ORBITS 3.0T

INSTRUCTIONS AND PATIENT PREPARATION

Instructions	• Reformat Sagittal 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 Fat Saturation or STIR used to assess optic nerve • Axial CUBE or FIESTA images can be used to image the orbit and vessels • This may be a standalone exam or an addition to a brain MRI • 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 injection 1 mL/sec
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	Optional: CORONAL T1	AXIAL T2 CUBE FOCUS	AXIAL FIESTA	CORONAL T2 FSE	Post AXIAL T1 FS	Post CORONAL T1 FS	Optional: AXIAL DWI-PROPELLER	Optional: CORONAL STIR	Optional: CORONAL T2 IDEAL (if Flex not available)	Optional: CORONAL T1 IDEAL (if Flex not available)
Primary Sequence	Yes	Yes	Yes	Yes	Optional	Yes	Yes	Yes	Yes	No	No	No	No
Mode	2D	3D	2D	2D	3D	3D	2D	2D	2D	2D	2D	2D	2D
Pulse Sequence	SSFSE	CUBE	FSE-XL	FSE-XL	CUBE-T2	FIESTA-C	FSE-XL	FSE-XL	FSE-XL	PROPELLER	IR	FSE-XL	FSE-XL
Imaging Options	SEQ, EDR, FAST, SS, ARC, TRF	EDR, ZIP2, ZIP512, FR, ARC	TRF, FC, NPW, TRF, FAST	TRF, FC, NPW, TRF, FAST	FC, EDR, FAST, ZIP512, ZIP2, FR, ARC, HS, Excitation=focus	NPW, FAST, ZIP2, ZIP512	FC, TRF, NPW	Fat Sat Post, NPW, TRF	TRF, FC, NPW, TRF, FAST	PROPELLER, ARC (DWDuo if available)	FC, TRF, NPW	NPW, FAST, FC, IDEAL, ARC	NPW, FAST, FC, IDEAL, ARC

SCAN PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL 3D T1 CUBE	Optional: AXIAL T1	Optional: CORONAL T1	AXIAL T2 CUBE FOCUS	AXIAL FIESTA	CORONAL T2 FSE	Post AXIAL T1 FS	Post CORONAL T1 FS	Optional: AXIAL DWI-PROPELLER	Optional: CORONAL STIR	Optional: CORONAL T2 IDEAL (if Flex not available)	Optional: CORONAL T1 IDEAL (if Flex not available)
TE	80	Min	Min-Full	Min-Full	220	Min	85	Min-Full	Min-Full	—	40	85	Min-Full
TR	1000	550	500-700	500-700	2000	—	4000	500-700	500-700	Auto	4000	4200	550
TI	—	—	—	—	—	—	—	—	—	—	190	—	—
Flip Angle	—	—	Auto	Auto	Auto	55	Auto	Auto	Auto	—	Auto	Auto	Auto
ETL	—	20	3	3	130	—	13	3	3	20	8	21	4
Bandwidth	83	62	31	31	62	36	31	31	31	41	20	31	22
Sat	—	—	—	—	—	—	Fat (Flex if available)	Fat (Flex if available)	Fat (Flex if available)	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

IMAGING FORUMS, INC.

ACQUISITION PARAMETERS

Scan Description	3PL LOCALIZER	SAGITTAL 3D T1 CUBE	Optional: AXIAL T1	Optional: CORONAL T1	AXIAL T2 CUBE FOCUS	AXIAL FIESTA	CORONAL T2 FSE	Post AXIAL T1 FS	Post CORONAL T1 FS	Optional: AXIAL DWI-PROPELLER	Optional: CORONAL STIR	Optional: CORONAL T2 IDEAL (if Flex not available)	Optional: CORONAL T1 IDEAL (if Flex not available)
MATRIX freq	256	256	320	320	260	256	384	320	256	112	256	320	320
MATRIX phase	192	256	224	224	260	256	256	224	224	112	256	192	192
NEX	1	1	2	2	2	1	2	2	2	2.5	2	2	2
Phase FOV	1	—	1	1	0.8	—	1	1	1	1	1	1	1
Freq Direction	Unswap	S/I	A/P	S/I	A/P	A/P	S/I	A/P	S/I	R/L	S/I	0.8	0.8
Image Enhance	—	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE	PURE
FC Direction	—	—	Slice	Freq	Slice	—	Slice or Freq	Slice	Freq	—	Freq	Freq	Freq
User CV	—	ACC=2	—	—	CUBE-2 SAR-1 Apodization-lvl-1	—	—	—	—	TR Auto B-Val 1000 ADC On Comb On DIFF Prep On ACC=2	—	ACC=2	ACC=2

SCANNING RANGE

Scan Description	3PL LOCALIZER	SAGITTAL 3D T1 CUBE	Optional: AXIAL T1	Optional: CORONAL T1	AXIAL T2 CUBE FOCUS	AXIAL FIESTA	CORONAL T2 FSE	Post AXIAL T1 FS	Post CORONAL T1 FS	Optional: AXIAL DWI-PROPELLER	Optional: CORONAL STIR	Optional: CORONAL T2 IDEAL (if Flex not available)	Optional: CORONAL T1 IDEAL (if Flex not available)
FOV	30	24	16	16	16	16	16	16	18	24	16	26	26
Slice Thickness	7	1.2	3	3	1	1.2	3	3	3	4	3	3	3
Spacing	5	—	0.2	0.2	—	—	0.2	0.2	0.2	1	0.2	0.5	0.5
Number of Slices	7-Ax/Sag/Cor	160	12-15	15-18	76	1 Slab-40	12-18	12-15	15-18	24-26	12-18	20	20
Scan Time	0:18 sec	3-5 min	~3.5 min	~3.5 min	~4-5 min	4-5 min	~3 min	~3.5 min	~3.5 min	~2-3 min	~3.5 min	4 min	4 min

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