

3Plane Loc SSFSE

PATIENT POSITION	
Patient Entry	Head First
Patient Position	Supine
Coil Configuration	32 Ch Head Coil;HNS Head/Neck/Chest
Plane	3-PLANE
Series Description	3Plane Loc SSFSE
SCAN TIMING	
TE	80.0
Number of Echoes	1
TR	Minimum
Receiver Bandwidth	83.33
IMAGE ENHANCE	
Filter Choice	None
GATING/TRIGGER	
Auto Trigger Type	Off
FMRI	
PSD Trigger	Internal
View Order	Bottom/Up
# of Repetitions REST	0
# of Repetitions ACTIVE	0
SAT	
Tag Type	None
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off
OTHERS	
Protocol Notes	LOCALISER MUST BE SSFSE SEQUENCE AND AT LEAST 15 SECONDS LONG IN ORDER FOR SYSTEM TO COMPENSATE FOR PATIENT BODY HABITUS.

3Plane Loc SSFSE

IMAGING PARAMETERS	
Imaging Mode	2D
Pulse Sequence	Spin Echo
Imaging Options	Seq, EDR, Fast, SS, ARC
SCAN RANGE	
FOV	26.0
Slice Thickness	7.0
Slice Spacing	0.0
ACQ TIMING	
Freq	256
Phase	128
Freq DIR	Unswap
# of Acq. Before Pause	0
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	No
USER CVS	
User CV1	1.00
User CV2	240.00
User CV13	1.00
MULTI-PHASE	
Seperate Series	0
Mask Phase	0
Mask Pause	0
DIFFUSION	
Recon All Images	On
CONTRAST	
Contrast Yes/No	No

3Plane Loc SSFSE

Sag 3D T1

PATIENT POSITION	
Patient Entry	Head First
Patient Position	Supine
Coil Configuration	HNS Head/Neck/Chest
Plane	SAGITTAL
Series Description	Sag 3D T1
SCAN TIMING	
Flip Angle	11
TE	Min Full
Number of Echoes	1
TI	400
Receiver Bandwidth	31.25
IMAGE ENHANCE	
Filter Choice	None
GATING/TRIGGER	
Auto Trigger Type	Off
FMRI	
PSD Trigger	Internal
Slice Order	Interleaved
View Order	Bottom/Up
# of Repetitions REST	0
# of Repetitions ACTIVE	0
DIFFUSION	
Recon All Images	On
CONTRAST	
Contrast Yes/No	No

Sag 3D T1

IMAGING PARAMETERS	
Imaging Mode	3D
Pulse Sequence	SPGR
Imaging Options	EDR, Fast, Asset, IrP
SCAN RANGE	
FOV	25.6
Slice Thickness	1.0
Location per Slab	180
Overlap Locations	0
ACQ TIMING	
Freq	256
Phase	256
Freq DIR	S/I
NEX	1.00
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	No
USER CVS	
User CV6	1.00
User CV23	100.00
MULTI-PHASE	
Seperate Series	0
Trigger Delay without AV	0
Mask Phase	0
Mask Pause	0
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off
OTHERS	
Protocol Notes	Do not oblique volume.

OAx PD/T2 FSE

PATIENT POSITION	
Patient Entry	Head First
Patient Position	Supine
Coil Configuration	HNS Head/Neck/Chest
Plane	OBLIQUE
Series Description	OAx PD/T2 FSE
SCAN TIMING	
Flip Angle	125
TE	Min Full
TE2	90.0
Number of Echoes	2
TR	3000.0
Echo Train Length	12
Receiver Bandwidth	19.23
IMAGE ENHANCE	
Filter Choice	None
GATING/TRIGGER	
Auto Trigger Type	Off
FMRI	
PSD Trigger	Internal
View Order	Bottom/Up
# of Repetitions REST	0
# of Repetitions ACTIVE	0
SAT	
Tag Type	None
Fat/Water Saturation	Fat Classic
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off
OTHERS	
Protocol Notes	Turn on 3D Geometry Correction after volume is prescribed

OAx PD/T2 FSE

IMAGING PARAMETERS	
Imaging Mode	2D
Pulse Sequence	FSE-XL
Imaging Options	EDR, Fast, Asset
SCAN RANGE	
FOV	24.0
Slice Thickness	3.0
Slice Spacing	0.0
ACQ TIMING	
Freq	256
Phase	256
Freq DIR	A/P
Fat Shift DIR	Normal (A)
NEX	1.00
# of Acq. Before Pause	0
Phase FOV	0.75
Auto Shim	Auto
Phase Correction	No
USER CVS	
User CV19	1.00
User CV22	1.00
MULTI-PHASE	
Seperate Series	0
Mask Phase	0
Mask Pause	0
DIFFUSION	
Recon All Images	On
CONTRAST	
Contrast Yes/No	No

OAx PD/T2 FSE

OAx T2 FLAIR

PATIENT POSITION	
Patient Entry	Head First
Patient Position	Supine
Coil Configuration	HNS Head/Neck/Chest
Plane	OBLIQUE
Series Description	OAx T2 FLAIR
SCAN TIMING	
Flip Angle	125
TE	140.0
Number of Echoes	1
TR	9000.0
TI	2250
Receiver Bandwidth	27.78
IMAGE ENHANCE	
Filter Choice	None
GATING/TRIGGER	
Auto Trigger Type	Off
FMRI	
PSD Trigger	Internal
View Order	Bottom/Up
# of Repetitions REST	0
# of Repetitions ACTIVE	0
SAT	
SAT Location	I
Tag Type	None
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off
OTHERS	
Protocol Notes	Turn on 3D Geometry Correction after volume is prescribed

OAx T2 FLAIR

IMAGING PARAMETERS	
Imaging Mode	2D
Pulse Sequence	FSE-XL
Imaging Options	TRF, Fast, T2flair
SCAN RANGE	
FOV	24.0
Slice Thickness	3.0
Slice Spacing	0.0
ACQ TIMING	
Freq	256
Phase	256
Freq DIR	A/P
Fat Shift DIR	Normal (A)
NEX	1.00
Auto Shim	Off
Phase Correction	No
USER CVS	
User CV3	2.00
User CV17	1.00
User CV22	1.00
MULTI-PHASE	
Seperate Series	0
Mask Phase	0
Mask Pause	0
DIFFUSION	
Recon All Images	On
CONTRAST	
Contrast Yes/No	No

OAx T2 FLAIR

Ax SWAN 2/0

PATIENT POSITION	
Patient Entry	Head First
Patient Position	Supine
Coil Configuration	HNS Head/Neck/Chest
Plane	OBLIQUE
Series Description	Ax SWAN 2/0
SCAN TIMING	
Flip Angle	15
TE	25.0
Number of Echoes	6
TR	Minimum
Receiver Bandwidth	62.50
IMAGE ENHANCE	
Filter Choice	None
GATING/TRIGGER	
Auto Trigger Type	Off
FMRI	
PSD Trigger	Internal
View Order	Bottom/Up
# of Repetitions REST	0
# of Repetitions ACTIVE	0
SAT	
Tag Type	None
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off
OTHERS	
Protocol Notes	Turn on 3D Geometry Correction after volume is prescribed

Ax SWAN 2/0

IMAGING PARAMETERS	
Imaging Mode	3D
Pulse Sequence	SWAN
Imaging Options	FC, Fast, ZIP2, Asset
SCAN RANGE	
FOV	24.0
Slice Thickness	2.0
Location per Slab	74
Overlap Locations	0
ACQ TIMING	
Freq	320
Phase	256
Freq DIR	A/P
Phase FOV	0.70
Auto Shim	Auto
Phase Correction	No
USER CVS	
User CV22	1.00
MULTI-PHASE	
Seperate Series	0
Mask Phase	0
Mask Pause	0
DIFFUSION	
Recon All Images	On
CONTRAST	
Contrast Yes/No	No

Ax SWAN 2/0

IOAx DTI 2iso	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Spin Echo
	Coil Configuration	HNS Head/Neck/Chest	Imaging Options	EPI, DIFF, Asset
	Plane	OBLIQUE	<b>SCAN RANGE</b>	
	Series Description	!OAx DTI 2iso	FOV	25.6
	<b>SCAN TIMING</b>		Slice Thickness	2.0
	TE	80.0	Slice Spacing	0.0
	Number of Echoes	1	<b>ACQ TIMING</b>	
	TR	9000.0	Freq	128
	Number of Shots	1	Phase	128
	<b>IMAGE ENHANCE</b>		Freq DIR	R/L
	Filter Choice	None	Phase FOV	1.00
	<b>GATING/TRIGGER</b>		Auto Shim	Auto
	Auto Trigger Type	Off	Phase Correction	Yes
	<b>FMRI</b>		<b>USER CVS</b>	
	PSD Trigger	Internal	User CV5	1.00
	View Order	Bottom/Up	User CV17	1.00
	# of Repetitions REST	0	<b>MULTI-PHASE</b>	
	# of Repetitions ACTIVE	0	Seperate Series	0
<b>SAT</b>			Mask Phase	0
Tag Type		None	Mask Pause	0
Fat/Water Saturation		Fat	<b>DIFFUSION</b>	
<b>TRICKS</b>			Optimized TE	Yes
Pause On/Off		On	Diffusion Directions	Tensor
Auto Subtract		0	Number of Diffusion Directions	64
Auto SCIC		Off	Number of T2 Images	1
<b>OTHERS</b>			Dual Spin Echo	Off
Protocol Notes		Manually set reconstruction to 128 x 128. Use tensor CDIP gradient file run "mll-tensor CDIP" from terminal shell after scan run "mll-tensor NAPLS" Do not adjust TR Save Rx Research - Download Change Display CVs: rhmethod = 1 Turn on 3D Geometry Correction after volume is prescribed	Diffusion Tensor Processing Output	No Selection
			Recon All Images	Off
			<b>CONTRAST</b>	
			Contrast Yes/No	No

IRPE-DTI 64 dir 2mm	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Spin Echo
	Coil Configuration	HNS Head/Neck/Chest	Imaging Options	EPI, DIFF, Asset
	Plane	OBLIQUE	PSD Name	epi2_pepolar_rml
	Series Description	IRPE-DTI 64 dir 2mm	<b>SCAN RANGE</b>	
	<b>SCAN TIMING</b>		FOV	25.6
	TE	80.0	Slice Thickness	2.0
	Number of Echoes	1	Slice Spacing	0.0
	TR	9000.0	<b>ACQ TIMING</b>	
	Number of Shots	1	Freq	128
	<b>IMAGE ENHANCE</b>		Phase	128
	Filter Choice	None	Freq DIR	Unswap
	<b>GATING/TRIGGER</b>		Phase FOV	1.00
	Auto Trigger Type	Off	Auto Shim	Off
	<b>FMRI</b>		Phase Correction	Yes
	PSD Trigger	Internal	<b>USER CVS</b>	
	View Order	Bottom/Up	User CV2	1.00
	# of Repetitions REST	0	User CV5	1.00
	# of Repetitions ACTIVE	0	User CV17	1.00
	<b>SAT</b>		<b>MULTI-PHASE</b>	
	Tag Type	None	Seperate Series	0
	Fat/Water Saturation	Fat	Mask Phase	0
	<b>TRICKS</b>		Mask Pause	0
	Pause On/Off	On	<b>DIFFUSION</b>	
	Auto Subtract	0	Optimized TE	Yes
	Auto SCIC	Off	Diffusion Directions	Tensor
	<b>OTHERS</b>		Number of Diffusion Directions	6
	Protocol Notes	Change User CV: pepolar = 1 *HOS: check that "Retain HOS currents" is active *MANUAL PRESCAN: do manual prescan Use same number of slices as DTI. Make sure TE matches previous DTI. Turn on 3D Geometry Correction after volume is prescribed		
			Number of T2 Images	3
			Dual Spin Echo	Off
			Diffusion Tensor Processing Output	No Selection
			Recon All Images	Off
			<b>CONTRAST</b>	
			Contrast Yes/No	No

IRPE-DTI 64 dir 2mm

Connectivity\_fmRI

PATIENT POSITION	
Patient Entry	Head First
Patient Position	Supine
Coil Configuration	HNS Head/Neck/Chest
Plane	OBLIQUE
Series Description	Connectivity_fmRI
SCAN TIMING	
Flip Angle	70
TE	30.0
Number of Echoes	1
TR	2400.0
Number of Shots	1
IMAGE ENHANCE	
Filter Choice	None
GATING/TRIGGER	
Auto Trigger Type	Off
FMRI	
Brain Wave Real Time	1
Paradigm String	<RESTING-TR2000-SL30-PH110>*
Paradigm UID	1.2.840.113819.3.69129719 458.1302532670.915
Initial State	Control
PSD Trigger	Internal
Slice Order	Interleaved
View Order	Bottom/Up
# of Repetitions REST	8
# of Repetitions ACTIVE	8
# of Dummy Acquisition	5
SAT	
Tag Type	None
Fat/Water Saturation	Fat
TRICKS	
Pause On/Off	On
Auto Subtract	0
Auto SCIC	Off
OTHERS	
Protocol Notes	Do not increase number of slices above 40. Ensure frequency direction is R/L Instructions to participant: " Stay awake, focus on a point, try not to think of anything in particular and keep your eyes open . If available, a fixation cross can be used. Turn on 3D Geometry Correction after volume is prescribed

Connectivity\_fmRI

IMAGING PARAMETERS	
Imaging Mode	2D
Pulse Sequence	Gradient Echo
Imaging Options	EPI, FMRI
SCAN RANGE	
FOV	22.4
Slice Thickness	3.5
Slice Spacing	0.0
ACQ TIMING	
Freq	64
Phase	64
Freq DIR	R/L
NEX	1.00
Phase FOV	1.00
Auto Shim	Auto
Phase Correction	Yes
USER CVS	
User CV0	1.00
MULTI-PHASE	
Slice per Location	210
Delay after Acquisition	0
Seperate Series	0
Delay after Acquisition without AV	0
Mask Phase	0
Mask Pause	0
DIFFUSION	
Recon All Images	On
CONTRAST	
Contrast Yes/No	No

Connectivity\_fmRI



Protocol: adult\_other\_CRM-CDIPv1.5 2021-06-23

3D ASL 670x8 3.2mm del 2025	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	3DASL
	Coil Configuration	HNS Head/Neck/Chest	Imaging Options	EDR, Fast, Spiral
	Plane	AXIAL	<b>SCAN RANGE</b>	
	Series Description	3D ASL 670x8 3.2mm del 2025	FOV	22.8
	<b>SCAN TIMING</b>		Slice Thickness	3.2
	Number of Echoes	1	<b>ACQ TIMING</b>	
	Receiver Bandwidth	62.50	Freq	670
	<b>IMAGE ENHANCE</b>		Phase	8
	Filter Choice	None	Freq DIR	A/P
	<b>GATING/TRIGGER</b>		NEX	5.00
	Auto Trigger Type	Off	Auto Shim	Auto
	<b>MULTI-PHASE</b>		Phase Correction	No
	Seperate Series	0	<b>FMRI</b>	
	Delay after Acquisition without AV	0	PSD Trigger	Internal
	Mask Phase	0	View Order	Bottom/Up
	Mask Pause	0	# of Repetitions REST	0
	<b>DIFFUSION</b>		# of Repetitions ACTIVE	0
	Recon All Images	On	<b>SAT</b>	
	<b>CONTRAST</b>		Tag Type	None
	Contrast Yes/No	No	<b>TRICKS</b>	
			Pause On/Off	On
			Auto Subtract	0
			Auto SCIC	Off
			<b>OTHERS</b>	
			Protocol Notes	Tips: -When prescribing the 3D slab, the bottom of the slab should be positioned at the bottom of the cerebellum

3D ASL 670x8 3.2mm del 2025