

Protocol: adult_other_ADNI4 Basic GE29x_20220801

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Spin Echo
Coil Configuration	GE48chHeadAnt;GE48chHeadPos	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	ACQ TIMING	
IMAGE ENHANCE		Freq	256
Filter Choice	None	Phase	192
USER CVS		Freq DIR	Unswap
User CV Mask2	0	# of Acq. Before Pause	0
MULTI-PHASE		Phase FOV	1.00
Seperate Series	0	Auto Shim	On
Mask Phase	0	Phase Correction	No
Mask Pause	0	RF Drive Mode	Preset
Preserve	0	Excitation Mode	Selective
DIFFUSION		FMRI	
Recon All Images	On	PSD Trigger	Internal
# Synthetic b-values	1	View Order	Bottom/Up
Synthetic b-value	1000.0;	# of Repetitions REST	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	<i>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.</i>

3-Plane Localizer

3-Plane Localizer

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Accelerated Sagittal MPRAGE (MSV22)	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	MP-RAGE
	Coil Configuration	GE48chHeadAnt;GE48chHeadPos	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	
	TRICKS		PSD Trigger	Internal
	Pause On/Off	On	View Order	Bottom/Up
	Auto Subtract	0	# of Repetitions REST	0
	Auto SCIC	2	# of Repetitions ACTIVE	0
OTHERS		DIFFUSION		
Protocol Notes	Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.	Recon All Images	On	
		# Synthetic b-values	1	
		Synthetic b-value	1000.0;	
		CONTRAST		
		Contrast Yes/No	No	

Accelerated Sagittal MPRAGE (MSV22)

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	Cube T2 FLAIR
Coil Configuration	GE48chHeadAnt;GE48chHeadPos	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	1530	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
# Synthetic b-values	1	SAT	
Synthetic b-value	1000.0;	Tag Type	None
CONTRAST		Fat/Water Saturation	Fat
Contrast Yes/No	No	TRICKS	
		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.

Sagittal 3D FLAIR (MSV22)

Sagittal 3D FLAIR (MSV22)

Protocol: adult_other_ADNI4 Basic GE29x_20220801

Sagittal 3D T2 Cube (MSV21)	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	Cube
	Coil Configuration	GE48chHeadAnt;GE48chHeadPos	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	
	DIFFUSION		PSD Trigger	Internal
Recon All Images	On	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	2	
		OTHERS		
		Protocol Notes	Imaging Tip: Copy coverage perscription from the T1.	

Sagittal 3D T2 Cube (MSV21)

Protocol: adult_other_ADNI4 Basic GE29x_20220801

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Gradient Echo
Coil Configuration	GE48chHeadAnt;GE48chHeadPos	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
		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 T2 Star (MSV21)

Axial T2 Star (MSV21)

Protocol: adult_other_ADNI4 Basic GE29x_20220801

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	GE48chHeadAnt;GE48chHeadPos	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	0	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 1025 (Eyes Open) (MSV22)

Protocol: adult_other_ADNI4 Basic GE29x_20220801

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	GE48chHeadAnt;GE48chHeadPos	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	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 1525 (Eyes Open) (MSV22)

Protocol: adult_other_ADNI4 Basic GE29x_20220801

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	GE48chHeadAnt;GE48chHeadPos	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 Basic GE29x_20220801

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	GE48chHeadAnt;GE48chHeadPos	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	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 2525 (Eyes Open) (MSV22)

Protocol: adult_other_ADNI4 Basic GE29x_20220801

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	GE48chHeadAnt;GE48chHeadPos	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)

Protocol: adult_other_ADNI4 Basic GE29x_20220801

Axial dMRI (MSV21)	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Spin Echo
	Coil Configuration	GE48chHeadPos;GE48chHeadAnt	Imaging Options	EDR, EPI, DIFF, Asset
	Plane	AXIAL	Phase	2.00
	Series Description	Axial dMRI (MSV21)	SCAN RANGE	
	SCAN TIMING		FOV	23.2
	TE	Minimum	Slice Thickness	2.00
	Number of Echoes	1	Slice Spacing	0.0
	TR	8750.0	Overlap Locations	0
	Number of Shots	1	Number of Slices	80
	IMAGE ENHANCE		ACQ TIMING	
	Filter Choice	None	Freq	116
	USER CVS		Phase	116
	User CV5	1.00	Freq DIR	R/L
	User CV Mask2	0	Phase FOV	1.00
	MULTI-PHASE		Auto Shim	Auto
	Seperate Series	0	Phase Correction	Yes
	Mask Phase	0	RF Drive Mode	Preset
	Mask Pause	0	Excitation Mode	Selective
Preserve	0	FMRI		
DIFFUSION		PSD Trigger	Internal	
Optimized TE	Yes	View Order	Bottom/Up	
Diffusion Directions	Tensor	# of Repetitions REST	0	
Number of Diffusion Directions	48	# of Repetitions ACTIVE	0	
Number of T2 Images	6	SAT		
Dual Spin Echo	Off	Tag Type	None	
Diffusion Tensor	No Selection	Fat/Water Saturation	Fat	
Processing Output		TRICKS		
Recon All Images	Off	Pause On/Off	On	
Multi b-values	1000.0;	Auto Subtract	0	
Multi NEX Values	1.0;	Auto SCIC	Off	
Real Time Field Adjustment	1	OTHERS		
CONTRAST		Protocol Notes	Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.	
Contrast Yes/No	No			

Axial dMRI (MSV21)

Protocol: adult_other_ADNI4 Basic GE29x_20220801

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Gradient Echo
Coil Configuration	GE48chHeadPos;GE48chHeadAnt	Imaging Options	MPh, EPI
Plane	AXIAL	SCAN RANGE	
Series Description	Axial rsfMRI (Eyes Open) (MSV21)	FOV	22.0
SCAN TIMING		Slice Thickness	3.40
Flip Angle	90	Slice Spacing	0.0
TE	30.0	Overlap Locations	0
Number of Echoes	1	Number of Slices	48
TR	3000.0	ACQ TIMING	
Number of Shots	1	Freq	64
IMAGE ENHANCE		Phase	64
Filter Choice	None	Freq DIR	R/L
GATING/TRIGGER		NEX	1.00
Pause After Navigator	0	Phase FOV	1.00
Prescan		Auto Shim	Off
FMRI		Phase Correction	Yes
Initial State	Control	RF Drive Mode	Preset
PSD Trigger	Internal	Excitation Mode	Selective
View Order	Bottom/Up	USER CVS	
# of Repetitions REST	0	User CV0	1.00
# of Repetitions ACTIVE	0	User CV Mask2	0
SAT		MULTI-PHASE	
Tag Type	None	Slice per Location	100
Fat/Water Saturation	Fat	Phase Acquisition Order	Interleaved
TRICKS		Delay after Acquisition	Minimum
Pause On/Off	On	Separate Series	0
Auto Subtract	0	Delay after Acquisition without AV	2
Auto SCIC	Off	Mask Phase	0
OTHERS		Mask Pause	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)		
		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 rsfMRI (Eyes Open) (MSV21)

Axial rsfMRI (Eyes Open) (MSV21)

Protocol: adult_other_ADNI4 Basic GE29x_20220801

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	GE48chHeadAnt;GE48chHeadPos	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	640	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)

HighResHippocampus (MSV21)