Set up the patient according to the ADNI instruction manual. Use the 8-channel brain coil.

Use the electronic ADNI protocol that has been loaded on your scanner.

## NOTE: The "adni" pulse sequence used for series 2 and 3 is a works in progress pulse sequence that ADNI sites obtain from GE Healthcare.

			IMAGING PARAMETERS		ACQUISITION TIMING
SERIES	1. 3 plane loc.	scan plane	3-plane	matrix/nex	256 / 128 / 1
coil	8hrbrain	mode	(Whole Body gradient)	fov (cm)	26
etl		SAT		slice/space	5 / 5
scan time	:16			autoshim	On
comments	Use 8-channel brain coi	l.		=	
			IMAGING PARAMETERS		ACQUISITION TIMING
SERIES	2. Sag MPRAGE	scan plane	Sag	matrix/nex	192 / 192 / 1
coil	8hrbrain	mode	3D ( ZOOM gradient)	phase fov	
	SCAN TIMING	pulse seq	SPGR	locs/pause	
#echos	1	image opts.	EDR, IrPrep, Fast	freq. direct.	S/I
te	min full	psd name	adni	fc direct	
Prep time	1000		ADDITIONAL PARAMETERS	phase corr	
flip angle	8		Filter Choices = none	autoshim	On
etl		User CVs	turbo mode = 1		SCANNING RANGE
bw1/bw2	15.63		swap fat chem shift = 1	fov	24
scan time	7:41		mprage mode = 1	slice/space	1.2mm 170 locs/slab
Court time	7		TD or mprageTR=2400	- 01100/0pa00	1.211111 17 0 1000/0140
			IMAGING PARAMETERS		ACQUISITION TIMING
SERIES	3.MPRAGE-repeat	scan plane	Sag	matrix/nex	192 / 192 / 1
coil	8hrbrain	mode	3D (ZOOM gradient)	phase fov	
	SCAN TIMING	pulse seq	SPGR	locs/pause	
#echos	1	image opts.	EDR, IrPrep, Fast	freq. direct.	S/I
te	min full	psd name	adni	fc direct	
Prep time	1000		ADDITIONAL PARAMETERS	phase corr	
flip angle	8		Filter Choices = none	autoshim	Off
etl		User CVs	turbo mode = 1		SCANNING RANGE
bw1/bw2	15.63		swap fat chem shift = 1	fov	24
scan time	7:41		mprage mode = 1	slice/space	1.2mm 170 locs/slab
			TD or mprageTR=2400		
comments	Prescribe same image I	ocations as seri	es 2, unless adjustment is	needed (e.a. ta	correct for wrap).
	Remind the patient to h			(9.9. 10	
	-				
		(Conti	nued on next page)	1	
		(33110	pago,	1	

## 1.5T ADNI GE 11.0 M4 Software, TwinSpeed Gradient and 8-channel Brain Coil **SERIES** 4. Sag B1 Cal PA scan plane matrix/nex 128 / 128 / 1 Sag 8hrbrain mode 3D (ZOOM gradient) coil phase fov SCAN TIMING pulse seq GRE locs/pause image opts. EDR, Fast freq. direct. S/I #echos min full psd name fc direct te ADDITIONAL PARAMETERS Auto Shim On tr 2 flip angle Filter Choices=none SCANNING RANGE User CVs Turbo Mode =1 30 etl fov 62.5 2.5mm bw1/bw2 slice/space locs/slab=96 scan time :39 comments Cover skin to skin. 5. Sag B1 Cal PA scan plane matrix/nex 128 / 128 / 1 **SERIES** Sag **BODY** mode 3D (ZOOM gradient) phase fov coil SCAN TIMING pulse seq **GRE** locs/pause image opts. freq. direct. S/I #echos EDR, Fast min full psd name fc direct te Auto Shim ADDITIONAL PARAMETERS Off tr flip angle 2 SCANNING RANGE User CVs Turbo Mode =1 30 etl fov 62.5 bw1/bw2 slice/space 2.5mm locs/slab=96 scan time :39 Turn Body Coil on for this scan. Leave 8hrbrain coil plugged in, but accept change to Body Coil comments Same image locations as series 4.

SERIES			IMAGING PARAMETERS		ACQUISITION TIMING
coil	6. Ax PD/T2 FSE	scan plane	Ax	matrix/nex	256 / 256 / 1
	8hrbrain	mode	2D (ZOOM gradient)	phase fov	0.9
	SCAN TIMING	pulse seq	FSE-XL	acqs/pause	0
#echoes	2	image opts.	EDR, Fast	freq. direct.	A/P
te	min full / TE2=100	psd name		fc direct	
TR	3000		ADDITIONAL PARAMETERS	Autoshim	Off
flip angle			Filter Choices=none	phase corr	
etl	16	User CVs	blurring cancellation=0		SCANNING RANGE
bw1/bw2	20.83			fov	24
scan time	6:25			slice/space	48 loc, 3mm interleaved

Prescribe 48 slices to cover head.

Series 6 is the final patient series.

Follow the ADNI instructions to complete the phantom scans.