CRANIAL NERVES/INTERNAL AUDITORY CANAL (IAC) 1.5T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Reformat Sagittal T1 CUBE and Coronal T1 CUBE in Axial and Coronal planes. If CUBE is not available run Axial and Coronal T1 weighted sequences with and without contrast (+/-Fat Sat) • Axial T2 CUBE FOCUS or FIESTA images are used to image the cranial nerves • This may be a standalone exam for follow-up or done in conjunction with sequences from Routine Brain protocol • Contrast is used for almost all examinations
Position	Supine, head first
Coil	Head, HNU (Head 24 selected if possible)
Landmark	Glabella/Nasion

CONTRAST AGENT PARAMETERS

Contrast Agent	Dose	Injection Rate
Gadopiclenol (VUEWAY)	0.05 mmol/kg up to a calculated volume of 10 mL	Hand Bolus usually
Saline Flush	10-20 mL	Hand Flush
Comments	Report agent administered and dose	

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 CUBE	AXIAL T2 CUBE FOCUS	AXIAL FIESTA	Post AXIAL T1 3D BRAVO	Post CORONAL T1 CUBE	Optional: AXIAL T1 FSE	Optional: CORONAL T1 FSE	Optional: Post AXIAL T1 FSE	Optional: Post CORONAL T1 FSE
Primary Sequence	Yes	Yes	No	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Mode	2D	3D	3D	3D	3D BRAVO	3D	2D	2D	2D	2D
Pulse Sequence	SSFSE	CUBE	CUBE-T2	FIESTA-C	BRAVO	CUBE	FSE-XL	FSE-XL	FSE-XL	FSE-XL
Imaging Options	SEQ, EDR, FAST, SS, ARC, TRF	EDR, FAST, ZIP2, NPW, FR, ARC	FC, EDR, FAST, ZIP512, ZIP2, FR, ARC, HS, Excitation=Focus	NPW, EDR, FAST, ZIP2	FAST, IRP, ZIP2, ASSET	EDR, ZIP2, ZIP512, FR, ARC	TRF, NPW	TRF, NPW	TC, NPW, TRF, FAST (Flex if available)	TC, NPW, TRF, FAST (Flex if available)

SCAN PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 CUBE	AXIAL T2 CUBE FOCUS	AXIAL FIESTA	Post AXIAL T1 3D BRAVO	Post CORONAL T1 CUBE	Optional: AXIAL T1 FSE	Optional: CORONAL T1 FSE	Optional: Post AXIAL T1 FSE	Optional: Post CORONAL T1 FSE
TE	80	24	220	Min	—	24	Min	Min	Min	Min
TR	Min	550	2000	—	—	550	500-700	500-700	500-700	500-700
TI	—	—	—	—	450	—	—	—	—	—
Flip Angle	—	—	Auto	55	13	13	Auto	Auto	Auto	Auto
ETL	—	24	130	—	—	24	3	3	3	3
Bandwidth	83	62	62	36	25	62	31	31	31	31
Sat	—	—	—	—	—	Fat	I	—	Optional Fat	Optional Fat

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 GE HealthCare Systems
Central Nervous System

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL T1 CUBE	AXIAL T2 CUBE FOCUS	AXIAL FIESTA	Post AXIAL T1 3D BRAVO	Post CORONAL T1 CUBE	Optional: AXIAL T1 FSE	Optional: CORONAL T1 FSE	Optional: Post AXIAL T1 FSE	Optional: Post CORONAL T1 FSE
MATRIX freq	256	288	260	256	256	288	256	256	256	256
MATRIX phase	192	288	260	256	256	288	224	224	224	224
NEX	1	1	2	1	1	1	2	2	2	2
Phase FOV	1	1	0.9	—	—	0.7	1	1	1	1
Freq Direction	Unswap	S/I	A/P	A/P	A/P	S/I	A/P	S/I	A/P	S/I
Image Enhance	—	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE
FC Direction	—	—	—	—	—	—	—	—	—	Freq
User CV	—	CUBE Enh 3	ACC=2 HS1.2 CUBE-2 SAR-1 Apodization-lvl-1	—	ACC=2	Fat Sat Eff 1 CUBE Enh 3 ACC=2	—	—	—	—

SCANNING RANGE

Scan Description	3PL LOCALIZER	SAGITTAL T1 CUBE	AXIAL T2 CUBE FOCUS	AXIAL FIESTA	Post AXIAL T1 3D BRAVO	Post CORONAL T1 CUBE	Optional: AXIAL T1 FSE	Optional: CORONAL T1 FSE	Optional: Post AXIAL T1 FSE	Optional: Post CORONAL T1 FSE
FOV	30	24	18	18	25	24	20	20	20	20
Slice Thickness	7	1.2	1	1.2	1.2	1	3	3	3	3
Spacing	5	—	—	—	0	—	INT-1	INT-1	INT-1	INT-1
Number of Slices	7-Ax/Sag/Cor	160	76	1 Slab-60	140	112	12-18	12-18	12-18	12-18
Scan Time	0:18 sec	3:30 min	~4-5 min	4-5 min	4 min	2:30 min	~2.5 min	~2.5 min	~2.5 min	~2.5 min

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