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	:13			autoshim	On
comments	Use 8-channel brain coi	<u>.</u> I.		-	
			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		turbo mode = 1	autoshim	On
etl		User CVs	swap fat chem shift = 1		SCANNING RANGE
bw1/bw2	15.63		slice resolution = 100%	fov	24
scan time	7:42		mprage mode = 1	slice/space	1.2mm 170 locs/slab
ocarr time	7.12		TD or mprageTR=2400	olioo/opaoo	1.211111 17 0 10 00 7 0 10 0
			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		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	7:42		mprage mode = 1	slice/space	1.2mm 170 locs/slab
			TD or mprageTR=2400		
comments	Prescribe same image l	ocations as seri] needed (e.a. ta	correct for wrap)
comments			es 2, unless adjustment is r	needed (e.g. to	correct for wrap).
comments	Prescribe same image I Remind the patient to he		es 2, unless adjustment is r	needed (e.g. to	correct for wrap).
comments			es 2, unless adjustment is r	needed (e.g. to	correct for wrap).
comments			es 2, unless adjustment is r	needed (e.g. to	correct for wrap).
comments		old still for this s	es 2, unless adjustment is r	needed (e.g. to	o correct for wrap).

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 SCANNING RANGE Image acq. delay=0 User CVs 30 fov etl 62.5 2.5mm bw1/bw2 Turbo Mode =1 slice/space locs/slab=96 scan time :36 Slice resolution=100%

1.5T ADNI GE 12.0 M3 Software, TwinSpeed Gradient and 8-channel Brain Coil

comments Cover skin to skin.

SERIES	5. Sag B1 Cal PA	scan plane	Sag	matrix/nex	128 / 128 / 1
coil	BODY	mode	3D (ZOOM gradient)	phase fov	
	SCAN TIMING	pulse seq	GRE	locs/pause	
#echos	1	image opts.	EDR, Fast	freq. direct.	S/I
te	min full	psd name		fc direct	
tr			ADDITIONAL PARAMETERS	Auto Shim	Off
flip angle	2				SCANNING RANGE
etl		User CVs	Image acq. delay=0	fov	30
bw1/bw2	62.5		Turbo Mode =1	slice/space	2.5mm locs/slab=96
scan time	:36		Slice resolution=100%		

comments Turn Body Coil on for this scan. Leave 8hrbrain coil plugged in, but accept change to Body Coil 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.