

Set up the patient according to the ADNI instruction manual. Use the transmit/receive head 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.**

<b>SERIES</b>	1. 3 plane loc.	scan plane mode SAT	<i>IMAGING PARAMETERS</i>		<i>ACQUISITION TIMING</i>	
	coil head		3-plane	matrix/nex	256 / 128 / 1	
	etl			fov (cm)	26	
	scan time			slice/space	5 / 5	
			autoshim	On		
comments	Use the birdcage head coil					

<b>SERIES</b>	2. Sag MPRAGE	scan plane mode pulse seq image opts. psd name	<i>IMAGING PARAMETERS</i>		<i>ACQUISITION TIMING</i>		
	coil head		Sag	matrix/nex	256 / 256 / 1		
	#echos		3D	phase fov	0.94		
	te		SPGR	locs/pause			
Prep time	<i>SCAN TIMING</i>	EDR, IrPrep, Fast	freq. direct.	S/I			
flip angle	1	adni	fc direct				
etl	min full	<i>ADDITIONAL PARAMETERS</i>	phase corr				
bw1/bw2	900		autoshim	On			
scan time	8		Inv. Pulse = 1 Adiabatic				
	31.25		swap fat chem shift = 1				
	9:14	mprage mode = 1	fov	26	<i>SCANNING RANGE</i>		
		TD or mprageTR=2300	slice/space	1.2mm 170 locs/slab			
comments	Cover skin to skin. Remind the patient to hold still for this scan.						

<b>SERIES</b>	3.MPRAGE-repeat	scan plane mode pulse seq image opts. psd name	<i>IMAGING PARAMETERS</i>		<i>ACQUISITION TIMING</i>		
	coil head		Sag	matrix/nex	256 / 256 / 1		
	#echos		3D	phase fov	0.94		
	te		SPGR	locs/pause			
Prep time	<i>SCAN TIMING</i>	EDR, IrPrep, Fast	freq. direct.	S/I			
flip angle	1	adni	fc direct				
etl	min full	<i>ADDITIONAL PARAMETERS</i>	phase corr				
bw1/bw2	900		autoshim	Off			
scan time	8		Inv. Pulse = 1 Adiabatic				
	31.25		swap fat chem shift = 1				
	9:14	mprage mode = 1	fov	26	<i>SCANNING RANGE</i>		
		TD or mprageTR=2300	slice/space	1.2mm 170 locs/slab			
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.						

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### 3.0T ADNI GE VH3 M4 Software, CRM Gradient and a Single-Channel Birdcage Head Coil

**SERIES**

coil	4. Ax PD/T2 FSE head	scan plane mode	Ax 2D	matrix/nex	256 / 256 / 1
	<i>SCAN TIMING</i>	pulse seq	FSE-XL	phase fov	0.75
#echoes	2	image opts.	EDR, Fast	acqs/pause	0
te	min full / TE2 = 98.2	psd name		freq. direct.	A/P
TR	4000		<i>ADDITIONAL PARAMETERS</i>	fc direct	
flip angle		User CVs	Flip Angle = 150.	Autoshim	OFF
etl	16			phase corr	
bw1/bw2	20.83				<i>SCANNING RANGE</i>
scan time	6:55			fov	24
				slice/space	44 loc, 3mm interleaved

comments Prescribe 44 slices to cover head.

**Series 4 is the final patient series.**

**Follow the ADNI instructions to complete the phantom scans.**