PEDIATRIC ABDOMEN DYNAMIC 3T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	NPO 4 hours prior. Inspiration breath-holds; best to practice breath-holds with the patient prior to MRI. Cover top of liver through kidneys.
Position	Supine, head first
Coil	dStream Torso coil
Landmark	Center at mid abdomen

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate	Dose Timing Method and Scan Delay
Gadopiclenol (VUEWAY)	0.1 mL/kg (weight-based)	2 mL/sec (power injector)	Contrast bolus tracker; start scan after contrast visualized in lungs (lung blush)
Saline Flush	15 mL	2 mL/sec	Following contrast
Comments	Dynamic contrast injection with power injector: 0.1 mL/kg by weight at 2 mL/sec, followed by 15 mL normal saline at 2 mL/sec. If the volume is too small for the power injector (typically less than 1 mL), place extension tubing and hand inject. Contrast bolus tracker used for timing.		

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MR Gadopiclenol (VUEWAY®) Protocol for Philips MRI Scanners
Pediatric

IMAGING FORUMS, INC.

INFO PAGE

Scan Description	Survey	AX DWI 0 100 600 RT	CO mDIXON-All BH	AX mDIXON-All BH	CO T2 SS	AX T2 FS SS	SG T2 FS SS	MRCP 3D RT	AX T1 FS DYNAMIC INJECT CONTRAST	AX T1 FS POST CONTRAST	CO T1 FS POST CONTRAST
Total scan duration	00:31.6	03:12.0	00:11.5	00:10.3	00:34.5	00:33.4	00:44.7	03:00.0	00:52.0	00:52.0	00:10.3
Rel. SNR	11.1178617	3.45911694	1.29673886	1.26545095	0.555987298	0.567276597	0.586975634	0.0309691541	0.860434115	1.19022286	1.21720672
Act. TR(ms)	—	1625	—	—	958	697	574	1086	—	—	—
Act. TE(ms)	—	59	—	—	80	70	80	650	—	—	—
Act. TR/TE(ms)	8.0 / 4.6	—	—	—	—	—	—	—	—	—	—
Act. TR/TI(ms)	—	—	—	—	—	—	—	—	—	—	—
Act. TR/TE1/delta TE(ms)	—	—	—	—	—	—	—	—	—	—	—
ACQ matrix M x P	256 x 128	100 x 56	152 x 164	188 x 114	164 x 126	216 x 144	176 x 122	236 x 229	152 x 158	152 x 158	152 x 162
ACQ voxel MPS (mm)	1.76 / 3.52 / 15.0	2.96 / 3.11 / 6.00	1.58 / 1.70 / 3.50	1.60 / 1.71 / 3.50	1.71 / 1.75 / 4.00	1.39 / 1.81 / 5.00	1.59 / 1.82 / 5.00	1.10 / 1.14 / 2.20	1.58 / 1.70 / 3.00	1.58 / 1.70 / 3.00	1.58 / 1.70 / 3.50
REC voxel MPS (mm)	1.76 / 1.76 / 15.0	1.68 / 1.68 / 6.00	0.83 / 0.83 / 1.75	0.94 / 0.94 / 1.75	0.83 / 0.83 / 4.00	0.89 / 0.89 / 5.00	0.97 / 0.97 / 5.00	0.65 / 0.65 / 1.10	1.20 / 1.20 / 1.50	1.20 / 1.20 / 1.50	0.86 / 0.86 / 1.75
Scan percentage (%)	50	95.3488388	92.6666641	93.4426193	97.727272	76.5957413	87.5	97.0873795	92.8571396	92.8571396	93.1111145
Packages	—	2	—	—	—	—	—	—	—	—	—
TFE shots	—	—	—	—	—	—	—	—	—	—	—
TFE dur. shot / acq (ms)	1052.4 / 1020.6	—	—	—	—	—	—	—	—	—	—
TFE shot interval (ms)	1052.43225	—	—	—	—	—	—	—	—	—	—
Min. TI delay	—	—	—	—	—	—	—	—	—	—	—
Min. slice gap (mm)	—	-0	—	—	—	—	—	—	—	—	—
EPIfactor	—	41	—	—	—	—	—	—	—	—	—
Act.slicegap (mm)	—	—	-1.75	-1.75	—	—	0.5	-1.10000002	-1.5	-1.5	-1.75
Act. WFS (pix) / BW (Hz)	2.109 / 206.0	—	0.291 / 1495.2	0.284 / 1528.4	—	—	—	—	0.291 / 1495.2	0.291 / 1495.2	0.291 / 1495.2
Min. WFS (pix) / Max. BW (Hz)	0.561 / 775.0	—	0.291 / 1495.2	0.284 / 1528.4	—	—	—	—	0.291 / 1495.2	0.291 / 1495.2	0.291 / 1495.2
Min. TR/TE(ms)	8.0 / 3.5	—	—	—	—	—	—	—	—	—	—
Min. TR/TE1/delta TE(ms)	—	—	—	—	—	—	—	—	—	—	—
WFS (pix) / BW (Hz)	—	10.831 / 40.1	—	—	0.815 / 533.0	0.908 / 478.3	0.917 / 473.5	1.279 / 339.5	—	—	—
TSE es / shot(ms)	—	—	—	—	4.5 / 271	4.8 / 238	5.0 / 199	5.7 / 998	—	—	—
TEeff / TEequiv(ms)	—	—	—	—	80 / 75	70 / 62	80 / 71	650 / 408	—	—	—
Min. TR(ms)	—	—	—	—	—	—	—	—	—	—	—
Min. TR/TI(ms)	—	—	—	—	—	—	—	—	—	—	—
BW in EPI freq. dir. (Hz)	—	2102.8	—	—	—	—	—	—	—	—	—
SPIR offset act./default (Hz)	—	—	—	—	—	—	—	—	—	—	—
Local torso SAR	< 15 %	< 57 %	< 30 %	< 30 %	< 100 %	< 100 %	< 100 %	< 95 %	< 30 %	< 30 %	< 30 %
Whole body SAR / level	< 0.5 W/kg / normal	< 1.5 W/kg / normal	< 0.8 W/kg / normal	< 0.8 W/kg / normal	< 2.7 W/kg / 1st level	< 2.7 W/kg / 1st level	< 2.7 W/kg / 1st level	< 2.6 W/kg / 1st level	< 0.8 W/kg / normal	< 0.8 W/kg / normal	< 0.8 W/kg / normal
SED	0.0 kJ/kg	< 0.3 kJ/kg	0.0 kJ/kg	0.0 kJ/kg	< 0.1 kJ/kg	< 0.1 kJ/kg	< 0.1 kJ/kg	< 0.5 kJ/kg	0.0 kJ/kg	0.0 kJ/kg	0.0 kJ/kg
Coil Power	—	45 %	24 %	24 %	80 %	80 %	80 %	76 %	24 %	24 %	24 %
Max B1+rms	0.89 uT	1.58 uT	1.14 uT	1.14 uT	2.09 uT	2.10 uT	2.11 uT	2.04 uT	1.14 uT	1.14 uT	1.14 uT
PNS / level	78 % / normal	65 % / normal	64 % / normal	84 % / 1st level	56 % / normal	66 % / normal	50 % / normal	71 % / normal	99 % / 1st level	99 % / 1st level	64 % / normal
dB/dt	50.2 T/s	109.6 T/s	120.5 T/s	120.0 T/s	95.9 T/s	90.4 T/s	49.4 T/s	112.9 T/s	109.8 T/s	109.8 T/s	120.7 T/s
Sound Pressure Level (dB)	9.52904224	10.3163595	14.7935266	17.4174442	12.7999096	10.2479029	10.9335995	10.611702	18.3201523	18.3201523	14.8268347

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Boil-off (hPa/h)	—	—	—	—	—	—	—	—	—	—	—
Max Boil-off (hPa/h)	—	—	—	—	—	—	—	—	—	—	—
Boil-off (hPa)	—	—	—	—	—	—	—	—	—	—	—

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IMAGING FORUMS, INC.

GEOMETRY

Scan Description	Survey	AX DWI 0 100 600 RT	CO mDIXON-All BH	AX mDIXON-All BH	CO T2 SS	AX T2 FS SS	SG T2 FS SS	MRCP 3D RT	AX T1 FS DYNAMIC INJECT CONTRAST	AX T1 FS POST CONTRAST	CO T1 FS POST CONTRAST
Nucleus	—	—	—	—	—	—	—	—	—	—	—
SmartSelect	no	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Coil 1 (exclude)	—	None	None	None	None	None	None	None	None	None	None
Uniformity	—	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
FOV AP (mm)	—	174.909088	154	195	179	260.714294	221.666672	71.5	240	240	154
FOV FH (mm)	450	240	240	229.25	280	263.5	280	260	180	180	240
FOV RL (mm)	450	296	280	300	220	300	214	260	268.799988	268.799988	274.285706
stack RL (mm)	—	—	—	—	—	—	—	—	—	—	—
ACQ voxel size AP (mm)	—	2.98669624	3.5	1.70000005	—	1.79999995	1.79999995	2.20000005	1.60000002	1.60000002	3.5
ACQ voxel size FH (mm)	1.75781298	—	1.60000002	3.5	1.70000005	—	1.60000002	1.10000002	3	3	1.60000002
ACQ voxel size RL (mm)	3.515625	3	1.70000005	1.60000002	1.75111759	1.39999998	—	1.10000002	1.70000005	1.70000005	1.70000005
Slice thickness (mm)	15	6	—	—	4	5	5	—	—	—	—
Recon voxel size AP (mm)	—	1.68181813	1.75	0.9375	—	0.892857134	0.972222209	1.10000002	1.19999993	1.19999993	1.75
Recon voxel size FH (mm)	1.7578125	—	0.833333313	1.75	0.833333313	—	0.972222209	0.649999976	1.5	1.5	0.857142806
Recon voxel size RL (mm)	1.7578125	1.68181813	0.833333313	0.9375	0.833333313	0.892857134	—	0.649999976	1.19999993	1.19999993	0.857142806
Fold-over suppression	no	oversampling	oversampling	no	oversampling	no	no	oversampling	no	no	oversampling
Slice oversampling	—	—	default	default	—	—	—	default	default	default	default
oversample factor	—	—	—	—	—	—	—	—	—	—	—
ENCASE enable	—	—	no	no	—	—	—	—	no	no	no
RF select. FOS	—	—	—	—	—	—	—	—	—	—	—
Reconstruction matrix	256	176	336	320	336	336	288	400	224	224	320
SENSE	no	yes	no	yes	yes	yes	yes	yes	no	no	no
Preduction (AP)	—	2	—	2	—	2	2.5	—	—	—	—
MB SENSE	—	no	—	—	—	—	—	—	—	—	—
CS-SENSE	no	no	yes	no	no	no	no	no	yes	yes	yes
reduction	—	—	3	—	—	—	—	—	3	3	3
denoising	—	—	system default	—	—	—	—	—	system default	system default	system default
k-t Acceleration	no	no	no	no	no	no	no	no	no	no	no
Stacks	3	1	1	1	1	1	1	1	1	1	1
current	—	—	—	—	—	—	—	—	—	—	—
type	parallel	parallel	—	—	parallel	parallel	parallel	—	—	—	—
slices	5	37	88	131	36	48	39	65	120	120	88
slice gap	user defined	user defined	—	—	user defined	user defined	default	—	—	—	—
gap (mm)	0	0.5	—	—	1	0.5	—	—	—	—	—
slice orientation	coronal	transverse	coronal	transverse	coronal	transverse	sagittal	coronal	transverse	transverse	coronal
fold-over direction	RL	AP	RL	AP	RL	AP	AP	RL	RL	RL	RL
fat shift direction	P	A	F	L	F	L	F	F	P	P	F
Minimum number of packages	—	2	—	—	—	—	—	—	—	—	—
Multi-chunk	—	—	no	no	—	—	—	no	no	no	no
Slice scan order	default	interleaved	—	—	interleaved	interleaved	interleaved	—	—	—	—

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Stack scan order	ascend	—	—	—	—	—	—	—	—	—	—
Stack sort order	no	—	—	—	—	—	—	—	—	—	—
O-MAR	—	—	—	—	no	no	no	no	—	—	—
Large table movement	no	no	no	no	no	no	no	no	no	no	no
Plan Align	no	no	no	no	no	no	no	no	yes	yes	no
REST slabs	0	0	0	0	0	0	0	0	0	0	0
type	—	—	—	—	—	—	—	—	—	—	—
thickness (mm)	—	—	—	—	—	—	—	—	—	—	—
position	—	—	—	—	—	—	—	—	—	—	—
gap	—	—	—	—	—	—	—	—	—	—	—
power	—	—	—	—	—	1	1	—	—	—	—
Interactive positioning	no	no	no	no	no	no	no	no	no	no	no
Allow table movement	—	—	—	—	—	—	—	—	—	—	—
Patient position	head first	head first	head first	head first	head first	head first	head first	head first	head first	head first	head first
Patient body position	head first	head first	head first	head first	head first	head first	head first	head first	head first	head first	head first
Patient orientation	supine	supine	supine	supine	supine	supine	supine	supine	supine	supine	supine
Patient body orientation	supine	supine	supine	supine	supine	supine	supine	supine	supine	supine	supine

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Scan type	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging
Scan mode	M2D	MS	3D	3D	M2D	M2D	M2D	3D	3D	3D	3D
technique	FFE	SE	FFE	FFE	SE	SE	SE	SE	FFE	FFE	FFE
Modified SE	—	no	—	—	no	no	no	no	—	—	—
3D non-selective	—	—	—	—	—	—	—	yes	—	—	—
loop order	—	—	zy_order	zy_order	—	—	—	—	zy_order	zy_order	zy_order
Contrast enhancement	no	—	T1	T1	—	—	—	—	T1	T1	T1
Acquisition mode	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian
Fast Imaging mode	TFE	EPI	none	none	TSE	TSE	TSE	TSE	none	none	none
3D VIEW	—	—	—	—	—	—	—	no	—	—	—
shot mode	single-shot	single-shot	—	—	single-shot	single-shot	single-shot	multishot	—	—	—
TFE factor	128	—	—	—	—	—	—	—	—	—	—
TSE factor	—	—	—	—	60	50	40	160	—	—	—
startup echoes	default	—	—	—	0	0	0	13	—	—	—
shot interval	shortest	—	—	—	—	—	—	—	—	—	—
profile order	linear	—	—	—	linear	linear	linear	rev_linear	—	—	—
turbo direction	—	—	—	—	—	—	—	Y	—	—	—
DRIVE	—	—	—	—	no	no	no	yes	—	—	—
ultrashort	—	—	—	—	yes	yes	yes	yes	—	—	—
shift	—	—	—	—	—	—	—	—	—	—	—
fid reduction	—	—	—	—	strong	strong	strong	default	—	—	—
Echoes	1	1	2	2	1	1	1	1	2	2	2
partial echo	no	no	no	no	no	no	no	no	no	no	no
shifted echo	no	—	no	no	—	—	—	—	no	no	no
TE	in-phase	shortest	shortest	shortest	user defined	user defined	user defined	user defined	shortest	shortest	shortest
(ms)	4.60384226	—	—	—	80	70	80	650	—	—	—
echospacing	—	—	—	—	—	—	—	—	—	—	—
(ms)	—	—	—	—	—	—	—	—	—	—	—
flyback	—	—	no	no	—	—	—	—	no	no	no
Flip angle (deg)	20	90	10	10	90	90	90	90	10	10	10
Refocusing control	—	—	—	—	constant	constant	constant	constant	—	—	—
angle (deg)	—	—	—	—	135	120	120	80	—	—	—
bright fat reduction	—	—	—	—	no	no	no	no	—	—	—
TR	shortest	shortest	shortest	shortest	shortest	shortest	shortest	shortest	shortest	shortest	shortest
(ms)	—	—	—	—	—	—	—	—	—	—	—
minimum (ms)	—	—	—	—	—	—	—	—	—	—	—
maximum (ms)	—	—	—	—	—	—	—	—	—	—	—
Halfscan	no	yes	no	no	default	default	default	yes	no	no	no
factor	—	0.698113024	—	—	—	—	—	—	—	—	—
factor Y	—	—	—	—	—	—	—	0.800000012	—	—	—

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factor Z	—	—	—	—	—	—	—	1	—	—	—
Water-fat shift	maximum	minimum	minimum	minimum	maximum	maximum	maximum	maximum	minimum	minimum	minimum
(pixels)	—	—	—	—	—	—	—	—	—	—	—
IR delay (ms)	—	—	—	—	—	—	—	—	—	—	—
dual	—	—	—	—	—	—	—	—	—	—	—
power	—	—	—	—	—	—	—	—	—	—	—
RF Shims	—	adaptive	adaptive	adaptive	adaptive	adaptive	adaptive	adaptive	adaptive	adaptive	adaptive
Shim	—	auto	volume	volume	default	volume	auto	auto	volume	volume	volume
mDIXON	no	no	yes	yes	no	no	no	no	yes	yes	yes
Fat suppression	no	SPIR	no	no	no	SPAIR	SPAIR	SPIR	no	no	no
strength	—	strong	—	—	—	—	—	strong	—	—	—
power	—	—	—	—	—	1	1	—	—	—	—
inversion delay	—	—	—	—	—	auto	auto	—	—	—	—
suppr. level	—	—	—	—	—	strong	strong	—	—	—	—
frequency offset	—	default	—	—	—	user defined	default	default	—	—	—
offset (Hz)	—	—	—	—	—	220	—	—	—	—	—
Grad Rev Fat suppr	—	yes	—	—	no	no	no	no	—	—	—
Water suppression	no	no	no	no	no	no	no	no	no	no	no
TFE prepulse	no	—	—	—	—	—	—	—	—	—	—
slice selection	—	—	—	—	—	—	—	—	—	—	—
delay	—	—	—	—	—	—	—	—	—	—	—
(ms)	—	—	—	—	—	—	—	—	—	—	—
BB pulse	—	no	—	—	no	no	no	no	—	—	—
MTC	no	no	no	no	no	no	no	no	no	no	no
T2prep	no	—	—	—	—	—	—	—	—	—	—
echo time(ms)	—	—	—	—	—	—	—	—	—	—	—
refocusing pulses	—	—	—	—	—	—	—	—	—	—	—
APT	—	no	—	—	no	no	no	no	—	—	—
Custom prepulse	no	no	no	no	no	no	no	no	no	no	no
MDME	no	no	no	no	no	no	no	no	no	no	no
Diffusion mode	no	DWI	no	no	no	no	no	no	no	no	no
sequence	—	—	—	—	—	—	—	—	—	—	—
gradient expert mode	—	—	—	—	—	—	—	—	—	—	—
gradient overplus	—	yes	—	—	—	—	—	—	—	—	—
direction	—	—	—	—	—	—	—	—	—	—	—
nr of b-factors	—	3	—	—	—	—	—	—	—	—	—
b-factor order	—	user defined	—	—	—	—	—	—	—	—	—
max b-factor	—	—	—	—	—	—	—	—	—	—	—
average high b	—	yes	—	—	—	—	—	—	—	—	—
T1 mapping	no	no	no	no	no	no	no	no	no	no	no
Transmit channels	—	both	both	both	both	both	both	both	both	both	both
SAR mode	high	high	high	high	high	high	high	high	high	high	high
B1 mode	default	default	default	default	default	default	default	default	default	default	default

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SAR allow first level	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Patient pregnancy	no	no	no	no	no	no	no	no	no	no	no
Patient WB SAR [W/kg]	0	0	0	0	0	0	0	0	0	0	0
Patient Head SAR [W/kg]	0	0	0	0	0	0	0	0	0	0	0
Patient max. dB/dt [T/s]	0	0	0	0	0	0	0	0	0	0	0
Max slewrate [T/m/s]	0	0	0	0	0	0	0	0	0	0	0
Max. B1+rms [uT]	0	0	0	0	0	0	0	0	0	0	0
PNS mode	moderate	high	high	high	high	high	moderate	moderate	high	high	high
Gradient mode	default	maximum	maximum	maximum	maximum	maximum	default	maximum	maximum	maximum	maximum
SofTone mode	no	no	no	no	no	no	no	no	no	no	no

MOTION

Scan Description	Survey	AX DWI 0 100 600 RT	CO mDIXON-All BH	AX mDIXON-All BH	CO T2 SS	AX T2 FS SS	SG T2 FS SS	MRCP 3D RT	AX T1 FS DYNAMIC INJECT CONTRAST	AX T1 FS POST CONTRAST	CO T1 FS POST CONTRAST
Cardiac synchronization	no	no	no	no	no	no	no	no	no	no	no
Heart rate > 250 bpm	no	no	no	no	no	no	no	no	no	no	no
Respiratory compensation	no	trigger	breath hold	breath hold	breath hold	breath hold	breath hold	trigger	breath hold	breath hold	breath hold
Navigator respiratory comp	no	no	no	no	no	no	no	no	no	no	no
Flow compensation	yes	no	no	no	no	no	no	no	no	no	no
Temporal slice spacing	—	default	—	—	—	—	—	—	—	—	—
Motion smoothing	no	—	—	—	no	no	no	no	—	—	—
fMRI echo stabilisation	no	—	no	no	—	—	—	—	no	no	no
NSA	2	3	1	1	1	1	2	1	1	1	1
MRE enable	no	no	no	no	no	no	no	no	no	no	no

DYNAMIC ANGIO

Scan Description	Survey	AX DWI 0 100 600 RT	CO mDIXON-All BH	AX mDIXON-All BH	CO T2 SS	AX T2 FS SS	SG T2 FS SS	MRCP 3D RT	AX T1 FS DYNAMIC INJECT CONTRAST	AX T1 FS POST CONTRAST	CO T1 FS POST CONTRAST
Angio / Contrast enh.	no	—	contrast enh.	contrast enh.	—	—	—	—	contrast enh.	contrast enh.	contrast enh.
Quantitative flow	no	—	no	no	—	—	—	—	no	no	no
CENTRA	—	—	—	—	—	—	—	no	—	—	—
Manual start	no	no	no	no	no	no	no	no	—	—	no
Dynamic study	no	no	no	no	no	no	no	no	individual	individual	no
Arterial Spin labeling	no	no	no	no	no	no	no	no	no	no	no

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MR Gadopiclenol (VUEWAY®) Protocol for Philips MRI Scanners
Pediatric

IMAGING FORUMS, INC.

POST PROCESSING

Scan Description	Survey	AX DWI 0 100 600 RT	CO mDIXON-All BH	AX mDIXON-All BH	CO T2 SS	AX T2 FS SS	SG T2 FS SS	MRCP 3D RT	AX T1 FS DYNAMIC INJECT CONTRAST	AX T1 FS POST CONTRAST	CO T1 FS POST CONTRAST
Preparation phases	—	auto	full	full	auto	auto	auto	auto	auto	auto	full
Interactive F0	no	no	no	no	no	no	no	no	no	no	no
Quick Survey	default	default	default	default	default	default	default	default	default	default	default
SmartPlan survey	no	no	no	no	no	no	no	no	no	no	no
B0 field map	no	no	no	no	no	no	no	no	no	no	no
B1 field map	no	no	no	no	no	no	no	no	no	no	no
MIP/MPR	no	no	no	no	no	no	no	MIP	no	no	no
SWIp	no	—	no	no	—	—	—	—	no	no	no
Images	no	no	—	—	no	no	no	no	—	—	—
Autoview image	M	M	—	—	M	M	M	M	—	—	—
Calculated images	no	no	—	—	no	no	no	no	—	—	—
Reference tissue	Lung	Liver	Liver	Liver	Liver	Liver	Liver	CSF	Liver	Liver	Liver
Recon compression	—	No	No	No	No	No	No	No	No	No	No
Preset window contrast	soft	soft	no	no	soft	soft	soft	soft	no	no	no
Reconstruction mode	immediate	immediate	real time	real time	real time	real time	real time	real time	real time	real time	real time
Save raw data	no	no	no	no	no	no	no	no	no	no	no
Hardcopy protocol	no	no	no	no	no	no	no	no	no	no	no
Image filter	system default	system default	system default	system default	system default	system default	system default	system default	system default	system default	system default
Uniformity correction	no	no	no	no	no	no	no	no	no	no	no
Geometry correction	default	default	default	default	default	default	default	default	default	default	default
EPI geometry correction	—	no	—	—	—	—	—	—	—	—	—
ADC correction	—	no	—	—	—	—	—	—	—	—	—
Elliptical k-space shutter	—	—	default	default	—	—	—	default	default	default	default
Free rotatable	no	no	no	no	no	no	no	no	no	no	no

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