

1.5T ADNI GE 9.1 M4 Software, BRM Gradient and a Single-Channel Birdcage Head Coil

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.

SERIES	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	
	:19		autoshim	On		
comments	Use the birdcage head coil					

SERIES	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	192 / 192 / 1	
	#echos		3D	phase fov		
	te		SPGR	locs/pause	S/I	
Prep time	1	EDR, IrPrep, Fast	freq. direct.			
flip angle	min full	adni	fc direct			
etl	1000	<i>ADDITIONAL PARAMETERS</i>	phase corr			
bw1/bw2	8		autoshim	On		
scan time	15.63		fov	24		
	9:36		slice/space	1.2mm 184 locs/slab		
comments	Cover skin to skin. Remind the patient to hold still for this scan.					

SERIES	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	192 / 192 / 1	
	#echos		3D	phase fov		
	te		SPGR	locs/pause	S/I	
Prep time	1	EDR, IrPrep, Fast	freq. direct.			
flip angle	min full	adni	fc direct			
etl	1000	<i>ADDITIONAL PARAMETERS</i>	phase corr			
bw1/bw2	8		autoshim	Off		
scan time	15.63		fov	24		
	9:36		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 hold still for this scan.					

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SERIES

			<i>IMAGING PARAMETERS</i>		<i>ACQUISITION TIMING</i>
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	1.0
#echoes	2	image opts.	EDR, Fast	acqs/pause	0
te	min full / TE2=100	psd name		freq. direct.	A/P
TR	3000		<i>ADDITIONAL PARAMETERS</i>	fc direct	
flip angle		User CVs		Autoshim	OFF
etl	16			phase corr	
bw1/bw2	20.83				<i>SCANNING RANGE</i>
scan time	5:07			fov	24
				slice/space	48 loc, 3mm interleaved

comments Prescribe 48 slices to cover head.

Series 4 is the final patient series.

Follow the ADNI instructions to complete the phantom scans.