			•		
	PATIENT POSITION		IMAGING PARAMETERS		
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	Spin Echo	
	Coil Configuration	32 Ch Head Coil;HNS Head/Neck/Chest	Imaging Options	Seq, EDR, Fast, SS, ARC	
	Plane	3-PLANE	SCAN RANGE		
	Series Description	3Plane Loc SSFSE	FOV	26.0	
	SCAN TIMING		Slice Thickness	7.0	
	TE	80.0	Slice Spacing	0.0	
	Number of Echoes	1	ACQ TIMING		
	TR	Minimum	Freq	256	
	Receiver Bandwidth	83.33	Phase	128	
	IMAGE ENHANCE		Freq DIR	Unswap	
	Filter Choice	None	# of Acq. Before Pause	0	Щ.
		None	Phase FOV	1.00	
끥	GATING/TRIGGER		Auto Shim	Auto	
SF6	Auto Trigger Type	Off	Phase Correction	No	SFS
3Plane Loc SSFSE	FMRI		USER CVS		SS
Γοα	PSD Trigger	Internal	User CV1	1.00	Гос
ne	View Order	Bottom/Up	User CV2	240.00	3Plane Loc SSFSE
Pla	# of Repetitions REST	0	User CV13	1.00	
3	# of Repetitions ACTIVE	0	MULTI-PHASE		3
	SAT		Seperate Series	0	
	Tag Type	None	Mask Phase	0	
	TRICKS		Mask Pause	0	
	Pause On/Off	On	DIFFUSION		
	Auto Subtract	0	Recon All Images	On	
	Auto SCIC	Off	CONTRAST		
	OTHERS		Contrast Yes/No	No	
	Protocol Notes	LOCALISER MUST BE SSFSE SEQUENCE AND AT LEAST 15 SECONDS LONG IN ORDER FOR SYSTEM TO COMPENSATE FOR PATIENT BODY HABITUS.			

Protocol: adult_other_CRM-CDIPv1.5 2021-06-23

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	PATIENT POSITION		IMAGING PARAMETERS		
	Patient Entry	Head First	Imaging Mode	3D	
	Patient Position	Supine	Pulse Sequence	SPGR	
	Coil Configuration	HNS Head/Neck/Chest	Imaging Options	EDR, Fast, Asset, IrP	
	Plane	SAGITTAL	SCAN RANGE		
	Series Description	Sag 3D T1	FOV	25.6	
	SCAN TIMING		Slice Thickness	1.0	
	Flip Angle	11	Location per Slab	180	
	TE	Min Full	Overlap Locations	0	
	Number of Echoes	1	ACQ TIMING		
	TI	400	Freq	256	
	Receiver Bandwidth	31.25	Phase	256	
	IMAGE ENHANCE		Freq DIR	S/I	
	Filter Choice	None	NEX	1.00	
ī	GATING/TRIGGER		Phase FOV	1.00	17
3D T	Auto Trigger Type	Off	Auto Shim	Auto	
g 3	FMRI		Phase Correction	No	Sag 3D
Sag	PSD Trigger	Internal	USER CVS		Sa
	Slice Order	Interleaved	User CV6	1.00	
	View Order	Bottom/Up	User CV23	100.00	
	# of Repetitions REST	0	MULTI-PHASE		
	# of Repetitions ACTIVE	0	Seperate Series	0	
	DIFFUSION		Trigger Delay without AV	0	
	Recon All Images	On	Mask Phase	0	
		OII	Mask Pause	0	
	CONTRAST Contrast Yes/No	No	TRICKS		
	Contrast res/No	NO	Pause On/Off	On	
			Auto Subtract	0	
			Auto SCIC	Off	
			OTHERS		
			Protocol Notes	Do not oblique volume.	

	PATIENT POSITION			IMAGING PARAMETERS		
	Patient Entry	Head First		Imaging Mode	2D	
	Patient Position	Supine		Pulse Sequence	FSE-XL	
	Coil Configuration	HNS Head/Neck/Chest		Imaging Options	EDR, Fast, Asset	
	Plane	OBLIQUE		SCAN RANGE		
	Series Description	OAx PD/T2 FSE		FOV	24.0	
	SCAN TIMING			Slice Thickness	3.0	
	Flip Angle	125		Slice Spacing	0.0	
	TE	Min Full		ACQ TIMING		
	TE2	90.0		Freq	256	
	Number of Echoes	2		Phase	256	
	TR	3000.0 12		Freq DIR	A/P	OAx PD/T2 FSE
	Echo Train Length Receiver Bandwidth	12 19.23		Fat Shift DIR	Normal (A)	
		19.23	ı	NEX	1.00	
	IMAGE ENHANCE			# of Acq. Before Pause	0	
FSE	Filter Choice	None		Phase FOV	0.75	
.2 F	GATING/TRIGGER			Auto Shim	Auto	
OAx PD/T2	Auto Trigger Type	Off		Phase Correction	No	
×	FMRI			USER CVS		Υ
OA	PSD Trigger	Internal		User CV19	1.00	OA
	View Order	Bottom/Up		User CV22	1.00	
	# of Repetitions REST	0		MULTI-PHASE		
	# of Repetitions ACTIVE	0		Seperate Series	0	
	SAT			Mask Phase	0	
	Tag Type	None		Mask Pause	0	
	Fat/Water Saturation	Fat Classic		DIFFUSION		
	TRICKS			Recon All Images	On	
	Pause On/Off	On		CONTRAST		
	Auto Subtract	0		Contrast Yes/No	No	
	Auto SCIC	Off				
	OTHERS					
	Protocol Notes	Turn on 3D Geometry Correction after volume is prescribed				

	DATIENT BOOKER	ii adait_daidi_driiii ddii vi	IMA ONO BARAMETERS		
	PATIENT POSITION		IMAGING PARAMETERS		
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	FSE-XL	
	Coil Configuration	HNS Head/Neck/Chest	Imaging Options	TRF, Fast, T2flair	
	Plane	OBLIQUE	SCAN RANGE		
	Series Description	OAx T2 FLAIR	FOV	24.0	
	SCAN TIMING		Slice Thickness	3.0	
	Flip Angle	125	Slice Spacing	0.0	
	TE	140.0	ACQ TIMING		
	Number of Echoes	1	Freq	256	
	TR	9000.0	Phase	256	
	TI	2250	Freq DIR	A/P	
	Receiver Bandwidth	27.78	Fat Shift DIR	Normal (A)	
	IMAGE ENHANCE		NEX	1.00	
	Filter Choice	None	Auto Shim	Off	
₩ K	GATING/TRIGGER		Phase Correction	No	A.
OAx T2 FLAIR	Auto Trigger Type	Off	USER CVS		OAx T2 FLAIR
2		Oli	User CV3	2.00	2
×	FMRI		User CV17	1.00	×
0	PSD Trigger	Internal	User CV22	1.00	Ó
	View Order	Bottom/Up		7.00	
	# of Repetitions REST	0	MULTI-PHASE	•	
	# of Repetitions ACTIVE	0	Seperate Series	0	
	SAT		Mask Phase	0	
	SAT Location	I	Mask Pause	0	
	Tag Type	None	DIFFUSION		
	TRICKS		Recon All Images	On	
	Pause On/Off	On	CONTRAST		
	Auto Subtract	0	Contrast Yes/No	No	
	Auto SCIC	Off			
	OTHERS				
	Protocol Notes	Turn on 3D Geometry Correction after volume is prescribed			

	DATIENT DOGITION		IMA ONIO DADAMETERO		
	PATIENT POSITION		IMAGING PARAMETERS	0.0	
	Patient Entry	Head First	Imaging Mode	3D	
	Patient Position	Supine	Pulse Sequence	SWAN	
	Coil Configuration	HNS Head/Neck/Chest	Imaging Options	FC, Fast, ZIP2, Asset	
	Plane	OBLIQUE	SCAN RANGE		
	Series Description	Ax SWAN 2/0	FOV	24.0	
	SCAN TIMING		Slice Thickness	2.0	
	Flip Angle	15	Location per Slab	74	
	TE	25.0	Overlap Locations	0	
	Number of Echoes	6	ACQ TIMING		
	TR	Minimum	Freq	320	
	Receiver Bandwidth	62.50	Phase	256	
	IMAGE ENHANCE		Freq DIR	A/P	
	Filter Choice	None	Phase FOV	0.70	
2/0	GATING/TRIGGER		Auto Shim	Auto	2/0
Z	Auto Trigger Type	Off	Phase Correction	No	Z
) ()	FMRI		USER CVS		/XS
Ax SWAN 2/0	PSD Trigger	Internal	User CV22	1.00	Ax SWAN 2/0
	View Order	Bottom/Up	MULTI-PHASE		
	# of Repetitions REST	0	Seperate Series	0	
	# of Repetitions ACTIVE	0	Mask Phase	0	
	SAT		Mask Pause	0	
	Tag Type	None	DIFFUSION		
	TRICKS		Recon All Images	On	
	Pause On/Off	On	CONTRAST		
	Auto Subtract	0	Contrast Yes/No	No	
	Auto SCIC	Off			
	OTHERS				
	Protocol Notes	Turn on 3D Geometry Correction after volume is prescribed			

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	PATIENT POSITION Patient Entry	Head First	IMAGING PARAMETERS Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	Spin Echo	
	Coil Configuration	HNS Head/Neck/Chest	Imaging Options	EPI, DIFF, Asset	
	Plane	OBLIQUE		EFI, DIFF, ASSEL	
	Series Description	!OAx DTI 2iso	SCAN RANGE		
	·	:OAX DTI ZISO	FOV	25.6	
	SCAN TIMING		Slice Thickness	2.0	
	TE	80.0	Slice Spacing	0.0	
	Number of Echoes	1	ACQ TIMING		
	TR	9000.0	Freq	128	
	Number of Shots	1	Phase	128	
	IMAGE ENHANCE		Freq DIR	R/L	
	Filter Choice	None	Phase FOV	1.00	
	GATING/TRIGGER		Auto Shim	Auto	
	Auto Trigger Type	Off	Phase Correction	Yes	
	FMRI		USER CVS		
	PSD Trigger	Internal	User CV5	1.00	OAx DTI 2iso
	View Order	Bottom/Up	User CV17	1.00	
Siso	# of Repetitions REST	0	MULTI-PHASE		
E	# of Repetitions ACTIVE	0	Seperate Series	0	Ę
Ö	SAT		Mask Phase	0	Ď
OAx DTI 2iso	Tag Type	None	Mask Pause	0	Â
<i>≛</i> .	Fat/Water Saturation	Fat	DIFFUSION		<u> </u>
	TRICKS		Optimized TE	Yes	
	Pause On/Off	On	Diffusion Directions	Tensor	
	Auto Subtract	0	Number of Diffusion	64	
	Auto SCIC	Off	Directions	4	
	OTHERS		Number of T2 Images Dual Spin Echo	1 Off	
	Protocol Notes		Diffusion Tenser	No Selection	
	FIGURES	Manually set reconstruction to 128 x 128.	Processing Output	No Selection	
		Use tensor CDIP gradient file	Recon All Images	Off	
		run "mll-tensor CDIP" from	CONTRAST		
		terminal shell after scan run "mll-tensor	Contrast Yes/No	No	
		NAPLS"			
		Do not adjust TR Save Rx			
		Research - Download			
		Change Display CVs: rhmethod = 1			
		Turn on 3D Geometry			
		Correction after volume is prescribed			
		J			

PATIENT POSITION Patient Entry Head First Imaging Mode Pulse Sequence Spin Echo Coil Configuration HNS Head/Neck/Chest Plane OBLIQUE Series Description SCAN TIMING TE Number of Echoes Imaging Options Pulse Sequence Imaging Options FPI, DIFF, A Plane PSD Name PSD Name PSD Name PSD Name SCAN RANGE FOV 25.6 Slice Thickness 2.0 Slice Spacing 0.0	
Patient Position Supine Coil Configuration HNS Head/Neck/Chest Plane Series Description SUPINE PROV PSD Name PROV PSD Name POV PSD Name P	
Coil Configuration HNS Head/Neck/Chest Imaging Options EPI, DIFF, A Plane OBLIQUE PSD Name epi2_pepolar Series Description !RPE-DTI 64 dir 2mm SCAN RANGE SCAN TIMING TE 80.0 Slice Thickness 2.0 Number of Echoes 1 Slice Spacing 0.0	
Plane OBLIQUE PSD Name epi2_pepolar Series Description !RPE-DTI 64 dir 2mm SCAN RANGE SCAN TIMING FOV 25.6 TE 80.0 Slice Thickness 2.0 Number of Echoes 1 Slice Spacing 0.0	
Series Description	Isset
SCAN RANGE SCAN RANGE	r_rml
TE 80.0 Slice Thickness 2.0 Number of Echoes 1 Slice Spacing 0.0	
Number of Echoes 1 Slice Spacing 0.0	
TP 0000 0	
TR 9000.0	
ACQ TIMING	
Number of Shots 1 Freq 128	
IMAGE ENHANCE Phase 128	
Filter Choice None Freq DIR Unswap	
GATING/TRIGGER Phase FOV 1.00	
Auto Trigger Type Off Auto Shim Off	
Phase Correction Yes	
FMRI PSD Trigger Internal USER CVS	64 dir 2mm
View Order Bottom/Up User CV2 1.00	r 2r
# of Repetitions REST 0 User CV5 1.00	d.
# of Repetitions ACTIVE 0 User CV17 1.00	79
PSD Trigger Internal View Order Bottom/Up # of Repetitions REST 0 # of Repetitions ACTIVE 0 SAT Tag Type None USER CVS User CV2 1.00 User CV5 1.00 User CV17 1.00 MULTI-PHASE Seperate Series 0 Mask Phase	IRPE-DTI
Tag Type None Seperate Series 0	H
Fat/Water Saturation Fat Mask Phase 0	≝.
Mask Pause 0	
TRICKS Pause On/Off On DIFFUSION	
Auto Subtract 0 Optimized TE Yes	
Auto SCIC Off Diffusion Directions Tensor	
OTHERS Number of Diffusion 6 Directions	
Protocol Notes Change User CV: pepolar = Number of T2 Images 3	
1 Dual Spin Echo Off	
*HOS: check that "Retain HOS currents" is active *MANUAL PRESCAN: do *MANUAL PRESCAN: do *MANUAL PRESCAN: do	1
manual prescan Recon All Images Off Use same number of slices	
as DTI. Make sure TE CONTRAST	
matches previous DTI. Turn on 3D Geometry Contrast Yes/No No Correction after volume is prescribed	

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	PATIENT POSITION			IMAGING PARAMETERS		
	Patient Entry	Head First		Imaging Mode	2D	
	Patient Position	Supine		Pulse Sequence	Gradient Echo	
	Coil Configuration	HNS Head/Neck/Chest		Imaging Options	EPI, FMRI	
	Plane	OBLIQUE		SCAN RANGE		
	Series Description	Connectivity_fMRI		FOV	22.4	
	SCAN TIMING			Slice Thickness	3.5	
	Flip Angle	70		Slice Spacing	0.0	
	TE	30.0		ACQ TIMING		
	Number of Echoes	1		Freq	64	
	TR	2400.0		Phase	64	
	Number of Shots	1		Freq DIR	R/L	
	IMAGE ENHANCE			NEX	1.00	
	Filter Choice	None		Phase FOV	1.00	
		, 10.10	ı	Auto Shim	Auto	
	GATING/TRIGGER	Off		Phase Correction	Yes	
	Auto Trigger Type	OII	ı	USER CVS		
	FMRI			User CV0	1.00	
	Brain Wave Real Time	1			7.00	
	Paradigm String	<resting-tr2000-sl30- PH110>*</resting-tr2000-sl30- 		MULTI-PHASE	240	
	Paradigm UID	1.2.840.113819.3.69129719	Slice per Location Delay after Acquisition	210 0		
_	-	458.1302532670.915		Seperate Series	0	_
MR	Initial State	Control		Delay after Acquisition	0	Connectivity_fMRI
y_f	PSD Trigger	Internal		without AV	Ü	
ivit	Slice Order	Interleaved		Mask Phase	0	
ect	View Order	Bottom/Up		Mask Pause	0	
Connectivity_fMRI	# of Repetitions REST	8		DIFFUSION		
O	# of Repetitions ACTIVE # of Dummy Acquisition	8 5		Recon All Images	On	O
		J	I	CONTRAST		
	SAT	A la cara		Contrast Yes/No	No	
	Tag Type Fat/Water Saturation	None Fat				
		r at	ı			
	TRICKS	_				
	Pause On/Off	On				
	Auto Subtract	0				
	Auto SCIC	Off	ı			
	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				

	PATIENT POSITION		IMAGING PARAMETERS		
	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	SCAN RANGE		
	Series Description	3D ASL 670x8 3.2mm del	FOV	22.8	
		2025	Slice Thickness	3.2	
	SCAN TIMING		ACQ TIMING		
	Number of Echoes	1	Freq	670	
	Receiver Bandwidth	62.50	Phase	8	
	IMAGE ENHANCE		Freq DIR	A/P	
	Filter Choice	None	NEX	5.00	
)25	GATING/TRIGGER		Auto Shim	Auto	670x8 3.2mm del 2025
1 2(Auto Trigger Type	Off	Phase Correction	No	
670x8 3.2mm del 2025		Oli		140	de
Шu	MULTI-PHASE		FMRI		шш
.2r	Seperate Series	0	PSD Trigger	Internal	.2r
83	Delay after Acquisition without AV	0	View Order	Bottom/Up	8
ě.	Mask Phase	0	# of Repetitions REST	0	ĺ Š
.9	Mask Pause	0	# of Repetitions ACTIVE	0	.9
ASL (Ü	SAT		ASL
3D /	DIFFUSION	2.5	Tag Type	None	3D /
(J	Recon All Images	On	TRICKS		Co
	CONTRAST		Pause On/Off	On	
	Contrast Yes/No	No	Auto Subtract	0	
			Auto SCIC	Off	
			OTHERS		
			Protocol Notes	Tips: -When prescribing the 3D slab, the bottom of the slab should be positioned at the bottom of the cerebellum	
			_		