Set up the patient according to the ADNI instruction manual. Use the transmit/receive head coi 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		fov (cm)	26
etl		SAT		slice/space	5 / 5
scan time	:19			autoshim	On
comments	Use the birdcage head	coil			
			IMAGING PARAMETERS		ACQUISITION TIMING
SERIES	2. Sag MPRAGE	scan plane	Sag	matrix/nex	256 / 256 / 1
coil	head	mode	3D	phase fov	0.94
	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	900	-	ADDITIONAL PARAMETERS	phase corr	
flip angle	8	User CVs	Inv. Pulse = 1 Adiabatic	autoshim	On
etl			swap fat chem shift = 1		SCANNING RANGE
bw1/bw2	31.25		mprage mode =1	fov	26
scan time	9:14		TD or mprageTR=2300	slice/space	1.2mm 170 locs/slab
	-				
			IMAGING PARAMETERS		ACQUISITION TIMING
SERIES	3.MPRAGE-repeat	scan plane	IMAGING PARAMETERS Sag	matrix/nex	ACQUISITION TIMING [256 / 256 / 1
	3.MPRAGE-repeat head	scan plane mode		matrix/nex phase fov	
		•	Sag		256 / 256 / 1
coil	head	mode	Sag 3D	phase fov	256 / 256 / 1
coil #echos	head SCAN TIMING	mode pulse seq	Sag 3D SPGR	phase fov locs/pause	256 / 256 / 1 0.94
coil #echos	head  SCAN TIMING  1	mode pulse seq image opts.	Sag 3D SPGR EDR, IrPrep, Fast	phase fov locs/pause freq. direct.	256 / 256 / 1 0.94
coil #echos te Prep time	head  SCAN TIMING  1 min full	mode pulse seq image opts.	Sag 3D SPGR EDR, IrPrep, Fast adni	phase fov locs/pause freq. direct. fc direct	256 / 256 / 1 0.94
coil #echos te Prep time flip angle	head  SCAN TIMING  1 min full 900	mode pulse seq image opts. psd name	Sag 3D SPGR EDR, IrPrep, Fast adni ADDITIONAL PARAMETERS	phase fov locs/pause freq. direct. fc direct phase corr	256 / 256 / 1 0.94 S/I
coil #echos te Prep time flip angle etl	head  SCAN TIMING  1 min full 900	mode pulse seq image opts. psd name	Sag 3D SPGR EDR, IrPrep, Fast adni  ADDITIONAL PARAMETERS Inv. Pulse = 1 Adiabatic	phase fov locs/pause freq. direct. fc direct phase corr	256 / 256 / 1 0.94 S/I
SERIES coil  #echos te Prep time flip angle	head  SCAN TIMING  1 min full 900	mode pulse seq image opts. psd name	Sag 3D SPGR EDR, IrPrep, Fast adni  ADDITIONAL PARAMETERS Inv. Pulse = 1 Adiabatic	phase fov locs/pause freq. direct. fc direct phase corr	256 / 256 / 1 0.94 S/I
coil #echos te Prep time	head  SCAN TIMING  1 min full 900 8	mode pulse seq image opts. psd name	Sag 3D SPGR EDR, IrPrep, Fast adni  ADDITIONAL PARAMETERS Inv. Pulse = 1 Adiabatic swap fat chem shift = 1	phase fov locs/pause freq. direct. fc direct phase corr autoshim	256 / 256 / 1 0.94 S/I Off SCANNING RANGE
#echos te Prep time flip angle etl bw1/bw2 scan time	head  SCAN TIMING  1 min full 900 8 31.25 9:14  Prescribe same image	mode pulse seq image opts. psd name User CVs	Sag 3D SPGR EDR, IrPrep, Fast adni  ADDITIONAL PARAMETERS Inv. Pulse = 1 Adiabatic swap fat chem shift = 1 mprage mode =1 TD or mprageTR=2300 es 2, unless adjustment is r	phase fov locs/pause freq. direct. fc direct phase corr autoshim fov slice/space	256 / 256 / 1 0.94  S/I  Off  SCANNING RANGE  26 1.2mm 170 locs/slat
#echos te Prep time flip angle etl bw1/bw2	head  SCAN TIMING  1 min full 900 8 31.25 9:14	mode pulse seq image opts. psd name User CVs	Sag 3D SPGR EDR, IrPrep, Fast adni  ADDITIONAL PARAMETERS Inv. Pulse = 1 Adiabatic swap fat chem shift = 1 mprage mode =1 TD or mprageTR=2300 es 2, unless adjustment is r	phase fov locs/pause freq. direct. fc direct phase corr autoshim fov slice/space	256 / 256 / 1 0.94  S/I  Off  SCANNING RANGE  26 1.2mm 170 locs/slab
#echos te Prep time flip angle etl bw1/bw2 scan time	head  SCAN TIMING  1 min full 900 8 31.25 9:14  Prescribe same image	mode pulse seq image opts. psd name User CVs	Sag 3D SPGR EDR, IrPrep, Fast adni  ADDITIONAL PARAMETERS Inv. Pulse = 1 Adiabatic swap fat chem shift = 1 mprage mode =1 TD or mprageTR=2300 es 2, unless adjustment is r	phase fov locs/pause freq. direct. fc direct phase corr autoshim fov slice/space	256 / 256 / 1 0.94  S/I  Off  SCANNING RANGE  26 1.2mm 170 locs/slab
#echos te Prep time flip angle etl bw1/bw2 scan time	head  SCAN TIMING  1 min full 900 8 31.25 9:14  Prescribe same image	mode pulse seq image opts. psd name User CVs	Sag 3D SPGR EDR, IrPrep, Fast adni  ADDITIONAL PARAMETERS Inv. Pulse = 1 Adiabatic swap fat chem shift = 1 mprage mode =1 TD or mprageTR=2300 es 2, unless adjustment is r	phase fov locs/pause freq. direct. fc direct phase corr autoshim fov slice/space	256 / 256 / 1 0.94  S/I  Off  SCANNING RANGE  26 1.2mm 170 locs/slab
#echos te Prep time flip angle etl bw1/bw2 scan time	head  SCAN TIMING  1 min full 900 8 31.25 9:14  Prescribe same image	mode pulse seq image opts. psd name User CVs	Sag 3D SPGR EDR, IrPrep, Fast adni  ADDITIONAL PARAMETERS Inv. Pulse = 1 Adiabatic swap fat chem shift = 1 mprage mode =1 TD or mprageTR=2300 es 2, unless adjustment is r	phase fov locs/pause freq. direct. fc direct phase corr autoshim fov slice/space	256 / 256 / 1 0.94  S/I  Off  SCANNING RANGE  26 1.2mm 170 locs/slab

## 3.0T ADNI GE VH3 M4 Software, CRM Gradient and a 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	phase fov	0.75
	SCAN TIMING	pulse seq	FSE-XL	acqs/pause	0
#echoes	2	image opts.	EDR, Fast	freq. direct.	A/P
te	min full / TE2 = 98.2	psd name		fc direct	
TR	4000		ADDITIONAL PARAMETERS	Autoshim	OFF
flip angle				phase corr	
etl	16	User CVs	Flip Angle = 150.		SCANNING RANGE
bw1/bw2	20.83			fov	24
scan time	6:55			slice/space	44 loc, 3mm interleaved
		<del></del>		_	
comments	Prescribe 44 slices to c	over head.			

Series 4 is the final patient series.

Follow the ADNI instructions to complete the phantom scans.