Set up the patient according to the ADNI instruction manual.

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	HEAD	mode	(Whole Body gradient)	fov (cm)	26
etl		SAT		slice/space	5 / 5
scan time	:16			autoshim	On

comments The preferred coil is the 8-channel brain coil.
This protocol is for sites with single channel birdcage coils only.

			IMAGING PARAMETERS		*ACQUISITION TIMING*
SERIES	2. Sag MPRAGE	scan plane	Sag	matrix/nex	192 / 192 / 1
coil	HEAD	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	9:36		mprage mode = 1	slice/space	1.2mm 184 locs/slab
			TD or mprageTR=3000		

comments Cover skin to skin. Remind the patient to hold still for this scan.

			IMAGING PARAMETERS		*ACQUISITION TIMING*
SERIES	3.MPRAGE-repeat	scan plane	Sag	matrix/nex	192 / 192 / 1
coil	HEAD	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	9:36		mprage mode = 1	slice/space	1.2mm 184 locs/slab
			TD or mprageTR=3000		

comments Prescribe same image locations as series 2, unless adjustment is needed (e.g. to correct for wrap).
Remind the patient to hold still for this scan.

(Continued on next page)

1.5T ADNI GE 11.0 M4 Software, TwinSpeed Gradient and Single-Channel Birdcage Head Coil

SERIES			*IMAGING PARAMETERS*		*ACQUISITION TIMING*
coil	4. Ax PD/T2 FSE	scan plane	Ax	matrix/nex	256 / 256 / 1
	HEAD	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

comments Prescribe 48 slices to cover head.

Series 4 is the final patient series.

Follow the ADNI instructions to complete the phantom scans.