

20 M3A ADNI HUMAN

Protocol: adult\_other\_ADNI3\_GE\_3T\_24x\_20161129214115660\_1

3 Plane Localizer	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
	Patient Entry	Head First	Imaging Mode	2D
	Patient Position	Supine	Pulse Sequence	Gradient Echo
	Coil Configuration	-1	Imaging Options	Seq, Fast
	Plane	3-PLANE	n/a	45
	Series Description	3 Plane Localizer	<b>IMAGE ENHANCE</b>	
	<b>SCAN RANGE</b>		Filter Choice	None
	FOV	26.0	<b>GATING/TRIGGER</b>	
	Slice Thickness	5.0	Heart Beat per Minute Mode	0
	Slice Spacing	0.0	Auto Trigger Type	Off
	Center Location 1	R0.5	Auto Trigger Window	Off
	Center Location 2	A20.0	<b>FMRI</b>	
	Center Location 3	10.5	PSD Trigger	Internal
	Slice for 3 Plane Localizaion	0	Slice Order	Interleaved
	Slice for 3 Plane Localizaion	3	View Order	Bottom/Up
	Slice for 3 Plane Localizaion	3	# of Repetitions REST	0
	Slice for 3 Plane Localizaion	3	# of Repetitions ACTIVE	0
	Space per Plane 1	0.0	<b>SAT</b>	
	Space per Plane 2	0.0	Tag Type	None
	Table Delta	0.00	<b>TRICKS</b>	
	<b>ACQ TIMING</b>		Pause On/Off	On
	Freq	256	Auto Subtract	0
	Phase	128	Auto SCIC	Off
	Freq DIR	Unswap		
	NEX	1.00		
	Phase FOV	1.00		
	Auto Shim	Auto		
	Phase Correction	No		
<b>USER CVS</b>				
In-range AutoTR Control	0			
User CV Mask	0			
<b>MULTI-PHASE</b>				
Seperate Series	0			
Mask Phase	0			
Mask Pause	0			
<b>DIFFUSION</b>				
Recon All Images	On			
<b>CONTRAST</b>				
Contrast Yes/No	No			
Contrast Amount	Yes			

3 Plane Localizer

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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	SPGR
Coil Configuration	8HRBRAIN	Imaging Options	Fast, Calib, ZIP2, EDR
Plane	AXIAL	n/a	6
Series Description	Calibration Scan	<b>IMAGE ENHANCE</b>	
<b>SCAN RANGE</b>		Filter Choice	None
FOV	30.0	<b>GATING/TRIGGER</b>	
Slice Thickness	9.4	Heart Beat per Minute Mode	0
Overlap Locations	0	Auto Trigger Type	Off
Start Location 1	I125.9	Auto Trigger Window	Off
End Location 1	S165.6	<b>FMRI</b>	
End Location 2	R4.1	PSD Trigger	Internal
End Location 3	A53.3	Slice Order	Interleaved
Center of Location Start	R4.1	View Order	Bottom/Up
Center of Location End	A53.3	# of Repetitions REST	0
Scan Locations	32	# of Repetitions ACTIVE	0
Number of Slices	1	<b>SAT</b>	
Slice for 3 Plane Localizaion	0	Tag Type	None
Slice for 3 Plane Localizaion	0	<b>TRICKS</b>	
Slice for 3 Plane Localizaion	0	Pause On/Off	On
Slice for 3 Plane Localizaion	0	Auto Subtract	0
Space per Plane 1	0.0	Auto SCIC	Off
Space per Plane 2	0.0	<b>OTHERS</b>	
Table Delta	0.00	Protocol Notes	Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.
<b>ACQ TIMING</b>			
Freq DIR	R/L		
Auto Shim	Auto		
Phase Correction	No		
<b>USER CVS</b>			
In-range AutoTR Control	0		
User CV Mask	0		
<b>MULTI-PHASE</b>			
Seperate Series	0		
Mask Phase	0		
Mask Pause	0		
<b>DIFFUSION</b>			
Recon All Images	On		
<b>CONTRAST</b>			
Contrast Yes/No	No		
Contrast Amount	Yes		

Calibration Scan

Calibration Scan

20 M3A ADNI HUMAN

Protocol: adult\_other\_ADNI3\_GE\_3T\_24x\_20161129214115660\_1

Accelerated Sag IR-FSPGR	<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
	Patient Entry	Head First	Imaging Mode	3D
	Patient Position	Supine	Pulse Sequence	SPGR
	Coil Configuration	-1	Imaging Options	EDR, Fast, IrP, Asset
	Plane	SAGITTAL	n/a	6
	Series Description	Accelerated Sag IR-FSPGR	<b>SCAN RANGE</b>	
	<b>SCAN TIMING</b>		FOV	27.0
	Flip Angle	11	Slice Thickness	1.2
	TE	Min Full	Location per Slab	200
	TI	400	Overlap Locations	0
	Receiver Bandwidth	31.25	Start Location 1	L118.0
	<b>IMAGE ENHANCE</b>		End Location 1	R116.0
	Filter Choice	None	End Location 2	A54.3
	<b>GATING/TRIGGER</b>		End Location 3	S1.5
	Heart Beat per Minute Mode	0	Center of Location Start	A54.3
	Auto Trigger Type	Off	Center of Location End	S1.5
	Auto Trigger Window	Off	Number of Slices	1
	<b>FMRI</b>		Slice for 3 Plane Localizaion	0
	PSD Trigger	Internal	Slice for 3 Plane Localizaion	0
	Slice Order	Interleaved	Slice for 3 Plane Localizaion	0
	View Order	Bottom/Up	Space per Plane 1	0.0
	# of Repetitions REST	0	Space per Plane 2	0.0
	# of Repetitions ACTIVE	0	Table Delta	0.00
	<b>SAT</b>		<b>ACQ TIMING</b>	
	Tag Type	None	Freq	256
<b>TRICKS</b>		Phase	256	
Pause On/Off	On	Freq DIR	S/I	
Auto Subtract	0	NEX	1.00	
Auto SCIC	2	Phase FOV	1.00	
<b>OTHERS</b>		Auto Shim	On	
Protocol Notes	Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.			
		Phase Correction	No	
		<b>USER CVS</b>		
		User CV6	1.00	
		User CV23	100.00	
		In-range AutoTR Control	0	
		User CV Mask	8388688	
		<b>MULTI-PHASE</b>		
		Seperate Series	0	
		Mask Phase	0	
		Mask Pause	0	
		<b>DIFFUSION</b>		
		Recon All Images	On	
		<b>CONTRAST</b>		
		Contrast Yes/No	No	
		Contrast Amount	Yes	

Accelerated Sag IR-FSPGR

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Protocol: adult\_other\_ADNI3\_GE\_3T\_24x\_20161129214115660\_1

PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	Cube T2 FLAIR
Coil Configuration	-1	Imaging Options	EDR, Fast, IrP, ARC
Plane	SAGITTAL	n/a	56
Series Description	Sagittal 3D FLAIR	<b>SCAN RANGE</b>	
<b>SCAN TIMING</b>		FOV	25.6
TE	119.0	Slice Thickness	1.2
TR	4800.0	Location per Slab	186
TI	50	Overlap Locations	0
Echo Train Length	182	End Location 2	0.0
Receiver Bandwidth	31.25	End Location 3	0.0
<b>IMAGE ENHANCE</b>		Center of Location Start	0.0
Filter Choice	None	Center of Location End	0.0
<b>GATING/TRIGGER</b>		Number of Slices	1
Heart Beat per Minute Mode	0	Slice for 3 Plane Localizaion	0
Auto Trigger Type	Off	Slice for 3 Plane Localizaion	0
Auto Trigger Window	Off	Slice for 3 Plane Localizaion	0
<b>FMRI</b>		Slice for 3 Plane Localizaion	0
PSD Trigger	Internal	Space per Plane 1	0.0
Slice Order	Interleaved	Space per Plane 2	0.0
View Order	Bottom/Up	Table Delta	0.00
# of Repetitions REST	0	<b>ACQ TIMING</b>	
# of Repetitions ACTIVE	0	Freq	256
<b>SAT</b>		Phase	256
Tag Type	None	Freq DIR	S/I
<b>TRICKS</b>		NEX	1.00
Pause On/Off	On	Phase FOV	1.00
Auto Subtract	0	Auto Shim	Auto
Auto SCIC	2	Phase Correction	No
<b>OTHERS</b>		<b>USER CVS</b>	
Protocol Notes	Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.	User CV Mask	0
		<b>MULTI-PHASE</b>	
		Seperate Series	0
		Mask Phase	0
		Mask Pause	0
		<b>DIFFUSION</b>	
		Recon All Images	On
		<b>CONTRAST</b>	
		Contrast Yes/No	No
		Contrast Amount	Yes

Sagittal 3D FLAIR

Sagittal 3D FLAIR

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<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Gradient Echo
Coil Configuration	-1	Imaging Options	FC, EDR
Plane	AXIAL	n/a	0
Series Description	Axial T2 Star	<b>SCAN RANGE</b>	
<b>SCAN TIMING</b>		FOV	20.0
Flip Angle	20	Slice Thickness	4.0
TE	20.0	Slice Spacing	0.0
Number of Echoes	1	Start Location 1	187.5
TR	650.0	End Location 1	S84.5
Receiver Bandwidth	25.00	End Location 2	L3.1
<b>IMAGE ENHANCE</b>		End Location 3	A53.3
Filter Choice	None	Center of Location Start	L3.1
<b>GATING/TRIGGER</b>		Center of Location End	A53.3
Heart Beat per Minute Mode	0	Number of Slices	50
Auto Trigger Type	Off	Slice for 3 Plane Localizaion	0
Auto Trigger Window	Off	Slice for 3 Plane Localizaion	0
<b>FMRI</b>		Slice for 3 Plane Localizaion	0
PSD Trigger	Internal	Slice for 3 Plane Localizaion	0
Slice Order	Interleaved	Space per Plane 1	0.0
View Order	Bottom/Up	Space per Plane 2	0.0
# of Repetitions REST	0	Table Delta	0.00
# of Repetitions ACTIVE	0	<b>ACQ TIMING</b>	
<b>SAT</b>		Freq	256
Tag Type	None	Phase	192
<b>TRICKS</b>		Freq DIR	A/P
Pause On/Off	On	NEX	1.00
Auto Subtract	0	# of Acq. Before Pause	0
Auto SCIC	2	Phase FOV	1.00
<b>OTHERS</b>		Auto Shim	Auto
Protocol Notes	Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.	Phase Correction	No
		<b>USER CVS</b>	
		In-range AutoTR Control	0
		User CV Mask	0
		<b>MULTI-PHASE</b>	
		Seperate Series	0
		Mask Phase	0
		Mask Pause	0
		<b>DIFFUSION</b>	
		Recon All Images	On
		<b>CONTRAST</b>	
		Contrast Yes/No	No
		Contrast Amount	Yes

Axial T2 Star

Axial T2 Star

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<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
Patient Entry	Head First	Imaging Mode	3D
Patient Position	Supine	Pulse Sequence	3DASL
Coil Configuration	HD 8Ch High Res Brain Array by Invivo	Imaging Options	EDR, Fast, Spiral
Plane	AXIAL	n/a	65
Series Description	Axial 3D pCASL (Eyes Open)	<b>SCAN RANGE</b>	
<b>SCAN TIMING</b>		FOV	24.0
Receiver Bandwidth	62.50	Slice Thickness	4.0
<b>IMAGE ENHANCE</b>		Start Location 1	194.4
Filter Choice	None	End Location 2	R4.4
<b>GATING/TRIGGER</b>		End Location 3	A33.4
Heart Beat per Minute Mode	0	Center of Location Start	R4.4
Auto Trigger Type	Off	Center of Location End	A33.4
Auto Trigger Window	Off	Scan Locations	40
<b>FMRI</b>		Slice for 3 Plane Localizaion	0
PSD Trigger	Internal	Slice for 3 Plane Localizaion	0
Slice Order	Interleaved	Slice for 3 Plane Localizaion	0
View Order	Bottom/Up	Space per Plane 1	0.0
# of Repetitions REST	0	Space per Plane 2	0.0
# of Repetitions ACTIVE	0	Table Delta	0.00
<b>SAT</b>		<b>ACQ TIMING</b>	
Tag Type	None	Freq	512
<b>TRICKS</b>		Phase	8
Pause On/Off	On	Freq DIR	R/L
Auto Subtract	0	NEX	3.00
Auto SCIC	Off	Auto Shim	Auto
<b>OTHERS</b>		Phase Correction	No
Protocol Notes	Tips: -When prescribing the 3D slab, the bottom of the slab should be positioned at the bottom of the cerebellum	<b>USER CVS</b>	
		In-range AutoTR Control	0
		User CV Mask	0
		<b>MULTI-PHASE</b>	
		Seperate Series	0
		Delay after Acquisition without AV	0
		Mask Phase	0
		Mask Pause	0
		<b>DIFFUSION</b>	
		Recon All Images	On
		<b>CONTRAST</b>	
		Contrast Yes/No	No
		Contrast Amount	Yes

Axial 3D pCASL (Eyes Open)

Axial 3D pCASL (Eyes Open)

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PATIENT POSITION	IMAGING PARAMETERS
Patient Entry <i>Head First</i>	Imaging Mode <i>2D</i>
Patient Position <i>Supine</i>	Pulse Sequence <i>Spin Echo</i>
Coil Configuration <i>-1</i>	Imaging Options <i>EPI, DIFF, Asset</i>
Plane <i>AXIAL</i>	n/a <i>8</i>
Series Description <i>Axial DTI</i>	
SCAN TIMING	SCAN RANGE
TE <i>Minimum</i>	FOV <i>23.2</i>
TR <i>7800.0</i>	Slice Thickness <i>2.0</i>
Number of Shots <i>1</i>	Slice Spacing <i>0.0</i>
IMAGE ENHANCE	Start Location 1 <i>I53.0</i>
Filter Choice <i>None</i>	End Location 1 <i>S63.1</i>
GATING/TRIGGER	End Location 2 <i>L2.5</i>
Heart Beat per Minute Mode <i>0</i>	End Location 3 <i>A53.3</i>
Auto Trigger Type <i>Off</i>	Center of Location Start <i>L2.5</i>
Auto Trigger Window <i>Off</i>	Center of Location End <i>A53.3</i>
FMRI	Number of Slices <i>80</i>
PSD Trigger <i>Internal</i>	Slice for 3 Plane Localizaion <i>0</i>
Slice Order <i>Interleaved</i>	Slice for 3 Plane Localizaion <i>0</i>
View Order <i>Bottom/Up</i>	Slice for 3 Plane Localizaion <i>0</i>
# of Repetitions REST <i>0</i>	Space per Plane 1 <i>0.0</i>
# of Repetitions ACTIVE <i>0</i>	Space per Plane 2 <i>0.0</i>
SAT	Table Delta <i>0.00</i>
Tag Type <i>None</i>	ACQ TIMING
Fat/Water Saturation <i>Fat</i>	Freq <i>116</i>
TRICKS	Phase <i>116</i>
Pause On/Off <i>On</i>	Freq DIR <i>R/L</i>
Auto Subtract <i>0</i>	Phase FOV <i>1.00</i>
Auto SCIC <i>2</i>	Auto Shim <i>Auto</i>
OTHERS	Phase Correction <i>Yes</i>
Protocol Notes <i>Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values. If you notice that the slice thickness is changed from 2.7 to 2.9 you can fix this bug by turning fat sat off then turning it back on again.</i>	USER CVS
	User CV5 <i>1.00</i>
	User CV17 <i>1.00</i>
	In-range AutoTR Control <i>0</i>
	User CV Mask <i>262688</i>
	MULTI-PHASE
	Seperate Series <i>0</i>
	Mask Phase <i>0</i>
	Mask Pause <i>0</i>
	DIFFUSION
	Optimized TE <i>Yes</i>
	Diffusion Directions <i>Tensor</i>
	Number of Diffusion Directions <i>48</i>
	Number of T2 Images <i>6</i>
	Dual Spin Echo <i>Off</i>
	Diffusion Tenser Processing Output <i>No Selection</i>
	Recon All Images <i>Off</i>

Axial DTI

Axial DTI

CONTRAST	
Contrast Yes/No	No
Contrast Amount	Yes



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PATIENT POSITION		IMAGING PARAMETERS	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	Gradient Echo
Coil Configuration	-1	Imaging Options	MPh, EPI
Plane	AXIAL	n/a	9
Series Description	Axial rsfMRI (Eyes Open)	SCAN RANGE	
SCAN TIMING		FOV	22.0
Flip Angle	90	Slice Thickness	3.4
TE	30.0	Slice Spacing	0.0
TR	3000.0	Start Location 1	I96.7
Number of Shots	1	End Location 1	S65.0
IMAGE ENHANCE		End Location 2	L2.3
Filter Choice	None	End Location 3	A21.1
GATING/TRIGGER		Center of Location Start	L2.3
Heart Beat per Minute Mode	0	Center of Location End	A21.1
Auto Trigger Type	Off	Number of Slices	48
Auto Trigger Window	Off	Slice for 3 Plane Localizaion	0
FMRI		Slice for 3 Plane Localizaion	0
Initial State	Control	Slice for 3 Plane Localizaion	0
PSD Trigger	Internal	Slice for 3 Plane Localizaion	0
Slice Order	Interleaved	Space per Plane 1	0.0
View Order	Bottom/Up	Space per Plane 2	0.0
# of Repetitions REST	0	Table Delta	0.00
# of Repetitions ACTIVE	0	ACQ TIMING	
SAT		Freq	64
Tag Type	None	Phase	64
TRICKS		Freq DIR	A/P
Pause On/Off	On	NEX	1.00
Auto Subtract	0	Phase FOV	1.00
Auto SCIC	Off	Auto Shim	Off
		Phase Correction	Yes
		USER CVS	
		User CV0	1.00
		In-range AutoTR Control	0
		User CV Mask	1
		MULTI-PHASE	
		Slice per Location	200
		Phase Acquisition Order	Interleaved
		Delay after Acquisition	Minimum
		Seperate Series	0
		Delay after Acquisition without AV	2
		Mask Phase	0
		Mask Pause	0
		DIFFUSION	
		Recon All Images	On
		CONTRAST	
		Contrast Yes/No	No
		Contrast Amount	Yes

Axial rsfMRI (Eyes Open)

Axial rsfMRI (Eyes Open)

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<b>PATIENT POSITION</b>		<b>IMAGING PARAMETERS</b>	
Patient Entry	Head First	Imaging Mode	2D
Patient Position	Supine	Pulse Sequence	FSE-XL
Coil Configuration	-1	Imaging Options	Fast, Asset
Plane	OBLIQUE	n/a	22
Series Description	HighResHippo	<b>SCAN RANGE</b>	
<b>SCAN TIMING</b>		FOV	17.5
Flip Angle	122	Slice Thickness	2.0
TE	50.0	Slice Spacing	Intleave
Number of Echoes	1	Start Location 1	0.0
TR	8020.0	Start Location 2	0.0
Echo Train Length	15	Start Location 3	0.0
Receiver Bandwidth	20.83	Number of Slices	30
<b>IMAGE ENHANCE</b>		Slice for 3 Plane Localizaion	0
Filter Choice	None	Slice for 3 Plane Localizaion	0
<b>GATING/TRIGGER</b>		Slice for 3 Plane Localizaion	0
Heart Beat per Minute Mode	0	Slice for 3 Plane Localizaion	0
Auto Trigger Type	Off	Space per Plane 1	Intleave
Auto Trigger Window	Off	Space per Plane 2	Intleave
<b>FMRI</b>		Table Delta	0.00
PSD Trigger	Internal	<b>ACQ TIMING</b>	
Slice Order	Interleaved	Freq	448
View Order	Bottom/Up	Phase	448
# of Repetitions REST	0	Freq DIR	Unswap
# of Repetitions ACTIVE	0	NEX	1.00
<b>SAT</b>		# of Acq. Before Pause	0
Tag Type	None	Phase FOV	1.00
<b>TRICKS</b>		Auto Shim	Auto
Pause On/Off	On	Phase Correction	Yes
Auto Subtract	0	<b>USER CVS</b>	
Auto SCIC	2	User CV21	1.00
<b>OTHERS</b>		User CV22	1.00
Protocol Notes	Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.	In-range AutoTR Control	0
		User CV Mask	6325184
		<b>MULTI-PHASE</b>	
		Seperate Series	0
		Mask Phase	0
		Mask Pause	0
		<b>DIFFUSION</b>	
		Recon All Images	On
		<b>CONTRAST</b>	
		Contrast Yes/No	No
		Contrast Amount	Yes

HighResHippo

HighResHippo