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.

ERIES	1. 3 plane loc.	scan plane	3-plane	matrix/nex	256 / 128 / 1
oil	8hrbrain	mode	o piano	fov (cm)	26
tl	ombian.	SAT		slice/space	5/5
can time	:16			autoshim	On
our time	.10			datosiiiii	Oli
omments	Use 8-channel brain co	oil.			
			IMAGING PARAMETERS		ACQUISITION TIMING
ERIES	2. Sag MPRAGE	scan plane	Sag	matrix/nex	192 / 192 / 1
oil	8hrbrain	mode	3D	phase fov	
	SCAN TIMING	pulse seq	SPGR	locs/pause	
chos	1	image opts.	EDR, IrPrep, Fast	freq. direct.	S/I
	min full	psd name	adni	fc direct	
ep time	1000		ADDITIONAL PARAMETERS	phase corr	
p angle	8		Filter Choices = none	autoshim	On
:I		User CVs	turbo mode = 1		SCANNING RANGE
w1/bw2	15.63		swap fat chem shift = 1	fov	24
	7.44		mprage mode = 1	slice/space	1.2mm 170 locs/slab
can time	7:41				
can time		mind the patient to	TD or mprageTR=2400 o hold still for this scan.	J	
		mind the patient to	TD or mprageTR=2400 o hold still for this scan.	J	
omments	Cover skin to skin. Rer	·	TD or mprageTR=2400 to hold still for this scan.		ACQUISITION TIMING
omments ERIES	Cover skin to skin. Rer 3.MPRAGE-repeat	scan plane	TD or mprageTR=2400 o hold still for this scan. IMAGING PARAMETERS Sag	matrix/nex	ACQUISITION TIMING 192 / 192 / 1
mments	Cover skin to skin. Rer 3.MPRAGE-repeat 8hrbrain	scan plane	TD or mprageTR=2400 hold still for this scan. IMAGING PARAMETERS Sag 3D	matrix/nex phase fov	
mments ERIES il	Cover skin to skin. Rer 3.MPRAGE-repeat 8hrbrain SCAN TIMING	scan plane mode pulse seq	TD or mprageTR=2400 o hold still for this scan. IMAGING PARAMETERS Sag 3D SPGR	matrix/nex phase fov locs/pause	192 / 192 / 1
mments ERIES il	Cover skin to skin. Rer 3.MPRAGE-repeat 8hrbrain SCAN TIMING 1	scan plane mode pulse seq image opts.	TD or mprageTR=2400 o hold still for this scan. IMAGING PARAMETERS Sag 3D SPGR EDR, IrPrep, Fast	matrix/nex phase fov	
echos	Cover skin to skin. Rer 3.MPRAGE-repeat 8hrbrain SCAN TIMING	scan plane mode pulse seq	TD or mprageTR=2400 o hold still for this scan. IMAGING PARAMETERS Sag 3D SPGR	matrix/nex phase fov locs/pause freq. direct.	192 / 192 / 1
ERIES oil echos	Cover skin to skin. Rer 3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full	scan plane mode pulse seq image opts.	TD or mprageTR=2400 hold still for this scan. IMAGING PARAMETERS Sag 3D SPGR EDR, IrPrep, Fast adni ADDITIONAL PARAMETERS	matrix/nex phase fov locs/pause freq. direct. fc direct	192 / 192 / 1 S/I
ERIES oil echos rep time o angle	Cover skin to skin. Rer 3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 1000	scan plane mode pulse seq image opts.	TD or mprageTR=2400 o hold still for this scan. IMAGING PARAMETERS Sag 3D SPGR EDR, IrPrep, Fast adni	matrix/nex phase fov locs/pause freq. direct. fc direct phase corr	192 / 192 / 1
echos rep time o angle	3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 1000 8	scan plane mode pulse seq image opts. psd name	TD or mprageTR=2400 hold still for this scan. IMAGING PARAMETERS Sag 3D SPGR EDR, IrPrep, Fast adni ADDITIONAL PARAMETERS Filter Choices = none turbo mode = 1	matrix/nex phase fov locs/pause freq. direct. fc direct phase corr	192 / 192 / 1 S/I Off SCANNING RANGE
ep time o angle	3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 1000 8	scan plane mode pulse seq image opts. psd name	TD or mprageTR=2400 hold still for this scan. IMAGING PARAMETERS Sag 3D SPGR EDR, IrPrep, Fast adni ADDITIONAL PARAMETERS Filter Choices = none turbo mode = 1 swap fat chem shift = 1	matrix/nex phase fov locs/pause freq. direct. fc direct phase corr autoshim	192 / 192 / 1 S/I Off SCANNING RANGE 24
echos ep time o angle l v1/bw2	3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 1000 8	scan plane mode pulse seq image opts. psd name	TD or mprageTR=2400 hold still for this scan. IMAGING PARAMETERS Sag 3D SPGR EDR, IrPrep, Fast adni ADDITIONAL PARAMETERS Filter Choices = none turbo mode = 1	matrix/nex phase fov locs/pause freq. direct. fc direct phase corr autoshim	192 / 192 / 1 S/I Off SCANNING RANGE
ERIES bil echos rep time p angle I w1/bw2 can time	Cover skin to skin. Rer 3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 1000 8 15.63 7:41	scan plane mode pulse seq image opts. psd name	TD or mprageTR=2400 hold still for this scan. IMAGING PARAMETERS Sag 3D SPGR EDR, IrPrep, Fast adni ADDITIONAL PARAMETERS Filter Choices = none turbo mode = 1 swap fat chem shift = 1 mprage mode = 1 TD or mprageTR=2400	matrix/nex phase fov locs/pause freq. direct. fc direct phase corr autoshim fov slice/space	192 / 192 / 1 S/I Off SCANNING RANGE 24 1.2mm 170 locs/slab
eRIES bil echos rep time p angle l v1/bw2	3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 1000 8 15.63 7:41 Prescribe same image	scan plane mode pulse seq image opts. psd name User CVs	TD or mprageTR=2400 hold still for this scan. IMAGING PARAMETERS Sag 3D SPGR EDR, IrPrep, Fast adni ADDITIONAL PARAMETERS Filter Choices = none turbo mode = 1 swap fat chem shift = 1 mprage mode = 1 TD or mprageTR=2400 es 2, unless adjustment is	matrix/nex phase fov locs/pause freq. direct. fc direct phase corr autoshim fov slice/space	192 / 192 / 1 S/I Off SCANNING RANGE 24 1.2mm 170 locs/slab
ERIES bil echos rep time p angle I w1/bw2 can time	Cover skin to skin. Rer 3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 1000 8 15.63 7:41	scan plane mode pulse seq image opts. psd name User CVs	TD or mprageTR=2400 hold still for this scan. IMAGING PARAMETERS Sag 3D SPGR EDR, IrPrep, Fast adni ADDITIONAL PARAMETERS Filter Choices = none turbo mode = 1 swap fat chem shift = 1 mprage mode = 1 TD or mprageTR=2400 es 2, unless adjustment is	matrix/nex phase fov locs/pause freq. direct. fc direct phase corr autoshim fov slice/space	192 / 192 / 1 S/I Off SCANNING RANGE 24 1.2mm 170 locs/slab
mments ERIES il chos ep time o angle v1/bw2 an time	3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 1000 8 15.63 7:41 Prescribe same image	scan plane mode pulse seq image opts. psd name User CVs	TD or mprageTR=2400 hold still for this scan. IMAGING PARAMETERS Sag 3D SPGR EDR, IrPrep, Fast adni ADDITIONAL PARAMETERS Filter Choices = none turbo mode = 1 swap fat chem shift = 1 mprage mode = 1 TD or mprageTR=2400 es 2, unless adjustment is	matrix/nex phase fov locs/pause freq. direct. fc direct phase corr autoshim fov slice/space	192 / 192 / 1 S/I Off SCANNING RANGE 24 1.2mm 170 locs/slab

1.5T ADNI GE 11.0 M4 Software, BRM Gradient and 8-channel Brain Coil **SERIES** 4. Sag B1 Cal PA scan plane matrix/nex 128 / 128 / 1 Sag 8hrbrain coil mode 3D phase fov pulse seq GRE locs/pause SCAN TIMING 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 :41 Cover skin to skin. comments scan plane 5. Sag B1 Cal PA matrix/nex 128 / 128 / 1 **SERIES** Sag coil **BODY** mode 3D phase fov SCAN TIMING pulse seq **GRE** locs/pause #echos image opts. EDR, Fast freq. direct. S/I fc direct min full te psd name Auto Shim Off ADDITIONAL PARAMETERS flip angle 2 SCANNING RANGE User CVs Turbo Mode =1 30 fov bw1/bw2 62.5 slice/space locs/slab=96 2.5mm scan time :41 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	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.