Protocol: adult\_other\_ADNI3BasicHumanProtocol25x\_20170209\_20170209150704300\_1

	PATIENT POSITION		IMAGING PARAMETERS	
	Patient Entry	Head First	Imaging Mode 2D	
	Patient Position	Supine	Pulse Sequence Gradient Echo	
	Coil Configuration	HD 8Ch High Res Brain	Imaging Options Seq, Fast	
		Array by Invivo	IMAGE ENHANCE	
	Plane	3-PLANE	Filter Choice None	
	Series Description	3 Plane Localizer		
	SCAN RANGE		GATING/TRIGGER Auto Trigger Type Off	
	FOV	26.0		
	Slice Thickness	5.0	MULTI-PHASE	
	Slice Spacing	0.0	Seperate Series 0	
	ACQ TIMING		Mask Phase 0	
	Freq	256	Mask Pause 0	
پ	Phase	128	DIFFUSION	پ
Plane Localizer	Freq DIR	Unswap	Recon All Images On	Plane Localizer
oca	NEX	1.00	CONTRAST	ေ
) L	Phase FOV	1.00	Contrast Yes/No No	ĭ
ane	Auto Shim	Auto		ane
3 PI	Phase Correction	No		3 PI
(1)	FMRI			(·)
	PSD Trigger	Internal		
	Slice Order	Interleaved		
	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		

Protocol: adult\_other\_ADNI3BasicHumanProtocol25x\_20170209\_20170209150704300\_1

	PATIENT POSITION		IMAGING PARAMETERS		
	Patient Entry	Head First	Imaging Mode	3D	
	Patient Position	Supine	Pulse Sequence	SPGR	
	Coil Configuration	HD 8Ch High Res Brain	Imaging Options	EDR, Fast, ZIP2, Calib	
	Plane	Array by Invivo AXIAL	SCAN RANGE		
	Series Description	Calibration Scan	FOV	30.0	
		Cambration Coan	Slice Thickness	9.4	
	SCAN TIMING Number of Echoes	1	ACQ TIMING		
		ı	Freq DIR	R/L	
u	IMAGE ENHANCE		Auto Shim	Auto	□
Scan	Filter Choice	None	Phase Correction	No	Scan
	GATING/TRIGGER		FMRI		on §
Calibration	Auto Trigger Type	Off	PSD Trigger	Internal	Calibration
alib	MULTI-PHASE		Slice Order	Interleaved	dile
ပိ	Seperate Series	0	View Order	Bottom/Up	Ca
	Mask Phase	0	# of Repetitions REST	0	
	Mask Pause	0	# of Repetitions ACTIVE	0	
	DIFFUSION		SAT		
	Recon All Images	On	Tag Type	None	
	CONTRAST		TRICKS		
	Contrast Yes/No	No	Pause On/Off	On	
			Auto Subtract	0	
			Auto SCIC	Off	

Protocol: adult\_other\_ADNI3BasicHumanProtocol25x\_20170209\_20170209150704300\_1

	PATIENT POSITION		IMAGING PARAMETER	S	
	Patient Entry	Head First	Imaging Mode	3D	
	Patient Position	Supine	Pulse Sequence	SPGR	
	Coil Configuration	HD 8Ch High Res Brain Array by Invivo	Imaging Options	EDR, Fast, IrP, Asset	et .
	Plane	SAGITTAL	SCAN RANGE		
	Series Description	Accelerated Sagittal IR-	FOV	25.6	
		FSPGR	Slice Thickness	1.0	
	SCAN TIMING		Location per Slab	200	
	Flip Angle	11	Overlap Locations	0	
	TE	Min Full	ACQ TIMING		
	TI	400	Freq	256	
	Receiver Bandwidth	31.25	Phase	256	
	IMAGE ENHANCE		Freq DIR	S/I	Accelerated Sagittal IR-FSPGR
쏬	Filter Choice	None	NEX	1.00	
P. P.	GATING/TRIGGER		Phase FOV	1.00	
		Off	Auto Shim	On	Ę
<del>=</del>	Auto Trigger Type	Oli	Phase Correction	No	R
Accelerated Sagittal IR-FSPGR	FMRI		USER CVS		ittal
sag	PSD Trigger	Internal	User CV6	1.00	ag
o O	Slice Order	Interleaved	User CV23 100.00  MULTI-PHASE Seperate Series 0	100.00	0
ate	View Order	Bottom/Up			ate
eler	# of Repetitions REST	0		0	eler
00	# of Repetitions ACTIVE	0	Mask Phase	0	90
٩	SAT		Mask Pause	0	٩
	Tag Type	None	DIFFUSION		
	TRICKS		Recon All Images	On	
	Pause On/Off	On		OII	
	Auto Subtract	0	CONTRAST		
	Auto SCIC	2	Contrast Yes/No	No	
	OTHERS				
	Protocol Notes	Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.			

Protocol: adult\_other\_ADNI3BasicHumanProtocol25x\_20170209\_20170209150704300\_1

	PATIENT POSITION			IMAGING PARAMETERS		
	Patient Entry	Head First		Imaging Mode	3D	
	Patient Position	Supine		Pulse Sequence	Cube T2 FLAIR	
	Coil Configuration	HD 8Ch High Res Brain Array by Invivo		Imaging Options	EDR, Fast, IrP, ARC	
	Plane	SAGITTAL		SCAN RANGE		
	Series Description	Sagittal 3D FLAIR		FOV	25.6	
	SCAN TIMING			Slice Thickness	1.2	
	TE	119.0	l	Location per Slab	186	
	TR	4800.0	_	Overlap Locations	0	
	TI	1473		ACQ TIMING		
	Echo Train Length	182		Freq	256	
	Receiver Bandwidth	31.25		Phase	256	
			ı	Freq DIR	S/I	
	IMAGE ENHANCE	• •		NEX	1.00	
	Filter Choice	None		Phase FOV	1.00	FLAIR
~	GATING/TRIGGER			Auto Shim	Auto	
Sagittal 3D FLAIR	Auto Trigger Type	Off		Phase Correction	No	
Ö	FMRI			USER CVS		Ö
3	PSD Trigger	Internal		User CV5	1.00	Sagittal 3D
gitte	Slice Order	Interleaved		MULTI-PHASE		
Sa	View Order	Bottom/Up		Seperate Series	0	
	# of Repetitions REST	0	•	0		
	# of Repetitions ACTIVE	0		Mask Pause	0	
	SAT			DIFFUSION		
	Tag Type	None		Recon All Images	On	
	Fat/Water Saturation	Fat		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.				

Protocol: adult\_other\_ADNI3BasicHumanProtocol25x\_20170209\_20170209150704300\_1

	PATIENT POSITION		IMAGING PARAMETERS	_	
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	Gradient Echo	
	Coil Configuration	HD 8Ch High Res Brain	Imaging Options	FC, EDR	
		Array by Invivo	SCAN RANGE		
	Plane	AXIAL	FOV	22.0	
	Series Description	Axial T2 Star	Slice Thickness	4.0	
	SCAN TIMING		Slice Spacing	0.0	
	Flip Angle	20	ACQ TIMING		
	TE	20.0	Freq	256	
	Number of Echoes	1	Phase	192	
	TR	650.0	Freq DIR	A/P	
	Receiver Bandwidth	25.00	NEX	1.00	Star
	IMAGE ENHANCE		# of Acq. Before Pause	0	
	Filter Choice	None	Phase FOV	1.00	
_	GATING/TRIGGER		Auto Shim	Auto	
Star	Auto Trigger Type	Off	Phase Correction	No	
Axial T2	MULTI-PHASE		FMRI		T2
×ia	Seperate Series	0	PSD Trigger	Internal	Axial T2 Star
A	Mask Phase	0	Slice Order	Interleaved	
	Mask Pause	0	View Order	Bottom/Up	
	DIFFUSION		# of Repetitions REST	0	
	Recon All Images	On	# 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	Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.	

Protocol: adult\_other\_ADNI3BasicHumanProtocol25x\_20170209\_20170209150704300\_1

	PATIENT POSITION		IMAGING PARAMETERS	_	
	Patient Entry	Head First	Imaging Mode	3D	
	Patient Position	Supine	Pulse Sequence	3DASL	
		HD 8Ch High Res Brain Array by Invivo	Imaging Options	EDR, Fast, Spiral	
	Plane	AXIAL	SCAN RANGE		
	Series Description	Axial 3D pCASL (Eyes Open)	FOV Slice Thickness	24.0 4.0	
	SCAN TIMING	<b>.</b>	ACQ TIMING		
	Receiver Bandwidth	62.50	Freq	512	
	IMAGE ENHANCE		Phase	8	
	Filter Choice	None	Freq DIR	R/L	
Open)		140110	NEX	3.00	oen
Ö	GATING/TRIGGER	Off	Auto Shim	Auto	Ŏ
(Eyes	Auto Trigger Type	Uπ	Phase Correction	No	yes
Ű	MULTI-PHASE		FMRI		(E)
S	Seperate Series	0	PSD Trigger	Internal	S
pCASL	Delay after Acquisition without AV	0	Slice Order	Interleaved	pCASL (Eyes Open)
3D	Mask Phase	0	View Order	Bottom/Up	
Axial (	Mask Pause	0	# of Repetitions REST	0	Axial 3D
Ax	TRICKS		# of Repetitions ACTIVE	0	¥
	Pause On/Off	On	DIFFUSION		
	Auto Subtract	0	Recon All Images	On	
	Auto SCIC	Off	CONTRAST		
	OTHERS		Contrast Yes/No	No	
	Protocol Notes	Tips: -When prescribing the 3D slab, the bottom of the slab should be positioned at the bottom of the cerebellum			

Protocol: adult\_other\_ADNI3BasicHumanProtocol25x\_20170209\_20170209150704300\_1

	PATIENT POSITION		IMAGING PARAMETERS	_	
	Patient Entry	Head First	Imaging Mode	2D	
	Patient Position	Supine	Pulse Sequence	Spin Echo	
	Coil Configuration	HD 8Ch High Res Brain Array by Invivo	<b>Imaging Options</b>	EPI, DIFF, Asset	
	Plane	AXIAL	SCAN RANGE		
	Series Description	Axial DTI	FOV	23.2	
	SCAN TIMING		Slice Thickness	2.0	
	TE	Minimum	Slice Spacing	0.0	
	TR	7800.0	ACQ TIMING		
	Number of Shots	1	Freq	116	
	IMAGE ENLIANCE		Phase	116	
	IMAGE ENHANCE Filter Choice	None	Freq DIR	R/L	
		None	Phase FOV	1.00	
	GATING/TRIGGER		Auto Shim	Auto	
	Auto Trigger Type	Off	Phase Correction	Yes	
E	FMRI		USER CVS		l e
Axial DTI	PSD Trigger	Internal	User CV5	1.00	Axial DTI
۱Xi	Slice Order	Interleaved	User CV17	1.00	
4	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		
	Fat/Water Saturation	Fat	Optimized TE	Yes	
	TRICKS		<b>Diffusion Directions</b>	Tensor	
	Pause On/Off	On	Number of Diffusion	48	
	Auto Subtract	0	Directions		
	Auto SCIC	2	Number of T2 Images	6 Off	
	OTHERS		Dual Spin Echo Diffusion Tenser	Oπ No Selection	
	Protocol Notes	Please do not oblique.	Processing Output	NO SELECTION	
		Please do not reduce the number of slices.	Recon All Images	Off	
		Please do not adjust protocol values.	CONTRAST		
		protocor values.	Contrast Yes/No	No	

## Protocol: adult\_other\_ADNI3BasicHumanProtocol25x\_20170209\_20170209150704300\_1

	PATIENT POSITION			IMAGING PARAMETERS		
	Patient Entry	Head First		Imaging Mode	2D	
	Patient Position	Supine		Pulse Sequence	Gradient Echo	
	Coil Configuration	HD 8Ch High Res Brain Array by Invivo		Imaging Options	MPh, EPI	
	Plane	AXIAL		SCAN RANGE		
	Series Description	Axial rsfMRI (Eyes Open)		FOV	22.0	
	SCAN TIMING			Slice Thickness	3.4	
	Flip Angle	90	٠,	Slice Spacing	0.0	
	TE	30.0		ACQ TIMING		
	TR	3000.0		Freq	64	
	Number of Shots	1		Phase	64	
	IMA OF FAULANOF			Freq DIR	R/L	
	IMAGE ENHANCE	Mana		NEX	1.00	
	Filter Choice	None		Phase FOV	1.00	
	GATING/TRIGGER			Auto Shim	Off	
	Auto Trigger Type	Off		Phase Correction	Yes	
(	FMRI			USER CVS		<u> </u>
per	Initial State	Control		User CV0	1.00	per
0 0	PSD Trigger	Internal		MULTI-PHASE		000
yes	Slice Order	Interleaved		Slice per Location	200	Хе́
<u> </u>	View Order	Bottom/Up		Phase Acquisition Order	Interleaved	<u> </u>
MR	# of Repetitions REST	0		Delay after Acquisition	Minimum	AR.
rsf	# of Repetitions ACTIVE	0		Seperate Series	0	rsf
Axial rsfMRI (Eyes Open)	SAT			Delay after Acquisition without AV	2	Axial rsfMRI (Eyes Open)
A	Tag Type	None		Mask Phase	0	A
	Fat/Water Saturation	Fat		Mask Pause	0	
	TRICKS			DIFFUSION		
	Pause On/Off	On		Recon All Images	On	
	Auto Subtract	0				
	Auto SCIC	Off		CONTRAST	.,	
	OTHERS			Contrast Yes/No	No	
	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 descritpion)				

## Protocol: adult\_other\_ADNI3BasicHumanProtocol25x\_20170209\_20170209150704300\_1

	PATIENT POSITION			IMAGING PARAMETERS		
	Patient Entry	Head First		Imaging Mode	2D	
	Patient Position	Supine		Pulse Sequence	FSE-XL	
	Coil Configuration	HD 8Ch High Res Brain Array by Invivo		Imaging Options	Fast, Asset	
	Plane	OBLIQUE		SCAN RANGE		
	Series Description	HighResHippo		FOV	17.5	
	SCAN TIMING			Slice Thickness	2.0	
	Flip Angle	122	1	Slice Spacing	Intleave	
	TE	50.0		ACQ TIMING		
	Number of Echoes	1		Freq	448	
	TR	8020.0		Phase	448	
	Echo Train Length	15		Freq DIR	S/I	
	Receiver Bandwidth	20.83		Fat Shift DIR	Normal (I)	
	IMAGE ENHANCE			NEX	1.00	
	Filter Choice	None		# of Acq. Before Pause	0	
0		None		Phase FOV	1.00	0
dd	GATING/TRIGGER			Auto Shim	Auto	dd
H.S.	Auto Trigger Type	Off		Phase Correction	Yes	F.
HighResHippo	FMRI			USER CVS		HighResHippo
ļģ.	PSD Trigger	Internal		User CV22	1.00	₽ġ
_	Slice Order	Interleaved		MULTI-PHASE		
	View Order	Bottom/Up		Seperate Series	0	
	# of Repetitions REST	0		Mask Phase	0	
	# of Repetitions ACTIVE	0		Mask Pause	0	
	SAT			DIFFUSION		
	Tag Type	None		Recon All Images	On	
	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.				