

1.5T ADNI-Related GE 14.0 M4 Software, TwinSpeed Gradient and 8-channel Brain Coil
(Not for patient use--this protocol is for use with the ADNI phantom)

This protocol provides suggested imaging parameters for research studies that want to approximate the imaging methods used in the ADNI study using 14.0 M4 HDx software, but do not have access to an MP-RAGE pulse sequence. For more details see the document: "Use of ADNI MRI Methods for Non-ADNI Studies"

Accept the "First Operating Mode" pop-up in Series 1. Consult the scanner's user's manual to understand this choice and its implications.

*The head portion of the 16-channel head-neck-spine (HNS) can be used instead of the 8-channel brain coil for the entire study, if desired.

SERIES	1. 3 plane loc.	scan plane	3-plane	matrix/nex	256 / 128 / 1
coil	8hrbrain*	modes	(Whole Body gradient)	fov (cm)	26
etl			Calib.	slice/space	5 / 5
scan time	:13	pulse seq	Gradient Echo	autoshim	On
comments	Use 8-channel brain coil. Center at A25.				

SERIES	2. Calibration Scan.	scan plane	axial	matrix/nex	default
coil	8hrbrain*	mode	(Whole Body gradient)	fov (cm)	30
etl		SAT		slice/space	6/0 43 slices
scan time	:13			autoshim	off
comments	Used for PURE B1-correction. Be sure to cover phantom completely				

SERIES	3. Sag IR-FSPGR	scan plane	Sag	matrix/nex	192 / 192 / 1
coil	8hrbrain*	mode	3D (ZOOM gradient)	phase fov	
	<i>SCAN TIMING</i>	pulse seq	SPGR	locs/pause	
#echos	1	image opts.	EDR, IrPrep, Fast	freq. direct.	S/I
te	min full	psd name	efgre3d_cs	fc direct	
Prep time	600		<i>ADDITIONAL PARAMETERS</i>	phase corr	
flip angle	8	User CVs	Image acq. delay = 0	autoshim	On
etl			turbo mode = 1		<i>SCANNING RANGE</i>
bw1/bw2	15.63		slice resolution = 100%	fov	24
scan time	8:33	PURE		slice/space	1.3mm 170 locs/slab
comments					