PEDIATRIC SKULL BASE 3T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	No NPO requirements. Free-breathing.
Position	Supine, head first
Coil	32-channel or 16-channel head coil
Landmark	Center at nasion

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate	Dose Timing Method and Scan Delay
Gadopiclenol (VUEWAY)	0.1 mL/kg (single dose, weight-based)	Hand injection	IV placed prior to start of MRI
Saline Flush	5-10 mL	Hand injection	Following contrast
Comments	Single dose of VUEWAY 0.1 mL/kg based on patient weight; hand inject followed by 5-10 mL saline flush. Report agent administered and dose.		

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

IMAGING FORUMS, INC.

INFO PAGE

Scan Description	Survey	AX DWI	SG T1 3D	AX SWIp	AX T2 DRIVE IAC	DWI tse IAC	pCASL 3D	AX T2 HR POST CONTRAST	SG FLAIR 3D POST CONTRAST	AX T1 FS IAC POST CONTRAST	AX T1 FS 3D POST CONTRAST
Total scan duration	00:56.2	01:27.7	05:13.9	03:24.5	02:16.4	03:34.4	02:40.9	03:09.3	05:02.4	03:58.6	03:55.5
Rel. SNR	1	1.77639198	1.92046714	1.34905994	0.0619427711	0.774342656	1	0.544027328	0.824332178	0.483988017	1
Act. TR(ms)	—	4178	—	—	1550	1787	4234	8605	—	—	—
Act. TE(ms)	—	93	—	—	250	69	12	80	312	—	—
Act. TR/TE(ms)	11 / 4.6	—	8.3 / 3.8	—	—	—	—	—	—	5.4 / 2.4	3.8 / 1.62
Act. TR/TI(ms)	—	—	—	—	—	—	—	—	4800 / 1650	—	—
Act. TR/TE1/delta TE(ms)	—	—	—	31 / 7.2 / 6.2	—	—	—	—	—	—	—
ACQ matrix M x P	256 x 128	168 x 165	240 x 222	368 x 298	352 x 326	152 x 129	64 x 60	468 x 297	240 x 240	224 x 227	220 x 193
ACQ voxel MPS (mm)	0.98 / 1.95 / 5.00	1.31 / 1.33 / 4.00	1.00 / 1.08 / 1.00	0.60 / 0.60 / 2.00	0.40 / 0.43 / 0.60	1.51 / 1.52 / 2.00	3.75 / 4.00 / 6.00	0.47 / 0.60 / 2.00	1.00 / 1.00 / 1.00	0.80 / 0.79 / 0.80	1.00 / 1.00 / 1.00
REC voxel MPS (mm)	0.98 / 0.98 / 5.00	1.15 / 1.15 / 4.00	0.94 / 0.94 / 1.00	0.34 / 0.34 / 1.00	0.27 / 0.27 / 0.30	0.96 / 0.96 / 2.00	3.00 / 3.00 / 6.00	0.43 / 0.43 / 2.00	1.00 / 1.00 / 1.00	0.47 / 0.47 / 0.40	0.49 / 0.49 / 1.00
Scan percentage (%)	50	98.2142868	92.5	99.6655502	92.6136398	100	93.75	78.7798386	100	101.156067	100
Packages	—	1	—	—	—	2	—	2	—	—	—
TFE shots	2	—	104	—	—	—	—	—	—	—	—
TFE dur. shot / acq (ms)	985.7 / 352.0	—	1930.4 / 1843.4	—	—	—	—	—	—	338.9 / 315.9	637.8 / 615.9
TFE shot interval (ms)	985.697693	—	—	—	—	—	—	—	—	338.861511	—
Min. TI delay	221.297897	—	960.537781	—	—	—	—	—	—	—	—
Min. slice gap (mm)	—	-0	—	—	—	2	—	2	—	—	—
EPIfactor	—	55	—	—	—	—	15	—	—	—	—
Act.slicegap (mm)	—	—	0	-1	-0.300000012	—	0	—	0	-0.400000006	0
Act. WFS (pix) / BW (Hz)	2.980 / 145.8	—	2.269 / 191.5	1.701 / 255.4	—	—	—	—	—	0.701 / 620.0	0.466 / 931.4
Min. WFS (pix) / Max. BW (Hz)	0.561 / 775.0	—	0.525 / 826.7	0.767 / 566.1	—	—	—	—	—	0.607 / 715.4	0.459 / 947.0
Min. TR/TE(ms)	9.4 / 3.8	—	—	—	—	—	—	—	—	—	—
Min. TR/TE1/delta TE(ms)	—	—	—	29 / 5.8 / 6.2	—	—	—	—	—	—	—
WFS (pix) / BW (Hz)	—	22.374 / 19.4	—	—	1.811 / 239.9	0.359 / 1209.3	3.625 / 119.8	1.984 / 218.9	0.459 / 947.0	—	—
TSE es / shot(ms)	—	—	—	—	9.1 / 500	4.0 / 212	12.1 / 303	10.0 / 160	3.4 / 593	—	—
TEeff / TEequiv(ms)	—	—	—	—	—	8 / 6	—	80 / 72	312 / 132	—	—
Min. TR(ms)	—	—	—	—	1061	—	—	—	—	—	—
Min. TR/TI(ms)	—	—	—	—	—	—	—	—	2392 / 50	—	—
BW in EPI freq. dir. (Hz)	—	1247.4	—	—	—	—	2625.6	—	—	—	—
SPIR offset act./default (Hz)	—	220 [220]	—	—	—	—	—	—	—	—	—
Local torso SAR	< 10 %	< 30 %	< 7 %	< 8 %	< 68 %	< 95 %	—	< 100 %	< 15 %	< 28 %	—
Whole body SAR / level	< 0.3 W/kg / normal	< 1.0 W/kg / normal	< 0.2 W/kg / normal	< 0.3 W/kg / normal	< 2.2 W/kg / 1st level	< 0.1 W/kg / normal	< 0.3 W/kg / normal	< 3.2 W/kg / 1st level	< 0.5 W/kg / normal	< 0.9 W/kg / normal	< 0.1 W/kg / normal
SED	0.0 kJ/kg	< 0.1 kJ/kg	< 0.1 kJ/kg	< 0.1 kJ/kg	< 0.3 kJ/kg	0.0 kJ/kg	0.0 kJ/kg	< 0.6 kJ/kg	< 0.1 kJ/kg	< 0.2 kJ/kg	0.0 kJ/kg
Coil Power	10 %	29 %	7 %	8 %	65 %	—	88 %	96 %	15 %	27 %	28 %
Max B1+rms	0.72 uT	1.25 uT	0.60 uT	0.65 uT	1.89 uT	2.22 uT	2.20 uT	2.29 uT	0.98 uT	1.22 uT	1.24 uT
PNS / level	59 % / normal	85 % / 1st level	52 % / normal	79 % / normal	50 % / normal	73 % / normal	62 % / normal	26 % / normal	79 % / normal	69 % / normal	100 % / 1st level
dB/dt	45.4 T/s	111.7 T/s	51.2 T/s	58.8 T/s	46.3 T/s	95.4 T/s	75.3 T/s	16.1 T/s	113.1 T/s	52.1 T/s	95.6 T/s
Sound Pressure Level (dB)	11.403451	12.7047787	9.17535019	10.8366747	6.81329298	13.0329542	15.4121809	-5.74669218	20.618679	9.35848427	16.0933762
Boil-off (hPa/h)	—	—	—	—	—	—	—	—	—	—	—
Max Boil-off (hPa/h)	—	—	—	—	—	—	—	—	—	—	—

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Boil-off (hPa)	—	—	—	—	—	—	—	—	—	—	—

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

NW IMAGING FORUMS, INC.

GEOMETRY

Scan Description	Survey	AX DWI	SG T1 3D	AX SWIp	AX T2 DRIVE IAC	DWI tse IAC	pCASL 3D	AX T2 HR POST CONTRAST	SG FLAIR 3D POST CONTRAST	AX T1 FS IAC POST CONTRAST	AX T1 FS 3D POST CONTRAST
Nucleus	—	—	—	—	—	—	—	—	—	—	—
SmartSelect	yes	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	CLEAR
FOV AP (mm)	250	220	240	220	140	195.5	240	220	240	180	220
FOV FH (mm)	250	154	240	154	25.5000019	35	84	150	240	36	160
FOV RL (mm)	—	220	185	178.75	140	230	240	177.03125	160	180	192.5
stack RL (mm)	—	—	—	—	—	—	—	—	—	—	—
ACQ voxel size AP (mm)	1.953125	1.29999995	1	0.600000024	0.400000006	1.5	3.75	0.469999999	1	0.800000012	1
ACQ voxel size FH (mm)	0.976562977	—	1	2	0.600000024	—	6	—	1	0.800000012	1
ACQ voxel size RL (mm)	—	1.29999995	1	0.600000024	0.429448009	1.5	3.75	0.588388979	1	0.796459973	1
Slice thickness (mm)	5	4	—	—	—	2	—	2	—	—	—
Recon voxel size AP (mm)	0.9765625	1.14583337	0.9375	0.34375	0.2734375	0.958333313	3	0.4296875	1	0.46875	0.491071433
Recon voxel size FH (mm)	0.9765625	—	0.9375	1	0.300000012	—	6	—	1	0.400000006	1
Recon voxel size RL (mm)	—	1.14583337	1	0.34375	0.2734375	0.958333313	3	0.4296875	1	0.46875	0.491071433
Fold-over suppression	no	no	no	no	no	no	no	no	no	no	no
Slice oversampling	—	—	default	default	default	—	default	—	user defined	user defined	default
oversample factor	—	—	—	—	—	—	—	—	1	1.39999998	—
ENCASE enable	—	—	no	no	—	—	—	—	—	no	no
RF select. FOS	—	—	—	—	—	—	—	—	—	—	—
Reconstruction matrix	256	192	256	640	512	240	80	512	240	384	448
SENSE	no	yes	yes	no	no	yes	yes	no	no	yes	yes
Preduction (AP)	—	3	1	—	—	2.5	2	—	—	—	—
MB SENSE	—	no	—	—	—	—	—	—	—	—	—
CS-SENSE	yes	no	no	yes	yes	no	no	yes	yes	no	no
reduction	2	—	—	4	5	—	—	2	6	—	—
denoising	system default	—	—	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	—	—	—
slices	3	31	185	154	85	12	14	75	160	90	160
slice gap	user defined	user defined	—	—	—	user defined	—	user defined	—	—	—
gap (mm)	10	1	—	—	—	1	—	0	—	—	—
slice orientation	sagittal	transverse	sagittal	transverse	transverse	transverse	transverse	transverse	sagittal	transverse	transverse
fold-over direction	RL	AP	AP	RL	RL	AP	AP	RL	AP	RL	RL
fat shift direction	F	P	F	P	P	L	P	P	F	P	P
Minimum number of packages	—	1	—	—	—	1	—	1	—	—	—
Multi-chunk	—	—	no	no	no	—	no	—	no	no	no
Slice scan order	default	default	—	—	—	default	—	default	—	—	—
Stack scan order	ascend	—	—	—	—	—	—	—	—	—	—

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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	no	no	no
REST slabs	0	0	0	0	1	0	0	1	0	0	0
type	—	—	—	—	parallel	—	—	parallel	—	—	—
thickness (mm)	—	—	—	—	40	—	—	60	—	—	—
position	—	—	—	—	feet	—	—	feet	—	—	—
gap	—	—	—	—	default	—	—	default	—	—	—
power	—	—	—	—	1	—	—	1	1	1	2
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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Pediatric

IMAGING FORUMS, INC.

CONTRAST

Scan Description	Survey	AX DWI	SG T1 3D	AX SWIp	AX T2 DRIVE IAC	DWI tse IAC	pCASL 3D	AX T2 HR POST CONTRAST	SG FLAIR 3D POST CONTRAST	AX T1 FS IAC POST CONTRAST	AX T1 FS 3D POST CONTRAST
Scan type	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging
Scan mode	M2D	MS	3D	3D	3D	MS	3D	MS	3D	3D	3D
technique	FFE	SE	FFE	FFE	SE	SE	SE	SE	IR	FFE	FFE
Modified SE	—	no	—	—	no	no	no	no	—	—	—
3D non-selective	—	—	—	—	yes	—	yes	—	—	—	—
loop order	—	—	—	zy_order	—	—	—	—	—	—	—
Contrast enhancement	T1	—	T1	T1	—	—	—	—	—	T1	T1
Acquisition mode	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian
Fast Imaging mode	TFE	EPI	TFE	none	TSE	TSE	GraSE	TSE	TSE	TFE	TFE
3D VIEW	—	—	—	—	no	—	no	—	Brain FLAIR	—	—
shot mode	multishot	single-shot	multishot	—	multishot	single-shot	multishot	multishot	multishot	single-shot	single-shot
TFE factor	32	—	222	—	—	—	—	—	—	58	164
TSE factor	—	—	—	—	54	52	25	15	167	—	—
startup echoes	default	—	default	—	0	1	0	0	6	user defined	user defined
shot interval	shortest	—	user defined	—	—	—	—	—	—	shortest	user defined
(ms)	—	—	3000	—	—	—	—	—	—	—	760
profile order	linear	—	linear	—	linear	low_high	low_high	linear	linear	linear	linear
turbo direction	—	—	Y	—	radial	—	Z	—	Y	Z	Z
DRIVE	—	—	—	—	yes	no	no	yes	no	—	—
ultrashort	—	—	—	—	no	no	—	no	—	—	—
shift	—	—	—	—	—	—	—	—	—	—	—
fid reduction	—	—	—	—	default	default	—	default	default	—	—
Echoes	1	1	1	4	1	1	1	1	1	1	1
partial echo	no	no	no	no	no	no	no	no	no	no	no
shifted echo	no	—	no	no	—	—	—	—	—	no	no
TE	in-phase	shortest	shortest	user defined	shortest	shortest	shortest	user defined	shortest	shortest	shortest
(ms)	4.60385227	—	—	7.19999981	—	—	—	80	—	—	—
echospacing	—	—	—	user defined	—	—	—	—	—	—	—
(ms)	—	—	—	6.19999981	—	—	—	—	—	—	—
flyback	—	—	—	yes	—	—	—	—	—	—	—
Flip angle (deg)	15	90	8	17	90	90	90	90	—	10	10
Refocusing control	—	—	—	—	no	constant	no	constant	constant	—	—
angle (deg)	—	—	—	—	—	50	—	120	40	—	—
bright fat reduction	—	—	—	—	—	no	—	no	no	—	—
TR	user defined	shortest	shortest	user defined	user defined	shortest	shortest	shortest	user defined	shortest	shortest
(ms)	11	—	—	31	1550	—	—	—	4800	—	—
minimum (ms)	—	—	—	—	—	—	—	—	—	—	—
maximum (ms)	—	—	—	—	—	—	—	—	—	—	—
Halfscan	no	yes	no	no	no	no	no	no	no	no	yes
factor	—	0.744681001	—	—	—	—	—	4	—	—	—
factor Y	—	—	—	—	—	—	—	—	—	—	0.800000012

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factor Z	—	—	—	—	—	—	—	—	—	—	0.800000012
Water-fat shift	user defined	minimum	maximum	user defined	maximum	user defined	maximum	maximum	maximum	user defined	user defined
(pixels)	3.5	—	—	1.70000005	—	2	—	—	—	0.699999988	0.460000008
IR delay (ms)	—	—	—	—	—	—	—	—	1650	—	—
dual	—	—	—	—	—	—	—	—	no	—	—
power	—	—	—	—	—	—	—	—	1	—	—
RF Shims	fixed	fixed	fixed	fixed	fixed	—	fixed	fixed	fixed	fixed	fixed
Shim	default	auto	auto	auto	default	auto	auto	default	default	default	auto
mDIXON	no	no	no	no	no	no	no	no	no	no	no
Fat suppression	no	SPIR	no	no	no	SPIR	SPIR	no	SPIR	SPAIR	SPAIR
strength	—	strong	—	—	—	strong	medium	—	strong	—	—
power	—	—	—	—	—	—	—	—	—	1	2
inversion delay	—	—	—	—	—	—	—	—	—	shortest	shortest
suppr. level	—	—	—	—	—	—	—	—	—	—	—
frequency offset	—	user defined	—	—	—	default	default	—	default	user defined	user defined
offset (Hz)	—	220	—	—	—	—	—	—	—	220	200
Grad Rev Fat suppr	—	yes	—	—	no	no	no	no	no	—	—
Water suppression	no	no	no	no	no	no	no	no	no	no	no
TFE prepulse	invert	—	invert	—	—	—	—	—	—	no	no
slice selection	no	—	no	—	—	—	—	—	—	—	—
delay	user defined	—	user defined	—	—	—	—	—	—	—	—
(ms)	800	—	1000	—	—	—	—	—	—	—	—
BB pulse	—	no	—	—	no	no	no	no	no	—	—
MTC	no	no	no	no	no	no	no	no	no	no	no
T2prep	no	—	no	—	—	—	—	—	yes	no	no
echo time(ms)	—	—	—	—	—	—	—	—	125	—	—
refocusing pulses	—	—	—	—	—	—	—	—	4	—	—
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	DWI	no	no	no	no	no
sequence	—	—	—	—	—	—	—	—	—	—	—
gradient expert mode	—	—	—	—	—	—	—	—	—	—	—
gradient overplus	—	no	—	—	—	yes	—	—	—	—	—
direction	—	S	—	—	through-plane	—	—	—	—	—	—
nr of b-factors	—	2	—	—	—	2	—	—	—	—	—
b-factor order	—	ascending	—	—	—	ascending	—	—	—	—	—
max b-factor	—	1000	—	—	—	1000	—	—	—	—	—
average high b	—	yes	—	—	—	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	no	yes	yes	yes	no
Patient pregnancy	no	no	no	no	no	no	—	no	no	no	—
Patient WB SAR [W/kg]	0	0	0	0	0	0	—	0	0	0	—
Patient Head SAR [W/kg]	0	0	0	0	0	0	—	0	0	0	—
Patient max. dB/dt [T/s]	0	0	0	0	0	0	—	0	0	0	—
Max slewrate [T/m/s]	0	0	0	0	0	0	—	0	0	0	—
Max. B1+rms [uT]	0	0	0	0	0	0	—	0	0	0	—
PNS mode	low	high	moderate	moderate	low	high	moderate	low	high	high	high
Gradient mode	default	maximum	default	maximum	default	maximum	maximum	default	maximum	default	maximum
SofTone mode	no	no	no	no	no	no	no	user defined	no	no	no

MOTION

Scan Description	Survey	AX DWI	SG T1 3D	AX SWIp	AX T2 DRIVE IAC	DWI tse IAC	pCASL 3D	AX T2 HR POST CONTRAST	SG FLAIR 3D POST CONTRAST	AX T1 FS IAC POST CONTRAST	AX T1 FS 3D 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	no	no	no	no	no	no	no	no	no	no
Navigator respiratory comp	no	no	no	no	no	no	no	no	no	no	no
Flow compensation	no	no	no	yes	yes	no	no	no	no	no	no
Temporal slice spacing	—	default	—	—	—	default	—	default	—	—	—
Motion smoothing	no	—	no	—	no	no	no	no	no	no	no
fMRI echo stabilisation	no	—	no	no	—	—	—	—	—	no	no
NSA	1	2	1	1	1	6	1	1	2	4	2
MRE enable	no	no	no	no	no	no	no	no	no	no	no

DYNAMIC ANGIO

Scan Description	Survey	AX DWI	SG T1 3D	AX SWIp	AX T2 DRIVE IAC	DWI tse IAC	pCASL 3D	AX T2 HR POST CONTRAST	SG FLAIR 3D POST CONTRAST	AX T1 FS IAC POST CONTRAST	AX T1 FS 3D POST CONTRAST
Angio / Contrast enh.	no	—	no	no	—	—	—	—	—	contrast enh.	contrast enh.
Quantitative flow	no	—	no	no	—	—	—	—	—	no	no
CENTRA	—	—	no	—	no	—	—	—	no	—	—
Manual start	no	no	no	no	no	no	no	yes	no	no	no
Dynamic study	no	no	no	no	no	no	individual	no	no	no	no
Arterial Spin labeling	no	no	no	no	no	no	pCASL	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	SG T1 3D	AX SWIp	AX T2 DRIVE IAC	DWI tse IAC	pCASL 3D	AX T2 HR POST CONTRAST	SG FLAIR 3D POST CONTRAST	AX T1 FS IAC POST CONTRAST	AX T1 FS 3D POST CONTRAST
Preparation phases	auto	auto	auto	auto	auto	auto	auto	auto	auto	auto	auto
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	no	no	no	no
SWIp	no	—	no	yes	—	—	—	—	—	no	no
Images	no	no	no	no	no	no	no	no	no	no	no
Autoview image	M	M	M	—	M	M	M	M	M	M	M
Calculated images	no	no	no	—	no	no	no	no	—	no	no
Reference tissue	White matter	Grey matter	White matter	White matter	White matter	Grey matter	Grey matter	Grey matter	Grey matter	White matter	White matter
Recon compression	No	No	High	High	High	No	High	High	High	No	No
Preset window contrast	soft	soft	soft	soft	soft	soft	soft	soft	soft	soft	soft
Reconstruction mode	immediate	real time	real time	immediate	immediate	real time	immediate	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	medium	system default	system default	system default	system default	system default	system default
Uniformity correction	no	no	no	no	no	no	no	no	yes	no	no
Geometry correction	default	default	default	default	default	default	default	default	default	default	default
EPI geometry correction	—	no	—	—	—	—	—	—	—	—	—
ADC correction	—	no	—	—	—	no	—	—	—	—	—
Elliptical k-space shutter	—	—	default	default	default	—	default	—	default	default	default
Free rotatable	no	no	no	no	no	no	no	no	no	no	no

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