								
RECON 1 Algorithm	B31f	B31f	B31f	B31f	B31f	B31f	Bf40d	Bf40d
RECON 2 Algorithm	B45f	B45f	B45f	B45f	B46f	B46f	Qr44d	Qr44d
RECON 3 Algorithm	B35f	B35f	B35f	B35f	B35f	B35f	Qr40d	Qr40d
DFOV (mm)*	Same as phase 1	Same as phase 1	Same as phase 1	Same as phase 1	Same as phase 1	Same as phase 1	Same as phase 1	Same as phase 1

*If the DFOV from the baseline CT scan was too large, additional inspiratory and expiratory reconstructions will be requested using the RECON 1 algorithm and a tighter DFOV. The CT Scan Parameters Report provided by the coordinator will specify the required reconstructions.

Siemens Reduced Dose 1

1.7 CT Scanning Protocol	Inspiratory Lowdose and Iterative CT		
Scanner Make	**Siemens**	**Siemens**	**Siemens**
Scanner Model	**Sensation 16 slice**	**Biograph 40 slice**	**Sensation 64 slice**
Scan Type	Spiral	Spiral	Spiral
Scan FOV	No Selection	No Selection	No Selection
Rotation Time (s)	0.5	0.5	0.5
Det. Configuration	16 x 0.75	40 x 0.6	(64) 32 x 0.6
Pitch	1.1	1.1	1
kVp	120	120	120
Reference mAs	Reference 35mAs	Reference 35mAs	Reference 35mAs
Dose Modulation	Care Dose ON	Care Dose ON	Care Dose ON
HD Mode	n/a	n/a	n/a
Scan Time(s) 30cm Length	<10	<10	<10
Additional Image Filters	No Selection	No Selection	No Selection
Thickness (mm)	0.75	0.75	0.75
Interval (mm)	0.5	0.5	0.5
Iterative Reconstruction (Noise Reduction)	SAFIRE	SAFIRE	SAFIRE
Reconstructions			
Low1	B31f	B31f	B31f
Low2	B45f	B45f	B46f
Low2i	I31f SAFIRE 2	I31f SAFIRE 2	I31f SAFIRE 2
Low3i	I44f SAFIRE 2	I44f SAFIRE 2	I44f SAFIRE 2
Low4i	I31f SAFIRE 5	I31f SAFIRE 5	I31f SAFIRE 5
DFOV (mm)*	Same as phase 1	Same as phase 1	Same as phase 1

*If the DFOV from the baseline CT scan was too large, additional lowdose and iterative recons with a tighter DFOV will be requested. The CT Scan Parameters Report provided by the coordinator will specify the required the coordinator will specify the required reconstructions.

Siemens Reduced Dose 2

1.7 CT Scanning Protocol	Inspiratory Lowdose and Iterative CT			
Scanner Make	Siemens	Siemens	Siemens	Siemens
Scanner Model	Definition (DS and AS) 64 slice	Definition (AS+) 128 slice	Definition Flash 128 slice	Somatom Force
Scan Type	Spiral Single Source	Spiral	Spiral Single Source	Spiral Single Source
Scan FOV	No Selection	No Selection	No Selection	No Selection
Rotation Time (s)	0.5	0.5	0.5	0.5
Det. Configuration	(64) 32 x 0.6	(128) 64 x 0.6	(128) 64 x 0.6	(128) 64 x 0.6
Pitch	1	1	1	1
kVp	120	120	120	120
Reference mAs	Reference 35mAs	Reference 35mAs	Reference 35mAs	Reference 35mAs
Dose Modulation	Care Dose ON	Care Dose ON	Care Dose ON	Care Dose ON
HD Mode	n/a	n/a	n/a	n/a
Scan Time(s) 30cm Length	<10	<10	<10	<10
Additional Image Filters	No Selection	No Selection	No Selection	No Selection
Thickness (mm)	0.75	0.75	0.75	0.75
Interval (mm)	0.5	0.5	0.5	0.5
Iterative Reconstruction (Noise Reduction)	SAFIRE	SAFIRE	SAFIRE	ADMIRE
Reconstructions				
Low1	B31f	B31f	B31f	Bf40d
Low2	B45f	B45f	B46f	Qr44d
Low2i	I31f SAFIRE 2	I31f SAFIRE 2	I31f SAFIRE 2	Bf40d ADMIRE 2
Low3i	I44f SAFIRE 2	I44f SAFIRE 2	I44f SAFIRE 2	Qr44d ADMIRE 2
Low4i	I31f SAFIRE 5	I31f SAFIRE 5	I31f SAFIRE 5	Bf40d ADMIRE 5
DFOV (mm)*	Same as phase 1	Same as phase 1	Same as phase 1	Same as phase 1

*If the DFOV from the baseline CT scan was too large, additional lowdose and iterative recons with a tighter DFOV will be requested. The CT Scan Parameters Report provided by the coordinator will specify the required the coordinator will specify the required reconstructions.