NECK SOFT TISSUE WITH/WITHOUT IV CONTRAST 1.5T R5.6

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Change patient into hospital issued gown and pants • Place MRI marker over area of interest • Power injector
Position	Supine, head first
Coil	Neurovascular coil, or integrated head-neck-spine coil
Landmark	Chin

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate	Dose Timing Method and Scan Delay
Gadopiclenol (VUEWAY)	0.05 mmol/kg	5 mL/sec	Axial 3D Dyn is run with half the dose of VUEWAY power injected with a 15 second inject delay Perfusion is run with remaining VUEWAY with 15 second inject delay
Saline Flush	20 mL x2	5 mL/sec	20 mL saline after each power injection
Comments	Report agent administered and dose		

Disclaimer: The MR Protocols information is provided by independent physicians and technologists and is not intended to provide definitive or complete medical instructional or treatment information. Products referenced herein should be used consistently with their package inserts, and any devices referenced herein should be used consistently with the operation instructions provided by their respective manufactures. Northwest Imaging Forums, Inc. and Bracco Diagnostics Inc. do not offer medical advice and shall not be responsible for any person's reliance on this protocol.

Supported by an educational grant from Bracco Diagnostics Inc.

MR Gadopiclenol (VUEWAY®) Protocol for Philips Healthcare Systems
Central Nervous System

IMAGING FORUMS, INC.

INFO PAGE

Scan Description	LOC	AXIAL T1	AXIAL STIR	CORONAL T1	CORONAL STIR	Diff	AXIAL 3D Dyn	AXIAL 3D Dyn 5 deg	AXIAL 3D Dyn 10 deg	AXIAL 3D Dyn 20 deg	AXIAL 3D Dyn 25 deg	FE EPI ASFNR	AXIAL 3D Venous	AXIAL T1 +C Fat Sat mDIXON	CORONAL T1 +C Fat Sat mDIXON
Total scan duration	00:17.5	02:33.8	03:01.8	01:29.6	03:35.1	—	04:53.2	00:11.2	00:11.2	00:11.2	00:11.2	02:28.8	00:16.3	03:05.1	03:12.7
Rel. SNR	1	1	1	1	1	—	1	1	1	1	1	1	1	1	1
Act. TR (ms)	—	610	—	563	—	—	—	—	—	—	—	—	—	588	706
Act. TR/TE (ms)	15 / 5.2	—	—	—	—	—	4.0 / 1.88	4.0 / 1.88	4.0 / 1.88	4.0 / 1.88	4.0 / 1.88	1600 / 40	—	—	—
Act. TR/TI (ms)	—	—	2245 / 165	—	5122 / 160	—	—	—	—	—	—	—	—	—	—
Act. TR/TE1/TE2 (ms)	—	—	—	—	—	—	—	—	—	—	—	—	5.9 / 1.80 / 4.0	—	—
Act. TE (ms)	—	10	70	10	14	—	—	—	—	—	—	—	—	10	10
Dyn. scan time	—	—	—	—	—	—	00:09.7	00:11.2	00:11.2	00:11.2	00:11.2	00:01.6	—	—	—
Time to k0	—	—	—	—	—	—	00:07.7	00:09.2	00:09.2	00:09.2	00:09.2	0.8	00:04.8	—	—
ACQ matrix M x P	256 x 126	304 x 227	200 x 129	372 x 281	312 x 243	—	112 x 125	112 x 125	112 x 125	112 x 125	112 x 125	92 x 90	128 x 129	304 x 243	340 x 272
ACQ voxel MPS (mm)	0.98 / 1.98 / 10.0	0.59 / 0.79 / 4.00	0.90 / 1.40 / 4.00	0.59 / 0.78 / 4.00	0.71 / 0.90 / 4.00	—	1.96 / 2.00 / 5.00	1.96 / 2.00 / 5.00	1.96 / 2.00 / 5.00	1.96 / 2.00 / 5.00	1.96 / 2.00 / 5.00	2.43 / 2.49 / 5.00	1.41 / 1.40 / 4.00	0.59 / 0.74 / 4.00	0.65 / 0.81 / 4.00
REC voxel MPS (mm)	0.98 / 0.98 / 10.0	0.35 / 0.35 / 4.00	0.70 / 0.70 / 4.00	0.38 / 0.38 / 4.00	0.34 / 0.34 / 4.00	—	0.74 / 0.74 / 2.50	0.74 / 0.74 / 2.50	0.74 / 0.74 / 2.50	0.74 / 0.74 / 2.50	0.74 / 0.74 / 2.50	1.75 / 1.75 / 5.00	0.63 / 0.63 / 2.00	0.35 / 0.35 / 4.00	0.38 / 0.38 / 4.00
Scan percentage (%)	49	75	64	75	78	—	98	98	98	98	98	98	101	80	80
TFE shots	3	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TFE dur. shot / acq (ms)	698.5 / 630.0	—	—	—	—	—	—	—	—	—	—	—	—	—	—
TFE shot interval (ms)	698.5	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Min. TI delay	373.6	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Packages	—	4	9	3	3	—	—	—	—	—	—	1	—	5	3
Min. slice gap (mm)	—	4	4	4	0.8	—	—	—	—	—	—	0	—	4	4
Act. slice gap (mm)	—	—	0.4	—	—	—	-2.5	-2.5	-2.5	-2.5	-2.5	—	-2	—	—
Optimal slices	—	26	12	24	24	—	—	—	—	—	—	—	—	20	24
Max. slices	—	52	54	36	36	—	—	—	—	—	—	—	—	—	36
EPI factor	—	—	—	—	—	—	—	—	—	—	—	45	—	—	—
TFE shots	—	—	—	—	—	—	117	117	117	117	117	—	—	—	—
TFE dur. shot / acq (ms)	—	—	—	—	—	—	68.7 / 24.2	70.3 / 24.2	70.1 / 24.2	69.4 / 24.2	68.7 / 24.2	—	—	—	—
TFE shot interval (ms)	—	—	—	—	—	—	83.1	83.1	83.1	83.1	83.1	—	—	—	—
Act. WFS (pix) / BW (Hz)	1.161 / 187.1	—	—	—	—	—	0.500 / 434.3	0.500 / 434.3	0.500 / 434.3	0.500 / 434.3	0.500 / 434.3	7.131 / 30.5	0.390 / 556.4	—	—
BW in EPI freq. dir. (Hz)	—	—	—	—	—	—	—	—	—	—	—	1925.6	—	—	—
Min. WFS (pix) / Max. BW (Hz)	0.525 / 413.8	—	—	—	—	—	0.117 / 1860.1	0.117 / 1860.1	0.117 / 1860.1	0.117 / 1860.1	0.117 / 1860.1	7.121 / 30.5	0.162 / 1337.6	—	—
Min. TR/TE (ms)	10 / 5.2	—	—	—	—	—	—	—	—	—	—	1527 / 18	—	—	—
Min. TR/TE1/TE2 (ms)	—	—	—	—	—	—	—	—	—	—	—	—	5.9 / 1.72 / 3.8	—	—
WFS (pix) / BW (Hz)	—	0.819 / 265.3	0.709 / 306.4	0.814 / 266.7	1.621 / 134.0	—	—	—	—	—	—	—	—	0.607 / 357.6	0.647 / 335.7
Full flow comp.	—	yes	—	yes	—	—	—	—	—	—	—	—	—	yes	yes
TSE es / shot (ms)	—	8.0 / 40	5.8 / 134	8.0 / 40	14.0 / 252	—	—	—	—	—	—	—	—	10.0 / 50	10.0 / 50
Min. TR (ms)	—	610	—	563	—	—	—	—	—	—	—	—	—	588	706

Disclaimer: The MR Protocols information is provided by independent physicians and technologists and is not intended to provide definitive or complete medical instructional or treatment information. Products referenced herein should be used consistently with their package inserts, and any devices referenced herein should be used consistently with the operation instructions provided by their respective manufactures. Northwest Imaging Forums, Inc. and Bracco Diagnostics Inc. do not offer medical advice and shall not be responsible for any person's reliance on this protocol.

Supported by an educational grant from Bracco Diagnostics Inc.

MR Gadopiclenol (VUEWAY®) Protocol for Philips Healthcare Systems
Central Nervous System

Min. TR/TI (ms)	—	—	2245 / 50	—	5122 / 50	—	—	—	—	—	—	—	—	—
Local torso SAR	< 7 %	< 93 %	< 61 %	< 93 %	< 45 %	—	< 19 %	< 8 %	< 10 %	< 15 %	< 19 %	< 6 %	< 10 %	< 74 %	< 74 %
Whole body SAR / level	< 0.2 W/kg / normal	< 2.4 W/kg / 1st level	< 1.5 W/kg / normal	< 2.4 W/kg / 1st level	< 1.1 W/kg / normal	—	< 0.5 W/kg / normal	< 0.2 W/kg / normal	< 0.2 W/kg / normal	< 0.4 W/kg / normal	< 0.5 W/kg / normal	< 0.1 W/kg / normal	< 0.2 W/kg / normal	< 1.9 W/kg / normal	< 1.9 W/kg / normal
SED	0.0 kJ/kg	< 0.4 kJ/kg	< 0.3 kJ/kg	< 0.2 kJ/kg	< 0.2 kJ/kg	—	< 0.1 kJ/kg	0.0 kJ/kg	0.0 kJ/kg	0.0 kJ/kg	0.0 kJ/kg	0.0 kJ/kg	0.0 kJ/kg	< 0.4 kJ/kg	< 0.4 kJ/kg
Max B1+rms	1.05 uT	4.09 uT	3.32 uT	4.09 uT	2.85 uT	—	1.86 uT	1.22 uT	1.32 uT	1.65 uT	1.86 uT	1.01 uT	1.32 uT	3.65 uT	3.65 uT
PNS / level	17 % / normal	59 % / normal	45 % / normal	53 % / normal	33 % / normal	—	63 % / normal	63 % / normal	63 % / normal	63 % / normal	63 % / normal	60 % / normal	61 % / normal	53 % / normal	49 % / normal
dB/dt	12.8 T/s	48.5 T/s	47.3 T/s	48.4 T/s	35.1 T/s	—	86.8 T/s	86.8 T/s	86.8 T/s	86.8 T/s	86.8 T/s	53.4 T/s	99.7 T/s	50.0 T/s	49.9 T/s
Sound Pressure Level (dB)	-3.9	13.4	8	19.9	3.3	—	11.9	11.9	11.8	11.8	11.9	10.8	16.5	12.3	13.7

Disclaimer: The MR Protocols information is provided by independent physicians and technologists and is not intended to provide definitive or complete medical instructional or treatment information. Products referenced herein should be used consistently with their package inserts, and any devices referenced herein should be used consistently with the operation instructions provided by their respective manufactures. Northwest Imaging Forums, Inc. and Bracco Diagnostics Inc. do not offer medical advice and shall not be responsible for any person's reliance on this protocol.

Supported by an educational grant from Bracco Diagnostics Inc.

MR Gadopiclenol (VUEWAY®) Protocol for Philips Healthcare Systems
Central Nervous System

IMAGING FORUMS, INC.

GEOMETRY

Scan Description	LOC	AXIAL T1	AXIAL STIR	CORONAL T1	CORONAL STIR	Diff	AXIAL 3D Dyn	AXIAL 3D Dyn 5 deg	AXIAL 3D Dyn 10 deg	AXIAL 3D Dyn 20 deg	AXIAL 3D Dyn 25 deg	FE EPI ASFNR	AXIAL 3D Venous	AXIAL T1 +C Fat Sat mDIXON	CORONAL T1 +C Fat Sat mDIXON
SmartSelect	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes
Uniformity	—	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR	CLEAR
FOV AP (mm)	250	180	180	149	149	220	250	250	250	250	250	224	180	180	149
FOV (mm)	50, (2) 10, (17) 250	—	—	—	—	—	—	—	—	—	—	—	—	—	—
FOV FH (mm)	250	220	220	220	220	219	70	70	70	70	70	100	220	220	220
FOV RL (mm)	—	180	180	220	220	220	220	220	220	220	220	224	180	180	220
ACQ voxel size AP (mm)	2	0.7	1.1	—	—	2.9	2	2	2	2	2	2.5	1.4	0.7	—
ACQ voxel size FH (mm)	1	—	—	0.6	0.7	—	5	5	5	5	5	—	4	—	0.6
ACQ voxel size RL (mm)	—	0.6	0.9	0.7	0.9	1.7	2	2	2	2	2	2.5	1.4	0.6	0.8
Slice thickness (mm)	10	4	4	4	4	4	—	—	—	—	—	5	—	4	4
Bar orientation	RL	—	—	—	—	—	—	—	—	—	—	—	—	—	—
VOI orientation	transverse	—	—	—	—	—	—	—	—	—	—	—	—	—	—
VOI size AP (mm)	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—
VOI size FH (mm)	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—
VOI size RL (mm)	30	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Recon voxel size AP (mm)	1	0.4	0.7	—	—	0.9	0.7	0.7	0.7	0.7	0.7	1.75	0.6	0.4	—
Recon voxel size FH (mm)	1	—	—	0.4	0.3	—	2.5	2.5	2.5	2.5	2.5	—	2	—	0.4
Recon voxel size RL (mm)	—	0.4	0.7	0.4	0.3	0.9	0.7	0.7	0.7	0.7	0.7	1.75	0.6	0.4	0.4
Fold-over suppression	no	oversampling	oversampling	oversampling	oversampling	no	no	no	no	no	no	no	oversampling	oversampling	oversampling
A (mm)	50	20	20	—	—	—	—	—	—	—	—	—	20	20	—
L (mm)	—	—	—	110	110	—	—	—	—	—	—	—	—	—	110
P (mm)	50	20	20	—	—	—	—	—	—	—	—	—	20	20	—
R (mm)	—	—	—	110	110	—	—	—	—	—	—	—	—	—	110
Slice oversampling	—	—	—	—	—	—	user defined	user defined	user defined	user defined	user defined	—	default	—	—
oversample factor	—	—	—	—	—	—	1.2	1.2	1.2	1.2	1.2	—	—	—	—
ENCASE enable	—	—	—	—	—	—	no	no	no	no	no	—	no	—	—
Reconstruction matrix	256	512	256	576	640	256	336	336	336	336	336	128	288	512	576
SENSE	no	no	no	no	no	no	yes	yes	yes	yes	yes	yes	no	no	no
P reduction (AP)	—	—	—	—	—	—	2	2	2	2	2	2	—	—	—
S reduction (FH)	—	—	—	—	—	—	1	1	1	1	1	—	—	—	—
CS-SENSE	no	yes	yes	yes	yes	no	no	no	no	no	no	no	yes	yes	yes
reduction	—	1.9	1.8	2.3	2.1	—	—	—	—	—	—	—	2.5	2	2.5
denoising	—	system default	system default	system default	system default	—	—	—	—	—	—	—	system default	system default	system default
k-t Acceleration	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no
Stacks	3	1	1	1	1	1	1	1	1	1	1	1	1	1	1
type	(20) parallel	parallel	parallel	parallel	parallel	parallel	—	—	—	—	—	parallel	—	parallel	parallel
Slices	3, (19) 1	50	50	34	34	44	28	28	28	28	28	20	110	50	34

Disclaimer: The MR Protocols information is provided by independent physicians and technologists and is not intended to provide definitive or complete medical instructional or treatment information. Products referenced herein should be used consistently with their package inserts, and any devices referenced herein should be used consistently with the operation instructions provided by their respective manufactures. Northwest Imaging Forums, Inc. and Bracco Diagnostics Inc. do not offer medical advice and shall not be responsible for any person's reliance on this protocol.

Supported by an educational grant from Bracco Diagnostics Inc.

slice gap	user defined	user defined	default	user defined	user defined	user defined	—	—	—	—	—	user defined	—	user defined	user defined
gap (mm)	(20) 10	0.4	—	0.4	0.4	1	—	—	—	—	—	0	—	0.4	0.4
Slice orientation	sagittal, coronal, (18) transverse	transverse	transverse	coronal	coronal	transverse	transverse	transverse	transverse	transverse	transverse	transverse	transverse	transverse	coronal
Fold-over direction	AP, (2) RL, (17) AP	AP	AP	RL	RL	AP	AP	AP	AP	AP	AP	AP	AP	AP	RL
Fat shift direction	(2) F, P, (17) L	L	L	F	F	P	L	L	L	L	L	P	L	L	F
radial axis	AP, RL, AP, (17) RL	—	—	—	—	—	—	—	—	—	—	—	—	—	—
radial angle (deg)	(20) 0	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Minimum number of Packages	—	1	1	1	1	1	—	—	—	—	—	1	—	1	1
Slice scan order	default	default	default	default	default	default	—	—	—	—	—	FH	—	default	default
Stack scan order	ascend	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Move table per stack	no	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Multi-chunk	—	—	—	—	—	—	no	no	no	no	no	—	no	—	—
O-MAR	—	no	no	no	no	—	—	—	—	—	—	—	—	no	no
Large table movement	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no
Stack alignment	no	—	—	—	—	—	—	—	—	—	—	—	—	—	—
Stack sort order	no	—	—	—	—	—	—	—	—	—	—	—	—	—	—
PlanAlign	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no
REST slabs	0	0	2	0	0	0	0	0	0	0	0	0	0	0	0
shared	—	—	no	—	—	—	—	—	—	—	—	—	—	—	—
type	—	—	(12) parallel	—	—	—	—	—	—	—	—	—	—	—	—
circular slabs	—	—	(12) 10	—	—	—	—	—	—	—	—	—	—	—	—
orientation	—	—	(12) transverse	—	—	—	transverse	transverse	transverse	transverse	transverse	—	—	—	—
thickness (mm)	—	—	(2) 40, (10) 60	—	—	—	—	—	—	—	—	—	—	—	—
position	—	—	feet, head, (10) left	—	—	—	—	—	—	—	—	—	—	—	—
gap	—	—	(2) user defined, (10) default	—	—	—	—	—	—	—	—	—	—	—	—
(mm)	—	—	(2) 10, (10) 20	—	—	—	—	—	—	—	—	—	—	—	—
distance (mm)	—	—	(12) 50	—	—	—	—	—	—	—	—	—	—	—	—
FM shape	—	—	(12) no	—	—	—	—	—	—	—	—	—	—	—	—
composite elements	—	—	(12) 1	—	—	—	—	—	—	—	—	—	—	—	—
correction factor	—	—	(12) 1	—	—	—	—	—	—	—	—	—	—	—	—
power	—	—	(12) 1	—	—	—	—	—	—	—	—	—	—	—	—
target	—	—	(12) fat	—	—	—	—	—	—	—	—	—	—	—	—
timed	—	—	no	—	—	—	—	—	—	—	—	—	—	—	—
start (phase)	—	—	1	—	—	—	—	—	—	—	—	—	—	—	—
stop (phase)	—	—	2	—	—	—	—	—	—	—	—	—	—	—	—
delay	—	—	no	—	—	—	—	—	—	—	—	—	—	—	—

Disclaimer: The MR Protocols information is provided by independent physicians and technologists and is not intended to provide definitive or complete medical instructional or treatment information. Products referenced herein should be used consistently with their package inserts, and any devices referenced herein should be used consistently with the operation instructions provided by their respective manufactures. Northwest Imaging Forums, Inc. and Bracco Diagnostics Inc. do not offer medical advice and shall not be responsible for any person's reliance on this protocol.

Supported by an educational grant from Bracco Diagnostics Inc.

(ms)	—	—	50	—	—	—	—	—	—	—	—	—	—	—	—
Interactive positioning	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no
Patient position	head first	head first	head first	head first	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	head first	head first	head first	head first
Patient orientation	supine	supine	supine	supine	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	supine	supine	supine	supine

Disclaimer: The MR Protocols information is provided by independent physicians and technologists and is not intended to provide definitive or complete medical instructional or treatment information. Products referenced herein should be used consistently with their package inserts, and any devices referenced herein should be used consistently with the operation instructions provided by their respective manufactures. Northwest Imaging Forums, Inc. and Bracco Diagnostics Inc. do not offer medical advice and shall not be responsible for any person's reliance on this protocol.

Supported by an educational grant from Bracco Diagnostics Inc.

MR Gadopiclenol (VUEWAY®) Protocol for Philips Healthcare Systems
Central Nervous System

IMAGING FORUMS, INC.

CONTRAST

Scan Description	LOC	AXIALT1	AXIALSTIR	CORONALT1	CORONALSTIR	Diff	AXIAL3D Dyn	AXIAL3D Dyn5 deg	AXIAL3D Dyn10 deg	AXIAL3D Dyn20 deg	AXIAL 3D Dyn25 deg	FE EPIASFNR	AXIAL3D Venous	AXIALT1 +C Fat SatmDIXON	CORONALT1 +C Fat SatmDIXON
Scan type	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging	Imaging					
Scan mode	M2D	MS	MS	MS	MS	MS	3D	3D	3D	3D					
technique	FFE	SE	IR	SE	IR	SE	FFE	FFE	FFE	FFE					
3D non-selective	—	—	—	—	—	—	no	no	no	no					
Contrast enhancement	T1	—	—	—	—	—	T1	T1	T1	T1					
Modified SE	—	no	—	no	—	no	—	—	—	—					
Acquisition mode	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian	cartesian					
Fast Imaging mode	TFE	TSE	TSE	TSE	TSE	EPI	TFE	TFE	TFE	TFE					
shot mode	multishot	multishot	multishot	multishot	multishot	single-shot	multishot	multishot	multishot	multishot					
TFE factor	42	—	—	—	—	—	6	6	6	6					
TSE factor	—	5	23	5	18	—	—	—	—	—					
TE spacing	—	user defined	—	user defined	—	—	—	—	—	—					
startup Echoes	default	—	—	—	—	—	user defined	user defined	user defined	user defined					
Echoes	1	1	1	1	1	1	1	1	1	1					
Flip angle (deg)	20	90	—	90	—	90	25	5	10	20					
Refocusing control	—	no	no	no	no	—	—	—	—	—					
TR	user defined	range	range	range	range	shortest	shortest	shortest	shortest	shortest					
Halfscan	no	no	no	no	no	yes	yes	yes	yes	yes					
Water-fat shift	maximum	maximum	maximum	maximum	maximum	maximum	user defined	user defined	user defined	user defined					
IR delay (ms)	—	—	165	—	160	—	—	—	—	—					
Shim	—	auto	default	auto	auto	auto	volume	volume	volume	volume					
ShimAlign	—	—	—	—	—	—	no	no	no	no					
mDIXON	no	no	no	no	no	no	no	no	no	no					
Fat suppression	no	no	no	no	no	SPIR	SPAIR	SPAIR	SPAIR	SPAIR					
Water suppression	no	no	no	no	no	no	no	no	no	no					
TFE prepulse	invert	—	—	—	—	—	no	no	no	no					
PSIR	no	—	—	—	—	—	—	—	—	—					
MTC	no	no	no	no	no	no	no	no	no	no					
T2prep	no	—	—	—	—	—	no	no	no	no					
Diffusion mode	no	no	no	no	no	DWI	no	no	no	no					
T1 mapping	no	no	no	no	no	no	no	no	no	no					
SAR mode	high	high	high	high	high	high	high	high	high	high					
B1 mode	default	default	default	default	default	default	default	default	default	default					
SAR allow first level	yes	yes	yes	yes	yes	yes	yes	yes	yes	yes					
Patient pregnancy	no	no	no	no	no	no	no	no	no	no					
Patient WB SAR [W/kg]	—	—	—	—	—	—	—	—	—	—					
Patient Head SAR [W/kg]	—	—	—	—	—	—	—	—	—	—					

Disclaimer: The MR Protocols information is provided by independent physicians and technologists and is not intended to provide definitive or complete medical instructional or treatment information. Products referenced herein should be used consistently with their package inserts, and any devices referenced herein should be used consistently with the operation instructions provided by their respective manufactures. Northwest Imaging Forums, Inc. and Bracco Diagnostics Inc. do not offer medical advice and shall not be responsible for any person's reliance on this protocol.

Supported by an educational grant from Bracco Diagnostics Inc.

Patient max. dB/dt [T/s]	—	—	—	—	—	—	—	—	—	—
Max slewrate [T/m/s]	—	—	—	—	—	—	—	—	—	—
Max. B1+rms [uT]	—	—	—	—	—	—	—	—	—	—
PNS mode	moderate	moderate	low	moderate	moderate	moderate	high	high	high	high
Gradient mode	regular	default	default	default	default	default	maximum	maximum	maximum	maximum
SofTone mode	no	no	no	no	no	no	no	no	no	no

MOTION

Scan Description	LOC	AXIAL T1	AXIAL STIR	CORONAL T1	CORONAL STIR	Diff	AXIAL 3D Dyn	AXIAL 3D Dyn 5 deg	AXIAL 3D Dyn 10 deg	AXIAL 3D Dyn 20 deg	AXIAL 3D Dyn 25 deg	FE EPI ASFNR	AXIAL 3D Venous	AXIAL T1 +C Fat Sat mDIXON	CORONAL T1 +C Fat Sat mDIXON
Cardiac synchronization	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no
Respiratory compensation	no	no	no	no	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	no	no	no	no
Flow compensation	no	yes	no	yes	no	no	no	no	no	no	no	no	no	yes	yes
direction	—	in-plane	—	in-plane	—	—	—	—	—	—	—	—	—	in-plane	in-plane
Temporal slice spacing	—	default	—	default	—	default	—	—	—	—	—	default	—	default	default
fMRI echo stabilisation	no	—	—	—	—	—	no	no	no	no	no	no	no	—	—
Motion smoothing	—	no	yes	no	no	—	—	—	—	—	—	—	—	yes	no
NSA	1	2	2	1	1	4	1	1	1	1	1	1	1	1	1
SMART	—	no	no	—	—	no	—	—	—	—	—	—	—	—	—
MRE enable	no	—	no	no	no	no	no	no	no	no	no	no	no	—	no

DYNAMIC ANGIO

Scan Description	LOC	AXIAL T1	AXIAL STIR	CORONAL T1	CORONAL STIR	Diff	AXIAL 3D Dyn	AXIAL 3D Dyn 5 deg	AXIAL 3D Dyn 10 deg	AXIAL 3D Dyn 20 deg	AXIAL 3D Dyn 25 deg	FE EPI ASFNR	AXIAL 3D Venous	AXIAL T1 +C Fat Sat mDIXON	CORONAL T1 +C Fat Sat mDIXON
Angio / Contrast enh.	no	no	—	—	—	—	no	no	no	no	no	no	contrast enh.	no	—
Quantitative flow	no	—	—	—	—	—	no	no	no	no	no	no	no	—	—
CENTRA	—	—	—	—	—	—	no	no	no	no	no	—	linear	—	—
Manual start	no	no	no	no	no	no	yes	yes	yes	yes	yes	yes	no	no	no
Dynamic study	no	no	no	no	no	no	individual	individual	individual	individual	individual	individual	no	no	no
dyn scans	—	—	—	—	—	—	30	1	1	1	1	90	—	—	—
dyn scan times	—	—	—	—	—	—	shortest	shortest	shortest	shortest	shortest	shortest	—	—	—
fov time mode	—	—	—	—	—	—	default	default	default	default	default	default	—	—	—
dummy scans	—	—	—	—	—	—	0	0	0	0	0	0	—	—	—
immediate subtraction	—	—	—	—	—	—	no	—	—	—	—	no	—	—	—
fast next scan	—	—	—	—	—	—	no	no	no	no	no	no	—	—	—
synch. ext. device	—	—	—	—	—	—	no	—	—	—	—	no	—	—	—
prospect. motion corr.	—	—	—	—	—	—	no	no	no	no	no	no	—	—	—
Keyhole	—	—	—	—	—	—	no	no	no	no	no	no	—	—	—
Arterial Spin labeling	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no

Disclaimer: The MR Protocols information is provided by independent physicians and technologists and is not intended to provide definitive or complete medical instructional or treatment information. Products referenced herein should be used consistently with their package inserts, and any devices referenced herein should be used consistently with the operation instructions provided by their respective manufactures. Northwest Imaging Forums, Inc. and Bracco Diagnostics Inc. do not offer medical advice and shall not be responsible for any person's reliance on this protocol.

Supported by an educational grant from Bracco Diagnostics Inc.

MR Gadopiclenol (VUEWAY®) Protocol for Philips Healthcare Systems
Central Nervous System

IMAGING FORUMS, INC.

POST PROCESSING

Scan Description	LOC	AXIAL T1	AXIAL STIR	CORONAL T1	CORONAL STIR	Diff	AXIAL 3D Dyn	AXIAL 3D Dyn 5 deg	AXIAL 3D Dyn 10 deg	AXIAL 3D Dyn 20 deg	AXIAL 3D Dyn 25 deg	FE EPI ASFNR	AXIAL 3D Venous	AXIAL T1 +C Fat Sat mDIXON	CORONAL T1 +C Fat Sat mDIXON
Preparation phases	—	auto	auto	auto	auto	auto	auto	auto	auto	auto	auto	auto	auto	full	auto
Interactive F0	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no
Quick Survey	default	default	default	default	default	default	default	default	default	default	default	default	default	default	default
MIP/MPR	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no
SWIp	no	—	—	—	—	—	no	no	no	no	no	no	no	—	—
mDIXON images	—	—	—	—	—	—	—	—	—	—	—	—	water, (5) no	IP, water, (4) no	IP, water, (4) no
Images	M, (3) no	M, (3) no	M, (3) no	M, (3) no	M, (3) no	M, (3) no	M, (3) no	M, (3) no	M, (3) no	M, (3) no	M, (3) no	M, (3) no	—	—	—
Autoview image	M	M	M	M	no	M	M	M	M	M	M	M	—	—	—
Calculated images	(4) no	(4) no	—	(4) no	—	(4) no	(4) no	(4) no	(4) no	(4) no	(4) no	(4) no	—	—	—
Reference tissue	White matter	White matter	Skeletal muscle	White matter	White matter	White matter	Liver	Liver	Liver	Liver	Liver	White matter	Liver	White matter	White matter
Recon compression	No	No	No	No	No	No	No	No	No	No	No	No	Default	No	No
Preset window contrast	soft	soft	soft	soft	soft	soft	soft	soft	soft	soft	soft	soft	no	soft	soft
Reconstruction mode	immediate	real time	real time	real time	real time	immediate	real time	real time	real time	real time	real time	real time	real time	immediate	immediate
Save raw data	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no
Hardcopy protocol	no	no	no	no	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	system default	system default	system default	system default
Uniformity correction	no	no	no	no	no	no	no	no	no	no	no	no	no	no	no
Geometry correction	default	default	default	default	default	default	default	default	default	default	default	default	default	default	default
Elliptical k-space shutter	—	—	—	—	—	—	default	default	default	default	default	—	default	—	—
IF_info_seperator	—	0	1634755923	0	0	0	1634755923	1634755923	1634755923	1634755923	1634755923	1634755923	1634755923	0	0

Disclaimer: The MR Protocols information is provided by independent physicians and technologists and is not intended to provide definitive or complete medical instructional or treatment information. Products referenced herein should be used consistently with their package inserts, and any devices referenced herein should be used consistently with the operation instructions provided by their respective manufactures. Northwest Imaging Forums, Inc. and Bracco Diagnostics Inc. do not offer medical advice and shall not be responsible for any person's reliance on this protocol.

Supported by an educational grant from Bracco Diagnostics Inc.