NW
IMAGING FORUMS, INC.

PEDIATRIC FACE / NECK 3T

INSTRUCTIONS AND PATIENT PREPARATION

Anatomical Region	Face / Neck
Field Strength	3.0T
Coil	See the Coil Configuration row in the first parameters table below (varies by sequence).
Position & Landmark	Head first, supine. Landmark: center of the coil in use (typically central to the ROI).
Contrast	Weight-based gadolinium contrast per your institution's protocol, supervising radiologist, and the agent's FDA prescribing information. Postcontrast sequences are marked **+C**.

PATIENT POSITION

Scan Description	3pl loc	Sag T1 Cube DL	Ax T1 DL	Ax T2 Flex DL	Cor STIR CUBE DL	Ax DWI Propeller DL	+C Ax T1 Flex DL	+c Ax LAVA Star	+c COR T1 LAVA-Flex
Coil Configuration	GE19chGEMHNUFace, GE40chGEMPA	GE19chGEMHNUFace, GE40chGEMPA	GE19chGEMHNUFace, GE40chGEMPA	GE19chGEMHNUFace, GE40chGEMPA	GE19chGEMHNUFace, GE40chGEMPA	GE19chGEMHNUFace, GE40chGEMPA	GE19chGEMHNUFace, GE40chGEMPA	GE19chGEMHNUFace, GE40chGEMPA	GE19chGEMHNUFace, GE40chGEMPA
Plane	3-PLANE	SAGITTAL	OBLIQUE	OBLIQUE	CORONAL	OBLIQUE	OBLIQUE	OBLIQUE	OBLIQUE

IMAGING PARAMETERS

Scan Description	3pl loc	Sag T1 Cube DL	Ax T1 DL	Ax T2 Flex DL	Cor STIR CUBE DL	Ax DWI Propeller DL	+C Ax T1 Flex DL	+c Ax LAVA Star	+c COR T1 LAVA-Flex
Imaging Mode	2D	3D	2D	2D	3D	2D	2D	3D	3D
Imaging Options	Seq, EDR, TRF, Fast, SS, ARC	EDR, Fast, ZIP512, FR, ARC, HS	EDR, TRF, Fast, ARC	FC, EDR, TRF, Fast, FR, ARC, Flex	EDR, Fast, ZIP512, ARC, HS, IrP	EDR, TRF, Fast, DIFF, ARC, DWDuo	FC, EDR, TRF, Fast, ARC, Flex	EDR, Fast, ARC, Star	EDR, Fast, ZIP512, ARC, Flex
Pulse Sequence	Spin Echo	Cube	FSE-XL	FSE-XL	Cube	DW PROPELLER	FSE-XL	LAVA	LAVA
ARC Phase	2	2	2	2	2	2	2	1.25	2
ARC Slice	—	2	—	—	2	—	—	2	2
HyperSense	—	1.2	—	—	1	—	—	—	—
PSD Name	—	—	—	—	—	—	—	efgre3d_aspir	—

IMAGE RECON

Scan Description	3pl loc	Sag T1 Cube DL	Ax T1 DL	Ax T2 Flex DL	Cor STIR CUBE DL	Ax DWI Propeller DL	+C Ax T1 Flex DL	+c Ax LAVA Star	+c COR T1 LAVA-Flex
Recon DL Strength	Off	High	High	Medium	Medium	High	Medium	Off	—
Intensity Correction	NONE	PURE	PURE	PURE	PURE	PURE	PURE	NONE	PURE
Intensity Filter	None	None	None	None	None	None	None	A - Little sharpening, some smoothing	None
Save Original	Off	On	Off	Off	On	Off	Off	Off	On

SCAN RANGE

Scan Description	3pl loc	Sag T1 Cube DL	Ax T1 DL	Ax T2 Flex DL	Cor STIR CUBE DL	Ax DWI Propeller DL	+C Ax T1 Flex DL	+c Ax LAVA Star	+c COR T1 LAVA-Flex
FOV	44	24	22	22	24	20	22	22	30
Slice Thickness	10	0.6	4	4	1	4	4	1	0.5
Slice Spacing	10	—	1	1	—	1	1	—	—
Overlap Locations	0	0	0	0	0	0	0	0	0
No Phase Wrap	1	1	1	1	—	1	1	1.5	1
Slices per Slab	—	312	—	—	174	—	—	220	472
No Slab Wrap	—	1.03	—	—	1.09	—	—	1.07	—
Slice Resolution(%)	—	50	—	—	100	—	—	50	50
Number of Slices	—	—	1	10	—	—	13	1	1

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Supported by an educational grant from Bracco Diagnostics Inc.

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

IMAGING FORUMS, INC.

ACQUISITION TIMING

Scan Description	3pl loc	Sag T1 Cube DL	Ax T1 DL	Ax T2 Flex DL	Cor STIR CUBE DL	Ax DWI Propeller DL	+C Ax T1 Flex DL	+c Ax LAVA Star	+c COR T1 LAVA-Flex
Acq Voxel Size	1.7 X 3.4 X 10.0	0.8 X 0.8 X 1.2	0.8 X 1.0 X 4.0	0.8 X 0.9 X 4.0	1.0 X 1.0 X 1.0	1.3 X 1.3 X 4.0	0.8 X 1.0 X 4.0	0.8 X 0.8 X 2.0	1.3 X 1.4 X 1.0
Freq	256	288	288	288	240	152	288	288	228
Phase	128	288	224	256	240	—	224	—	220
Freq DIR	Unswap	S/I	Swap	S/I	S/I	Unswap	Unswap	R/L	S/I
# of Acq. Before Pause	0	—	—	—	—	—	—	—	—
Phase FOV	1	1	1	1	0.9	—	1	—	1
Auto Shim	Auto	Auto	Auto	Auto	Auto	On	Auto	Auto	Auto
Phase Correct	Off	Off	Off	Off	Off	Off	Off	Off	Off
RF Drive Mode	Preset	Preset	Preset	Optimized	Preset	Preset	Preset	Preset	Preset
Excitation Mode	Selective	Selective	Selective	Selective	Focus	Selective	Selective	Selective	Selective
NEX	—	1	1	1	1	—	1	2	2
Fat Shift DIR	—	Normal (S)	Normal	Normal (I)	Normal (I)	Normal	Normal	Normal (L)	—
Flow Comp Direction	—	—	—	Slice	—	—	Slice	—	—

SCAN TIMING

Scan Description	3pl loc	Sag T1 Cube DL	Ax T1 DL	Ax T2 Flex DL	Cor STIR CUBE DL	Ax DWI Propeller DL	+C Ax T1 Flex DL	+c Ax LAVA Star	+c COR T1 LAVA-Flex
TE	90	Minimum	18	85	80	—	Min Full	—	Min Full
Number of Echoes	1	1	1	1	1	1	1	1	2
TR	1000	500	500	2800	2629	5727	822	—	—
Receiver Bandwidth	83.33	62.5	31.25	83.33	83.33	83.33	62.5	62.5	166.67
Echo Train Length	—	20	3	20	100	20	4	—	—
Flip Angle	—	—	120	142	—	110	120	12	12
TI	—	—	—	—	280	—	—	23	—

CONTRAST

Scan Description	3pl loc	Sag T1 Cube DL	Ax T1 DL	Ax T2 Flex DL	Cor STIR CUBE DL	Ax DWI Propeller DL	+C Ax T1 Flex DL	+c Ax LAVA Star	+c COR T1 LAVA-Flex
Contrast Yes/No	No	No	No	No	No	No	+C	No	No

OTHERS

Scan Description	3pl loc	Sag T1 Cube DL	Ax T1 DL	Ax T2 Flex DL	Cor STIR CUBE DL	Ax DWI Propeller DL	+C Ax T1 Flex DL	+c Ax LAVA Star	+c COR T1 LAVA-Flex
Anatomical Region	Neck	Neck	Neck	Neck	Neck	Neck	Brain	Neck	Neck
3D Geometry Correction	—	On	—	—	On	—	—	—	On

SATURATION

Scan Description	3pl loc	Sag T1 Cube DL	Ax T1 DL	Ax T2 Flex DL	Cor STIR CUBE DL	Ax DWI Propeller DL	+C Ax T1 Flex DL	+c Ax LAVA Star	+c COR T1 LAVA-Flex
SAT Location S	—	—	—	Default	—	—	Default	—	—
SAT Location I	—	—	—	Default	—	—	Default	—	—
Fat/Water Saturation	—	—	—	—	—	Fat	—	Fat Special	—
SAT Location R	—	—	—	—	—	—	—	—	R120.2
SAT Location L	—	—	—	—	—	—	—	—	L122.4

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DIFFUSION

Scan Description	3pl loc	Sag T1 Cube DL	Ax T1 DL	Ax T2 Flex DL	Cor STIR CUBE DL	Ax DWI Propeller DL	+C Ax T1 Flex DL	+c Ax LAVA Star	+c COR T1 LAVA-Flex
Multi b-values	—	—	—	—	—	1000.0;	—	—	—
Optimized TE	—	—	—	—	—	On	—	—	—
Multi NEX Values	—	—	—	—	—	2.0;	—	—	—
Diffusion Directions	—	—	—	—	—	All	—	—	—
Number of Diffusion Directions	—	—	—	—	—	3	—	—	—
NEX For T2	—	—	—	—	—	1.5	—	—	—
Dual Spin Echo	—	—	—	—	—	Off	—	—	—
Recon All Images	—	—	—	—	—	On	—	—	—

AIRX

Scan Description	3pl loc	Sag T1 Cube DL	Ax T1 DL	Ax T2 Flex DL	Cor STIR CUBE DL	Ax DWI Propeller DL	+C Ax T1 Flex DL	+c Ax LAVA Star	+c COR T1 LAVA-Flex
Anatomical Reference	—	—	—	—	—	—	None	—	—
Anatomical Plane	—	—	—	—	—	—	None	—	—

GATING / TRIGGER

Scan Description	3pl loc	Sag T1 Cube DL	Ax T1 DL	Ax T2 Flex DL	Cor STIR CUBE DL	Ax DWI Propeller DL	+C Ax T1 Flex DL	+c Ax LAVA Star	+c COR T1 LAVA-Flex
Auto Trigger Type	—	—	—	—	—	—	—	—	Off

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