

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	GE48chHeadAnt2;GE48chHeadPos2	Imaging Options	Seq, EDR, TRF, Fast, SS, ARC
Plane	3-PLANE	Phase	2.00
Series Description	3-Plane Localizer	SCAN RANGE	
SCAN TIMING		FOV	30.0
TE	80.0	Slice Thickness	15.00
Number of Echoes	1	Slice Spacing	0.0
TR	1000.0	Overlap Locations	0
Receiver Bandwidth	83.33	Number of Slices	21
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	None	Freq	256
USER CVS		Phase	192
User CV Mask2	0	Freq DIR	Unswap
MULTI-PHASE		# of Acq. Before Pause	0
Seperate Series	0	Phase FOV	1.00
Mask Phase	0	Auto Shim	On
Mask Pause	0	Phase Correction	No
Preserve	0	RF Drive Mode	Preset
DIFFUSION		Excitation Mode	Selective
Recon All Images	On	FMRI	
Multi b-values	1000.0;	PSD Trigger	Internal
Multi NEX Values	1.0;	View Order	Bottom/Up
# Synthetic b-values	1	# of Repetitions REST	0
Synthetic b-value	1000.0;	# of Repetitions ACTIVE	0
CONTRAST		SAT	
Contrast Yes/No	No	Tag Type	None
		TRICKS	
		Pause On/Off	On
		Auto Subtract	0
		Auto SCIC	Off
		OTHERS	
		Protocol Notes	AIRx is optional software that provides automatic slice positioning for graphical prescriptions. Using pre-trained neural networks, AIRx calculates common Anatomical References from the 3-plane Localizer. To enable AIRx, acquire 3-plane Localizer with the following requirements: 10cm anatomical coverage, 80TE, 192 Phase Matrix. Subsequent scans must be set to Oblique plane.

3-Plane Localizer

3-Plane Localizer

Accelerated Sagittal MPRAGE (MSV22)	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	MP-RAGE
	Coil Configuration	GE48chHeadAnt2;GE48chHeadPos2	Imaging Options	EDR, Fast, ARC, IrP
	Plane	SAGITTAL	Phase	2.00
	Series Description	Accelerated Sagittal MPRAGE (MSV22)	Slice	1.00
	SCAN TIMING		SCAN RANGE	
	Flip Angle	9	FOV	25.6
	Number of Echoes	1	Slice Thickness	1.00
	TI	900	Location per Slab	208
	Receiver Bandwidth	31.25	Overlap Locations	0
	Recovery Time	800	Number of Slices	1
	IMAGE ENHANCE		ACQ TIMING	
	Filter Choice	None	Freq	256
	USER CVS		Phase	256
	User CV6	1.00	Freq DIR	S/I
	User CV30	1.00	Fat Shift DIR	Normal (S)
	User CV Mask2	512	NEX	1.00
	MULTI-PHASE		Phase FOV	0.94
	Seperate Series	0	Auto Shim	On
	Trigger Delay without AV	0	Phase Correction	No
	Mask Phase	0	RF Drive Mode	Preset
	Mask Pause	0	Excitation Mode	Selective
	Preserve	0	FMRI	
	DIFUSION		PSD Trigger	Internal
Recon All Images	On	View Order	Bottom/Up	
Multi b-values	1000.0;	# of Repetitions REST	0	
Multi NEX Values	1.0;	# of Repetitions ACTIVE	0	
# Synthetic b-values	1	SAT		
Synthetic b-value	1000.0;	Tag Type	None	
CONTRAST		TRICKS		
Contrast Yes/No	No	Pause On/Off	On	
		Auto Subtract	0	
		Auto SCIC	2	
		OTHERS		
		Protocol Notes	Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.	

Accelerated Sagittal MPRAGE (MSV22)

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	MP-RAGE
Coil Configuration	GE48chHeadAnt2;GE48chHeadPos2	Imaging Options	EDR, Fast, ARC, HS, IrP
Plane	SAGITTAL	Phase	3.00
Series Description	HS Sagittal MPRAGE (MSV22)	Slice	1.00
		HyperSense	1.60
SCAN TIMING		SCAN RANGE	
Flip Angle	9	FOV	25.6
Number of Echoes	1	Slice Thickness	1.00
TI	900	Location per Slab	208
Receiver Bandwidth	31.25	Overlap Locations	0
Recovery Time	800	Number of Slices	1
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	None	Freq	256
USER CVS		Phase	256
User CV6	1.00	Freq DIR	S/I
User CV30	1.00	Fat Shift DIR	Normal (S)
User CV Mask2	512	NEX	1.00
MULTI-PHASE		Phase FOV	0.94
Seperate Series	0	Auto Shim	On
Trigger Delay without AV	0	Phase Correction	No
Mask Phase	0	RF Drive Mode	Preset
Mask Pause	0	Excitation Mode	Selective
Preserve	0	FMRI	
DIFFUSION		PSD Trigger	Internal
Recon All Images	On	View Order	Bottom/Up
Multi b-values	1000.0;	# of Repetitions REST	0
Multi NEX Values	1.0;	# of Repetitions ACTIVE	0
# Synthetic b-values	1	SAT	
Synthetic b-value	1000.0;	Tag Type	None
CONTRAST		TRICKS	
Contrast Yes/No	No	Pause On/Off	On
		Auto Subtract	0
		Auto SCIC	2
		OTHERS	
		Protocol Notes	Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.

HS Sagittal MPRAGE (MSV22)

HS Sagittal MPRAGE (MSV22)

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	Cube T2 FLAIR
Coil Configuration	GE48chHeadAnt2;GE48chHeadPos2	Imaging Options	EDR, Fast, ARC, IrP
Plane	SAGITTAL	Phase	2.00
Series Description	Sagittal 3D FLAIR (MSV22)	Slice	2.00
SCAN TIMING		SCAN RANGE	
TE	104.0	FOV	25.6
Number of Echoes	1	Slice Thickness	1.00
TR	5000.0	Location per Slab	208
TI	1526	Overlap Locations	0
Echo Train Length	182	Number of Slices	1
Receiver Bandwidth	31.25	ACQ TIMING	
IMAGE ENHANCE		Freq	256
Filter Choice	None	Phase	256
USER CVS		Freq DIR	S/I
User CV5	1.00	Fat Shift DIR	Normal (S)
User CV30	1.00	NEX	1.00
User CV32	1.00	Phase FOV	1.00
User CV34	100.00	Auto Shim	Auto
User CV Mask2	522	Phase Correction	No
MULTI-PHASE		RF Drive Mode	Preset
Seperate Series	0	Excitation Mode	Non-Selective
Mask Phase	0	FMRI	
Mask Pause	0	PSD Trigger	Internal
Preserve	0	View Order	Bottom/Up
DIFFUSION		# of Repetitions REST	0
Recon All Images	On	# of Repetitions ACTIVE	0
Multi b-values	1000.0;	SAT	
Multi NEX Values	1.0;	Tag Type	None
# Synthetic b-values	1	Fat/Water Saturation	Fat
Synthetic b-value	1000.0;	TRICKS	
CONTRAST		Pause On/Off	On
Contrast Yes/No	No	Auto Subtract	0
		Auto SCIC	2
		OTHERS	
		Protocol Notes	Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.

Sagittal 3D FLAIR (MSV22)

Sagittal 3D FLAIR (MSV22)

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	Cube
Coil Configuration	GE48chHeadAnt2;GE48chHeadPos2	Imaging Options	EDR, Fast, FR, ARC
Plane	SAGITTAL	Phase	2.00
Series Description	Sagittal 3D T2 Cube (MSV21)	Slice	2.00
SCAN TIMING		SCAN RANGE	
TE	Maximum	FOV	25.6
Number of Echoes	1	Slice Thickness	1.00
TR	2500.0	Location per Slab	208
Echo Train Length	100	Overlap Locations	0
Receiver Bandwidth	62.50	Number of Slices	1
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	None	Freq	256
USER CVS		Phase	256
User CV29	1.00	Freq DIR	S/I
User CV30	1.00	Fat Shift DIR	Normal (S)
User CV34	100.00	NEX	1.00
User CV Mask2	522	Phase FOV	1.00
MULTI-PHASE		Auto Shim	Auto
Seperate Series	0	Phase Correction	No
Mask Phase	0	RF Drive Mode	Preset
Mask Pause	0	Excitation Mode	Non-Selective
Preserve	0	FMRI	
DIFUSION		PSD Trigger	Internal
Recon All Images	On	View Order	Bottom/Up
Multi b-values	1000.0;	# of Repetitions REST	0
Multi NEX Values	1.0;	# of Repetitions ACTIVE	0
# Synthetic b-values	1	SAT	
Synthetic b-value	1000.0;	Tag Type	None
CONTRAST		TRICKS	
Contrast Yes/No	No	Pause On/Off	On
		Auto Subtract	0
		Auto SCIC	2
		OTHERS	
		Protocol Notes	Imaging Tip: Copy coverage prescription from the T1.

Sagittal 3D T2 Cube (MSV21)

Sagittal 3D T2 Cube (MSV21)

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Gradient Echo
Coil Configuration	GE48chHeadAnt2;GE48chHeadPos2	Imaging Options	FC, EDR
Plane	AXIAL	SCAN RANGE	
Series Description	Axial T2 Star (MSV21)	FOV	22.0
SCAN TIMING		Slice Thickness	4.00
Flip Angle	20	Slice Spacing	0.0
TE	20.0	Overlap Locations	0
Number of Echoes	1	Number of Slices	50
TR	650.0	ACQ TIMING	
Receiver Bandwidth	25.00	Freq	256
IMAGE ENHANCE		Phase	192
Filter Choice	None	Freq DIR	A/P
GATING/TRIGGER		NEX	1.00
Pause After Navigator Prescan	0	# of Acq. Before Pause	0
FMRI		Phase FOV	1.00
PSD Trigger	Internal	Auto Shim	Auto
View Order	Bottom/Up	Phase Correction	No
# of Repetitions REST	0	RF Drive Mode	Preset
# of Repetitions ACTIVE	0	Excitation Mode	Selective
SAT		USER CVS	
Tag Type	None	User CV Mask2	0
TRICKS		MULTI-PHASE	
Pause On/Off	On	Seperate Series	0
Auto Subtract	0	Mask Phase	0
Auto SCIC	2	Mask Pause	0
OTHERS		Preserve	0
Protocol Notes	Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.	DIFFUSION	
		Recon All Images	On
		# Synthetic b-values	1
		Synthetic b-value	1000.0;
		CONTRAST	
		Contrast Yes/No	No

Axial T2 Star (MSV21)

Axial T2 Star (MSV21)

Protocol: adult_other_ADNI4 Advanced GE29.1_48Ch_20220829

Axial 3D pCASL 1025 (Eyes Open) (MSV22)	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	3DASL
	Coil Configuration	GE48chHeadAnt2;GE48chHeadPos2	Imaging Options	EDR, Fast, Spiral
	Plane	AXIAL	SCAN RANGE	
	Series Description	Axial 3D pCASL 1025 (Eyes Open) (MSV22)	FOV	24.0
	SCAN TIMING		Slice Thickness	4.00
	Number of Echoes	1	Overlap Locations	0
	Receiver Bandwidth	62.50	Number of Slices	1
	Post Label Delay	1025.0	ACQ TIMING	
	IMAGE ENHANCE		Freq	768
	Filter Choice	None	Phase	6
	GATING/TRIGGER		Freq DIR	A/P
	Pause After Navigator	0	NEX	1.00
	Prescan		Auto Shim	Auto
	FMRI		Phase Correction	No
	PSD Trigger	Internal	RF Drive Mode	Preset
	View Order	Bottom/Up	Excitation Mode	Selective
	# of Repetitions REST	0	USER CVS	
	# of Repetitions ACTIVE	0	User CV Mask2	0
	SAT		MULTI-PHASE	
	Tag Type	None	Separate Series	0
	TRICKS		Delay after Acquisition without AV	0
	Pause On/Off	On	Mask Phase	0
	Auto Subtract	0	Mask Pause	0
Auto SCIC	Off	Preserve	0	
OTHERS		DIFFUSION		
Protocol Notes	Tips: -When prescribing the 3D slab, the bottom of the slab should be positioned at the bottom of the cerebellum	Recon All Images	On	
		Multi b-values	1000.0;	
		Multi NEX Values	1.0;	
		# Synthetic b-values	1	
		Synthetic b-value	1000.0;	
		CONTRAST		
		Contrast Yes/No	No	

Axial 3D pCASL 1025 (Eyes Open) (MSV22)

Protocol: adult_other_ADNI4 Advanced GE29.1_48Ch_20220829

Axial 3D pCASL 1525 (Eyes Open) (MSV22)	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	3DASL
	Coil Configuration	GE48chHeadAnt2;GE48chHeadPos2	Imaging Options	EDR, Fast, Spiral
	Plane	AXIAL	SCAN RANGE	
	Series Description	Axial 3D pCASL 1525 (Eyes Open) (MSV22)	FOV	24.0
	SCAN TIMING		Slice Thickness	4.00
	Number of Echoes	1	Overlap Locations	0
	Receiver Bandwidth	62.50	Number of Slices	1
	Post Label Delay	1525.0	ACQ TIMING	
	IMAGE ENHANCE		Freq	768
	Filter Choice	None	Phase	6
	GATING/TRIGGER		Freq DIR	A/P
	Pause After Navigator Prescan	0	NEX	1.00
	FMRI		Auto Shim	Auto
	PSD Trigger	Internal	Phase Correction	No
	View Order	Bottom/Up	RF Drive Mode	Preset
	# of Repetitions REST	0	Excitation Mode	Selective
	# of Repetitions ACTIVE	0	USER CVS	
	SAT		User CV Mask2	0
Tag Type	None	MULTI-PHASE		
TRICKS		Seperate Series	0	
Pause On/Off	On	Delay after Acquisition without AV	0	
Auto Subtract	0	Mask Phase	0	
Auto SCIC	Off	Mask Pause	0	
OTHERS		Preserve	0	
Protocol Notes	Tips: -When prescribing the 3D slab, the bottom of the slab should be positioned at the bottom of the cerebellum			
		DIFFUSION		
		Recon All Images	On	
		Multi b-values	1000.0;	
		Multi NEX Values	1.0;	
		# Synthetic b-values	1	
		Synthetic b-value	1000.0;	
		CONTRAST		
		Contrast Yes/No	No	

Axial 3D pCASL 1525 (Eyes Open) (MSV22)

Protocol: adult_other_ADNI4 Advanced GE29.1_48Ch_20220829

Axial 3D pCASL 2025 (Eyes Open) (MSV22)	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	3DASL
	Coil Configuration	GE48chHeadAnt2;GE48chHeadPos2	Imaging Options	EDR, Fast, Spiral
	Plane	AXIAL	SCAN RANGE	
	Series Description	Axial 3D pCASL 2025 (Eyes Open) (MSV22)	FOV	24.0
	SCAN TIMING		Slice Thickness	4.00
	Number of Echoes	1	Overlap Locations	0
	Receiver Bandwidth	62.50	Number of Slices	1
	Post Label Delay	2025.0	ACQ TIMING	
	IMAGE ENHANCE		Freq	768
	Filter Choice	None	Phase	6
	GATING/TRIGGER		Freq DIR	A/P
	Pause After Navigator	0	NEX	1.00
	Prescan		Auto Shim	Auto
	FMRI		Phase Correction	No
	PSD Trigger	Internal	RF Drive Mode	Preset
	View Order	Bottom/Up	Excitation Mode	Selective
	# of Repetitions REST	0	USER CVS	
	# of Repetitions ACTIVE	0	User CV Mask2	0
	SAT		MULTI-PHASE	
	Tag Type	None	Seperate Series	0
	TRICKS		Delay after Acquisition without AV	0
	Pause On/Off	On	Mask Phase	0
	Auto Subtract	0	Mask Pause	0
Auto SCIC	Off	Preserve	0	
OTHERS		DIFFUSION		
Protocol Notes	Tips: -When prescribing the 3D slab, the bottom of the slab should be positioned at the bottom of the cerebellum	Recon All Images	On	
		Multi b-values	1000.0;	
		Multi NEX Values	1.0;	
		# Synthetic b-values	1	
		Synthetic b-value	1000.0;	
		CONTRAST		
		Contrast Yes/No	No	

Axial 3D pCASL 2025 (Eyes Open) (MSV22)

Protocol: adult_other_ADNI4 Advanced GE29.1_48Ch_20220829

Axial 3D pCASL 2525 (Eyes Open) (MSV22)	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	3DASL
	Coil Configuration	GE48chHeadAnt2;GE48chHeadPos2	Imaging Options	EDR, Fast, Spiral
	Plane	AXIAL	SCAN RANGE	
	Series Description	Axial 3D pCASL 2525 (Eyes Open) (MSV22)	FOV	24.0
	SCAN TIMING		Slice Thickness	4.00
	Number of Echoes	1	Overlap Locations	0
	Receiver Bandwidth	62.50	Number of Slices	1
	Post Label Delay	2525.0	ACQ TIMING	
	IMAGE ENHANCE		Freq	768
	Filter Choice	None	Phase	6
	GATING/TRIGGER		Freq DIR	A/P
	Pause After Navigator	0	NEX	1.00
	Prescan		Auto Shim	Auto
	FMRI		Phase Correction	No
	PSD Trigger	Internal	RF Drive Mode	Preset
	View Order	Bottom/Up	Excitation Mode	Selective
	# of Repetitions REST	0	USER CVS	
	# of Repetitions ACTIVE	0	User CV Mask2	0
	SAT		MULTI-PHASE	
	Tag Type	None	Seperate Series	0
	TRICKS		Delay after Acquisition without AV	0
	Pause On/Off	On	Mask Phase	0
	Auto Subtract	0	Mask Pause	0
Auto SCIC	Off	Preserve	0	
OTHERS		DIFFUSION		
Protocol Notes	Tips: -When prescribing the 3D slab, the bottom of the slab should be positioned at the bottom of the cerebellum	Recon All Images	On	
		Multi b-values	1000.0;	
		Multi NEX Values	1.0;	
		# Synthetic b-values	1	
		Synthetic b-value	1000.0;	
		CONTRAST		
		Contrast Yes/No	No	

Axial 3D pCASL 2525 (Eyes Open) (MSV22)

Protocol: adult_other_ADNI4 Advanced GE29.1_48Ch_20220829

Axial 3D pCASL 3025 (Eyes Open) (MSV22)	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	3DASL
	Coil Configuration	GE48chHeadAnt2;GE48chHeadPos2	Imaging Options	EDR, Fast, Spiral
	Plane	AXIAL	SCAN RANGE	
	Series Description	Axial 3D pCASL 3025 (Eyes Open) (MSV22)	FOV	24.0
	SCAN TIMING		Slice Thickness	4.00
	Number of Echoes	1	Overlap Locations	0
	Receiver Bandwidth	62.50	Number of Slices	1
	Post Label Delay	3025.0	ACQ TIMING	
	IMAGE ENHANCE		Freq	768
	Filter Choice	None	Phase	6
	GATING/TRIGGER		Freq DIR	A/P
	Pause After Navigator	0	NEX	1.00
	Prescan		Auto Shim	Auto
	FMRI		Phase Correction	No
	PSD Trigger	Internal	RF Drive Mode	Preset
	View Order	Bottom/Up	Excitation Mode	Selective
	# of Repetitions REST	0	USER CVS	
	# of Repetitions ACTIVE	0	User CV Mask2	0
	SAT		MULTI-PHASE	
	Tag Type	None	Seperate Series	0
	TRICKS		Delay after Acquisition without AV	0
	Pause On/Off	On	Mask Phase	0
	Auto Subtract	0	Mask Pause	0
Auto SCIC	Off	Preserve	0	
OTHERS		DIFFUSION		
Protocol Notes	Tips: -When prescribing the 3D slab, the bottom of the slab should be positioned at the bottom of the cerebellum	Recon All Images	On	
		Multi b-values	1000.0;	
		Multi NEX Values	1.0;	
		# Synthetic b-values	1	
		Synthetic b-value	1000.0;	
		CONTRAST		
		Contrast Yes/No	No	

Axial 3D pCASL 3025 (Eyes Open) (MSV22)

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	GE48chHeadAnt2;GE48chHeadPos2	Imaging Options	EDR, Cla, EPI, DIFF, ARC, HB
Plane	AXIAL	Phase	2.00
Series Description	Axial HB dMRI (MS21)	HyperBand Slice	3
SCAN TIMING		SCAN RANGE	
TE	Minimum	FOV	23.2
Number of Echoes	1	Slice Thickness	2.00
TR	3306.0	Slice Spacing	0.0
Number of Shots	1	Overlap Locations	0
IMAGE ENHANCE		ACQ TIMING	
Filter Choice	None	Freq	116
USER CVS		Phase	116
User CV5	1.00	Freq DIR	R/L
User CV11	1127.00	Phase FOV	1.00
TR Min	2000.0	Auto Shim	Auto
TR Max	17000.0	Phase Correction	Yes
User CV Mask2	512	RF Drive Mode	Preset
MULTI-PHASE		Excitation Mode	
Seperate Series	0	Selective	
Mask Phase	0	FMRI	
Mask Pause	0	PSD Trigger	Internal
Preserve	0	View Order	Bottom/Up
DIFFUSION		# of Repetitions REST	0
Optimized TE	No	# of Repetitions ACTIVE	0
Diffusion Directions	Tensor	SAT	
Number of Diffusion Directions	126	Tag Type	None
Number of T2 Images	1	Fat/Water Saturation	Fat
Dual Spin Echo	Off	TRICKS	
Diffusion Tensor Processing Output	No Selection	Pause On/Off	On
Recon All Images	Off	Auto Subtract	0
Multi b-values	2000.0;	Auto SCIC	2
Multi NEX Values	1.0;	OTHERS	
Real Time Field Adjustment	1	Protocol Notes	
CONTRAST		<p>VERY IMPORTANT: Set Acceleration->Hyperband Slice to 3! (It is saved as 3 in the protocol, but a bug resets it to 2.) Reset Slices to 81. Auto TR -> Auto and recalculate. It should go to about 3306. Make sure both the anterior and posterior receiver channels are on with the 48 channel coil, and that Freq. Dir is R/L. Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.</p>	
Contrast Yes/No	No		

Axial HB dMRI (MS21)

Axial HB dMRI (MS21)

Axial HB rsfMRI (Eyes Open) (MSV22)	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Gradient Echo
	Coil Configuration	GE48chHeadAnt2;GE48chHeadPos2	Imaging Options	EDR, MPh, EPI, ARC, HB
	Plane	AXIAL	Phase	1.00
	Series Description	Axial HB rsfMRI (Eyes Open) (MSV22)	HyperBand Slice	3
	SCAN TIMING		SCAN RANGE	
	Flip Angle	90	FOV	22.0
	TE	30.0	Slice Thickness	3.40
	Number of Echoes	1	Slice Spacing	0.0
	TR	1500.0	Overlap Locations	0
	Number of Shots	1	Number of Slices	48
	IMAGE ENHANCE		ACQ TIMING	
	Filter Choice	None	Freq	64
	GATING/TRIGGER		Phase	64
	Pause After Navigator Prescan	0	Freq DIR	R/L
	FMRI		NEX	1.00
	Initial State	Control	Phase FOV	1.00
	PSD Trigger	Internal	Auto Shim	Auto
	View Order	Bottom/Up	Phase Correction	Yes
	# of Repetitions REST	0	RF Drive Mode	Preset
	# of Repetitions ACTIVE	0	Excitation Mode	Selective
	SAT		USER CVS	
	Tag Type	None	User CV0	1.00
	Fat/Water Saturation	Fat	User CV Mask2	0
TRICKS		MULTI-PHASE		
Pause On/Off	On	Slice per Location	200	
Auto Subtract	0	Phase Acquisition Order	Interleaved	
Auto SCIC	Off	Delay after Acquisition	Minimum	
OTHERS		Seperate Series	0	
Protocol Notes	*Instruct patient to keep eyes open during this scan and to focus on 1 spot. Cover brain in one acq, ensure slab is positioned from inferior to superior. Must have 48 slices, please do not subtract or add any slices. Do not oblique slices. (Do not change series description)			
		Delay after Acquisition without AV	2	
		Mask Phase	0	
		Mask Pause	0	
		DIFFUSION		
		Recon All Images	On	
		# Synthetic b-values	1	
		Synthetic b-value	1000.0;	
		CONTRAST		
		Contrast Yes/No	No	

Axial HB rsfMRI (Eyes Open) (MSV22)

Protocol: adult_other_ADNI4 Advanced GE29.1_48Ch_20220829

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GE48chHeadAnt2;GE48chHeadPos2	Imaging Options	Fast, Asset
Plane	OBLIQUE	Phase	2.00
Series Description	HighResHippocampus (MSV21)	SCAN RANGE	
SCAN TIMING		FOV	17.5
Flip Angle	122	Slice Thickness	2.00
TE	50.0	Slice Spacing	Intleave
Number of Echoes	1	Overlap Locations	0
TR	8020.0	Number of Slices	30
Echo Train Length	15	ACQ TIMING	
Receiver Bandwidth	20.83	Freq	448
IMAGE ENHANCE		Phase	448
Filter Choice	None	Freq DIR	S/I
USER CVS		Fat Shift DIR	Normal (I)
User CV29	1.00	NEX	1.00
User CV30	1.00	Phase FOV	1.00
User CV Mask2	512	Auto Shim	Auto
MULTI-PHASE		Phase Correction	Yes
Seperate Series	0	RF Drive Mode	Preset
Mask Phase	0	Excitation Mode	Selective
Mask Pause	0	FMRI	
Preserve	0	PSD Trigger	Internal
DIFFUSION		View Order	Bottom/Up
Recon All Images	On	# of Repetitions REST	0
Multi b-values	1000.0;	# of Repetitions ACTIVE	0
Multi NEX Values	1.0;	SAT	
# Synthetic b-values	1	Tag Type	None
Synthetic b-value	1000.0;	TRICKS	
CONTRAST		Pause On/Off	On
Contrast Yes/No	No	Auto Subtract	0
		Auto SCIC	2
		OTHERS	
		Protocol Notes	Angle the slices perpendicular to the hippocampul body. Please refer to the study manual for further details.

HighResHippocampus (MSV21)

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