

CT BODY PROTOCOLS

Standard	CTA/CTV	Multiphase
Abdomen/Pelvis	CTA Abdomen/Pelvis	Adrenal
Kidney Stone	CTA Abdomen/Pelvis w/ Delay	Pancreas
Chest/Abdomen/Pelvis	CTA Lower Extremity Runoff	Pancreas & Pelvis
Chest/Abdomen/Pelvis & Neck	CTA Upper Extremity Runoff	Pancreas & Chest/Abdomen/Pelvis
Pelvis		Liver 2 Phase
CT Colonography	CTA Thorax/Abdomen Pelvis	Liver 2 Phase & Pelvis
CT Enterography	CTA Mesenteric Ischemia	Liver 3 Phase
CT Cystography	CTA Pulmonary Arteries & Abdomen/Pelvis	Liver - Post RFA/Fatty Liver
		Liver 2 phase & Chest/Abdomen/Pelvis
	CTV Abdomen/Pelvis	Kidney Donor
	CTV Upper Extremity	Renal Mass
	CTV Lower Extremity	Renal Mass & Pelvis
		Urogram 2 Phase
		Urogram 3 Phase
		<u>XXL Multiphase</u>

ABDOMEN & PELVIS

REVISED: 8/24/18

INDICATION	
ORAL PREP	SELECT FROM LIST
SCAN	PV PHASE 60-70 SEC AFTER INJECTION STARTS
RECON	<ul style="list-style-type: none">• 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM• 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM
REFORMAT	<ul style="list-style-type: none">○ 3mm CORONAL AND SAGITTAL
3D POST PROCESSING	NONE

IV SIZE		
IV CONTRAST	WEIGHT BASED	
INJECTION RATE		
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGM
BREATHING		EXPIRATION
SCOUTS		AP AND LATERAL

PARAMETER		SCAN
START		ABOVE DIAPHRAGM
END		BELOW SYMPHYSIS PUBIS
DFOV		<TO PATIENT>
PREP GROUP	GE	70 SEC
	SIEMENS	70 SEC

16 SLICE – GE

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.8 SEC	
THICKNESS	3.75	
PITCH	1.375:1	
SPEED	27.50	
INTERVAL	3.75	
GANTRY TILT		
SCAN FOV	LARGE	
kVp	120	
mA	AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	18.81	
DOSE REDUCTION		
ASiR/MODE	40% / PLUS	
ALGORITHM	STD	STANDARD
REFORMATS		
THICK/INCR.	STD THN	1.25 q 0.700
ALGORITHM		STANDARD
REFORMATS		COR 3 / SAG 3
ASiR/MODE		40% / PLUS

Estimated CTDI	23.68
Estimated DLP	1107.43

64 SLICE – GE VCT

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.6 SEC	
THICKNESS	3.75	
PITCH	0.984:1	
SPEED	39.37	
INTERVAL	3.75	
GANTRY TILT		
SCAN FOV	LARGE BODY	
kVp	120	
mA	AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	16.04	
DOSE REDUCTION	40%	
ASiR/MODE	40% / PLUS	
ALGORITHM	STD	STANDARD
REFORMATS		
THICK/INCR.	STD THN	0.625 q 0.625
ALGORITHM		STANDARD
REFORMATS		COR 3 / SAG 3
ASiR/MODE		40% / PLUS-E

Estimated CTDI	18.83
Estimated DLP	975.48

196(2) – SIEMENS FORCE

PARAMETER	DE A/P W/	
SCAN TYPE		
ROTATION TIME	0.5 SEC	
THICKNESS	3.0mm	
PITCH	0.6	
SPEED		
INTERVAL	3.0mm	
GANTRY TILT		
SCAN FOV		
kVp	100 / Sn150	
mAs	CARE Dose4D	
NOISE INDEX		
DOSE REDUCTION		
DFOV	<TO PATIENT>	
PREP GROUP	70 SEC	
KERNEL	STD	Br36
ADMIRE		3
THICK/INCR.	DE #PP STD THN	1.5 q 1.0
KERNEL		Qr40
ADMIRE		3
THICK/INCR.	COR 3	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	SAG 3	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	STD THN	0.6 q 0.6
KERNEL		Br36
ADMIRE		3

Estimated CTDI	10.48
Estimated DLP	

PARAMETER	DE A/P W/O	
SCAN TYPE		
ROTATION TIME	0.5 SEC	
THICKNESS	3.0mm	
PITCH	0.6	
SPEED		
INTERVAL	3.0mm	
GANTRY TILT		
SCAN FOV		
kVp	100 / Sn150	
mAs	CARE Dose4D	
NOISE INDEX		
DOSE REDUCTION		
DFOV	<TO PATIENT>	
PREP GROUP		
KERNEL	STD	Br36
ADMIRE	WO	3
THICK/INCR.	DE	1.5 q 1.0
KERNEL	#PP	Br36
ADMIRE	STD THN WO	3
THICK/INCR.	COR 3 WO	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	SAG 3 WO	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	STD THN WO	0.6 q 0.6
KERNEL		Br36
ADMIRE		3

Estimated CTDI	10.48
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

ABDOMEN/PELVIS

PARAMETER	XXL A/P	
SCAN TYPE		
ROTATION TIME	0.5 SEC	
THICKNESS	3.0mm	
PITCH	1.0	
SPEED		
INTERVAL	3.0mm	
GANTRY TILT		
SCAN FOV		
kVp	CARE kV – ON	
mAs	CARE Dose4D	
NOISE INDEX		
DOSE REDUCTION		
DFOV	<TO PATIENT>	
PREP GROUP	70 SEC	
KERNEL	STD	Br36
ADMIRE		3
THICK/INCR.	STD THN	0.6 q 0.6
KERNEL		Br36
ADMIRE		3
THICK/INCR.	COR 3	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	SAG 3	3.0 q 3.0
KERNEL		Br36
ADMIRE		3

Estimated CTDI	9.83
Estimated DLP	

ABDOMEN/PELVIS

PARAMETER	XXL A/P WO	
SCAN TYPE		
ROTATION TIME	0.5 SEC	
THICKNESS	3.0mm	
PITCH	1.0	
SPEED		
INTERVAL	3.0mm	
GANTRY TILT		
SCAN FOV		
kVp	CARE kV – ON	
mAs	CARE Dose4D	
NOISE INDEX		
DOSE REDUCTION		
DFOV	<TO PATIENT>	
PREP GROUP		
KERNEL	STD	Br36
ADMIRE		3
THICK/INCR.	COR 3	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	SAG 3	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	STD THN	0.6 q 0.6
KERNEL		Br36
ADMIRE		3

Estimated CTDI	9.83
Estimated DLP	

ABDOMEN/PELVIS

PARAMETER	XXL A/P W/O		XXL AP W/	
SCAN TYPE				
ROTATION TIME	0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		3.0mm	
PITCH	1.0		1.0	
SPEED				
INTERVAL	3.0mm		3.0mm	
GANTRY TILT				
SCAN FOV				
kVp	CARE kV – ON		CARE kV – ON	
mAs	CARE Dose4D		CARE Dose4D	
NOISE INDEX				
DOSE REDUCTION				
DFOV	<TO PATIENT>		<TO PATIENT>	
PREP GROUP			70 SEC	
KERNEL	STD WO	Br36	STD	Br36
ADMIRE		3		3
THICK/INCR.	COR 3 WO	3.0 q 3.0	STD THN	0.6 q 0.6
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	SAG 3 WO	3.0 q 3.0	COR 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	STD THN WO	0.6 q 0.6	SAG 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3

Estimated CTDI	19.66
Estimated DLP	

ABDOMEN/PELVIS

ADRENAL

REVISED: 8/24/18

INDICATION	TO CHARACTERIZE AN ADRENAL LESION; NOT ALWAYS NEEDED FOR FOLLOW UP. ONCE A LESION HAS BEEN CHARACTERIZED, IF F/U IS FOR GROWTH ONLY, YOU DON'T NEED A 3 PHASE SCAN.
ORAL PREP	NONE
SCAN	<ol style="list-style-type: none"> 1. NON-CONTRAST – ADRENALS ONLY 2. PV PHASE – ENTIRE ABDOMEN 3. 15 MINUTE DELAY – ADRENALS ONLY
RECON	<ul style="list-style-type: none"> • 2.5mm / 3.0mm AXIAL RECONS – STANDARD ALGORITHM – ALL PHASES • 0.6 / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM – ALL PHASES
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL – ALL PHASES
3D POST PROCESSING	NONE

IV SIZE	18g OR 20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4-5cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGM
BREATHING	EXPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER	NON-CONTRAST	PV PHASE	DELAYED
START	ABOVE ADRENALS	ABOVE DIAPHRAGM	ABOVE ADRENALS
END	BELOW ADRENALS	ILIAC CREST	BELOW ADRENALS
DFOV	<TO PATIENT>	<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE	NONE	70 SEC
	SIEMENS	NONE	70 SEC
			15 MINUTE
			15 MINUTE

16 SLICE – GE

PARAMETER	NON-CONTRAST		PV PHASE		DELAYED	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC		0.6 SEC	
THICKNESS	2.5		2.5		2.5	
PITCH	1.375:1		1.375:1		1.375:1	
SPEED	27.50		27.50		27.50	
INTERVAL	2.5		2.5		2.5	
GANTRY TILT						
SCAN FOV	LARGE		LARGE		LARGE	
kVp	120		120		120	
mA	AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	19.67		19.67		19.67	
DOSE REDUCTION						
ASIR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD WO	STANDARD	STD	STANDARD	STD Delay	STANDARD
REFORMATS						
THICK/INCR.	STD THN WO	1.25 q 0.700	STD THN	1.25 q 0.700	STD THN Delay	1.25 q 0.700
ALGORITHM		STANDARD		STANDARD		STANDARD
REFORMATS		COR 3 WO / SAG 3 WO		COR 3 / SAG 3		COR 3 Delay / SAG 3 Delay
ASIR/MODE		40% / PLUS		40% / PLUS		40% / PLUS

Estimated CTDI	53.28
Estimated DLP	837.18

64 SLICE – GE VCT

PARAMETER	NON-CONTRAST		PV PHASE		DELAYED	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC		0.6 SEC	
THICKNESS	2.5		2.5		2.5	
PITCH	0.984:1		0.984:1		0.984:1	
SPEED	39.37		39.37		39.37	
INTERVAL	2.5		2.5		2.5	
GANTRY TILT						
SCAN FOV	LARGE BODY		LARGE BODY		LARGE BODY	
kVp	120		120		120	
mA	AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	16.50		16.50		16.50	
DOSE REDUCTION	40%		40%		40%	
ASIR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD WO	STANDARD	STD	STANDARD	STD Delay	STANDARD
REFORMATS						
THICK/INCR.	STD THN WO	0.625 q 0.625	STD THN	0.625 q 0.625	STD THN Delay	0.625 q 0.625
ALGORITHM		STANDARD		STANDARD		STANDARD
REFORMATS		COR 3 WO / SAG 3 WO		COR 3 / SAG 3		COR 3 Delay / SAG 3 Delay
ASiR/MODE		40% / PLUS-E		40% / PLUS-E		40% / PLUS-E

Estimated CTDI	32.58
Estimated DLP	655.72

196(2) – SIEMENS FORCE

PARAMETER	WO		W/		15 MIN DELAY	
SCAN TYPE						
ROTATION TIME	0.5 SEC		0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		3.0mm		3.0mm	
PITCH	0.6		0.6		0.6	
SPEED						
INTERVAL	3.0mm		3.0mm		3.0mm	
GANTRY TILT						
SCAN FOV						
kVp	100 / Sn150		100 / Sn150		100 / Sn150	
mAs	CARE Dose4D		CARE Dose4D		CARE Dose4D	
NOISE INDEX						
DOSE REDUCTION						
DFOV	<TO PATIENT>		<TO PATIENT>		<TO PATIENT>	
PREP GROUP			70 SEC		15 MINS	
KERNEL	STD	Br36	STD	Br36	STD	Br36
ADMIRE	WO	3		3	Delay	3
THICK/INCR.	DE	1.5 q 1.0	DE	1.5 q 1.0	DE	1.5 q 1.0
KERNEL	#PP	Br36	#PP	Qr40	#PP	Qr40
ADMIRE	STD		STD		STD	3
	THN		THN		THN	
	WO	3		3	Delay	
THICK/INCR.	COR 3	3.0 q 3.0	COR 3	3.0 q 3.0	COR 3	3.0 q 3.0
KERNEL	WO	Br36		Br36	Delay	Br36
ADMIRE		3		3		3
THICK/INCR.	SAG 3	3.0 q 3.0	SAG 3	3.0 q 3.0	SAG 3	3.0 q 3.0
KERNEL	WO	Br36		Br36	Delay	Br36
ADMIRE		3		3		3
THICK/INCR.	STD	0.6 q 0.6	STD	0.6 q 0.6	STD	0.6 q 0.6
KERNEL	THN	Br36	THN	Br36	THN	Br36
ADMIRE	WO	3		3	Delay	3

Estimated CTDI	31.44
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

*** XXL PATIENTS – SEE [XXL MULTIPHASE A/P](#)***

ADRENAL

CHEST/ABDOMEN/PELVIS

REVISED: 8/24/18

INDICATION	
ORAL PREP	SELECT FROM LIST
SCAN	PV PHASE 60-70 SEC AFTER INJECTION STARTS
RECON	<ul style="list-style-type: none">• 3.0mm / 3.75mm AXIAL RECONS - STANDARD ALGORITHM• 0.6mm / 0.625mm / 1.25mm AXIAL RECONS - STANDARD ALGORITHM• 3.0mm / 3.75mm AXIAL RECONS - LUNG ALGORITHM
REFORMAT	<ul style="list-style-type: none">○ 3mm CORONAL AND SAGITTAL
3D POST PROCESSING	NONE

IV SIZE		
IV CONTRAST	WEIGHT BASED	
INJECTION RATE		
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	STERNAL NOTCH
	SIEMENS	ABOVE SHOULDERS
BREATHING		INSPIRATION
SCOUTS		AP AND LATERAL

PARAMETER		SCAN
START		ABOVE APICES
END		BELOW SYMPHYSIS PUBIS
DFOV		<TO PATIENT>
PREP GROUP	GE	70 SEC
	SIEMENS	70 SEC

16 SLICE – GE

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.8 SEC	
THICKNESS	3.75	
PITCH	1.375:1	
SPEED	27.50	
INTERVAL	3.75	
GANTRY TILT		
SCAN FOV	LARGE	
kVp	120	
mA	AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	17.91	
DOSE REDUCTION		
ASiR/MODE	40% / PLUS	
ALGORITHM	STD	STANDARD
REFORMATS		
THICK/INCR.	Lung	3.75 q 3.75
ALGORITHM		LUNG
REFORMATS		
ASiR/MODE		40% / FULL
THICK/INCR.	STD THN	1.25 q 0.700
ALGORITHM		STANDARD
REFORMATS		COR 3 / SAG 3
ASiR/MODE		40% / PLUS

Estimated CTDI	10.87
Estimated DLP	700.03

CHEST/ABDOMEN/PELVIS

64 SLICE – GE VCT

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.5 SEC	
THICKNESS	3.75	
PITCH	0.984:1	
SPEED	39.37	
INTERVAL	3.75	
GANTRY TILT		
SCAN FOV	LARGE BODY	
kVp	120	
mA	AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	15.24	
DOSE REDUCTION	40%	
ASiR/MODE	40% / PLUS	
ALGORITHM	STD	STANDARD
REFORMATS		
THICK/INCR.	Lung	3.75 q 3.75
ALGORITHM		LUNG
REFORMATS		
ASiR/MODE		40% / FULL
THICK/INCR.	STD THN	0.625 q 0.625
ALGORITHM		STANDARD
REFORMATS		COR 3 / SAG 3
ASiR/MODE		40% / PLUS-E

Estimated CTDI	15.79
Estimated DLP	1096.74

CHEST/ABDOMEN/PELVIS

196(2) – SIEMENS FORCE

PARAMETER	DE CAP W/	
SCAN TYPE		
ROTATION TIME	0.5 SEC	
THICKNESS	3.0mm	
PITCH	0.6	
SPEED		
INTERVAL	3.0mm	
GANTRY TILT		
SCAN FOV		
kVp	100 / Sn 150	
mAs	CARE Dose4D	
NOISE INDEX		
DOSE REDUCTION		
DFOV	<TO PATIENT>	
PREP GROUP	70 SEC	
KERNEL	STD	Br36
ADMIRE		3
THICK/INCR.	DE #PP STD THN	1.5 q 1.0
KERNEL		Qr40
ADMIRE		3
THICK/INCR.	STD THN	0.6 q 0.6
KERNEL		Br36
ADMIRE		3
THICK/INCR.	Lung	3.0 q 3.0
KERNEL		BI57
ADMIRE		3
THICK/INCR.	COR 3	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	SAG 3	3.0 q 3.0
KERNEL		Br36
ADMIRE		3

Estimated CTDI	10.48
Estimated DLP	

CHEST/ABDOMEN/PELVIS

PARAMETER	DE CAP W/O	
SCAN TYPE		
ROTATION TIME	0.5 SEC	
THICKNESS	3.0mm	
PITCH	0.6	
SPEED		
INTERVAL	3.0mm	
GANTRY TILT		
SCAN FOV		
kVp	100 / Sn 150	
mAs	CARE Dose4D	
NOISE INDEX		
DOSE REDUCTION		
DFOV	<TO PATIENT>	
PREP GROUP		
KERNEL	STD	Br36
ADMIRE	WO	3
THICK/INCR.	DE	1.5 q 1.0
KERNEL	#PP	Qr40
ADMIRE	STD THN WO	3
THICK/INCR.	Lung WO	3.0 q 3.0
KERNEL		BI57
ADMIRE		3
THICK/INCR.	COR 3 WO	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	SAG 3 WO	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	STD THN WO	0.6 q 0.6
KERNEL		Br36
ADMIRE		3

Estimated CTDI	10.48
Estimated DLP	

CHEST/ABDOMEN/PELVIS

CHEST/ABDOMEN/PELVIS & NECK

REVISED: 8/24/18

INDICATION	
ORAL PREP	SELECT FROM LIST
SCAN	PV C/A/P ~70 SECONDS AFTER START OF INJECTION WITH NECK SCAN TO IMMEDIATELY FOLLOW
RECON	<ul style="list-style-type: none"> • 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM (C/A/P) • 2.0mm / 2.5mm AXIAL RECONS – STANDARD ALGORITHM (NECK) • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM (C/A/P) • 0.625mm / 1.25MM AXIAL RECONS– DETAIL ALGORITHM (NECK) – GE SCANNERS • 0.6mm AXIAL RECONS – STANDARD ALGORITHM (NECK) – FORCE SCANNER • 3.0mm / 3.75mm AXIAL RECONS – LUNG ALGORITHM
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL (C/A/P) ○ 2mm CORONAL AND SAGITTAL (NECK)
3D POST PROCESSING	NONE

IV SIZE		
IV CONTRAST		110cc OMNIPAQUE 350
INJECTION RATE		
PT POSITION		SUPINE / FEET FIRST / ARMS UP (C/A/P) / ARMS DOWN (NECK)
LANDMARK	GE	STERNAL NOTCH
	SIEMENS	ABOVE EARS
BREATHING		INSPIRATION
SCOUTS		AP AND LATERAL (ARMS DOWN)

PARAMETER		C/A/P	NECK
START		ABOVE APICES	TOP OF EAR
END		BELOW SYMPHYSIS PUBIS	BELOW CLAVICLES
DFOV		<TO PATIENT>	20
PREP GROUP	GE	70 SEC	
	SIEMENS	70 SEC	

16 SLICE – GE

PARAMETER	GROUP 1 (C/A/P)		GROUP 2 (NECK)	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.8 SEC		0.8 SEC	
THICKNESS	3.75		2.5	
PITCH	1.375:1		1.375:1	
SPEED	27.50		27.50	
INTERVAL	3.75		2.5	
GANTRY TILT				
SCAN FOV	LARGE		LARGE	
kVp	120		120	
mA	AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	17.91		14.56	
DOSE REDUCTION				
ASiR/MODE	40% / PLUS		30% / PLUS	
ALGORITHM	STD	STANDARD	STD	STANDARD
REFORMATS	CAP- Neck		CAP- Neck	
THICK/INCR.	STD CAP	3.75 q 3.75		
ALGORITHM		STANDARD		
REFORMATS				
ASiR/MODE		40% / PLUS		
THICK/INCR.			STD Neck	2.5 q 2.5
ALGORITHM				STANDARD
REFORMATS				
ASiR/MODE				30% / PLUS
THICK/INCR.	Lung	3.75 q 3.75		1.25 q 0.700
ALGORITHM		LUNG		DETAIL
REFORMATS				COR/SAG (NECK)
ASiR/MODE		40% / FULL		30% / PLUS
THICK/INCR.	STD THN CAP	1.25 q 0.700		
ALGORITHM		STANDARD		
REFORMATS		COR 3 / SAG 3		
ASiR/MODE		40% / PLUS		
THICK/INCR.			Detail THN Neck	1.25 q 0.700
ALGORITHM				Detail
REFORMATS				COR 2 / SAG 2
ASiR/MODE				30% / PLUS

Estimated CTDI	21.74
Estimated DLP	934.18

64 SLICE – GE VCT

PARAMETER	GROUP 1 (C/A/P)		GROUP 2 (NECK)	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.5 SEC		0.5 SEC	
THICKNESS	3.75		2.5	
PITCH	0.984:1		0.984:1	
SPEED	39.37		39.37	
INTERVAL	3.75		2.5	
GANTRY TILT				
SCAN FOV	LARGE BODY		LARGE BODY	
kVp	120		120	
mA	AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	15.24		13.20	
DOSE REDUCTION	40%		30%	
ASIR/MODE	40% / PLUS		30% / PLUS	
ALGORITHM	STD CAP- Neck	STANDARD	STD CAP- Neck	DETAIL
REFORMATS				
THICK/INCR.	STD CAP	3.75 q 3.75		
ALGORITHM		STANDARD		
REFORMATS				
ASIR/MODE		40% / PLUS		
THICK/INCR.			STD Neck	2.5 q 2.5
ALGORITHM				DETAIL
REFORMATS				
ASIR/MODE				30% / PLUS
THICK/INCR.	Lung	3.75 q 3.75		
ALGORITHM		LUNG		
REFORMATS				
ASIR/MODE		40% / FULL		
THICK/INCR.	STD THN CAP	1.25 q 0.700		
ALGORITHM		CHEST		
REFORMATS		COR 3 / SAG 3		
ASIR/MODE		40% / PLUS-E		
THICK/INCR.			Detail THN Neck	0.625 / 0.625
ALGORITHM				Detail
REFORMATS				COR 2 / SAG 2
ASIR/MODE				30% / PLUS-E

CHEST/ABDOMEN/PELVIS & NECK

Estimated CTDI	31.42
Estimated DLP	1388.57

CHEST/ABDOMEN/PELVIS & NECK

196(2) – SIEMENS FORCE

PARAMETER	DE CAP		DE ST NECK	
SCAN TYPE				
ROTATION TIME	0.5 SEC		0.25 SEC	
THICKNESS	3.0mm		2.0mm	
PITCH	0.6		0.7	
SPEED				
INTERVAL	3.0mm		2.0mm	
GANTRY TILT				
SCAN FOV				
kVp	100 / Sn150		90 / Sn150	
mAs	CARE Dose4D		CARE Dose4D	
NOISE INDEX				
DOSE REDUCTION				
DFOV	<TO PATIENT>		20	
PREP GROUP	70 SEC			
KERNEL	STD	Br36	STD	Br40
ADMIRE		3		1
THICK/INCR.	DE #PP STD THN	1.5 q 1.0	DE#PP STD THN	0.75 q 0.5
KERNEL		Qr40		Qr40
ADMIRE		3		3
THICK/INCR.	LUNG	3.0 q 3.0	COR 2	2.0 q 2.0
KERNEL		BI57		Br40
ADMIRE		3		3
THICK/INCR.	COR 3	3.0 q 3.0	SAG 2	2.0 q 2.0
KERNEL		Br36		Br40
ADMIRE		3		3
THICK/INCR.	SAG 3	3.0 q 3.0	STD THN	0.6 q 0.6
KERNEL		Br36		Br40
ADMIRE		3		1
THICK/INCR.	STD THN	0.6 q 0.6		
KERNEL		Br36		
ADMIRE		3		

Estimated CTDI	14.45
Estimated DLP	

CHEST/ABDOMEN/PELVIS & NECK

CTA ABDOMEN/PELVIS

REVISED: 8/24/18

INDICATION	AAA WORK-UP
ORAL PREP	NONE
SCAN	ARTERIAL PHASE ABDOMEN/PELVIS
RECON	<ul style="list-style-type: none"> • 3.0mm / 2.5mm AXIAL RECON – STANDARD ALGORITHM • 0.6mm / 0.625mm / 1.25mm AXIAL RECON – STANDARD ALGORITHM
REFORMAT	○ 3.0mm q 1.5mm MIP CORONAL AND SAGITTAL
3D POST PROCESSING	<ul style="list-style-type: none"> ✓ 3D ROTATION AORTA ✓ MIP ROTATION AORTA / RT ILIAC / LT ILIAC ✓ MAX VESSEL MEASUREMENT

IV SIZE	18g OR 20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4-5cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGMS
BREATHING	INSPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER		CTA
START		ABOVE DIAPHRAGM
END		BELOW SYMPHYSIS PUBIS
DFOV		<TO PATIENT>
PREP GROUP	GE	SMART PREP JUST ABOVE CELIAC ARTERY
	SIEMENS	SMART PREP @ RENALS

16 SLICE – GE

PARAMETER	SMART PREP		CTA	
SCAN TYPE			HELICAL FULL	
ROTATION TIME			0.8 SEC	
THICKNESS			2.5	
PITCH			1.375:1	
SPEED			27.50	
INTERVAL			2.5	
GANTRY TILT				
SCAN FOV			LARGE	
kVp			100	
mA	10		AUTO mA TO 420 W/ SMART mA	
NOISE INDEX			16.48	
DOSE REDUCTION				
ASiR/MODE			50% / PLUS	
ALGORITHM			STD	STANDARD
REFORMATS				
THICK/INCR.			STD THN	1.25 q 0.700
ALGORITHM				STANDARD
REFORMATS				COR MIP / SAG MIP
ASiR/MODE				50% / PLUS

Estimated CTDI	28.52
Estimated DLP	396.08

64 SLICE – GE VCT

PARAMETER	SMART PREP		CTA	
SCAN TYPE			HELICAL FULL	
ROTATION TIME			0.6 SEC	
THICKNESS			2.5	
PITCH			0.984:1	
SPEED			39.37	
INTERVAL			2.5	
GANTRY TILT				
SCAN FOV			LARGE BODY	
kVp			100	
mA	10		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX			12.73	
DOSE REDUCTION			50%	
ASIR/MODE			50% / PLUS	
ALGORITHM			STD	STANDARD
REFORMATS				
THICK/INCR.			STD THN	0.625 q 0.625
ALGORITHM				STANDARD
REFORMATS				COR MIP / SAG MIP
ASIR/MODE				50% / PLUS-E

Estimated CTDI	26.71
Estimated DLP	411.87

196(2) – SIEMENS FORCE

PARAMETER	PREMONITORING / SMART PREP		DE AAA	
SCAN TYPE	FULL			
ROTATION TIME	0.5 SEC		0.5 SEC	
THICKNESS	10.0mm		3.0mm	
PITCH			0.7	
SPEED				
INTERVAL	0.0mm		3.0mm	
GANTRY TILT				
SCAN FOV				
kVp	100		90 / Sn150	
mAs	23		CARE Dose4D	
NOISE INDEX				
DOSE REDUCTION				
DFOV	30		<TO PATIENT>	
PREP GROUP	10 SEC		SMART PREP	
KERNEL		Br36		Bv36
ADMIRE			STD	3
THICK/INCR.			DE	1.5 q 1.0
KERNEL			#PP	Qr40
ADMIRE			STD THN	3
THICK/INCR.			COR	3.0 q 1.5
KERNEL			MIP	Bv36
ADMIRE				3
THICK/INCR.			SAG	3.0 q 1.5
KERNEL			MIP	Bv36
ADMIRE				3
THICK/INCR.			STD	0.6 q 0.6
KERNEL			THN	Bv36
ADMIRE				3

Estimated CTDI	30.40
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

FOR XXL AAA SEE [AAA W/ DELAY](#)

CTA ABODMEN/PELVIS

CTA ABDOMEN/PELVIS W/ DELAY

REVISED: 8/24/18

INDICATION	F/U REPAIR
ORAL PREP	NONE
SCAN	<ol style="list-style-type: none"> 1. ARTERIAL ABDOMEN/PELVIS 2. 3-5 MIN DELAY THROUGH STENT
RECON	<ul style="list-style-type: none"> • 2.5mm / 3.0mm AXIAL RECON – STANDARD ALGORITHM (CTA) • 0.6mm / 0.625mm / 1.25mm AXIAL RECON – STANDARD ALGORITHM (CTA) • 3.0mm / 3.75mm AXIAL RECON – STANDARD ALGORITHM (DELAY)
REFORMAT	<ul style="list-style-type: none"> ○ 3.0mm q 1.25mm MIP CORONAL AND SAGITTAL
3D POST PROCESSING	<ul style="list-style-type: none"> ✓ 3D ROTATION AORTA ✓ MIP ROTATION AORTA / RT ILIAC / LT ILIAC ✓ MAX VESSEL MEASUREMENT

IV SIZE	18g OR 20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4-5cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGMS
BREATHING	INSPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER		CTA	DELAY
START		ABOVE DIAPHRAGM	ABOVE STENT
END		BELOW SYMPHYSIS PUBIS	BELOW STENT
DFOV		<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE	SMART PREP JUST ABOVE CELIAC ARTERY	3-5 MINUTES
	SIEMENS	SMART PREP @ RENAL ARTERY	3-5 MINUTES

16 SLICE – GE

PARAMETER	SMART PREP		CTA		DELAY	
SCAN TYPE			HELICAL FULL		HELICAL FULL	
ROTATION TIME			0.5 SEC		0.5 SEC	
THICKNESS			2.5		3.75	
PITCH			1.375:1		1.375:1	
SPEED			27.50		27.50	
INTERVAL			2.5		3.75	
GANTRY TILT						
SCAN FOV			LARGE		LARGE	
kVp			100		120	
mA	25		AUTO mA TO 420 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX			18.75		17.32	
DOSE REDUCTION						
ASiR/MODE			50% / PLUS		50% / PLUS	
ALGORITHM			STD	STANDARD	STD Delay	STANDARD
REFORMATS						
THICK/INCR.			STD THN	1.25 q 0.700		
ALGORITHM				STANDARD		
REFORMATS				COR MIP / SAG MIP		
ASiR/MODE				50% / PLUS		

Estimated CTDI	40.04
Estimated DLP	597.33

64 SLICE – GE VCT

PARAMETER	SMART PREP		CTA		DELAY	
SCAN TYPE			HELICAL FULL		HELICAL FULL	
ROTATION TIME			0.5 SEC		0.5 SEC	
THICKNESS			2.5		3.75	
PITCH			0.984:1		0.984:1	
SPEED			39.37		39.37	
INTERVAL			2.5		3.75	
GANTRY TILT						
SCAN FOV			LARGE BODY		LARGE BODY	
kVp			100		120	
mA	25		AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX			15.00		13.86	
DOSE REDUCTION			50%		50%	
ASiR/MODE			50% / PLUS		50% / PLUS	
ALGORITHM			STD	STANDARD	STD Delay	STANDARD
REFORMATS						
THICK/INCR.			STD THN	0.625 q 0.625		
ALGORITHM				STANDARD		
REFORMATS				COR MIP / SAG MIP		
ASiR/MODE				50% / PLUS-E		

Estimated CTDI	25.39
Estimated DLP	531.23

196(2) – SIEMENS FORCE

PARAMETER	PREMONITORING / SMART PREP		AAA		DELAY	
SCAN TYPE	FULL					
ROTATION TIME	0.5 SEC		0.5 SEC		0.5 SEC	
THICKNESS	10.0mm		3.0mm		3.0mm	
PITCH			0.7		0.7	
SPEED						
INTERVAL	0.0mm		3.0mm		3.0mm	
GANTRY TILT						
SCAN FOV						
kVp	100		90 / Sn150		90 / Sn150	
mAs	23		CARE Dose4D		CARE Dose4D	
NOISE INDEX						
DOSE REDUCTION						
DFOV	30		<TO PATIENT>		<TO PATIENT>	
PREP GROUP	10 SEC		SMART PREP		3-5 MINS	
KERNEL		Br36	STD	Bv36	STD Delay	Bv36
ADMIRE				3		3
THICK/INCR.			DE #PP STD THN	1.5 q 1.0	DE #PP STD THN Delay	1.5 q 1.0
KERNEL				Qr40		Qr40
ADMIRE				3		3
THICK/INCR.			STD THN	0.6 q 0.6		
KERNEL				Bv36		
ADMIRE				3		
THICK/INCR.			COR MIP	3.0 q 1.5		
KERNEL				Bv36		
ADMIRE				3		
THICK/INCR.			SAG MIP	3.0 q 1.5		
KERNEL				Bv36		
ADMIRE				3		

Estimated CTDI	35.17
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

XXL AAA

PARAMETER	PREMONITORING / MONITORING		DS ABDOMEN	DELAY		
SCAN TYPE	FULL					
ROTATION TIME	0.5 SEC		0.5 SEC	0.5 SEC		
THICKNESS	10.0mm		3.0mm	3.0mm		
PITCH			0.75	0.75		
SPEED						
INTERVAL	0.0mm		3.0mm	3.0mm		
GANTRY TILT						
SCAN FOV						
kVp	100		CARE kV	CARE kV		
mAs	80		CARE Dose4D	CARE Dose4D		
NOISE INDEX						
DOSE REDUCTION						
DFOV	30.5		<TO PATIENT>	<TO PATIENT>		
PREP GROUP	10 SEC		SMART PREP	3-5 MINS		
KERNEL		Br36		Bv36	STD	Bv36
ADMIRE			STD	3	Delay	3
THICK/INCR.				0.6 q 0.6		
KERNEL			STD THN	Bv36		
ADMIRE				3		
THICK/INCR.				3.0 q 1.5		
KERNEL			COR MIP	Bv36		
ADMIRE				3		
THICK/INCR.				3.0 q 1.5		
KERNEL			SAG MIP	Bv36		
ADMIRE				3		

Estimated CTDI	113.84
Estimated DLP	

CTA LOWER EXTREMITY RUNOFF

REVISED: 8/24/18

INDICATION	
ORAL PREP	NONE
SCAN	CTA ABDOMEN THROUGH TOES
RECON	<ul style="list-style-type: none"> • 2.5mm / 3.0mm AXIAL RECONS – STANDARD ALGORITHM • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM • 3.75mm AXIAL RECONS – STANDARD ALGORITHM – GE SCANNERS
REFORMAT	<ul style="list-style-type: none"> ○ 3.0mm q 1.5mm MIP CORONAL RECONS IN 3 SEPARATE SERIES WITH OVERLAP: <ul style="list-style-type: none"> ○ ABDOMEN AND PELVIS ○ THIGH ○ LOWER LEG ○ 3.0mm q 1.5mm MIP SAGITTAL RECONS IN 3 SEPARATE SERIES WITH OVERLAP: <ul style="list-style-type: none"> ○ ABDOMEN AND PELVIS ○ THIGH ○ LOWER LEG
3D POST PROCESSING	<ul style="list-style-type: none"> 🚦 BODY BONE REMOVAL STATIC IMAGE (DE SCAN) 🚦 BODY BONE REMOVAL MIP ROTATION (DE SCAN) 🚦 BODY BONE REMOVAL WITHOUT PLAQUES STATIC IMAGE (DE SCAN) 🚦 BODY BONE REMOVAL WITHOUT PLAQUES MIP ROTATION (DE SCAN) 🚦 3D ROTATION ARTERIES (NON DE SCANS) <ul style="list-style-type: none"> ○ ENTIRE SCAN ○ ABDOMEN/PELVIS ○ THIGHS ○ LOWER LEGS 🚦 CURVED MIP ROTATION <ul style="list-style-type: none"> ○ AORTA ○ RT AND LT ILIACS ○ RT AND LT FEMORALS

IV SIZE	18g	
IV CONTRAST	150cc OMNIPAQUE 350	
INJECTION RATE	5cc/SEC	
PT POSITION	SUPINE / FEET FIRST / TOES TAPED TOGETHER	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGMS
BREATHING	INSPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER		CTA
START		ABOVE DIAPHRAGM
END		THROUGH TOES
DFOV		<TO PATIENT>
PREP GROUP	GE	MIRI OR SMART PREP
	SIEMENS	SMART PREP @ RENALS

16 SLICE – GE

PARAMETER	SMART PREP @ CREST		CTA	
SCAN TYPE			HELICAL FULL	
ROTATION TIME			0.6 SEC	
THICKNESS			2.5	
PITCH			1.375:1	
SPEED			27.50	
INTERVAL			2.5	
GANTRY TILT				
SCAN FOV			LARGE	
kVp			100	
mA	40		AUTO mA TO 420	
NOISE INDEX			16.70	
DOSE REDUCTION			40%	
ASiR/MODE			50% / PLUS	
PREP GROUP			SMART PREP	
ALGORITHM			STD	STANDARD
REFORMATS				
THICK/INCR.			STD AP	3.75 q 3.75
ALGORITHM				STANDARD
REFORMATS				
ASiR/MODE				50% / PLUS
THICK/INCR.			STD THN	1.25 q 0.700
ALGORITHM				STANDARD
REFORMATS				COR MIP AP / SAG MIP AP / COR MIP Femur / SAG MIP Femur / COR MIP TIB/FIB / SAG MIP TIB/FIB
ASiR/MODE				50% / PLUS

Estimated CTDI	71.10
Estimated DLP	1288.17

CTA LOWER EXTREMITY RUNOFF

64 SLICE – GE VCT

PARAMETER	SMART PREP @MID ABDOMEN		**CTA	
SCAN TYPE			HELICAL FULL	
ROTATION TIME			0.9 SEC	
THICKNESS			2.5	
PITCH			0.984:1	
SPEED			39.37	
INTERVAL			2.5	
GANTRY TILT				
SCAN FOV			LARGE BODY	
kVp			100	
mA	40		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX			12.73	
DOSE REDUCTION			40%	
ASIR/MODE			40% / PLUS	
ALGORITHM			STD	STANDARD
REFORMATS				
THICK/INCR.			STD AP	3.75 q 3.75
ALGORITHM				STANDARD
REFORMATS				
ASIR/MODE				40% / PLUS
THICK/INCR.			STD THN	0.625 q 0.625
ALGORITHM				STANDARD
REFORMATS				COR MIP AP / SAG MIP AP / COR MIP Femur / SAG MIP Femur / COR MIP TIB/FIB / SAG MIP TIB/FIB
ASIR/MODE				40% / PLUS-E

Estimated CTDI	36.16
Estimated DLP	1026.16

CTA LOWER EXTREMITY RUNOFF

196(2) – SIEMENS FORCE

DE CTA RUNOFF

PARAMETER	PREMONITORING / SMART PREP		DE RUNOFF	
SCAN TYPE	FULL			
ROTATION TIME	1.0 SEC		1.0 SEC	
THICKNESS	10.0mm		3.0mm	
PITCH			0.7	
SPEED				
INTERVAL	0.0mm		3.0mm	
GANTRY TILT				
SCAN FOV				
kVp	100		80 / Sn150	
mAs	23		CARE Dose4D	
NOISE INDEX				
DOSE REDUCTION				
DFOV	30		<TO PATIENT>	
PREP GROUP	10 SEC		SMART PREP	
KERNEL		Br36	STD	Bv36
ADMIRE				3
THICK/INCR.			DE #PP STD THN	1.5 q 1.0
KERNEL				Qr40
ADMIRE				3
THICK/INCR.			STD THN	0.6 q 0.6
KERNEL				Bv36
ADMIRE				3
THICK/INCR.			COR MIP AP	3.0 q 1.5
KERNEL				Bv36
ADMIRE				3
THICK/INCR.			SAG MIP AP	3.0 q 1.5
KERNEL				Bv36
ADMIRE				3
THICK/INCR.			COR MIP Femur	3.0 q 1.5
KERNEL				Bv36
ADMIRE				3
THICK/INCR.			SAG MIP Femur	3.0 q 1.5
KERNEL				Bv36
ADMIRE				3
THICK/INCR.				3.0 q 1.5

CTA LOWER EXTREMITY RUNOFF

KERNEL			COR MIP TIB-FIB	Bv36
ADMIRE				3
THICK/INCR.			SAG MIP TIB-FIB	3.0 q 1.5
KERNEL				Bv36
ADMIRE				3

Estimated CTDI	30.17
Estimated DLP	

CTA MESENTERIC ISCHEMIA

REVISED: 8/24/18

INDICATION	
ORAL PREP	WATER
SCAN	<ol style="list-style-type: none"> 1. CTA ABDOMEN (THROUGH AORTIC BIFURCATION) ARTERIAL PHASE ~ 25 SEC 2. PV PHASE – ABDOMEN AND PELVIS ~60-70 SEC
RECON	<ul style="list-style-type: none"> • 2.5mm / 3.0mm AXIAL RECONS – STANDARD ALGORITHM (ARTERIAL PHASE) • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM (BOTH PHASES) • 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM (PV PHASE)
REFORMAT	<ul style="list-style-type: none"> ○ 3mm q 1.5mm MIP CORONAL AND SAGITTAL – ARTERIAL PHASE ○ 3.0mm CORONAL AND SAGITTAL – PV PHASE
3D POST PROCESSING	<ul style="list-style-type: none"> 📐 3D ROTATION AORTA 📐 2mm MIP DOUBLE OBLIQUE IMAGES VISCERAL ORIGINS 📐 CURVED REFORMAT AORTA

IV SIZE	18g OR 20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGMS
BREATHING	INSPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER	ARTERIAL ABD	PV ABD/PELVIS
START	ABOVE DIAPHRAGM	ABOVE DIAPHRAGM
END	ILIAC CREST	BELOW SYMPHYSIS PUBIS
DFOV	<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE	SMART PREP ABOVE CELIAC ARTERY 70 SEC
	SIEMENS	SMART PREP @ CELIAC 70 SEC

16 SLICE – GE

PARAMETER	SMART PREP		GROUP 1 (ART)		GROUP 2 (PV)	
SCAN TYPE			HELICAL FULL		HELICAL FULL	
ROTATION TIME			0.8 SEC		0.8 SEC	
THICKNESS			2.5		3.75	
PITCH			1.375:1		1.375:1	
SPEED			27.50		27.50	
INTERVAL			2.5		3.75	
GANTRY TILT						
SCAN FOV			LARGE BODY		LARGE BODY	
kVp			100		100	
mA	10		AUTO mA TO 420 W/ SMART mA		AUTO mA TO 420 W/ SMART mA	
NOISE INDEX			16.48		13.46	
DOSE REDUCTION						
ASIR/MODE			50% / PLUS		50% / PLUS	
ALGORITHM			STD	STANDARD	STD	STANDARD
REFORMATS			ART-PV		ART-PV	
THICK/INCR.			STD THN ART	1.25 q 0.700		
ALGORITHM				STANDARD		
REFORMATS				COR MIP / SAG MIP		
ASiR/MODE				50% / PLUS		
THICK/INCR.			STD THN		STD THN	1.25 q 0.700
ALGORITHM						STANDARD
REFORMATS						COR 3 / SAG 3
ASiR/MODE						50% / PLUS

Estimated CTDI	28.52
Estimated DLP	611.19

64 SLICE – GE VCT

PARAMETER	SMART PREP		GROUP 1 (ART)		GROUP 2 (PV)	
SCAN TYPE			HELICAL FULL		HELICAL FULL	
ROTATION TIME			0.5 SEC		0.6 SEC	
THICKNESS			2.5		3.75	
PITCH			0.984:1		0.984:1	
SPEED			39.37		39.37	
INTERVAL			2.5		3.75	
GANTRY TILT						
SCAN FOV			LARGE BODY		LARGE BODY	
kVp			120		120	
mA	10		AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX			15.00		15.93	
DOSE REDUCTION			50%		30%	
ASiR/MODE			50% / PLUS		30% / PLUS	
ALGORITHM			STD	STANDARD	STD	STANDARD
REFORMATS			ART-PV		ART-PV	
THICK/INCR.			STD THN ART	0.625 q 0.625		
ALGORITHM				STANDARD		
REFORMATS				COR MIP / SAG MIP		
ASiR/MODE				50% / PLUS-E		
THICK/INCR.					STD THN	0.625 q 0.625
ALGORITHM						STANDARD
REFORMATS						COR 3 / SAG 3
ASiR/MODE						30% / PLUS-E

Estimated CTDI	49.78
Estimated DLP	1008.25

196(2) – SIEMENS FORCE

PARAMETER	PREMONITORING / SMART PREP		DE ARTERIAL		DE PV	
SCAN TYPE	FULL					
ROTATION TIME	0.5 SEC		0.5 SEC		0.5 SEC	
THICKNESS	10.0mm		3.0mm		3.0mm	
PITCH			0.7		0.7	
SPEED						
INTERVAL	0.0mm		3.0mm		3.0mm	
GANTRY TILT						
SCAN FOV						
kVp	100		90 / Sn150		100 / Sn150	
mAs	23		CARE Dose4D		CARE Dose4D	
NOISE INDEX						
DOSE REDUCTION						
DFOV	30		<TO PATIENT>		<TO PATIENT>	
PREP GROUP	10 SEC		SMART PREP		45 SEC	
KERNEL		Br36	STD ART	Bv36	STD	Br36
ADMIRE				3		3
THICK/INCR.			DE #PP	1.5 q 1.0	DE	1.5 q 1.0
KERNEL			STD THN	Qr40	#PP	Qr40
ADMIRE			ART	3	STD THN	3
THICK/INCR.			COR MIP	3.0 q 1.5	COR 3	3.0 q 3.0
KERNEL			ART	Bv36		Bv36
ADMIRE				3		3
THICK/INCR.			SAG MIP	3.0 q 1.5	SAG 3	3.0 q 3.0
KERNEL			ART	Bv36		Bv36
ADMIRE				3		3
THICK/INCR.			STD THN	0.6 q0.6	STD THN	0.6 q 0.6
KERNEL			ART	Bv36		Br36
ADMIRE				3		3

Estimated CTDI	37.37
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

*** XXL PATIENTS – SEE [XXL MULTIPHASE A/P](#)***

CTA PULMONARY ARTERIES & ABDOMEN/PELVIS

REVISED: 8/24/18

INDICATION	
ORAL PREP	SELECT FROM LIST
SCAN	<ol style="list-style-type: none"> 1. CTA CHEST (TIMED OFF PULMONARY ARTERY) 2. PV ABDOMEN/PELVIS ~60-70 SEC AFTER START OF INJECTION
RECON	<ul style="list-style-type: none"> • 2.5mm / 3.0mm AXIAL RECONS - STANDARD ALGORITHM (CHEST) • 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM (A/P) • 2.5mm / 3.0mm AXIAL RECONS - LUNG ALGORITHM • 1.25mm / 1.5mm AXIAL RECONS - STANDARD ALGORITHM (CHEST) • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM (A/P)
REFORMAT	<ul style="list-style-type: none"> ○ 3mm q 1.5mm MIP CORONAL AND SAGITTAL (CHEST) ○ 3mm CORONAL AND SAGITTAL (BOTH)
3D POST PROCESSING	NONE

IV SIZE	18g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	5cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	STERNAL NOTCH
	SIEMENS	ABOVE SHOULDERS
BREATHING	INSPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER		CTA CHEST	PV ABD/PELVIS
START		ABOVE APICES	ABOVE DIAPHRAGM
END		BELOW DIAPHRAGM	BELOW SYMPHYSIS PUBIS
DFOV		<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE	MIROI + 4 SEC OR SMART PREP	70 SEC
	SIEMENS	SMART PREP @ PULMONARY ARTERY	70 SEC

16 SLICE – GE

PARAMETER	MIROI	GROUP 1 (PE)		GROUP 2 (A/P)	
SCAN TYPE	AXIAL FULL	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.5 SEC	0.5 SEC		0.8 SEC	
THICKNESS	5.0	2.5		3.75	
PITCH		0.938:1		1.375:1	
SPEED		18.75		27.50	
INTERVAL	0.0	2.5		3.75	
GANTRY TILT					
SCAN FOV	LARGE	LARGE		LARGE	
kVp	120	100		120	
mA	40	AUTO mA TO 420 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX		18.26		18.80	
DOSE REDUCTION					
ASiR/MODE	0% / FULL	40% / PLUS		40% / PLUS	
ALGORITHM	STANDARD	STD	STANDARD	STD	STANDARD
REFORMATS					
THICK/INCR.		Lung	3.75 q 3.75		
ALGORITHM			LUNG		
REFORMATS					
ASiR/MODE			40% / FULL		
THICK/INCR.		STD THN Chest	1.25 q 0.700		
ALGORITHM			STANDARD		
REFORMATS			COR MIP / SAG MIP / COR 3 Chest SAG 3 Chest		
ASiR/MODE			40% / PLUS		
THICK/INCR.				STD THN AP	1.25 q 0.700
ALGORITHM					STANDARD
REFORMATS					COR 3 AP / SAG 3 AP
ASiR/MODE					40% / PLUS

Estimated CTDI	109.25
Estimated DLP	1237.76

64 SLICE – GE VCT

PARAMETER	MIROI	GROUP 1 (PE)		GROUP 2 (A/P)	
SCAN TYPE	AXIAL FULL	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.5 SEC	0.9 SEC		0.6 SEC	
THICKNESS	5.0	2.5		3.75	
PITCH		0.984:1		0.984:1	
SPEED		39.37		39.37	
INTERVAL	0.0	2.5		3.75	
GANTRY TILT					
SCAN FOV	LARGE BODY	LARGE BODY		LARGE BODY	
kVp	120	100		120	
mA	60	AUTO mA TO 380 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX		15.86		16.03	
DOSE REDUCTION		40%		40%	
ASIR/MODE	0% / FULL	40% / PLUS		40% / PLUS	
ALGORITHM	STANDARD	STD	STANDARD	STD	STANDARD
REFORMATS					
THICK/INCR.		Lung	3.75 q 3.75		
ALGORITHM			LUNG		
REFORMATS					
ASIR/MODE			40% / FULL		
THICK/INCR.		STD THN Chest	1.25 q 0.700		
ALGORITHM			STANDARD		
REFORMATS			COR MIP / SAG MIP / COR 3 Chest / SAG 3 Chest		
ASIR/MODE			40% / PLUS-E		
THICK/INCR.					
ALGORITHM				STANDARD	
REFORMATS				COR 3 AP / SAG 3 AP	
ASIR/MODE				40% / PLUS-E	

Estimated CTDI	97.43
Estimated DLP	766.78

196(2) – SIEMENS FORCE

PARAMETER	PREMONITORING / SMART PREP		TF PE		DE AP	
SCAN TYPE	FULL					
ROTATION TIME	0.25 SEC		0.25 SEC		0.5 SEC	
THICKNESS	10.0mm		3.0mm		3.0mm	
PITCH			2.6		0.6	
SPEED						
INTERVAL	0.0mm		3.0mm		3.0mm	
GANTRY TILT						
SCAN FOV						
kVp	100		CARE kV		100 / Sn150	
mAs	23		CARE Dose4D		CARE Dose4D	
NOISE INDEX						
DOSE REDUCTION						
DFOV	30		<TO PATIENT>		<TO PATIENT>	
PREP GROUP	6 SEC		SMART PREP		70 SEC	
KERNEL		Br36	STD	Bv36	STD	Br36
ADMIRE			Chest	3	AP	3
THICK/INCR.			STD	1.5 q 1.0	DE	1.5 q 1.0
KERNEL			THN	Bv36	#PP	Qr40
ADMIRE			Chest	3	STD THN	3
THICK/INCR.				3.0 q 3.0		3.0 q 3.0
KERNEL			Lung	BI57	COR 3 AP	Br36
ADMIRE				3		3
THICK/INCR.				3.0 q 1.5		3.0 q 3.0
KERNEL			COR MIP	Br36	SAG 3 AP	Br36
ADMIRE				3		3
THICK/INCR.				3.0 q 1.5	STD	0.6 q 0.6
KERNEL			SAG MIP	Br36	THN AP	Br36
ADMIRE				3		3
THICK/INCR.				3.0 q 3.0		
KERNEL			COR 3 Chest	Br36		
ADMIRE				3		
THICK/INCR.				3.0 q 3.0		
KERNEL			SAG 3 Chest	Br36		
ADMIRE				3		

Estimated CTDI	34.52
Estimated DLP	

CTA THORAX/ABDOMEN/PELVIS

REVISED: 8/24/18

INDICATION	
ORAL PREP	NONE
SCAN	ARTERIAL CHEST/ABDOMEN/PELVIS
RECON	<ul style="list-style-type: none"> • 3.0mm AXIAL RECON – STANDARD ALGORITHM (NON-CONTRAST) • 1.5mm AXIAL RECON – STANDARD ALGORITHM (NON-CONTRAST) • 2.5mm / 3.0mm AXIAL RECONS – STANDARD ALGORITHM (ARTERIAL) • 3.0mm / 3.75mm AXIAL RECONS – LUNG ALGORITHM • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM • 3.0mm AXIAL RECON – STANDARD ALGORITHM (DELAY)
REFORMAT	<ul style="list-style-type: none"> ○ 3.0mm q 1.5mm MIP CORONAL AND SAGITTAL (NON-CONTRAST AND ARTERIAL)
3D POST PROCESSING	<ul style="list-style-type: none"> ✚ 3D ROTATION AORTA ✚ CURVED REFORMATS AORTA AND BOTH ILIACS ✚ MAX VESSEL MEASUREMENT

IV SIZE	18g OR 20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4-5cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	STERNAL NOTCH
	SIEMENS	ABOVE SHOULDERS
BREATHING	INSPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER		NON-CONTRAST	SCAN	DELAY
START		ABOVE APICES	ABOVE APICES	ABOVE STENT GRAFT
END		BELOW DIAPHRAGMS	SYMPHYISIS PUBIS	BELOW STENT GRAFT
DFOV		<TO PATIENT>	<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE		SMART PREP @ AORTIC ARCH	
	SIEMENS		SMART PREP @ RENALS	3-5 MINS

16 SLICE – GE

PARAMETER	SMART PREP		CTA	
SCAN TYPE			HELICAL FULL	
ROTATION TIME			0.6 SEC	
THICKNESS			2.5	
PITCH			1.375:1	
SPEED			27.50	
INTERVAL			2.5	
GANTRY TILT				
SCAN FOV			LARGE	
kVp			100	
mA	10		AUTO mA TO 420 W/ SMART mA	
NOISE INDEX			16.70	
DOSE REDUCTION				
ASiR/MODE			50% / PLUS	
ALGORITHM			STD	STANDARD
REFORMATS				
THICK/INCR.			Lung	3.75 q 3.75
ALGORITHM				LUNG
REFORMATS				
ASiR/MODE				50% / FULL
THICK/INCR.			STD THN	1.25 q 0.700
ALGORITHM				STANDARD
REFORMATS				COR MIP / SAG MIP
ASiR/MODE				50% / PLUS

Estimated CTDI	24.79
Estimated DLP	605.46

64 SLICE – GE VCT

PARAMETER	SMART PREP		CTA	
SCAN TYPE			HELICAL FULL	
ROTATION TIME			0.5 SEC	
THICKNESS			2.5	
PITCH			0.984:1	
SPEED			39.37	
INTERVAL			2.5	
GANTRY TILT				
SCAN FOV			LARGE BODY	
kVp			100	
mA	10		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX			12.73	
DOSE REDUCTION			50%	
ASIR/MODE			50% / PLUS	
ALGORITHM			STD	STANDARD
REFORMATS				
THICK/INCR.			Lung	3.75 q 3.75
ALGORITHM				LUNG
REFORMATS				
ASIR/MODE				50% / FULL
THICK/INCR.			STD THN	0.625 q 0.625
ALGORITHM				STANDARD
REFORMATS				COR MIP / SAG MIP
ASIR/MODE				50% / PLUS-E

Estimated CTDI	21.42
Estimated DLP	399.27

SIEMENS FORCE:

Turbo Flash protocols are to be used for all CTA's that include a chest:

- Acute Dissection:
 - I- Turbo Flash (Chest Only)
 - I+ Turbo Flash (Chest & Abdomen or CAP)
- All Other Aortic Pathology
 - I+ Turbo Flash ONLY

DE CTA protocols are only to be used if specifically requested by MD

196(2) – SIEMENS FORCE

PARAMETER	TF CHEST		PREMONITORING / SMART PREP		TF AORTA		DELAY	
SCAN TYPE			FULL					
ROTATION TIME	0.28 SEC		0.25 SEC		0.25 SEC		0.5 SEC	
THICKNESS	3.0mm		10.0mm		3.0mm		3.0mm	
PITCH	2.0				1.9		1.0	
SPEED								
INTERVAL	3.0mm		0.0mm		3.0mm		3.0mm	
GANTRY TILT								
SCAN FOV								
kVp	CARE kV		100		CARE kV		CARE kV	
mAs	CARE Dose4D		23		CARE Dose4D		CARE Dose4D	
NOISE INDEX								
DOSE REDUCTION								
DFOV	<TO PATIENT>		30		<TO PATIENT>		<TO PATIENT>	
PREP GROUP			10 SEC		SMART PREP		3-5 MINS	
KERNEL	STD	Bv36		Br36	STD	Bv36	STD	Bv36
ADMIRE	WO	3				3	Delay	3
THICK/INCR.	STD	1.5 q 1.0			Lung	3.0 q 3.0		
KERNEL	THN	Br40				BI57		
ADMIRE	WO	3				3		
THICK/INCR.	Lung	3.0 q 3.0			STD THN	0.6 q 0.6		
KERNEL		BI57				Bv36		
ADMIRE		3				3		
THICK/INCR.	COR MIP WO	3.0 q 1.5			COR MIP	3.0 q 1.5		
KERNEL		Bv36				BV36		
ADMIRE		3				3		
THICK/INCR.	SAG MIP WO	3.0 q 1.5			SAG MIP	3.0 q 1.5		
KERNEL		Bv36				Bv36		
ADMIRE		3				3		

Estimated CTDI	37.44
Estimated DLP	

TF AORTA W/ DELAY

PARAMETER	PREMONITORING / SMART PREP		TF CAP		DELAY	
SCAN TYPE	FULL					
ROTATION TIME	0.25 SEC		0.25 SEC		0.5 SEC	
THICKNESS	10.0mm		3.0mm		3.0mm	
PITCH			1.9		1.0	
SPEED						
INTERVAL	0.0mm		3.0mm		3.0mm	
GANTRY TILT						
SCAN FOV						
kVp	100		CARE kV		CARE Kv	
mAs	23		CARE Dose4D		CARE Dose4D	
NOISE INDEX						
DOSE REDUCTION						
DFOV	30		<TO PATIENT>		<TO PATIENT>	
PREP GROUP	10 SEC		SMART PREP		3-5 MINS	
KERNEL		Br36	STD	Bv36		Br36
ADMIRE				3		3
THICK/INCR.			Lung	3.0 q 3.0		
KERNEL				BI57		
ADMIRE				3		
THICK/INCR.			STD THN	0.6 q 0.6		
KERNEL				Bv36		
ADMIRE				3		
THICK/INCR.			COR MIP	3.0 q 1.5		
KERNEL				Bv36		
ADMIRE				3		
THICK/INCR.			SAG MIP	3.0 q 1.5		
KERNEL				Bv36		
ADMIRE				3		

Estimated CTDI	32.67
Estimated DLP	

DE CTA CAP AORTA

PARAMETER	PREMONITORING / SMART PREP		DE CTA	
SCAN TYPE	FULL			
ROTATION TIME	0.5 SEC		0.5 SEC	
THICKNESS	10.0mm		3.0mm	
PITCH			0.7	
SPEED				
INTERVAL	0.0mm		3.0mm	
GANTRY TILT				
SCAN FOV				
kVp	100		90 / Sn150	
mAs	23		CARE Dose4D	
NOISE INDEX				
DOSE REDUCTION				
DFOV	30		<TO PATIENT>	
PREP GROUP	10 SEC		SMART PREP	
KERNEL		Br36	STD	Bv36
ADMIRE				3
THICK/INCR.			DE #PP STD THN	1.5 q 1.0
KERNEL				Qr40
ADMIRE				3
THICK/INCR.			COR MIP	3.0 q 1.5
KERNEL				Bv36
ADMIRE				3
THICK/INCR.			SAG MIP	3.0 q 1.5
KERNEL				Bv36
ADMIRE				3
THICK/INCR.			STD THN	0.6 q 0.6
KERNEL				Bv36
ADMIRE				3
THICK/INCR.			Lung	3.0 q 3.0
KERNEL				BI57
ADMIRE				3

Estimated CTDI	30.40
Estimated DLP	

CTA THORAX/ABDOMEN/PELVIS

DE CTA CAP AORTA W/ DELAY

PARAMETER	W/O		PREMONITORING / SMART PREP	DE AORTA (CTA)	DELAY	
SCAN TYPE			FULL			
ROTATION TIME	0.5 SEC		0.5 SEC	0.5 SEC	0.5 SEC	
THICKNESS	3.0mm		10.0mm	3.0mm	3.0mm	
PITCH	0.7			0.7	0.7	
SPEED						
INTERVAL	3.0mm		0.0mm	3.0mm	3.0mm	
GANTRY TILT						
SCAN FOV						
kVp	90 / Sn150		100	90 / Sn150	90 / Sn150	
mAs	CARE Dose4D		23	CARE Dose4D	CARE Dose4D	
NOISE INDEX						
DOSE REDUCTION						
DFOV	<TO PATIENT>		30	<TO PATIENT>	<TO PATIENT>	
PREP GROUP			10 SEC	SMART PREP	3-5 MINS	
KERNEL	STD	Bv36		Br36	STD	Bv36
ADMIRE	WO	3			Delay	3
THICK/INCR.	DE	1.5 q 1.0			DE	1.5 q 1.0
KERNEL	#PP	Qr40			#PP	Qr40
ADMIRE	STD	3			STD	3
	THN				THN	
	WO				Delay	
THICK/INCR.	COR	3.0 q 1.5			COR	3.0 q 1.5
KERNEL	MIP	Bv36			MIP	Bv36
ADMIRE	WO	3			WO	3
THICK/INCR.	SAG	3.0 q 1.5			SAG	3.0 q 1.5
KERNEL	MIP	Bv36			MIP	Bv36
ADMIRE	WO	3			WO	3
THICK/INCR.	STD	0.6 q 0.6			STD	0.6 q 0.6
KERNEL	THN	Bv36			THN	Bv36
ADMIRE	WO	3			WO	3
THICK/INCR.					Lung	3.0 q 3.0
KERNEL						BI57
ADMIRE						3

Estimated CTDI	39.94
Estimated DLP	

CTA THORAX/ABDOMEN/PELVIS

CTA UPPER EXTREMITY RUNOFF

REVISED: 8/24/18

INDICATION	
ORAL PREP	NONE
SCAN	CTA TIMED OFF AORTIC ARCH
RECON	<ul style="list-style-type: none"> • 2.5mm / 3.0mm AXIAL RECONS – STANDARD ALGORITHM • 0.6mm / 0.625mm AXIAL RECONS – STANDARD ALGORITHM
REFORMAT	<ul style="list-style-type: none"> ○ 3.0mm q 1.5mm MIP CORONAL RECONS IN 2 SEPARATE SERIES WITH OVERLAP <ul style="list-style-type: none"> ○ ARCH AND UPPER ARM ○ ELBOW, FOREARM AND HAND ○ 3.0mm q 1.5mm MIP SAGITTAL RECONS IN 2 SEPARATE SERIES WITH OVERLAP <ul style="list-style-type: none"> ○ ARCH AND UPPER ARM ○ ELBOW, FOREARM AND HAND
3D POST PROCESSING	<ul style="list-style-type: none"> ✚ BODY BONE REMOVAL STATIC IMAGE (DE SCAN) ✚ BODY BONE REMOVAL MIP ROTATION (DE SCAN) ✚ BODY BONE REMOVAL WITHOUT PLAQUES STATIC IMAGE (DE SCAN) ✚ BODY BONE REMOVAL WITHOUT PLAQUES MIP ROTATION (DE SCAN) ✚ 3D ROTATION ARTERIES (NON DE SCANS) ✚ 3D ROTATION ARTERIS WITH BONE OVERLAY-WRIST AND HAND ONLY (NON-DE SCANS) ✚ CURVED MIP ROTATION BRACHIAL ARTERY

IV SIZE	18g IN UNAFFECTED ARM	
IV CONTRAST	120cc OMNIPAQUE 350	
INJECTION RATE	5cc/SEC	
PT POSITION	PRONE OR SUPINE / SLIGHT OBLIQUE / HEAD FIRST / ARM ABOVE HEAD / PALM UP / FINGERS EXTENDED, HAND FLAT ON TABLE	
LANDMARK	GE	STERNAL NOTCH
	SIEMENS	BELOW CLAVICLES
BREATHING		
SCOUTS	AP AND LATERAL	

PARAMETER		SCAN
START		AORTIC ARCH
END		THROUGH FINGERTIPS
DFOV		30
PREP GROUP	GE	SMART PREP @ ARCH
	SIEMENS	SMART PREP @ ARCH

16 SLICE – GE

STUDY NOT SCANNED ON 16 SLICE SCANNER

64 SLICE – GE VCT

PARAMETER	SMART PREP @ ARCH		CTA	
SCAN TYPE			HELICAL FULL	
ROTATION TIME			0.5 SEC	
THICKNESS			2.5	
PITCH			0.984:1	
SPEED			39.37	
INTERVAL			2.5	
GANTRY TILT				
SCAN FOV			LARGE BODY	
kVp			100	
mA	25		AUTO mA TO 700	
NOISE INDEX			10.50	
DOSE REDUCTION			40%	
ASIR/MODE			40% / PLUS	
ALGORITHM			STD LT/RT	STANDARD
REFORMATS				
THICK/INCR.			STD THN LT/RT	0.625 q 0.625
ALGORITHM				STANDARD
REFORMATS				COR MIP UPR LT/RT / COR MIP LWR LT/RT / SAG MIP UPR LT/RT / SAG MIP LWR LT/RT
ASiR/MODE				40% / PLUS-E

Estimated CTDI	18.54
Estimated DLP	246.99

196(2) – SIEMENS FORCE

PARAMETER	PREMONITORING / SMART PREP		CTA	
SCAN TYPE	FULL			
ROTATION TIME	0.5 SEC		0.5 SEC	
THICKNESS	10.0mm		0.6mm	
PITCH			0.7	
SPEED				
INTERVAL	0.0mm		0.6mm	
GANTRY TILT				
SCAN FOV				
kVp	100		80 / Sn150	
mAs	23		CARE Dose4D	
NOISE INDEX				
DOSE REDUCTION				
DFOV	30		30	
PREP GROUP	10 SEC		SMART PREP	
KERNEL		Br36	STD THN LT/RT	Bv36
ADMIRE				3
THICK/INCR.			DE #PP STD THN LT/RT	1.5 q 1.0
KERNEL				Qr40
ADMIRE				3
THICK/INCR.			STD LT/RT	3.0 q 3.0
KERNEL				Bv36
ADMIRE				3
THICK/INCR.			COR MIP UPR LT/RT	3.0 q 1.5
KERNEL				Bv36
ADMIRE				3
THICK/INCR.			SAG MIP UPR LT/RT	3.0 q 1.5
KERNEL				Bv36
ADMIRE				3
THICK/INCR.			COR MIP LWR LT/RT	3.0 q 1.5
KERNEL				Bv36
ADMIRE				3
THICK/INCR.			SAG MIP LWR LT/RT	3.0 q 1.5
KERNEL				Bv36
ADMIRE				3

Estimated CTDI	30.17
Estimated DLP	

CT COLONOGRAPHY

REVISED: 8/24/18

INDICATION	FAILED COLONOSCOPY
ORAL PREP	COLON PREP
SCAN	<ol style="list-style-type: none"> 1. PRE SCAN* – ONLY IF SAME DAY FAILED COLONOSCOPY 2. SUPINE POST INSUFFLATION 3. PRONE POST INSUFFLATION
RECON	<ul style="list-style-type: none"> • 5mm q 10mm AXIAL RECONS – STANDARD ALGORITHM (PRE SCAN ONLY) • 5mm AXIAL RECONS – STANDARD ALGORITHM (POST INSUFFLATION SCANS) • 0.625mm AXIAL RECONS – STANDARD ALGORITHM (POST INSUFFLATION SCANS)
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL – POST INSUFFLATION SCANS
3D POST PROCESSING	DONE BY RADIOLOGIST

IV SIZE		
IV CONTRAST		
INJECTION RATE		
PT POSITION		SUPINE / PRONE / FEET FIRST
LANDMARK	GE	XYPHOID
	SIEMENS	N/A
BREATHING		EXPIRATION
SCOUTS		AP AND LATERAL

PARAMETER		PRE SCAN*	SUPINE	PRONE
START		ABOVE DIAPHRAGM	ABOVE DIAPHRAGM	ABOVE DIAPHRAGM
END		SYMPHYSIS PUBIS	SYMPHYSIS PUBIS	SYMPHYSIS PUBIS
DFOV		<TO PATIENT>	<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE			
	SIEMENS			

16 SLICE – GE

STUDY NOT SCANNED ON 16 SLICE SCANNER

64 SLICE – GE VCT

PARAMETER	PRE SCAN		*SUPINE		PRONE	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.5 SEC		0.6 SEC		0.6 SEC	
THICKNESS	5.0		5.0		5.0	
PITCH	0.984:1		0.984:1		0.984:1	
SPEED	39.37		39.37		39.37	
INTERVAL	10.0		5.0		5.0	
GANTRY TILT						
SCAN FOV	LARGE BODY		LARGE BODY		LARGE BODY	
kVp	120		120		120	
Ma	AUTO mA TO 100 W/ SMART mA		AUTO mA TO 100 W/ SMART mA		AUTO mA TO 100 W/ SMART mA	
NOISE INDEX	7.81		12.73		12.73	
DOSE REDUCTION	30%		30%		30%	
ASIR/MODE	60% / PLUS		60% / PLUS		60% / PLUS	
ALGORITHM	STD	STANDARD	STD	STANDARD	STD	STANDARD
REFORMATS	PRE				Prone	
THICK/INCR.			STD THN	0.625 q 0.3	STD THN Prone	0.625 q 0.3
ALGORITHM				STANDARD		STANDARD
REFORMATS				COR 3 / SAG 3		COR 3 Prone / SAG 3 Prone
ASIR/MODE				60% / PLUS		60% / PLUS

*GLUCAGON may be given before insufflation

Estimated CTDI	4.85
Estimated DLP	240.98

196(2) – SIEMENS FORCE

STUDY NOT SCANNED ON FORCE SCANNER

CT COLONOGRAPHY

CT CYSTOGRAPHY

REVISED: 8/24/18

INDICATION	
ORAL PREP	
SCAN	IN ADDITION TO TRAUMA C/A/P SCAN: 1. PELVIS – FILLED BLADDER ** UNIQUE STUDY: 1. I- PELVIS 2. PELVIS – RETROGRADE FILLED BLADDER** 3. PELVIS – POST VOID
RECON	<ul style="list-style-type: none"> • 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – BONE ALGORITHM (FILLED BLADDER)
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL – STANDARD ALGORITHM (ALL) ○ 1mm CORONAL AND SAGITTAL – BONE ALGORITHM (FILLED BLADDER)
3D POST PROCESSING	NONE

IV SIZE		
IV CONTRAST		
INJECTION RATE		
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	ILIAC CREST
	SIEMENS	JUST ABOVE ILIAC CREST
BREATHING	NONE	
SCOUTS	AP AND LATERAL	

PARAMETER	PRE	FULL BLADDER	POST
START	ABOVE CREST	ABOVE CREST	ABOVE CREST
END	BELOW SYMPHYSIS PUBIS	BELOW SYMPHYSIS PUBIS	BELOW SYMPHYSIS PUBIS
DFOV	<TO PATIENT>	<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE		
	SIEMENS		

**** IN ADDITION TO TRAUMA C/A/P SCAN:** CLAMP FOLEY X 10 MINS AFTER TRAUMA C/A/P SCAN OR RETROGRADE FILL BLADDER WITH DILUTE CONTRAST UP TO **350cc OR PATIENT TOLERANCE**

****UNIQUE STUDY:** RETROGRADE FILL BLADDER WITH DILUTE CONTRAST UP TO **350cc OR PATIENT TOLERANCE** (GRAVITY DRIP PREFERRED)

- OMNIPAQUE 350: MIX 60cc OMNIPAQUE PER 1000cc SALINE BAG – (**UP TO 350cc WILL BE USED**)

16 SLICE – GE

PARAMETER	PRE		FULL BLADDER		POST	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC		0.6 SEC	
THICKNESS	3.75		3.75		3.75	
PITCH	1.375:1		1.375:1		1.375:1	
SPEED	27.50		27.50		27.50	
INTERVAL	3.75		3.75		3.75	
GANTRY TILT						
SCAN FOV	LARGE		LARGE		LARGE	
kVp	120		120		120	
mA	AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	19.30		19.30		19.30	
DOSE REDUCTION						
ASiR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD PRE	STANDARD	STD	STANDARD	STD POST	STANDARD
REFORMATS						
THICK/INCR.	STD THN PRE	1.25 q 0.700	Bone THN	1.25 q 0.700	STD THN POST	1.25 q 0.700
ALGORITHM		STANDARD		BONE		STANDARD
REFORMATS		COR 3 PRE / SAG 3 PRE		COR 1 / SAG 1		COR 3 POST / SAG 3 POST
ASiR/MODE		40% / PLUS		40% / FULL		40% / PLUS
THICK/INCR.			STD THN	1.25 q 0.700		
ALGORITHM				STANDARD		
REFORMATS				COR 3 / SAG 3		
ASiR/MODE				40% / PLUS		

Estimated CTDI	53.28
Estimated DLP	1473.11

64 SLICE – GE VCT

PARAMETER	PRE		FULL BLADDER		POST	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC		0.6 SEC	
THICKNESS	3.75		3.75		3.75	
PITCH	1.375:1		1.375:1		1.375:1	
SPEED	55.00		55.00		55.00	
INTERVAL	3.75		3.75		3.75	
GANTRY TILT						
SCAN FOV	LARGE BODY		LARGE BODY		LARGE BODY	
kVp	120		120		120	
mA	AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	16.63		16.63		16.63	
DOSE REDUCTION	40%		40%		40%	
ASiR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD	STANDARD	STD	STANDARD	STD	STANDARD
REFORMATS	PRE				POST	
THICK/INCR.	STD THN PRE	0.625 q 0.625	STD THN	0.625 q 0.625	STD THN POST	0.625 q 0.625
ALGORITHM		STANDARD		STANDARD		STANDARD
REFORMATS		COR 3 PRE / SAG 3 PRE		COR 3 / SAG 3		COR 3 POST / SAG 3 POST
ASiR/MODE		40% / PLUS-E		40% / PLUS-E		40% / PLUS-E
THICK/INCR.			BONE THN	0.625 q 0.625		
ALGORITHM				BONE		
REFORMATS				COR 1 / SAG 1		
ASiR/MODE				40% / PLUS-E		

Estimated CTDI	43.99
Estimated DLP	1534.79

196(2) – SIEMENS FORCE

PARAMETER	PRE		W/		POST	
SCAN TYPE						
ROTATION TIME	0.5 SEC		0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		3.0mm		3.0mm	
PITCH	0.6		0.6		0.6	
SPEED						
INTERVAL	3.0mm		3.0mm		3.0mm	
GANTRY TILT						
SCAN FOV						
kVp	100 / Sn150		100 / Sn150		100 / Sn150	
mAs	CARE Dose4D		CARE Dose4D		CARE Dose4D	
NOISE INDEX						
DOSE REDUCTION						
DFOV	<TO PATIENT>		<TO PATIENT>		<TO PATIENT>	
PREP GROUP						
KERNEL	STD	Br36	STD	Br36	STD	Br36
ADMIRE	PRE	3		3	POST	3
THICK/INCR.	DE	1.5 q 1.0	DE	1.5 q 1.0	DE	1.5 q 1.0
KERNEL	#PP	Br40	#PP	Qr40	#PP	Qr40
ADMIRE	STD		STD		STD	3
	THN		THN	3	THN	
	PRE	3			POST	
THICK/INCR.	COR 3	3.0 q 3.0	COR 3	3.0 q 3.0	COR 3	3.0 q 3.0
KERNEL	PRE	Br36		Br36	POST	Br36
ADMIRE		3		3		3
THICK/INCR.	SAG 3	3.0 q 3.0	SAG 3	3.0 q 3.0	SAG 3	3.0 q 3.0
KERNEL	PRE	Br36		Br36	POST	Br36
ADMIRE		3		3		3
THICK/INCR.	STD	0.6 q 0.6	STD	0.6 q 0.6	STD	0.6 q 0.6
KERNEL	THN	Br36	THN	Br36	THN	Br36
ADMIRE	PRE	3		3	POST	3
THICK/INCR.			BONE	0.6 q 0.6		
KERNEL			THN	Br64		
ADMIRE				3		
THICK/INCR.			COR 1	1.0 q 1.0		
KERNEL				Br64		
ADMIRE				3		
THICK/INCR.			SAG 1	1.0 q 1.0		
KERNEL				Br64		

Estimated CTDI	31.44
Estimated DLP	

CT ENTEROGRAPHY

REVISED: 8/24/18

INDICATION	IN LIEU OF SMALL BOWEL FOLLOW THROUGH – TYPICALLY GI REFERRAL TO EVALUATE SMALL BOWEL PATHOLOGY/CROHNS DISEASE *IF YOUNG CONSIDER MRE INSTEAD
ORAL PREP	1. VOLUMEN 450ml 60 MIN BEFORE SCAN 2. VOLUMEN 450ml 40 MIN BEFORE SCAN 3. VOLUMEN 450 ml 20 MIN BEFORE SCAN
SCAN	PV PHASE 50 SEC AFTER INJECTION STARTS
RECON	<ul style="list-style-type: none"> • 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM
REFORMAT	○ 3mm CORONAL AND SAGITTAL
3D POST PROCESSING	NONE

IV SIZE		
IV CONTRAST	WEIGHT BASED	
INJECTION RATE		
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGMS
BREATHING	EXPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER		SCAN
START		ABOVE DIAPHRAGM
END		BELOW SYMPHYSIS PUBIS
DFOV		<TO PATIENT>
PREP GROUP	GE	50 SEC
	SIEMENS	50 SEC

16 SLICE – GE

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.8 SEC	
THICKNESS	3.75	
PITCH	1.375:1	
SPEED	27.50	
INTERVAL	3.75	
GANTRY TILT		
SCAN FOV	LARGE	
kVp	120	
mA	AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	18.81	
DOSE REDUCTION		
ASiR/MODE	40% / PLUS	
ALGORITHM	STD	STANDARD
REFORMATS		
THICK/INCR.	STD THN	1.25 q 0.700
ALGORITHM		STANDARD
REFORMATS		COR 3 / SAG 3
ASiR/MODE		40% / PLUS

Estimated CTDI	23.68
Estimated DLP	1107.43

64 SLICE – GE VCT

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.6 SEC	
THICKNESS	3.75	
PITCH	0.984:1	
SPEED	39.37	
INTERVAL	3.75	
GANTRY TILT		
SCAN FOV	LARGE BODY	
kVp	120	
mA	AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	16.04	
DOSE REDUCTION	40%	
ASiR/MODE	40% / PLUS	
ALGORITHM	STD	STANDARD
REFORMATS		
THICK/INCR.	STD THN	0.625 q 0.625
ALGORITHM		STANDARD
REFORMATS		COR 3 / SAG 3
ASiR/MODE		40% / PLUS-E

Estimated CTDI	18.83
Estimated DLP	975.48

196(2) – SIEMENS FORCE

PARAMETER	DE	
SCAN TYPE		
ROTATION TIME	0.5 SEC	
THICKNESS	3.0mm	
PITCH	0.6	
SPEED		
INTERVAL	3.0mm	
GANTRY TILT		
SCAN FOV		
kVp	100 / Sn150	
mAs	CARE Dose4D	
NOISE INDEX		
DOSE REDUCTION		
DFOV	<TO PATIENT>	
PREP GROUP	50 SEC	
KERNEL	STD	Br36
ADMIRE		3
THICK/INCR.	DE #PP STD THN	1.5 q 1.0
KERNEL		Qr40
ADMIRE		3
THICK/INCR.	COR 3	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	SAG 3	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	STD THN	0.6 q 0.6
KERNEL		Br36
ADMIRE		3

Estimated CTDI	10.48
Estimated DLP	

CT ENTEROGRAPHY

CTV ABDOMEN / PELVIS

REVISED: 8/24/18

INDICATION	? PELVIS OR IVC CLOT. NOT FOR MESENTERIC/PORTAL VEINS
ORAL PREP	NONE
SCAN	180 SEC SCAN DELAY
RECON	<ul style="list-style-type: none">• 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM• 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM
REFORMAT	<ul style="list-style-type: none">○ 3mm q 1.5mm MIP CORONAL AND SAGITTAL
3D POST PROCESSING	NONE

IV SIZE	20g OR 18g	
IV CONTRAST	110cc OMNIPAQUE 350	
INJECTION RATE	4CC / SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGM
BREATHING	EXPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER		SCAN
START		ABOVE DIAPHRAGM
END		BELOW SYMPHYSIS PUBIS
DFOV		<TO PATIENT>
PREP GROUP	GE	180 SEC
	SIEMENS	180 SEC

16 SLICE – GE

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.8 SEC	
THICKNESS	3.75	
PITCH	1.375:1	
SPEED	27.50	
INTERVAL	3.75	
GANTRY TILT		
SCAN FOV	LARGE	
kVp	120	
mA	AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	18.81	
DOSE REDUCTION		
ASiR/MODE	40% / PLUS	
ALGORITHM	STD	STANDARD
REFORMATS	CTV	
THICK/INCR.	STD THN CTV	1.25 q 0.700
ALGORITHM		STANDARD
REFORMATS		COR MIP CTV / SAG MIP CTV
ASiR/MODE		40% / PLUS

Estimated CTDI	23.68
Estimated DLP	1107.43

64 SLICE – GE VCT

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.6 SEC	
THICKNESS	3.75	
PITCH	0.984:1	
SPEED	39.37	
INTERVAL	3.75	
GANTRY TILT		
SCAN FOV	LARGE	
kVp	120	
mA	AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	16.04	
DOSE REDUCTION	40%	
ASiR/MODE	40% / PLUS	
ALGORITHM	STD CTV	STANDARD
REFORMATS		
THICK/INCR.	STD THN CTV	0.625 q 0.625
ALGORITHM		STANDARD
REFORMATS		COR MIP CTV / SAG MIP CTV
ASiR/MODE		40% / PLUS-E

Estimated CTDI	18.83
Estimated DLP	975.48

196(2) – SIEMENS FORCE

PARAMETER		DE CTV AP
SCAN TYPE		
ROTATION TIME		0.5 SEC
THICKNESS		3.0mm
PITCH		0.6
SPEED		
INTERVAL		3.0mm
GANTRY TILT		
SCAN FOV		
kVp		100 / Sn150
mAs		CARE Dose4D
NOISE INDEX		
DOSE REDUCTION		
DFOV		<TO PATIENT>
PREP GROUP		180 SEC
KERNEL	STD	Bv36
ADMIRE	CTV	3
THICK/INCR.	DE	1.5 q 1.0
KERNEL	#PP	Qr40
ADMIRE	STD	
	THN	3
	CTV	
THICK/INCR.	COR	3.0 q 1.5
KERNEL	MIP	Bv36
ADMIRE	CTV	3
THICK/INCR.	SAG	3.0 q 1.5
KERNEL	MIP	Bv36
ADMIRE	CTV	3
THICK/INCR.	STD	0.6 q 0.6
KERNEL	THN	Bv36
ADMIRE	CTV	3

Estimated CTDI	10.48
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***


CTV ABDOMEN/PELVIS

PARAMETER	XXL CTV AP	
SCAN TYPE		
ROTATION TIME	0.5 SEC	
THICKNESS	3.0mm	
PITCH	1.0	
SPEED		
INTERVAL	3.0mm	
GANTRY TILT		
SCAN FOV		
kVp	CARE kV	
mAs	CARE Dose4D	
NOISE INDEX		
DOSE REDUCTION		
DFOV	<TO PATIENT>	
PREP GROUP	180 SEC	
KERNEL	STD	Bv36
ADMIRE	CTV	3
THICK/INCR.	COR	3.0 q 1.5
KERNEL	MIP	Bv36
ADMIRE	CTV	3
THICK/INCR.	SAG	3.0 q 1.5
KERNEL	MIP	Bv36
ADMIRE	CTV	3
THICK/INCR.	STD	0.6 q 0.6
KERNEL	THN	Bv36
ADMIRE	CTV	3

Estimated CTDI	9.83
Estimated DLP	

CTV LOWER EXTREMITY

REVISED: 8/24/18

INDICATION	EVALUATE LOWER EXTREMITY THROMBUS
ORAL PREP	NONE
SCAN	1. 180 SECOND SCAN DELAY
RECON	<ul style="list-style-type: none"> • 2.5mm AXIAL RECONS - STANDARD ALGORITHM • 2.5mm AXIAL RECONS – BONE ALGORITHM • 0.625mm / 1.25mm AXIAL RECONS - STANDARD ALGORITHM
REFORMAT	<ul style="list-style-type: none"> ○ 3.0mm q 1.5mm MIP CORONAL RECONS IN 3 SEPARATE SERIES WITH OVERLAP: <ul style="list-style-type: none"> ○ ABDOMEN AND PELVIS ○ THIGH ○ LOWER LEG ○ 3.0mm q 1.5mm MIP SAGITTAL RECONS IN 3 SEPARATE SERIES WITH OVERLAP: <ul style="list-style-type: none"> ○ ABDOMEN AND PELVIS ○ THIGH ○ LOWER LEG
3D POST PROCESSING	

IV SIZE	20g OR 18g	
IV CONTRAST	120cc OMNIPAQUE 350	
INJECTION RATE	4cc/SEC	
PT POSITION	SUPINE / FEET FIRST / TOES TAPED TOGETHER	
LANDMARK	GE	ILIAC CREST
	SIEMENS	
BREATHING		
SCOUTS	AP AND LATERAL	

PARAMETER		SCAN
START		ILIAC CREST
END		THROUGH TOES
DFOV		<TO PATIENT>
PREP GROUP	GE	180 SECONDS
	SIEMENS	

16 SLICE – GE

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.8 SEC	
THICKNESS	2.5	
PITCH	1.375:1	
SPEED	27.50	
INTERVAL	2.5	
GANTRY TILT		
SCAN FOV	LARGE	
kVp	120	
mA	AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	13.00	
DOSE REDUCTION		
ASiR/MODE	40% / PLUS	
ALGORITHM	STD	STANDARD
REFORMATS		
THICK/INCR.	Bone	2.5 q 2.5
ALGORITHM		BONE
REFORMATS		
ASiR/MODE		40% / FULL
THICK/INCR.	STD THN	1.25 q 0.700
ALGORITHM		STANDARD
REFORMATS		COR MIP AP / SAG MIP AP / COR MIP Femur/ SAG MIP Femur / COR MIP TIB/FIB / SAG MIP TIB/FIB
ASiR/MODE		40% / PLUS

Estimated CTDI	17.76
Estimated DLP	1119.77

64 SLICE - GE

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.9 SEC	
THICKNESS	2.5	
PITCH	0.984:1	
SPEED	39.37	
INTERVAL	2.5	
GANTRY TILT		
SCAN FOV	LARGE	
kVp	100	
mA	AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	12.73	
DOSE REDUCTION	40%	
ASIR/MODE	40% / PLUS	
ALGORITHM	STD	STANDARD
REFORMATS		
THICK/INCR.	Bone	2.5 q 2.5
ALGORITHM		BONE
REFORMATS		
ASIR/MODE		40% / FULL
THICK/INCR.	STD THN	0.625 q 0.625
ALGORITHM		STANDARD
REFORMATS		COR MIP AP / SAG MIP AP / COR MIP Femur / SAG MIP Femur / COR MIP TIB/FIB / SAG MIP TIB/FIB
ASiR/MODE		40% / PLUS-E

Estimated CTDI	8.46
Estimated DLP	1012.31


196(2) – SIEMENS FORCE

PROTOCOL COMING SOON!!

Estimated CTDI	
Estimated DLP	

CTV UPPER EXTREMITY

REVISED: 8/24/18

INDICATION	EVALUATE UPPER EXTREMITY THROMBUS
ORAL PREP	NONE
SCAN	130 SECOND SCAN DELAY
RECON	<ul style="list-style-type: none"> • 2.5mm AXIAL RECONS - STANDARD ALGORITHM • 0.625mm / 1.25mm AXIAL RECONS - STANDARD ALGORITHM
REFORMAT	<ul style="list-style-type: none"> ○ 3.0mm q 1.5mm MIP CORONAL RECONS IN 2 SEPARATE SERIES WITH OVERLAP <ul style="list-style-type: none"> ○ ARCH AND UPPER ARM ○ ELBOW, FOREARM AND HAND ○ 3.0mm q 1.5mm MIP SAGITTAL RECONS IN 2 SEPARATE SERIES WITH OVERLAP <ul style="list-style-type: none"> ○ ARCH AND UPPER ARM ○ ELBOW, FOREARM AND HAND
3D POST PROCESSING	

IV SIZE	20g OR 18g	
IV CONTRAST	120cc OMNIPAQUE 350	
INJECTION RATE	4cc/SEC (IN CONTRALATERAL ARM)	
PT POSITION	SUPINE / HEAD FIRST / SLIGHT POSTERIOR OBLIQUE / ARM OVER HEAD / PALM FACING UP WITH FINGERS FULLY EXTENDED	
LANDMARK	GE	STERNAL NOTCH
	SIEMENS	
BREATHING		
SCOUTS	AP AND LATERAL	

PARAMETER		SCAN
START		STERNAL NOTCH
END		THROUGH FINGERS
DFOV		<TO PATIENT>
PREP GROUP	GE	130 SECONDS
	SIEMENS	

16 SLICE – GE

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.6 SEC	
THICKNESS	2.5	
PITCH	1.375:1	
SPEED	27.50	
INTERVAL	2.5	
GANTRY TILT		
SCAN FOV	LARGE	
kVp	120	
mA	AUTO mA TO 440	
NOISE INDEX	10.50	
DOSE REDUCTION		
ASiR/MODE	40% / PLUS	
ALGORITHM	STD	STANDARD
REFORMATS	RT/LT	
THICK/INCR.	STD THN RT/LT	1.25 q 0.700
ALGORITHM		STANDARD
REFORMATS		COR MIP UPR RT/LT / SAG MIP UPR RT/LT / COR MIP LWR RT/LT / SAG MIP LWR RT/LT
ASIR/MODE		40% / PLUS

Estimated CTDI	4.48
Estimated DLP	236.77

64 SLICE - GE

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.5 SEC	
THICKNESS	2.5	
PITCH	0.984:1	
SPEED	39.37	
INTERVAL	2.5	
GANTRY TILT		
SCAN FOV	LARGE	
kVp	100	
mA	AUTO mA TO 700	
NOISE INDEX	10.50	
DOSE REDUCTION	40%	
ASIR/MODE	40% / PLUS	
ALGORITHM	STD	STANDARD
REFORMATS	RT/LT	
THICK/INCR.	STD THN RT/LT	0.625 q 0.625
ALGORITHM		STANDARD
REFORMATS		COR MIP UPR RT/LT / SAG MIP UPR RT/LT / COR MIP LWR RT/LT / SAG MIP LWR RT/LT
ASIR/MODE		40% / PLUS-E

Estimated CTDI	3.16
Estimated DLP	239.30

196(2) – SIEMENS FORCE

PROTOCOL COMING SOON!!

Estimated CTDI	
Estimated DLP	

KIDNEY DONOR

REVISED: 8/24/18

INDICATION	RENAL DONOR
ORAL PREP	NONE
SCAN	<ol style="list-style-type: none"> 1. CTA ABDOMEN ONLY 2. DELAY: ~10 MINUTES KIDNEYS THROUGH BLADDER
RECON	<ul style="list-style-type: none"> • 2.5mm / 3.0mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES) • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES)
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL – ALL PHASES
3D POST PROCESSING	<ul style="list-style-type: none"> ✚ 2mm MIP CORONAL OBLIQUE RENAL ARTERY ORIGINS ✚ CURVED REFORMATS AORTA AND RENAL ARTERIES ✚ LENGTH, WIDTH AND HEIGHT EACH KIDNEY ✚ VOLUME MEASUREMENT EACH KIDNEY ✚ 3D ROTATION OF AORTA AND KIDNEYS ✚ 3D ROTATION KIDNEYS URETERS AND BLADDER ✚ THICK MIP COLLECTING SYSTEM

IV SIZE	18g OR 20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGMS
BREATHING	INSPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER		ARTERIAL	DELAYED
START		ABOVE DIAPHRAGM	ABOVE KIDNEYS
END		ILIAC CREST	BELOW BLADDER
DFOV		<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE	25 SEC	10 MIN
	SIEMENS	25 SEC	10 MIN

16 SLICE – GE

PARAMETER	ARTERIAL		DELAYED	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.8 SEC		0.8 SEC	
THICKNESS	2.5		2.5	
PITCH	1.375:1		1.375:1	
SPEED	27.50		27.50	
INTERVAL	2.5		2.5	
GANTRY TILT				
SCAN FOV	LARGE		LARGE	
kVp	100		120	
mA	AUTO mA TO 420 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	18.96		18.00	
DOSE REDUCTION				
ASiR/MODE	50% / PLUS		40% / PLUS	
ALGORITHM	STD ART	STANDARD	STD Delay	STANDARD
REFORMATS				
THICK/INCR.	STD THN ART	1.25 q 0.700	STD THN Delay	1.25 q 0.700
ALGORITHM		STANDARD		STANDARD
REFORMATS		COR 3 ART / SAG 3 ART		COR 3 Delay / SAG 3 Delay
ASiR/MODE		50% / PLUS		40% / PLUS

Estimated CTDI	21.66
Estimated DLP	962.90

64 SLICE – GE

PARAMETER	ARTERIAL		DELAYED	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC	
THICKNESS	2.5		2.5	
PITCH	0.984:1		0.984:1	
SPEED	39.37		39.37	
INTERVAL	2.5		2.5	
GANTRY TILT				
SCAN FOV	LARGE BODY		LARGE BODY	
kVp	100		120	
mA	AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	15.00		15.00	
DOSE REDUCTION	50%		40%	
ASIR/MODE	50% / PLUS		40% / PLUS	
ALGORITHM	STD ART	STANDARD	STD Delay	STANDARD
REFORMATS				
THICK/INCR.	STD THN ART	0.625 q 0.625	STD THN Delay	0.625 q 0.625
ALGORITHM		STANDARD		STANDARD
REFORMATS		COR 3 ART / SAG 3 ART		COR 3 Delay / SAG 3 Delay
ASIR/MODE		50% / PLUS-E		40% / PLUS-E

Estimated CTDI	45.89
Estimated DLP	1903.74

196(2) – SIEMENS FORCE

PARAMETER	DE KIDNEY W/		DE KIDNEY 8 MIN DELAY	
SCAN TYPE				
ROTATION TIME	0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		3.0mm	
PITCH	0.6		0.6	
SPEED				
INTERVAL	3.0mm		3.0mm	
GANTRY TILT				
SCAN FOV				
kVp	100 / Sn150		100 / Sn150	
mAs	CARE Dose4D		CARE Dose4D	
NOISE INDEX				
DOSE REDUCTION				
DFOV	<TO PATIENT>		<TO PATIENT>	
PREP GROUP	25 SEC		8 MINS	
KERNEL	STD	Br36	STD Delay	Br36
ADMIRE		3		3
THICK/INCR.	DE #PP STD THN	1.5 q 1.0	DE #PP STD THN Delay	1.5 q 1.0
KERNEL		Qr40		Qr40
ADMIRE		3		3
THICK/INCR.	COR 3	3.0 q 3.0	COR 3 Delay	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	SAG 3	3.0 q 3.0	SAG 3 Delay	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	STD THN	0.6 q 0.6	STD THN Delay	0.6 q 0.6
KERNEL		Br36		Br36
ADMIRE		3		3

Estimated CTDI	20.96
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

*** XXL PATIENTS – SEE [XXL MULTIPHASE A/P](#)***

KIDNEY STONE

REVISED: 8/24/18

INDICATION	
ORAL PREP	NONE
SCAN	NON-CONTRAST KIDNEYS THROUGH BLADDER
RECON	<ul style="list-style-type: none">• 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM• 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM• 3.75mm AXIAL RECONS – STANDARD ALGORITHM (100% ASiR) – GE SCANNERS
REFORMAT	<ul style="list-style-type: none">○ 3mm CORONAL AND SAGITTAL
3D POST PROCESSING	NONE

IV SIZE		
IV CONTRAST	NONE	
INJECTION RATE		
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGMS
BREATHING		INSPIRATION
SCOUTS		AP AND LATERAL

PARAMETER		SCAN
START		ABOVE KIDNEYS
END		BELOW BLADDER
DFOV		<TO PATIENT>
PREP GROUP	GE	NONE
	SIEMENS	NONE

16 SLICE – GE

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.5 SEC	
THICKNESS	3.75	
PITCH	1.375:1	
SPEED	27.50	
INTERVAL	3.75	
GANTRY TILT		
SCAN FOV	LARGE	
kVp	120	
mA	AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	31.53	
DOSE REDUCTION		
ASiR/MODE	40% / PLUS	
ALGORITHM	STD	STANDARD
REFORMATS		
THICK/INCR.	STD THN	1.25 q 0.700
ALGORITHM		STANDARD
REFORMATS		COR 3 / SAG 3
ASiR/MODE		40% / PLUS-E
THICK/INCR.	STD 100 ASiR	3.75 q 3.75
ALGORITHM		STANDARD
REFORMATS		
ASiR/MODE		100% / PLUS

Estimated CTDI	5.27
Estimated DLP	216.73

64 SLICE – GE VCT

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.5 SEC	
THICKNESS	3.75	
PITCH	1.375:1	
SPEED	55.00	
INTERVAL	3.75	
GANTRY TILT		
SCAN FOV	LARGE BODY	
kVp	120	
mA	AUTO mA TO 500 W/ SMART mA	
NOISE INDEX	28.87	
DOSE REDUCTION	40%	
ASiR/MODE	40% / PLUS	
ALGORITHM	STD	STANDARD
REFORMATS		
THICK/INCR.	STD THN	0.625 q 0.625
ALGORITHM		STANDARD
REFORMATS		COR 3 / SAG 3
ASiR/MODE		40% / PLUS-E
THICK/INCR.	STD 100 ASiR	3.75 q 3.75
ALGORITHM		STANDARD
REFORMATS		
ASiR/MODE		100% / PLUS

Estimated CTDI	8.89
Estimated DLP	416.89

196(2) – SIEMENS FORCE

PARAMETER	DE KIDNEY STONE	
SCAN TYPE		
ROTATION TIME	0.5 SEC	
THICKNESS	3.0mm	
PITCH	0.6	
SPEED		
INTERVAL	3.0mm	
GANTRY TILT		
SCAN FOV		
kVp	100 / Sn150	
mAs	CARE Dose4D	
NOISE INDEX		
DOSE REDUCTION		
DFOV	<TO PATIENT>	
PREP GROUP		
KERNEL	STD	Br36
ADMIRE		3
THICK/INCR.	DE #PP STD THN	1.5 q 1.0
KERNEL		Br40
ADMIRE		3
THICK/INCR.	COR 3	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	SAG 3	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	STD THN	0.6 q 0.6
KERNEL		Br36
ADMIRE		3

Estimated CTDI	8.73
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

PARAMETER	XXL KIDNEY STONE	
SCAN TYPE		
ROTATION TIME	0.5 SEC	
THICKNESS	3.0mm	
PITCH	1.0	
SPEED		
INTERVAL	3.0mm	
GANTRY TILT		
SCAN FOV		
kVp	CarekV	
mAs	CARE Dose4D	
NOISE INDEX		
DOSE REDUCTION		
DFOV	<TO PATIENT>	
PREP GROUP		
KERNEL	STD	Br36
ADMIRE		3
THICK/INCR.	COR 3	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	SAG 3	3.0 q 3.0
KERNEL		Br36
ADMIRE		3
THICK/INCR.	STD THN	0.6 q 0.6
KERNEL		Br36
ADMIRE		3

Estimated CTDI	7.35
Estimated DLP	

LIVER – 2 PHASE

REVISED: 8/24/18

INDICATION	F/U LIVER MASSES **FOR HCC / CIRRHOSIS USE <u>LIVER 3 PHASE</u> **
ORAL PREP	NONE
SCAN	<ol style="list-style-type: none"> 1. LATE ARTERIAL PHASE: 40 SEC AFTER START OF INJECTION 2. PV PHASE: 60-70 SEC AFTER START OF INJECTION
RECON	<ul style="list-style-type: none"> • 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES) • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES)
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL (EACH PHASE)
3D POST PROCESSING	NONE

IV SIZE	20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGMS
BREATHING	EXPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER	ARTERIAL LIVER	PV LIVER
START	ABOVE DIAPHRAGM	ABOVE DIAPHRAGM
END	ILIAC CREST	ILIAC CREST
DFOV	<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE	40 SEC
	SIEMENS	40 SEC
		70 SEC
		70 SEC

16 SLICE - GE

PARAMETER	ARTERIAL LIVER		PV LIVER	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.8 SEC		0.8 SEC	
THICKNESS	5.0		5.0	
PITCH	1.375:1		1.375:1	
SPEED	27.50		27.50	
INTERVAL	5.0		5.0	
GANTRY TILT				
SCAN FOV	LARGE		LARGE	
kVp	120		120	
mA	AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	14.40		14.40	
DOSE REDUCTION				
ASIR/MODE	40% / PLUS		40% / PLUS	
ALGORITHM	STD ART- PV	STANDARD	STD ART- PV	STANDARD
REFORMATS				
THICK/INCR.	STD ART	3.75 q 3.75		
ALGORITHM		STANDARD		
REFORMATS				
ASIR/MODE		40% / PLUS		
THICK/INCR.			STD	3.75 q 3.75
ALGORITHM				STANDARD
REFORMATS				
ASIR/MODE				40% / PLUS
THICK/INCR.	STD THN ART	1.25 q 0.700		
ALGORITHM		STANDARD		
REFORMATS		COR 3 ART / SAG 3 ART		
ASIR/MODE		40% / PLUS		
THICK/INCR.			STD THN	1.25 q 0.700
ALGORITHM				STANDARD
REFORMATS				COR 3 / SAG 3
ASIR/MODE				40% / PLUS

Estimated CTDI	31.76
Estimated DLP	825.29

LIVER – 2 PHASE

64 SLICE – GE VCT

PARAMETER	ARTERIAL LIVER		PV LIVER	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC	
THICKNESS	5.0		5.0	
PITCH	0.984:1		0.984:1	
SPEED	39.37		39.37	
INTERVAL	5.0		5.0	
GANTRY TILT				
SCAN FOV	LARGE BODY		LARGE BODY	
kVp	120		120	
mA	AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	12.00		12.00	
DOSE REDUCTION	40%		40%	
ASIR/MODE	40% / PLUS		40% / PLUS	
ALGORITHM	STD	STANDARD	STD	STANDARD
REFORMATS	ART-PV		ART-PV	
THICK/INCR.	STD ART	3.75 q 3.75		
ALGORITHM		STANDARD		
REFORMATS				
ASIR/MODE		40% / PLUS		
THICK/INCR.			STD	3.75 q 3.75
ALGORITHM				STANDARD
REFORMATS				
ASIR/MODE				40% / PLUS
THICK/INCR.	STD THN ART	0.625 q 0.625		
ALGORITHM		STANDARD		
REFORMATS		COR 3 ART / SAG 3 ART		
ASIR/MODE		40% / PLUS-E		
THICK/INCR.			STD THN	0.625 q 0.625
ALGORITHM				STANDARD
REFORMATS				COR 3 / SAG 3
ASIR/MODE				40% / PLUS-E

Estimated CTDI	27.68
Estimated DLP	831.96

196 (2) SLICE – SIEMENS FORCE

PARAMETER	ART LIVER		PV ABD	
SCAN TYPE				
ROTATION TIME	0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		3.0mm	
PITCH	0.6		0.6	
SPEED				
INTERVAL	3.0mm		3.0mm	
GANTRY TILT				
SCAN FOV				
kVp	100 / Sn150		100 / Sn150	
mAs	CARE Dose4D		CARE DosE4D	
NOISE INDEX				
DOSE REDUCTION				
DFOV	<TO PATIENT>		<TO PATIENT>	
PREP GROUP	40 SEC		25 SEC	
KERNEL	STD	Br36	STD	Br36
ADMIRE	ART	3		3
THICK/INCR.	DE #PP	1.5 q 1.0	DE #PP	1.5 q 1.0
KERNEL	STD	Qr40	STD	Qr40
ADMIRE	THN ART	3	THN	3
THICK/INCR.	COR 3 ART	3.0 q 3.0	COR 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	SAG 3 ART	3.0 q 3.0	SAG 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	STD THN ART	0.6 q 0.6	STD THN	0.6 q 0.6
KERNEL		Br36		Br36
ADMIRE		3		3

Estimated CTDI	20.96
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

*** XXL PATIENTS – SEE [XXL MULTIPHASE A/P](#)***

LIVER – 2 PHASE & PELVIS

REVISED: 8/24/18

INDICATION	F/U LIVER MASSES **FOR HCC / CIRRHOSIS USE <u>LIVER 3 PHASE</u> **
ORAL PREP	NONE
SCAN	<ol style="list-style-type: none"> 1. LATE ARTERIAL PHASE: 40 SEC AFTER START OF INJECTION, ABDOMEN ONLY 2. PV PHASE: 60-70 SEC AFTER START OF INJECTION, ABDOMEN AND PELVIS
RECON	<ul style="list-style-type: none"> • 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES) • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS (ALL PHASES)
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL (EACH PHASE)
3D POST PROCESSING	NONE

IV SIZE	20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGMS
BREATHING	EXPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER	ARTERIAL LIVER	PV ABD/PELVIS	
START	ABOVE DIAPHRAGM	ABOVE DIAPHRAGM	
END	ILIAC CREST	BELOW SYMPHYSIS PUBIS	
DFOV	<TO PATIENT>	<TO PATIENT>	
PREP GROUP	GE	40 SEC	70 SEC
	SIEMENS	40 SEC	70 SEC

16 SLICE – GE

PARAMETER	ARTERIAL LIVER		PV LIVER	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.8 SEC		0.8 SEC	
THICKNESS	5.0		5.0	
PITCH	1.375:1		1.375:1	
SPEED	27.50		27.50	
INTERVAL	5.0		5.0	
GANTRY TILT				
SCAN FOV	LARGE		LARGE	
kVp	120		120	
mA	AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	14.40		14.40	
DOSE REDUCTION	40%		40%	
ASIR/MODE	40% / PLUS		40% / PLUS	
ALGORITHM	STD ART- PV	STANDARD	STD ART- PV	STANDARD
REFORMATS				
THICK/INCR.	STD ART	3.75 q 3.75		
ALGORITHM		STANDARD		
REFORMATS				
ASIR/MODE		40% / PLUS		
THICK/INCR.			STD	3.75 q 3.75
ALGORITHM				STANDARD
REFORMATS				
ASIR/MODE				40% / PLUS
THICK/INCR.	STD THN ART	1.25 q 0.700		
ALGORITHM		STANDARD		
REFORMATS		COR 3 ART / SAG 3 ART		
ASIR/MODE		40% / PLUS		
THICK/INCR.			STD THN	1.25 q 0.700
ALGORITHM				STANDARD
REFORMATS				COR 3 / SAG 3
ASIR/MODE				40% / PLUS

Estimated CTDI	31.76
Estimated DLP	1142.85

LIVER – 2 PHASE & PELVIS

64 SLICE – GE VCT

PARAMETER	ARTERIAL LIVER		PV A/P	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC	
THICKNESS	5.0		5.0	
PITCH	0.984:1		0.984:1	
SPEED	39.37		39.37	
INTERVAL	5.0		5.0	
GANTRY TILT				
SCAN FOV	LARGE BODY		LARGE BODY	
kVp	120		120	
mA	AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	12.00		12.00	
DOSE REDUCTION	40%		40%	
ASIR/MODE	40% / PLUS		40% / PLUS	
ALGORITHM	STD	STANDARD	STD	STANDARD
REFORMATS	ART-PV		ART-PV	
THICK/INCR.	STD ART	3.75 q 3.75		
ALGORITHM		STANDARD		
REFORMATS				
ASIR/MODE		40% / PLUS		
THICK/INCR.			STD	3.75 q 3.75
ALGORITHM				STANDARD
REFORMATS				
ASIR/MODE				40% / PLUS
THICK/INCR.	STD THN ART	0.625 q 0.625		
ALGORITHM		STANDARD		
REFORMATS		COR 3 ART / SAG 3 ART		
ASIR/MODE		40% / PLUS-E		
THICK/INCR.			STD THN	0.625 q 0.625
ALGORITHM				STANDARD
REFORMATS				COR 3 / SAG 3
ASIR/MODE				40% / PLUS-E

Estimated CTDI	27.93
Estimated DLP	1107.23

196(2) – SIEMENS FORCE

PARAMETER	DE ART LIVER		DE PV AP	
SCAN TYPE				
ROTATION TIME	0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		3.0mm	
PITCH	0.6		0.6	
SPEED				
INTERVAL	3.0mm		3.0mm	
GANTRY TILT				
SCAN FOV				
kVp	100 / Sn150		100 / Sn150	
mAs	CARE Dose4D		CARE Dose4D	
NOISE INDEX				
DOSE REDUCTION				
DFOV	<TO PATIENT>		<TO PATIENT>	
PREP GROUP	40 SEC		25 SEC	
KERNEL	STD ART	Br36	STD	Br36
ADMIRE		3		3
THICK/INCR.	DE #PP STD THN ART	1.5 q 1.0	DE #PP STD THN	1.5 q 1.0
KERNEL		Qr40		Qr40
ADMIRE		3		3
THICK/INCR.	COR 3 ART	3.0 q 3.0	COR 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	SAG 3 ART	3.0 q 3.0	SAG 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	STD THN ART	0.6 q 0.6	STD THN	0.6 q 0.6
KERNEL		Br36		Br36
ADMIRE		3		3

Estimated CTDI	20.96
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

*** XXL PATIENTS – SEE [XXL MULTIPHASE A/P](#)***

LIVER – 2 PHASE & PELVIS

LIVER – 2 PHASE & CHEST/ABDOMEN/PELVIS

REVISED: 8/24/18

INDICATION	F/U LIVER MASES **FOR HCC / CIRRHOSIS USE LIVER 3 PHASE **
ORAL PREP	
SCAN	<ol style="list-style-type: none"> 1. LATE ARTERIAL PHASE : 40 SEC AFTER START OF INJECTION – ABDOMEN ONLY 2. PV PHASE: 60-70 SEC AFTER START OF INJECTION – CHEST ABDOMEN AND PELVIS
RECON	<ul style="list-style-type: none"> • 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES) • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS (ALL PHASES) • 3.0mm / 3.75mm AXIAL RECON – LUNG ALGORITHM
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL (EACH PHASE)
3D POST PROCESSING	NONE

IV SIZE	20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	STERNAL NOTCH
	SIEMENS	ABOVE DIAPHRAGMS
BREATHING	EXPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER	ARTERIAL LIVER	PV CAP
START	ABOVE DIAPHRAGM	ABOVE APICES
END	ILIAC CREST	SYMPHYSIS PUBIS
DFOV	<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE	40 SEC
	SIEMENS	70 SEC
PREP GROUP	GE	40 SEC
	SIEMENS	70 SEC

16 SLICE – GE

PARAMETER	GROUP 1 (ART LIVER)		GROUP 2 (PV C/A/P)	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.8 SEC		0.8 SEC	
THICKNESS	5.0		5.0	
PITCH	1.375:1		1.375:1	
SPEED	27.50		27.50	
INTERVAL	5.0		5.0	
GANTRY TILT				
SCAN FOV	LARGE		LARGE	
kVp	120		120	
mA	AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	16.28		16.20	
DOSE REDUCTION				
ASiR/MODE	40% / PLUS		40% / PLUS	
ALGORITHM	STD	STANDARD	STD	STANDARD
REFORMATS	ART-PV		ART-PV	
THICK/INCR.			Lung	3.75 q 3.75
ALGORITHM				LUNG
REFORMATS				
ASiR/MODE				40% / FULL
THICK/INCR.	STD ART	3.75 q 3.75		
ALGORITHM		STANDARD		
REFORMATS				
ASiR/MODE		40% / PLUS		
THICK/INCR.			STD	3.75 q 3.75
ALGORITHM				STANDARD
REFORMATS				
ASiR/MODE				40% / PLUS
THICK/INCR.	STD THN ART	1.25 q 0.700		
ALGORITHM		STANDARD		
REFORMATS		COR 3 ART / SAG 3 ART		
ASiR/MODE		40% / PLUS		
THICK/INCR.			STD THN	1.25 q 0.700
ALGORITHM				STANDARD
REFORMATS				COR 3 / SAG 3
ASiR/MODE				40% / PLUS

Estimated CTDI	24.22
Estimated DLP	1125.97

64 SLICE – GE VCT

PARAMETER	GROUP 1 (ART. LIVER)		GROUP 2 (PV C/A/P)	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.5 SEC		0.5 SEC	
THICKNESS	5.0		5.0	
PITCH	0.984:1		0.984:1	
SPEED	39.37		39.37	
INTERVAL	5.0		5.0	
GANTRY TILT				
SCAN FOV	LARGE BODY		LARGE BODY	
kVp	120		120	
mA	AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	13.88		13.88	
DOSE REDUCTION	40%		40%	
ASIR/MODE	40% / PLUS		40% / PLUS	
ALGORITHM	STD ART-PV	STANDARD	STD ART-PV	STANDARD
REFORMATS				
THICK/INCR.			Lung	3.75 q 3.75
ALGORITHM				LUNG
REFORMATS				
ASiR/MODE				40% / FULL
THICK/INCR.	STD ART	3.75 q 3.75		
ALGORITHM		STANDARD		
REFORMATS				
ASiR/MODE		40% / PLUS		
THICK/INCR.			STD	3.75 q 3.75
ALGORITHM				STANDARD
REFORMATS				
ASiR/MODE				40% / PLUS
THICK/INCR.	STD THN ART	0.625 q 0.625		
ALGORITHM		STANDARD		
REFORMATS		COR 3 ART / SAG 3 ART		
ASiR/MODE		40% / PLUS-E		
THICK/INCR.			STD THN	0.625 q 0.625
ALGORITHM				STANDARD
REFORMATS				COR 3 / SAG 3
ASiR/MODE				40% / PLUS-E

Estimated CTDI	23.20
Estimated DLP	934.93

196(2) – SIEMENS FORCE

PARAMETER	DE ART LIVER		DE PV CAP	
SCAN TYPE				
ROTATION TIME	0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		3.0mm	
PITCH	0.6		0.6	
SPEED				
INTERVAL	3.0mm		3.0mm	
GANTRY TILT				
SCAN FOV				
kVp	100 / Sn 150		100 / Sn 150	
mAs	CARE Dose4D		CARE Dose4D	
NOISE INDEX				
DOSE REDUCTION				
DFOV	<TO PATIENT>		<TO PATIENT>	
PREP GROUP	40 SEC		25 SEC	
KERNEL	STD	Br36	STD	Br36
ADMIRE	ART	3		3
THICK/INCR.	DE #PP STD THN ART	1.5 q 1.0	DE # STD THN	1.5 q 1.0
KERNEL		Qr40		Qr40
ADMIRE		3		3
THICK/INCR.	COR 3 ART	3.0 q 3.0	Lung	3.0 q 3.0
KERNEL		Br36		BI57
ADMIRE		3		3
THICK/INCR.	SAG 3 ART	3.0 q 3.0	COR 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	STD THN ART	0.6 q 0.6	SAG 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.			STD THN	0.6 q 0.6
KERNEL				Br36
ADMIRE				3

Estimated CTDI	20.96
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

*** XXL PATIENTS – SEE [XXL MULTIPHASE A/P](#)***

LIVER – 2 PHASE & CHEST/ABDOMEN/PELVIS

LIVER – 3 PHASE

REVISED: 8/24/18

INDICATION	EVAL HEMANGIOMA / HCC / CIRRHOSIS
ORAL PREP	
SCAN	<ol style="list-style-type: none"> 1. I+ LATE ARTERIAL PHASE LIVER ONLY – 40 SEC AFTER START OF INJECTION 2. I+ PV PHASE – ENTIRE ABDOMEN 60-70 SEC AFTER START OF INJECTION 3. I+ DELAY – LIVER ONLY ~ 5 MINUTES AFTER START OF INJECTION
RECON	<ul style="list-style-type: none"> • 3.75mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES) • 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES)
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL (ALL PHASES)
3D POST PROCESSING	NONE

IV SIZE	20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	
BREATHING	EXPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER		ART	PV	DELAY
START		ABOVE DIAPHRAGM	ABOVE DIAPHRAGM	ABOVE DIAPHRAGM
END		ILIAC CREST	ILIAC CREST	ILIAC CREST
DFOV		<TO PATIENT>	<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE	40 SEC	70 SEC	5 MINS
	SIEMENS			

16 SLICE - GE

PARAMETER	ART		PV		DELAY	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.8 SEC		0.8 SEC		0.8 SEC	
THICKNESS	5.0		5.0		5.0	
PITCH	1.375:1		1.375:1		1.375:1	
SPEED	27.50		27.50		27.50	
INTERVAL	5.0		5.0		5.0	
GANTRY TILT						
SCAN FOV	LARGE BODY		LARGE BODY		LARGE BODY	
kVp	120		120		120	
mA	AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440	
NOISE INDEX	14.40		14.40		14.40	
DOSE REDUCTION						
ASiR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD	STANDARD	STD	STANDARD	STD	STANDARD
REFORMATS	ART-PV		ART-PV		Delay	
THICK/INCR.	STD ART	3.75 q 3.75			STD THN Delay	1.25 q 0.700
ALGORITHM		STANDARD				STANDARD
REFORMATS						COR 3 Delay / SAG 3 Delay
ASiR/MODE		40% / PLUS				40% / PLUS
THICK/INCR.			STD			3.75 q 3.75
ALGORITHM						STANDARD
REFORMATS						
ASiR/MODE						40% / PLUS
THICK/INCR.	STD THN ART	1.25 q 0.700				
ALGORITHM		STANDARD				
REFORMATS		COR 3 ART / SAG 3 ART				
ASiR/MODE		40% / PLUS				
THICK/INCR.						1.25 q 0.700
ALGORITHM						STANDARD
REFORMATS						COR 3 / SAG 3
ASiR/MODE						40% / PLUS

Estimated CTDI	43.87
Estimated DLP	1152.14

64 SLICE – GE VCT

PARAMETER	ART		PV		DELAY	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC		0.6 SEC	
THICKNESS	5.0		5.0		3.75	
PITCH	0.984:1		0.984:1		0.984:1	
SPEED	39.37		39.37		39.37	
INTERVAL	5.0		5.0		3.75	
GANTRY TILT						
SCAN FOV	LARGE BODY		LARGE BODY		LARGE BODY	
kVp	120		120		120	
mA	AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	12.00		12.00		13.86	
DOSE REDUCTION	40%		40%		40%	
ASiR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD	STANDARD	STD	STANDARD	STD	STANDARD
REFORMATS	ART- PV		ART- PV		Delay	
THICK/INCR.	STD ART	3.75 q 3.75			STD THN Delay	0.625 q 0.625
ALGORITHM		STANDARD				STANDARD
REFORMATS						COR 3 Delay / SAG 3 Delay
ASiR/MODE		40% / PLUS				40% / PLUS-E
THICK/INCR.			STD			3.75 q 3.75
ALGORITHM						STANDARD
REFORMATS						
ASiR/MODE						40% / PLUS
THICK/INCR.	STD THN ART	0.625 q 0.625				
ALGORITHM		STANDARD				
REFORMATS		COR 3 ART / SAG 3 ART				
ASiR/MODE		40% / PLUS-E				
THICK/INCR.			STD THN			0.625 q 0.625
ALGORITHM						STANDARD
REFORMATS						COR 3 / SAG 3
ASiR/MODE						40% / PLUS-E

Estimated CTDI	46.15
Estimated DLP	1387.27

196 (2) SLICE – SIEMENS FORCE

PROTOCOL COMING SOON!!

Estimated CTDI	
Estimated DLP	

LIVER – POST RFA / FATTY LIVER

REVISED: 8/24/18

INDICATION	'FATTY LIVER PROTOCOL' FOR GI, POST RFA/EMBO
ORAL PREP	
SCAN	<ol style="list-style-type: none"> 1. I- LIVER ONLY 2. I+ LATE ARTERIAL PHASE – LIVER ONLY – 40 SEC AFTER START OF INJECTION 3. I+ PV PHASE – ENTIRE ABDOMEN – 60-70 SEC AFTER START OF INJECTION
RECON	<ul style="list-style-type: none"> • 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES) • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES)
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL (ALL PHASES)
3D POST PROCESSING	NONE

IV SIZE	20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGMS
BREATHING	EXPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER		I-	ART	PV
START		ABOVE DIAPHRAGM	ABOVE DIAPHRAGM	ABOVE DIAPHRAGM
END		ILIAC CREST	ILIAC CREST	ILIAC CREST
DFOV		<TO PATIENT>	<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE		40 SEC	70 SEC
	SIEMENS		40 SEC	70 SEC

16 SLICE - GE

PARAMETER	I-		ART		PV	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.8 SEC		0.8 SEC		0.8 SEC	
THICKNESS	3.75		5.0		5.0	
PITCH	1.375:1		1.375:1		1.375:1	
SPEED	27.50		27.50		27.50	
INTERVAL	3.75		5.0		5.0	
GANTRY TILT						
SCAN FOV	LARGE BODY		LARGE BODY		LARGE BODY	
kVp	120		120		120	
mA	AUTO mA TO 440		AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	13.36		14.40		14.40	
DOSE REDUCTION						
ASiR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD WO	STANDARD	STD ART- PV	STANDARD	STD ART- PV	STANDARD
REFORMATS						
THICK/INCR.	STD THN WO	1.25 q 0.700	STD ART	3.75 q 3.75		
ALGORITHM		STANDARD		STANDARD		
REFORMATS		COR 3 WO / SAG 3 WO				
ASiR/MODE		40% / PLUS		40% / PLUS		
THICK/INCR.					STD	3.75 q 3.75
ALGORITHM						STANDARD
REFORMATS						
ASiR/MODE						40% / PLUS
THICK/INCR.			STD THN ART	1.25 q 0.700		
ALGORITHM				STANDARD		
REFORMATS				COR 3 ART / SAG 3 ART		
ASiR/MODE				40% / PLUS		
THICK/INCR.					STD THN	1.25 q 0.700
ALGORITHM						STANDARD
REFORMATS						COR 3 / SAG 3
ASiR/MODE						40% / PLUS

Estimated CTDI	50.32
Estimated DLP	1303.68

LIVER – POST RFA/FATTY LIVER

64 SLICE – GE VCT

PARAMETER	I-		ART		PV	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC		0.6 SEC	
THICKNESS	3.75		5.0		5.0	
PITCH	0.984:1		0.984:1		0.984:1	
SPEED	39.37		39.37		39.37	
INTERVAL	3.75		5.0		5.0	
GANTRY TILT						
SCAN FOV	LARGE BODY		LARGE BODY		LARGE BODY	
kVp	120		120		120	
mA	AUTO mA to 700 W/ SMART mA		AUTO mA to 700 W/ SMART mA		AUTO mA to 700 W/ SMART mA	
NOISE INDEX	13.86		12.00		12.00	
DOSE REDUCTION	40%		40%		40%	
ASiR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD WO	STANDARD	STD ART- PV	STANDARD	STD ART- PV	STANDARD
REFORMATS						
THICK/INCR.	STD THN WO	0.625 q 0.625	STD ART	3.75 q 3.75		
ALGORITHM		STANDARD		STANDARD		
REFORMATS		COR 3 WO / SAG 3 WO				
ASiR/MODE		40% / PLUS-E		40% / PLUS		
THICK/INCR.					STD	3.75 q 3.75
ALGORITHM						STANDARD
REFORMATS						
ASiR/MODE						40% / PLUS
THICK/INCR.			STD THN ART	0.625 q 0.625		
ALGORITHM				STANDARD		
REFORMATS				COR 3 ART / SAG 3 ART		
ASiR/MODE				40% / PLUS-E		
THICK/INCR.					STD THN	0.625 q 0.625
ALGORITHM						STANDARD
REFORMATS						COR 3 / SAG 3
ASiR/MODE						40% / PLUS-E

Estimated CTDI	46.15
Estimated DLP	1387.27

LIVER – POST RFA/FATTY LIVER

196 (2) SLICE – SIEMENS FORCE

PARAMETER	DE LIVER WO		DE LIVER W		DE LIVER DELAY	
SCAN TYPE						
ROTATION TIME	0.5 SEC		0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		3.0mm		3.0mm	
PITCH	0.6		0.6		0.6	
SPEED						
INTERVAL	3.0mm		3.0mm		3.0mm	
GANTRY TILT						
SCAN FOV						
kVp	100 / Sn150		100 / Sn150		100 / Sn150	
mAs	CARE Dose4D		CARE Dose4D		CARE Dose4D	
NOISE INDEX						
DOSE REDUCTION						
DFOV	<TO PATIENT>		<TO PATIENT>		<TO PATIENT>	
PREP GROUP			25 SEC		45 SEC	
KERNEL	STD	Br36	STD	Br36	STD	Br36
ADMIRE	WO	3		3	Delay	3
THICK/INCR.	DE	1.5 q 1.0	DE	1.5 q 1.0	DE	1.5 q 1.0
KERNEL	#PP	Br36	#PP	Qr40	#PP	Qr40
ADMIRE	STD		STD		STD	3
	THN		THN	3	Delay	
	WO	3				
THICK/INCR.	COR 3	3.0 q 3.0	COR 3	3.0 q 3.0	COR 3	3.0 q 3.0
KERNEL	WO	Br36		Br36	Delay	Br36
ADMIRE		3		3		3
THICK/INCR.	SAG 3	3.0 q 3.0	SAG 3	3.0 q 3.0	SAG 3	3.0 q 3.0
KERNEL	WO	Br36		Br36	Delay	Br36
ADMIRE		3		3		3
THICK/INCR.	STD	0.6 q 0.6	STD	0.6 q 0.6	STD	0.6 q 0.6
KERNEL	THN	Br36	THN	Br36	THN	Br36
ADMIRE	WO	3		3	Delay	3

Estimated CTDI	31.44
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

*** XXL PATIENTS – SEE [XXL MULTIPHASE A/P](#)***

LIVER – POST RFA/FATTY LIVER

PANCREAS

REVISED: 8/24/18

INDICATION	EVALUATE MASS, PANCREATITIS
ORAL PREP	WATER
SCAN	<ol style="list-style-type: none"> 1. PANCREATIC PHASE: ~35 SEC AFTER INJECTION STARTS, ABDOMEN ONLY, AS THIN AS POSSIBLE 2. PV PHASE: 60-70 SEC AFTER INJECTION STARTS, ABDOMEN
RECON	<ul style="list-style-type: none"> • 2.5mm / 3.0mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES) • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES)
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL
3D POST PROCESSING	CURVED REFORMAT OF PANCREATIC DUCT ON LATE ARTERIAL PHASE – BY REQUEST ONLY

IV SIZE	18g OR 20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4-5cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGMS
BREATHING	INSPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER	ARTERIAL ABD	PV ABD/PELVIS	
START	ABOVE DIAPHRAGM	ABPVE DIAPHRAGM	
END	ILIAC CREST	ILIAC CREST	
DFOV	<TO PATIENT>	<TO PATIENT>	
PREP GROUP	GE	35 SEC	70 SEC
	SIEMENS	35 SEC	70 SEC

16 SLICE – GE

PARAMETER	ARTERIAL PANC		PV PANC	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.8 SEC		0.8 SEC	
THICKNESS	2.5		2.5	
PITCH	1.375:1		1.375:1	
SPEED	27.50		27.50	
INTERVAL	2.5		2.5	
GANTRY TILT				
SCAN FOV	LARGE		LARGE	
kVp	120		120	
mA	AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	18.17		18.17	
DOSE REDUCTION				
ASiR/MODE	40% / PLUS		40% / PLUS	
ALGORITHM	STD ART- PV	STANDARD	STD ART- PV	STANDARD
REFORMATS				
THICK/INCR.	STD ART	2.5 q 2.5		
ALGORITHM		STANDARD		
REFORMATS				
ASiR/MODE		40% / PLUS		
THICK/INCR.			STD	2.5 q 2.5
ALGORITHM				STANDARD
REFORMATS				
ASiR/MODE				40% / PLUS
THICK/INCR.	STD THN ART	1.25 q 0.700		
ALGORITHM		STANDARD		
REFORMATS		COR 3 ART / SAG 3 ART		
ASiR/MODE		40% / PLUS		
THICK/INCR.			STD THN	1.25 q 0.700
ALGORITHM				STANDARD
REFORMATS				COR 3 / SAG 3
ASiR/MODE				40% / PLUS

Estimated CTDI	14.13
Estimated DLP	466.93

PANCREAS

64 SLICE – GE VCT

PARAMETER	ARTERIAL PANC		PV PANC	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC	
THICKNESS	2.5		2.5	
PITCH	0.984:1		0.984:1	
SPEED	39.37		39.37	
INTERVAL	2.5		2.5	
GANTRY TILT				
SCAN FOV	LARGE BODY		LARGE BODY	
kVp	120		120	
mA	AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	15.00		15.00	
DOSE REDUCTION	40%		40%	
ASIR/MODE	40% / PLUS		40% / PLUS	
ALGORITHM	STD ART- PV	STANDARD	STD ART-PV	STANDARD
REFORMATS				
THICK/INCR.	STD ART	2.5 q 2.5		
ALGORITHM		STANDARD		
REFORMATS				
ASIR/MODE		40% / PLUS		
THICK/INCR.			STD	2.5 q 2.5
ALGORITHM				STANDARD
REFORMATS				
ASIR/MODE				40% / PLUS
THICK/INCR.	STD THN ART	0.625 q 0.625		
ALGORITHM		STANDARD		
REFORMATS		COR 3 ART / SAG 3 ART		
ASIR/MODE		40% / PLUS-E		
THICK/INCR.			STD THN	0.625 q 0.625
ALGORITHM				STANDARD
REFORMATS				COR 3 / SAG 3
ASIR/MODE				40% / PLUS-E

Estimated CTDI	18.45
Estimated DLP	549.81

196(2) – SIEMENS FORCE

PARAMETER	ART PANC		PV ABDOMEN	
SCAN TYPE				
ROTATION TIME	0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		3.0mm	
PITCH	0.6		0.6	
SPEED				
INTERVAL	3.0mm		3.0mm	
GANTRY TILT				
SCAN FOV				
kVp	100 / Sn150		100 / Sn150	
mAs	CARE Dose4D		CARE Dose4D	
NOISE INDEX				
DOSE REDUCTION				
DFOV	<TO PATIENT>		<TO PATIENT>	
PREP GROUP	35 SEC		30 SEC	
KERNEL	STD	Br36	STD	Br36
ADMIRE	ART	3		3
THICK/INCR.	DE #PP	1.5 q 1.0	DE #PP	1.5 q 1.0
KERNEL	STD	Qr40	STD	Qr40
ADMIRE	THN ART	3	THN	3
THICK/INCR.	COR 3 ART	3.0 q 3.0	COR 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	SAG 3 ART	3.0 q 3.0	SAG 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	STD THN ART	0.6 q 0.6	STD THN	0.6 q 0.6
KERNEL		Br36		Br36
ADMIRE		3		3

Estimated CTDI	20.96
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

*** XXL PATIENTS – SEE [XXL MULTIPHASE A/P](#)***

PANCREAS & CHEST/ABDOMEN/PELVIS

REVISED: 8/24/18

INDICATION	EVALUATE MASS, PANCREATITIS
ORAL PREP	WATER
SCAN	<ol style="list-style-type: none"> 1. PANCREATIC PHASE: ~35 SEC AFTER INJECTION STARTS, ABDOMEN ONLY, AS THIN AS POSSIBLE 2. PV PHASE: 60-70 SEC AFTER INJECTION STARTS, CHEST, ABDOMEN AND PELVIS
RECON	<ul style="list-style-type: none"> • 2.5mm / 3.0mm AXIAL RECONS – STANDARD ALGORITHM (ARTERIAL PHASE) • 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM (PV PHASE) • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES) • 3.0mm / 3.75mm AXIAL RECONS – LUNG ALGORITHM
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL
3D POST PROCESSING	CURVED REFORMAT OF PANCREATIC DUCT ON LATE ARTERIAL PHASE

IV SIZE	18g OR 20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4-5cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	STERNAL NOTCH
	SIEMENS	ABOVE DIAPHRAGM
BREATHING	INSPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER		ARTERIAL ABD	PV CAP
START		ABOVE DIAPHRAGM	ABOVE APICES
END		ILIAC CREST	BELOW SYMPHYSIS PUBIS
DFOV		<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE	35 SEC	70 SEC
	SIEMENS	35 SEC	70 SEC

16 SLICE – GE

PARAMETER	GROUP 1 (ART ABD)		GROUP 2 (PV C/A/P)	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.8 SEC		0.5 SEC	
THICKNESS	2.5		5.0	
PITCH	1.375:1		1.375: 1	
SPEED	27.50		27.50	
INTERVAL	2.5		5.0	
GANTRY TILT				
SCAN FOV	LARGE		LARGE	
kVp	120		120	
mA	AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	18.71		17.31	
DOSE REDUCTION				
ASIR	40% / PLUS		40% / PLUS	
ALGORITHM	STD	STANDARD	STD	STANDARD
REFORMATS	ART-PV		ART-PV	
THICK/INCR.	STD ART	2.5 q 2.5		
ALGORITHM		STANDARD		
REFORMATS				
ASIR/MODE		40% / PLUS		
THICK/INCR.			STD	3.75 q 3.75
ALGORITHM				STANDARD
REFORMATS				
ASIR/MODE				40% / PLUS
THICK/INCR.			STD PV	2.5 q 2.5
ALGORITHM				STANDARD
REFORMATS				
ASIR/MODE				40% / PLUS
THICK/INCR.			Lung	3.75 q 3.75
ALGORITHM				LUNG
REFORMATS				
ASIR/MODE				40% FULL
THICK/INCR.	STD THN ART	1.25 q 0.700		
ALGORITHM		STANDARD		
REFORMATS		COR 3 ART / SAG 3 ART		
ASIR/MODE		40% / PLUS		
THICK/INCR.			STD THN	1.25 q 0.700
ALGORITHM				STANDARD

PANCREAS & CHEST/ABDOMEN/PELVIS

REFORMATS				COR 3 / SAG 3
ASiR/MODE				40% / PLUS

Estimated CTDI	15.30
Estimated DLP	821.38

64 SLICE – GE VCT

PARAMETER	GROUP 1 (ART ABD)		GROUP 2 (PV C/A/P)	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC	
THICKNESS	2.5		5.0	
PITCH	0.984:1		0.984:1	
SPEED	39.37		39.37	
INTERVAL	2.5		5.0	
GANTRY TILT				
SCAN FOV	LARGE BODY		LARGE BODY	
kVp	120		120	
mA	AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	15.00		15.00	
DOSE REDUCTION	40%		40%	
ASiR/MODE	40% / PLUS		40% / PLUS	
ALGORITHM	STD	STANDARD	STD	STANDARD
REFORMATS	ART-PV		ART-PV	
THICK/INCR.	STD ART	2.5 q 2.5		
ALGORITHM		STANDARD		
REFORMATS				
ASiR/MODE		40% / PLUS		
THICK/INCR.			STD	3.75 q 3.75
ALGORITHM				STANDARD
REFORMATS				
ASiR/MODE				40% / PLUS
THICK/INCR.			STD PV	2.5 q 2.5
ALGORITHM				STANDARD
REFORMATS				
ASiR/MODE				40% / PLUS
THICK/INCR.			Lung	3.75 q 3.75
ALGORITHM				LUNG
REFORMATS				
ASiR/MODE				40% / FULL
THICK/INCR.	STD THN ART	0.625 q 0.625		
ALGORITHM		STANDARD		
REFORMATS		COR 3 ART / SAG 3 ART		
ASiR/MODE		40% / PLUS-E		
THICK/INCR.			STD THN	0.625 q 0.625
ALGORITHM				STANDARD

REFORMATS				COR 3 / SAG 3
ASiR/MODE				0% / PLUS-E

Estimated CTDI	18.59
Estimated DLP	841.99

196(2) – SIEMENS FORCE

PARAMETER	DE PANCREAS		DE PV CAP	
SCAN TYPE				
ROTATION TIME	0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		3.0mm	
PITCH	0.6		0.6	
SPEED				
INTERVAL	3.0mm		3.0mm	
GANTRY TILT				
SCAN FOV				
kVp	100 / Sn 150		100 / Sn 150	
mAs	CARE Dose4D		CARE Dose4D	
NOISE INDEX				
DOSE REDUCTION				
DFOV	<TO PATIENT>		<TO PATIENT>	
PREP GROUP	35 SEC		30 SEC	
KERNEL	STD ART	Br36	STD	Br36
ADMIRE		3		3
THICK/INCR.	DE #PP STD THN ART	1.5 q 1.0	DE #PP STD THN	1.5 q 1.0
KERNEL		Qr40		Qr40
ADMIRE		3		3
THICK/INCR.	COR 3 ART	3.0 q 3.0	Lung	3.0 q 3.0
KERNEL		Br36		BI57
ADMIRE		3		3
THICK/INCR.	SAG 3 ART	3.0 q 3.0	COR 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	STD THN ART	0.6 q 0.6	SAG 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.			STD THN	0.6 q 0.6
KERNEL				Br36
ADMIRE				3

Estimated CTDI	20.96
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

*** XXL PATIENTS – SEE [XXL MULTIPHASE A/P](#)***

PANCREAS & CHEST/ABDOMEN/PELVIS

PANCREAS & PELVIS

REVISED: 8/24/18

INDICATION	EVALUATE MASS, PANCREATITIS
ORAL PREP	WATER
SCAN	<ol style="list-style-type: none"> 1. PANCREATIC PHASE: ~35 SEC AFTER INJECTION STARTS, ABDOMEN ONLY, AS THIN AS POSSIBLE 2. PV PHASE: 60-70 SEC AFTER INJECTION STARTS, ABDOMEN AND PELVIS
RECON	<ul style="list-style-type: none"> • 2.5mm / 3.0mm AXIAL RECONS – STANDARD ALGORITHM (PANCREAS) • 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM (PELVIS) • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL
3D POST PROCESSING	CURVED REFORMAT OF PANCREATIC DUCT ON LATE ARTERIAL PHASE – BY REQUEST ONLY

IV SIZE	18g OR 20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4-5cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	STERNAL NOTCH
	SIEMENS	ABOVE DIAPHRAGMS
BREATHING	INSPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER	ARTERIAL ABD	PV ABD/PELVIS	
START	ABOVE DIAPHRAGM	ABOVE DIAPHRAGM	
END	ILIAC CREST	BELOW SYMPHYSIS PUBIS	
DFOV	<TO PATIENT>	<TO PATIENT>	
PREP GROUP	GE	35 SEC	70 SEC
	SIEMENS	35 SEC	70 SEC

16 SLICE – GE

PARAMETER	GROUP 1 (ART PANC)		GROUP 2 (PV PANC)		GROUP 3 (PELVIS)	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.8 SEC		0.8 SEC		0.8 SEC	
THICKNESS	2.5		2.5		3.75	
PITCH	1.375:1		1.375:1		1.375:1	
SPEED	27.50		27.50		27.50	
INTERVAL	2.5		2.5		3.75	
GANTRY TILT						
SCAN FOV	LARGE		LARGE		LARGE	
kVp	120		120		120	
mA	AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	18.71		18.71		18.80	
DOSE REDUCTION						
ASiR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD	STANDARD	STD	STANDARD	STD	STANDARD
REFORMATS	ART- PV		ART- PV		ART- PV	
THICK/INCR.	STD ART	2.5 q 2.5				
ALGORITHM		STANDARD				
REFORMATS						
ASiR/MODE		40% / PLUS				
THICK/INCR.			STD	2.5 q 2.5	3.75 q 3.75	
ALGORITHM				STANDARD		
REFORMATS						
ASiR/MODE				40% / PLUS		
THICK/INCR.	STD THN ART	1.25 q 0.700				
ALGORITHM		STANDARD				
REFORMATS		COR 3 ART / SAG 3 ART				
ASiR/MODE		40% / PLUS				
THICK/INCR.			STD THN	1.25 q 0.700		
ALGORITHM				STANDARD		
REFORMATS				COR 3 / SAG 3		
ASiR/MODE				40% / PLUS		

Estimated CTDI	18.75
Estimated DLP	570.38

64 SLICE – GE VCT

PARAMETER	GROUP 1 (ART PANC)		GROUP 2 (PV PANC)		GROUP 3 (PELVIS)	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC		0.6 SEC	
THICKNESS	2.5		2.5		5.0	
PITCH	0.984:1		0.984:1		0.984:1	
SPEED	39.37		39.37		39.37	
INTERVAL	2.5		2.5		5.0	
GANTRY TILT						
SCAN FOV	LARGE BODY		LARGE BODY		LARGE BODY	
kVp	120		120		120	
mA	AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	15.00		15.00		13.88	
DOSE REDUCTION	40%		40%		40%	
ASIR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD THN	STANDARD	STD THN	STANDARD	STD THN	STANDARD
REFORMATS	ART-PV		ART-PV		ART-PV	
THICK/INCR.	STD ART	2.5 q 2.5				
ALGORITHM		STANDARD				
REFORMATS						
ASIR/MODE		40% / PLUS				
THICK/INCR.			STD	2.5 q 2.5	3.75 q 3.75	
ALGORITHM				STANDARD		
REFORMATS						
ASIR/MODE				40% / PLUS		
THICK/INCR.	STD THN ART	0.625 q 0.625				
ALGORITHM		STANDARD				
REFORMATS		COR 3 ART / SAG 3 ART				
ASIR/MODE		40% / PLUS-E				
THICK/INCR.			STD THN	0.625 q 0.625		
ALGORITHM				STANDARD		
REFORMATS				COR/SAG		
ASIR/MODE				40% / PLUS-E		

Estimated CTDI	25.97
Estimated DLP	729.78

196(2) – SIEMENS FORCE

PARAMETER	DE ART PANC		DE PV AP	
SCAN TYPE				
ROTATION TIME	0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		3.0mm	
PITCH	0.6		0.6	
SPEED				
INTERVAL	3.0mm		3.0mm	
GANTRY TILT				
SCAN FOV				
kVp	100 / Sn150		100 / Sn150	
mAs	CARE Dose4D		CARE Dose4D	
NOISE INDEX				
DOSE REDUCTION				
DFOV	<TO PATIENT>		<TO PATIENT>	
PREP GROUP	35 SEC		30 SEC	
KERNEL	STD ART	Br36	STD	Br36
ADMIRE		3		3
THICK/INCR.	DE #PP STD THN ART	1.5 q 1.0	DE #PP STD THN	1.5 q 1.0
KERNEL		Qr40		Qr40
ADMIRE		3		3
THICK/INCR.	COR 3 ART	3.0 q 3.0	COR 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	SAG 3 ART	3.0 q 3.0	SAG 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	STD THN ART	0.6 q 0.6	STD THN	0.6 q 0.6
KERNEL		Br36		Br36
ADMIRE		3		3

Estimated CTDI	20.96
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

*** XXL PATIENTS – SEE [XXL MULTIPHASE A/P](#)***

PELVIS

REVISED: 8/24/18

INDICATION	
ORAL PREP	SELECT FROM LIST
SCAN	PV PHASE: 90 SEC DELAY AFTER START OF INJECTION
RECON	<ul style="list-style-type: none">• 3.75mm AXIAL RECONS – STANDARD ALGORITHM• 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM
REFORMAT	<ul style="list-style-type: none">○ 3mm CORONAL AND SAGITTAL
3D POST PROCESSING	NONE

IV SIZE		
IV CONTRAST	WEIGHT BASED	
INJECTION RATE		
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	ILIAC CREST
	SIEMENS	
BREATHING		NONE
SCOUTS		AP AND LATERAL

PARAMETER		SCAN
START		ABOVE CREST
END		BELOW SYMPHYSIS PUBIS
DFOV		<TO PATIENT>
PREP GROUP	GE	90 SEC
	SIEMENS	

16 SLICE – GE

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.8 SEC	
THICKNESS	3.75	
PITCH	1.375:1	
SPEED	27.50	
INTERVAL	3.75	
GANTRY TILT		
SCAN FOV	LARGE	
kVp	120	
mA	AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	19.30	
DOSE REDUCTION		
ASiR/MODE	40% / PLUS	
ALGORITHM	STD	STANDARD
REFORMATS		
THICK/INCR.	STD THN	1.25 q 0.700
ALGORITHM		STANDARD
REFORMATS		COR 3 / SAG 3
ASiR/MODE		40% / PLUS

Estimated CTDI	23.68
Estimated DLP	654.52

64 SLICE – GE VCT

PARAMETER	SCAN	
SCAN TYPE	HELICAL FULL	
ROTATION TIME	0.6 SEC	
THICKNESS	3.75	
PITCH	1.375:1	
SPEED	55.00	
INTERVAL	3.75	
GANTRY TILT		
SCAN FOV	LARGE BODY	
kVp	120	
mA	AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	16.63	
DOSE REDUCTION	40%	
ASiR/MODE	40% / PLUS	
ALGORITHM	STD	STANDARD
REFORMATS		
THICK/INCR.	STD THN	0.625 q 0.625
ALGORITHM		STANDARD
REFORMATS		COR 3 / SAG 3
ASiR/MODE		40% / PLUS-E

Estimated CTDI	14.66
Estimated DLP	511.60

196(2) – SIEMENS FORCE

PROTOCOL COMING SOON!!

Estimated CTDI	
Estimated DLP	

RENAL MASS

REVISED: 8/24/18

INDICATION	? MASS / F/U KNOWN MASS / RFA
ORAL PREP	NONE
SCAN	<ol style="list-style-type: none"> 1. NON-CONTRAST - KIDNEYS ONLY 2. I+ NEPRHOGRAPHIC PHASE ~90 SEC AFTER INJECTION - ABDOMEN 3. 5 MINUTE DELAY - KIDNEYS ONLY
RECON	<ul style="list-style-type: none"> • 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES) • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS - STANDARD ALGORITHM
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL
3D POST PROCESSING	None

IV SIZE	18g OR 20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGM
BREATHING	EXPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER		NON-CONTRAST	PV PHASE	DELAYED
START		ABOVE KIDNEYS	ABOVE DIAPHRAGM	ABOVE KIDNEYS
END		BELOW KIDNEYS	ILIAC CREST	BELOW KIDNEYS
DFOV		<TO PATIENT>	<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE	NONE	90 SEC	5 MINUTE
	SIEMENS	NONE	90 SEC	5 MINUTE

16 SLICE – GE

PARAMETER	NON-CONTRAST		PV PHASE		DELAYED	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.8 SEC		0.8 SEC		0.8 SEC	
THICKNESS	3.75		3.75		3.75	
PITCH	1.375:1		1.375:1		1.375:1	
SPEED	27.50		27.50		27.50	
INTERVAL	3.75		3.75		3.75	
GANTRY TILT						
SCAN FOV	LARGE		LARGE		LARGE	
kVp	120		120		120	
mA	AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	18.01		18.36		18.36	
DOSE REDUCTION						
ASiR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD WO	STANDARD	STD	STANDARD	STD Delay	STANDARD
REFORMATS						
THICK/INCR.	STD THN WO	1.25 q 0.700	STD THN	1.25 q 0.700	STD THN Delay	1.25 q 0.700
ALGORITHM		STANDARD		STANDARD		STANDARD
REFORMATS		COR 3 WO / SAG 3 WO		COR 3 / SAG 3		COR 3 Delay / SAG 3 Delay
ASiR/MODE		40% / PLUS		40% / PLUS		40% / PLUS

Estimated CTDI	38.66
Estimated DLP	1016.17

64 SLICE – GE VCT

PARAMETER	NON-CONTRAST		PV PHASE		DELAYED	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC		0.6 SEC	
THICKNESS	3.75		3.75		3.75	
PITCH	0.984:1		0.984:1		0.984:1	
SPEED	39.37		39.37		39.37	
INTERVAL	3.75		3.75		3.75	
GANTRY TILT						
SCAN FOV	LARGE BODY		LARGE BODY		LARGE BODY	
kVp	120		120		120	
mA	AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	15.59		15.59		15.59	
DOSE REDUCTION	40%		40%		40%	
ASIR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD WO	STANDARD	STD	STANDARD	STD Delay	STANDARD
REFORMATS						
THICK/INCR.	STD THN WO	0.625 q 0.625	STD THN	0.625 q 0.625	STD THN Delay	0.625 q 0.625
ALGORITHM		STANDARD		STANDARD		STANDARD
REFORMATS		COR 3 WO / SAG 3 WO		COR 3 / SAG 3		COR 3 Delay / SAG 3 Delay
ASiR/MODE		40% / PLUS-E		40% / PLUS-E		40% / PLUS-E

Estimated CTDI	23.55
Estimated DLP	707.84

196(2) – SIEMENS FORCE

PARAMETER	DE KIDNEY WO		DE KIDNEY W		DE KIDNEY DELAY	
SCAN TYPE						
ROTATION TIME	0.5 SEC		0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		3.0mm		3.0mm	
PITCH	0.6		0.6		0.6	
SPEED						
INTERVAL	3.0mm		3.0mm		3.0mm	
GANTRY TILT						
SCAN FOV						
kVp	100 / Sn150		100 / Sn150		100 / Sn150	
mAs	CARE Dose4D		CARE Dose4D		CARE Dose4D	
NOISE INDEX						
DOSE REDUCTION						
DFOV	<TO PATIENT>		<TO PATIENT>		<TO PATIENT>	
PREP GROUP			90 SEC		5 MINS	
KERNEL	STD WO	Br36	STD	Br36	STD Delay	Br36
ADMIRE		3		3		3
THICK/INCR.	DE #PP STD THN WO	1.5 q 1.0	DE #PP STD THN	1.5 q 1.0	DE #PP STD THN Delay	1.5 q 1.0
KERNEL		Br36		Qr40		Qr40
ADMIRE		3		3		3
THICK/INCR.	COR 3 WO	3.0 q 3.0	COR 3	3.0 q 3.0	COR 3 Delay	3.0 q 3.0
KERNEL		Br36		Br36		Br36
ADMIRE		3		3		3
THICK/INCR.	SAG 3 WO	3.0 q 3.0	SAG 3	3.0 q 3.0	SAG 3 Delay	3.0 q 3.0
KERNEL		Br36		Br36		Br36
ADMIRE		3		3		3
THICK/INCR.	STD THN WO	0.6 q 0.6	STD THN	0.6 q 0.6	STD THN Delay	0.6 q 0.6
KERNEL		Br36		Br36		Br36
ADMIRE		3		3		3

Estimated CTDI	31.44
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

*** XXL PATIENTS – SEE [XXL MULTIPHASE A/P](#)***

RENAL MASS & PELVIS

REVISED: 8/24/18

INDICATION	? MASS / ? STAGING / F/U KNOWN MASS / RFA
ORAL PREP	NONE
SCAN	<ol style="list-style-type: none"> 1. NON-CONTRAST - KIDNEYS ONLY 2. I+ NEPRHOGRAPHIC PHASE ~90 SEC AFTER INJECTION – ABDOMEN/PELVIS 3. 5 MINUTE DELAY - KIDNEYS ONLY
RECON	<ul style="list-style-type: none"> • 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES) • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES)
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL
3D POST PROCESSING	NONE

IV SIZE	18g OR 20g	
IV CONTRAST	WEIGHT BASED	
INJECTION RATE	4cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGM
BREATHING	EXPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER		NON CONTRAST	PV PHASE	DELAYED
START		ABOVE KIDNEYS	ABOVE DIAPHRAGM	ABOVE KIDNEYS
END		BELOW KIDNEYS	BELOW SYMPHYSIS PUBIS	BELOW KIDNEYS
DFOV		<TO PATIENT>	<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE	NONE	90 SEC	5 MINUTE
	SIEMENS	NONE	90 SEC	5 MINUTE

16 SLICE – GE

PARAMETER	NON-CONTRAST		PV PHASE		DELAYED	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.8 SEC		0.8 SEC		0.8 SEC	
THICKNESS	3.75		3.75		3.75	
PITCH	1.375:1		1.375:1		1.375:1	
SPEED	27.50		27.50		27.50	
INTERVAL	3.75		3.75		3.75	
GANTRY TILT						
SCAN FOV	LARGE		LARGE		LARGE	
kVp	120		120		120	
mA	AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	18.01		18.36		18.36	
DOSE REDUCTION						
ASiR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD WO	STANDARD	STD	STANDARD	STD Delay	STANDARD
REFORMATS						
THICK/INCR.	STD THN WO	1.25 q 0.700	STD THN	1.25 q 0.700	STD THN Delay	1.25 q 0.700
ALGORITHM		STANDARD		STANDARD		STANDARD
REFORMATS		COR 3 WO / SAG 3 WO		COR 3 / SAG 3		COR 3 Delay / SAG 3 Delay
ASiR/MODE		40% / PLUS		40% / PLUS		40% / PLUS

Estimated CTDI	38.66
Estimated DLP	1032.48

64 SLICE – GE VCT

PARAMETER	NON-CONTRAST		PV PHASE		DELAYED	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC		0.6 SEC	
THICKNESS	3.75		3.75		3.75	
PITCH	0.984:1		0.984:1		0.984:1	
SPEED	39.37		39.37		39.37	
INTERVAL	3.75		3.75		3.75	
GANTRY TILT						
SCAN FOV	LARGE BODY		LARGE BODY		LARGE BODY	
kVp	120		120		120	
mA	AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	15.59		15.59		15.59	
DOSE REDUCTION	40%		40%		40%	
ASIR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD WO	STANDARD	STD	STANDARD	STD Delay	STANDARD
REFORMATS						
THICK/INCR.	STD THN WO	0.625 q 0.625	STD THN	0.625 q 0.625	STD THN Delay	0.625 q 0.625
ALGORITHM		STANDARD		STANDARD		STANDARD
REFORMATS		COR 3 WO / SAG 3 WO		COR 3 / SAG 3		COR 3 Delay / SAG 3 Delay
ASIR/MODE		40% / PLUS-E		40% / PLUS-E		40% / PLUS-E

Estimated CTDI	23.87
Estimated DLP	1037.45

196(2) – SIEMENS FORCE

PARAMETER	KIDNEY WO		DE A/P W/		DELAY (KIDNEYS)	
SCAN TYPE						
ROTATION TIME	0.5 SEC		0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		3.0mm		3.0mm	
PITCH	0.6		0.6		0.6	
SPEED						
INTERVAL	3.0mm		3.0mm		3.0mm	
GANTRY TILT						
SCAN FOV						
kVp	100 / Sn150		100 / Sn150		100 / Sn150	
mAs	CARE Dose4D		CARE Dose4D		CARE Dose4D	
NOISE INDEX						
DOSE REDUCTION						
DFOV	<TO PATIENT>		<TO PATIENT>		<TO PATIENT>	
PREP GROUP			90 SEC		5 MINS	
KERNEL	STD WO	Br36	STD	Br36	STD Delay	Br36
ADMIRE		3		3		3
THICK/INCR.	DE #PP STD THN WO	1.5 q 1.0	DE #PP STD THN	1.5 q 1.0	DE #PP STD THN Delay	1.5 q 1.0
KERNEL		Br36		Qr40		Qr40
ADMIRE		3		3		3
THICK/INCR.	COR 3 WO	3.0 q 3.0	COR 3	3.0 q 3.0	COR 3 Delay	3.0 q 3.0
KERNEL		Br36		Br36		Br36
ADMIRE		3		3		3
THICK/INCR.	SAG 3 WO	3.0 q 3.0	SAG 3	3.0 q 3.0	SAG 3 Delay	3.0 q 3.0
KERNEL		Br36		Br36		Br36
ADMIRE		3		3		3
THICK/INCR.	STD THN WO	0.6 q 0.6	STD THN	0.6 q 0.6	STD THN Delay	0.6 q 0.6
KERNEL		Br36		Br36		Br36
ADMIRE		3		3		3

Estimated CTDI	31.44
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

*** XXL PATIENTS – SEE [XXL MULTIPHASE A/P](#)***

UROGRAM – 2 PHASE

REVISED: 8/24/18

INDICATION	HEMATURIA IN VERY LOW RISK PATIENT, < 45 YEARS OLD
ORAL PREP	NONE
SCAN	<ol style="list-style-type: none"> 1. UNENHANCED LOW DOSE KIDNEYS TO BLADDER 2. NEPHROGRAPHIC/DELAY PHASE COMBO: <ol style="list-style-type: none"> a. INJECT 10mg IV LASIX AND 50cc CONTRAST, WAIT 6 MIN b. INJECT 100cc IV CONTRAST AT 4cc/SEC c. SCAN ABDOMEN/PELVIS AT 100 SEC
RECON	<ul style="list-style-type: none"> • 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES) • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES)
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL – ALL PHASES
3D POST PROCESSING	<ul style="list-style-type: none"> ✚ 3D ROTATION KIDNEYS URETERS AND BLADDER ✚ THICK MIP DOUBLE OBLIQUE IMAGES COLLECTING SYSTEM

IV SIZE		
IV CONTRAST	150cc OMNIPAQUE 350	
INJECTION RATE	4cc/SEC	
PT POSITION	SUPINE / FEET FIRST	
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGM
BREATHING	EXPIRATION	
SCOUTS	AP AND LATERAL	

PARAMETER		NON-CONTRAST	NEPHROGRAPHIC/DELAY
START		ABOVE KIDNEYS	ABOVE DIAPHRAGM
END		BELOW BLADDER	SYMPHYSIS PUBIS
DFOV		<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE		6 MINUTE / 100 SEC
	SIEMENS		6 MINUTE / 100 SEC

16 SLICE – GE

PARAMETER	NON-CONTRAST		6 MIN NEPHROGRAPHIC/DELAY	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.8 SEC		0.8 SEC	
THICKNESS	3.75		3.75	
PITCH	1.375:1		1.375:1	
SPEED	27.50		27.50	
INTERVAL	3.75		3.75	
GANTRY TILT				
SCAN FOV	LARGE BODY		LARGE BODY	
kVp	120		120	
mA	AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	18.80		18.80	
DOSE REDUCTION				
ASIR/MODE	40% / PLUS		40% / PLUS	
ALGORITHM	STD WO	STANDARD	STD	STANDARD
REFORMATS				
THICK/INCR.	STD THN WO	1.25 q 0.700	STD THN	1.25 q 0.700
ALGORITHM		STANDARD		STANDARD
REFORMATS		COR 3 WO / SAG 3 WO		COR 3 / SAG 3
ASiR/MODE		40% / PLUS		40% / PLUS

Estimated CTDI	29.96
Estimated DLP	1032.35

64 SLICE – GE VCT

PARAMETER	NON-CONTRAST		6 MIN NEPHROGRAPHIC/DELAY	
SCAN TYPE	HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC	
THICKNESS	3.75		3.75	
PITCH	0.984:1		0.984:1	
SPEED	39.37		39.37	
INTERVAL	3.75		3.75	
GANTRY TILT				
SCAN FOV	LARGE BODY		LARGE BODY	
kVp	120		120	
mA	AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	16.03		16.03	
DOSE REDUCTION	40%		40%	
ASIR/MODE	40% / PLUS		40% / PLUS	
ALGORITHM	STD WO	STANDARD	STD	STANDARD
REFORMATS				
THICK/INCR.	STD THN WO	0.625 q 0.625	STD THN	0.625 q 0.625
ALGORITHM		STANDARD		STANDARD
REFORMATS		COR 3 WO / SAG 3 WO		COR 3 / SAG 3
ASiR/MODE		40% / PLUS-E		40% / PLUS-E
THICK/INCR.				
ALGORITHM				
REFORMATS				
ASiR/MODE				

Estimated CTDI	21.29
Estimated DLP	921.35

196(2) – SIEMENS FORCE

PARAMETER	W/O		W/	
SCAN TYPE				
ROTATION TIME	0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		3.0mm	
PITCH	0.6		0.6	
SPEED				
INTERVAL	3.0mm		3.0mm	
GANTRY TILT				
SCAN FOV				
kVp	100 / Sn150		100 / Sn150	
mAs	CARE Dose4D		CARE Dose4D	
NOISE INDEX				
DOSE REDUCTION				
DFOV	<TO PATIENT>		<TO PATIENT>	
PREP GROUP			100 SEC	
KERNEL	STD WO	Br36	STD	Br36
ADMIRE		3		3
THICK/INCR.	DE #PP STD THN WO	1.5 q 1.0	DE #PP STD THN	1.5 q 1.0
KERNEL		Br36		Qr40
ADMIRE		3		3
THICK/INCR.	COR 3 WO	3.0 q 3.0	COR 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	SAG 3 WO	3.0 q 3.0	SAG 3	3.0 q 3.0
KERNEL		Br36		Br36
ADMIRE		3		3
THICK/INCR.	STD THN WO	0.6 q 0.6	STD THN	0.6 q 0.6
KERNEL		Br36		Br36
ADMIRE		3		3

Estimated CTDI	20.96
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

*** XXL PATIENTS – SEE [XXL MULTIPHASE A/P](#)***

UROGRAM – 3 PHASE

REVISED: 8/24/18

INDICATION	HEMATURIA
ORAL PREP	NONE
SCAN	<ol style="list-style-type: none"> 1. UNENHANCED, LOW DOSE KIDNEYS TO BLADDER 2. NEPHROGRAPHIC PHASE: <ol style="list-style-type: none"> a. ABDOMEN/PELVIS (MOST SENSITIVE FOR DETECTION OF UROTHELIAL TUMORS AND BLADDER MASSES) b. 110cc CONTRAST @ 4cc/SEC, SCAN AT 100 SEC 3. EXCRETORY PHASE: <ol style="list-style-type: none"> a. KIDNEYS TO BLADDER b. 10mg IV LASIX 3-5 MIN PRIOR TO EXCRETORY PHASE <ol style="list-style-type: none"> i. AVOID IF ALLERGIC TO SULFA OR LASIX ii. AVOID IF sBP<90mm Hg iii. INSTEAD GIVE 250cc NS BOLUS AFTER NEPHROGRAPHIC PHASE c. 10 MIN POST IV CONTRAST d. LOW DOSE TECHNIQUE, ABDOMEN AND PELVIS
RECON	<ul style="list-style-type: none"> • 3.0mm / 3.75mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES) • 0.6mm / 0.625mm / 1.25mm AXIAL RECONS – STANDARD ALGORITHM (ALL PHASES)
REFORMAT	<ul style="list-style-type: none"> ○ 3mm CORONAL AND SAGITTAL – ALL PHASES
3D POST PROCESSING	<ul style="list-style-type: none"> ✚ 3D ROTATION OF KIDNEYS URETERS AND BLADDER ✚ THICK MIP DOUBLE OBLIQUE IMAGES COLLECTING SYSTEMS

IV SIZE		
IV CONTRAST		110cc OMNIPAQUE 350
INJECTION RATE		
PT POSITION		SUPINE / FEET FIRST
LANDMARK	GE	XYPHOID
	SIEMENS	ABOVE DIAPHRAGM
BREATHING		EXPIRATION
SCOUTS		AP AND LATERAL

PARAMETER	NON-CONTRAST	NEPHROGRAPHIC PHASE	DELAY
START	ABOVE KIDNEYS	ABOVE DIAPHRAGM	ABOVE KIDNEYS
END	BELOW BLADDER	BELOW SYMPHYSIS PUBIS	BELOW BLADDER
DFOV	<TO PATIENT>	<TO PATIENT>	<TO PATIENT>
PREP GROUP	GE	100 SEC	10 MINUTE
	SIEMENS	100 SEC	10 MINUTE

16 SLICE - GE

PARAMETER	NON-CONTRAST		PV A/P		10MIN DELAY	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.8 SEC		0.8 SEC		0.8 SEC	
THICKNESS	3.75		3.75		3.75	
PITCH	1.375:1		1.375:1		1.375:1	
SPEED	27.50		27.50		27.50	
INTERVAL	3.75		3.75		3.75	
GANTRY TILT						
SCAN FOV	LARGE BODY		LARGE BODY		LARGE BODY	
kVp	120		120		120	
mA	AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA		AUTO mA TO 440 W/ SMART mA	
NOISE INDEX	18.80		18.80		18.80	
DOSE REDUCTION						
ASIR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD WO	STANDARD	STD	STANDARD	STD Delay	STANDARD
REFORMATS						
THICK/INCR.	STD THN WO	1.25 q 0.700	STD THN	1.25 q 0.700	STD THN Delay	1.25 q 0.700
ALGORITHM		STANDARD		STANDARD		STANDARD
REFORMATS		COR 3 WO / SAG 3 WO		COR 3 / SAG 3		COR 3 Delay / SAG 3 Delay
ASiR/MODE		40% / PLUS		40% / PLUS		40% / PLUS

Estimated CTDI	38.66
Estimated DLP	1351.01

64 SLICE – GE VCT

PARAMETER	NON-CONTRAST		PV A/P		10MIN DELAY	
SCAN TYPE	HELICAL FULL		HELICAL FULL		HELICAL FULL	
ROTATION TIME	0.6 SEC		0.6 SEC		0.6 SEC	
THICKNESS	3.75		3.75		3.75	
PITCH	0.984:1		0.984:1		0.984:1	
SPEED	39.37		39.37		39.37	
INTERVAL	3.75		3.75		3.75	
GANTRY TILT						
SCAN FOV	LARGE BODY		LARGE BODY		LARGE BODY	
kVp	120		120		120	
mA	AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA		AUTO mA TO 700 W/ SMART mA	
NOISE INDEX	16.03		16.03		16.03	
DOSE REDUCTION	40%		40%		40%	
ASIR/MODE	40% / PLUS		40% / PLUS		40% / PLUS	
ALGORITHM	STD WO	STANDARD	STD	STANDARD	STD Delay	STANDARD
REFORMATS						
THICK/INCR.	STD THN WO	0.625 q 0.625	STD THN	0.625 q 0.625	STD THN Delay	0.625 q 0.625
ALGORITHM		STANDARD		STANDARD		STANDARD
REFORMATS		COR 3 WO / SAG 3 WO		COR 3 /SAG 3		COR 3 Delay / SAG 3 Delay
ASiR/MODE		40% / PLUS-E		40% / PLUS-E		40% / PLUS-E

Estimated CTDI	23.86
Estimated DLP	1018.53

196(2) – SIEMENS FORCE

PARAMETER	W/O		A/P W/		DELAY	
SCAN TYPE						
ROTATION TIME	0.5 SEC		0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		3.0mm		3.0mm	
PITCH	0.6		0.6		0.6	
SPEED						
INTERVAL	3.0mm		3.0mm		3.0mm	
GANTRY TILT						
SCAN FOV						
kVp	100 / Sn150		100 / Sn150		100 / Sn150	
mAs	CARE Dose4D		CARE Dose4D		CARE Dose4D	
NOISE INDEX						
DOSE REDUCTION						
DFOV	<TO PATIENT>		<TO PATIENT>		<TO PATIENT>	
PREP GROUP			100 SEC		10 MINS	
KERNEL	STD	Br36	STD	Br36	STD	Br36
ADMIRE	WO	3		3	Delay	3
THICK/INCR.	DE	1.5 q 1.0	DE	1.5 q 1.0	DE	1.5 q 1.0
KERNEL	#PP	Br36	#PP	Qr40	#PP	Qr40
ADMIRE	STD	3	STD	3	STD	3
	THN		THN		THN	
	WO				Delay	
THICK/INCR.	COR 3	3.0 q 3.0	COR 3	3.0 q 3.0	COR 3	3.0 q 3.0
KERNEL	WO	Br36		Br36	Delay	Br36
ADMIRE		3		3		3
THICK/INCR.	SAG 3	3.0 q 3.0	SAG 3	3.0 q 3.0	SAG 3	3.0 q 3.0
KERNEL	WO	Br36		Br36	Delay	Br36
ADMIRE		3		3		3
THICK/INCR.	STD	0.6 q 0.6	STD	0.6 q 0.6	STD	0.6 q 0.6
KERNEL	THN	Br36	THN	Br36	THN	Br36
ADMIRE	WO	3		3	Delay	3

Estimated CTDI	31.44
Estimated DLP	

***IF ANATOMY OF INTEREST EXCEEDS DUAL ENERGY SFOV, USE SINGLE ENERGY SCAN (XXL PROTOCOL) ***

*** XXL PATIENTS – SEE [XXL MULTIPHASE A/P](#)***

XXL MULTIPHASE A/P

REVISED: 8/24/18

196(2) – SIEMENS FORCE

XXL 2 PHASE A/P

USE APPROPRIATE PREP DELAYS PER RADIOLOGIST PROTOCOL

PARAMETER	PREMONITORING / SMART PREP	ART AP		PV AP	
SCAN TYPE	FULL				
ROTATION TIME	0.5 SEC	0.5 SEC		0.5 SEC	
THICKNESS	10.0mm	3.0mm		3.0mm	
PITCH		1.0		1.0	
SPEED					
INTERVAL	0.0mm	3.0mm		3.0mm	
GANTRY TILT					
SCAN FOV					
kVp	100	CarekV		CarekV	
mAs	23	CARE Dose4D		CARE Dose4D	
NOISE INDEX					
DOSE REDUCTION					
DFOV	30	<TO PATIENT>		<TO PATIENT>	
PREP GROUP		SMART PREP		50 SEC	
KERNEL		Br36	STD	Br36	STD
ADMIRE			ART	3	3
THICK/INCR.			COR 3	3.0 q 3.0	COR 3
KERNEL				Br36	
ADMIRE				3	
THICK/INCR.			SAG 3	3.0 q 3.0	SAG 3
KERNEL				Br36	
ADMIRE				3	
THICK/INCR.			STD	0.6 q 0.6	STD
KERNEL				Br36	
ADMIRE				3	

Estimated CTDI	45.29
Estimated DLP	

XXL 3 PHASE A/P

USE APPROPRIATE PREP DELAYS PER RADIOLOGIST PROTOCOL

PARAMETER	WO AP		PREMONITORING / SMART PREP		ART AP		PV AP	
SCAN TYPE			FULL					
ROTATION TIME	0.5 SEC		0.5 SEC		0.5 SEC		0.5 SEC	
THICKNESS	3.0mm		10.0mm		3.0mm		3.0mm	
PITCH	1.0				1.0		1.0	
SPEED								
INTERVAL	3.0mm		0.0mm		3.0mm		3.0mm	
GANTRY TILT								
SCAN FOV								
kVp	CarekV		100		CarekV		CarekV	
mAs	CARE Dose4D		23		CARE Dose4D		CARE Dose4D	
NOISE INDEX								
DOSE REDUCTION								
DFOV	<TO PATIENT>		30		<TO PATIENT>		<TO PATIENT>	
PREP GROUP					SMART PREP		50 SEC	
KERNEL	STD WO	Br36		Br36	STD ART	Br36	STD	Br36
ADMIRE		3				3		3
THICK/INCR.	COR 3 WO	3.0 q3.0			COR 3 ART	3.0 q3.0	COR 3	3.0 q 3.0
KERNEL		Br36				Br36		Br36
ADMIRE		3				3		3
THICK/INCR.	SAG 3 WO	3.0 q 3.0			SAG 3 ART	3.0 q 3.0	SAG 3	3.0 q 3.0
KERNEL		Br36				Br36		Br36
ADMIRE		3				3		3
THICK/INCR.	STD THN WO	0.6 q 0.6			STD THN ART	0.6 q 0.6	STD THN	0.6 q 0.6
KERNEL		Br36				Br36		Br36
ADMIRE		3				3		3

Estimated CTDI	55.12
Estimated DLP	

XXL 4 PHASE A/P

USE APPROPRIATE PREP DELAYS PER RADIOLOGIST PROTOCOL

PARAMETER	AP WO		PREMONITORING / SMART PREP		ART AP		PV AP		A/P DELAY			
SCAN TYPE			FULL									
ROTATION TIME	0.5 SEC		0.5 SEC		0.5 SEC		0.5 SEC		0.5 SEC			
THICKNESS	3.0mm		10.0mm		3.0mm		3.0mm		3.0mm			
PITCH	1.0				1.0		1.0		1.0			
SPEED												
INTERVAL	3.0mm		0.0mm		3.0mm		3.0mm		3.0mm			
GANTRY TILT												
SCAN FOV												
kVp	CarekV		100		CarekV		CarekV		CarekV			
mAs	CARE Dose4D		23		CARE Dose4D		CARE Dose4D		CARE Dose4D			
NOISE INDEX												
DOSE REDUCTION												
DFOV	<TO PATIENT>		30		<TO PATIENT>		<TO PATIENT>		<TO PATIENT>			
PREP GROUP					SMART PREP		50 SEC		50 SEC			
KERNEL	STD	Br36		Br36	STD	Br36	STD	Br36	STD	Br36		
ADMIRE	WO	3			ART	3		3	Delay	3		
THICK/INCR.	COR 3	3.0 q 3.0			COR 3	3.0 q 3.0	COR 3	3.0 q 3.0	COR 3	3.0 q 3.0		
KERNEL		Br36				ART		Br36		Br36	Delay	Br36
ADMIRE		3				ART		3		3	3	3
THICK/INCR.	SAG 3	3.0 q 3.0			SAG 3	3.0 q 3.0	SAG 3	3.0 q 3.0	SAG 3	3.0 q 3.0		
KERNEL		Br36				ART		Br36		Br36	Delay	Br36
ADMIRE		3				ART		3		3	3	3
THICK/INCR.	STD	0.6 q 0.6			STD	0.6 q 0.6	STD	0.6 q 0.6	STD	0.6 q 0.6		
KERNEL		Br36				THN		Br36		Br36	Delay	Br36
ADMIRE		WO	3					ART		3	3	3

Estimated CTDI	64.95
Estimated DLP	