NW
IMAGING FORUMS, INC.

CRANIAL NERVES/INTERNAL AUDITORY CANAL (IAC) 3.0T

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	8 channel Head or GEM HNU
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 • Use minimal dose for patients with a GFR <60 mL/sec	

IMAGING PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL 3D T1 CUBE	Optional: AXIAL T1 FSE	Optional: CORONAL T1 FSE	AXIAL T2 CUBE FOCUS	AXIAL FIESTA	Optional: Post AXIAL T1 FSE	Optional: Post CORONAL T1 FSE	Post AXIAL T1 3D BRAVO	Post CORONAL 3D T1 CUBE
Primary Sequence	Yes	Yes	Yes	Yes	Optional	Yes	Yes	Yes	Yes	Yes T1
Mode	2D	3D	2D	2D	3D	3D	2D	2D	3D BRAVO	3D
Pulse Sequence	SSFSE	CUBE	FSE-XL	FSE-XL	CUBE-T2	FIESTA-C	FSE-XL	FSE-XL	BRAVO	CUBE
Imaging Options	SEQ, EDR, FAST, SS, ARC, TRF	EDR, ZIP2, ZIP512, FR, ARC	FC, TRF, FAST	FC, TRF, FAST	FC, EDR, FAST, ZIP512, ZIP2, FR, ARC, HS, Excitation=focus	NPW, EDR, FAST, ZIP2	FC, TRF, FAST	FC, TRF, FAST	FAST, IRP, ZIP2, ASSET	EDR, ZIP2, ZIP512, FR, ARC

SCAN PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL 3D T1 CUBE	Optional: AXIAL T1 FSE	Optional: CORONAL T1 FSE	AXIAL T2 CUBE FOCUS	AXIAL FIESTA	Optional: Post AXIAL T1 FSE	Optional: Post CORONAL T1 FSE	Post AXIAL T1 3D BRAVO	Post CORONAL 3D T1 CUBE
TE	80	Min	Min-Full	Min-Full	220	Min	Min-Full	Min-Full	—	24
TR	1000	550	500-700	500-700	2000	—	500-700	500-700	—	550
TI	—	—	—	—	—	—	—	—	450	—
Flip Angle	—	—	Auto	Auto	Auto	55	Auto	Auto	13	—
ETL	—	20	3	3	130	—	3	3	—	24
Bandwidth	83	62	31	31	62	36	31	31	25	62
Sat	—	—	I	—	—	—	Optional: Fat or Flex	Optional: Fat or Flex	—	Fat

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Supported by an educational grant from Bracco Diagnostics Inc.

MR Gadopiclenol (VUEWAY®) Protocol for GE HealthCare Systems
Central Nervous System

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ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL 3D T1 CUBE	Optional: AXIAL T1 FSE	Optional: CORONAL T1 FSE	AXIAL T2 CUBE FOCUS	AXIAL FIESTA	Optional: Post AXIAL T1 FSE	Optional: Post CORONAL T1 FSE	Post AXIAL T1 3D BRAVO	Post CORONAL 3D T1 CUBE
MATRIX freq	256	256	320	320	260	256	320	320	256	288
MATRIX phase	192	256	224	224	260	256	224	224	256	288
NEX	1	1	2	2	2	1	2	2	1	1
Phase FOV	1	—	1	1	0.8	—	1	1	—	0.7
Freq Direction	Unswap	S/I	A/P	S/I	A/P	A/P	A/P	S/I	A/P	S/I
Image Enhance	—	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE
FC Direction	—	—	Slice	Freq	Slice	—	Slice	Freq	—	—
User CV	—	ACC=2	—	—	CUBE-2 SAR-1 Apodization-lvl-1	—	—	—	ACC=2	CUBE Enh 3 ACC=2

SCANNING RANGE

Scan Description	3PL LOCALIZER	SAGITTAL 3D T1 CUBE	Optional: AXIAL T1 FSE	Optional: CORONAL T1 FSE	AXIAL T2 CUBE FOCUS	AXIAL FIESTA	Optional: Post AXIAL T1 FSE	Optional: Post CORONAL T1 FSE	Post AXIAL T1 3D BRAVO	Post CORONAL 3D T1 CUBE
FOV	30	24	18	18	16	16	18	18	25	24
Slice Thickness	7	1.2	3	3	1	1.2	3	3	1.2	1
Spacing	5	—	INT-1	INT-1	—	—	INT-1	INT-1	0	—
Number of Slices	7-Ax/Sag/Cor	160	12-18	12-18	76	1 Slab-60	12-18	12-18	128	200
Scan Time	0:18 sec	3-5 min	~2.5 min	~2.5 min	~4-5 min	4-5 min	~2.5 min	~2.5 min	3:30 min	3-5 min

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