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 "adni14m4" pulse sequence used for series 2 and 3 is a works in progress pulse sequence that ADNI sites obtain from GE Healthcare.

Accept the "First Operating Mode" pop-up in Series 1. Consult the scanner's user's manual to understand this choice and its implications.

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	:13			autoshim	On			
		_		-				
comments	Use 8-channel brain coil	•						
eediee			IMAGING PARAMETERS	motrix/pox	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	0.1			
#echos	1	image opts.	EDR, IrPrep, Fast	freq. direct.	S/I			
te	min full	psd name	adni14m4	fc direct				
Prep time	1000		ADDITIONAL PARAMETERS	phase corr	-			
flip angle	8		Image acq. delay = 0	autoshim	On			
etl		User CVs	turbo mode = 1		SCANNING RANGE			
bw1/bw2	15.63		swap fat chem shift = 1	fov	24			
scan time	9:37		slice resolution = 100%	slice/space	1.2mm 184 locs/slab			
			mprage mode = 1					
			TD or mprageTR=3000					
comments	Cover skin to skin. Remi	nd the patient to	o hold still for this scan.	-				
			IMAGING PARAMETERS	motriv (nov	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	adni14m4	fc direct				
Prep time	1000	_	ADDITIONAL PARAMETERS	phase corr				
			Image acq. delay = 0					
flip angle	8		turbo mode = 1	autoshim	Off			
etl		User CVs	swap fat chem shift = 1		SCANNING RANGE			
bw1/bw2	15.63		slice resolution = 100%	fov	24			
scan time	9:37		mprage mode = 1	slice/space	1.2mm 184 locs/slab			
			· · ·					
comments	Prescribe same image locations as series 2, unless adjustment is needed (e.g. to correct for wrap).							
	Remind the patient to ho			· -	• •			
	· ·							
			/, Thickness, Spacing" bւ					
	Otherwise, if you copy the slice locations from series 2, the number of slices might be reduced.							
comments	Remind the patient to ho NOTE: Be sure to select	Id still for this s the " Copy FO	can. /, Thickness, Spacing" bu	utton for the gra	aphic prescription.			

(Continued on next page)

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				phase corr	
etl	16	User CVs	blurring cancellation=0		SCANNING RANGE
bw1/bw2	20.83		Enh. fine line suppr.=0	fov	24
scan time	6:25			slice/space	48 loc, 3mm interleaved

Prescribe 48 slices to cover head.

Series 4 is the final patient series.

Follow the ADNI instructions to complete the phantom scans.