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.

SERIES			IMAGING PARAMETERS		ACQUISITION TIMING
SERIES	1. 3 plane loc.	scan plane	3-plane	matrix/nex	256 / 128 / 1
coil	8hrbrain	mode		fov (cm)	26
etl		SAT		slice/space	5/5
scan time	:16			autoshim	On
comments	Use 8-channel brain co	il.		-	
			IMAGING PARAMETERS		ACQUISITION TIMING
SERIES	2. Sag MPRAGE	scan plane	Sag	matrix/nex	256 / 256 / 1
oil	8hrbrain	mode	3D	phase fov	0.94
	SCAN TIMING	pulse seq	SPGR	locs/pause	
echos	1	image opts.	EDR, IrPrep, Fast	freq. direct.	S/I
Э	min full	psd name	adni	fc direct	
rep time	900	-	ADDITIONAL PARAMETERS	phase corr	
ip angle	8		Filter Choices = none	autoshim	On
etl		User CVs	turbo mode = 1		SCANNING RANGE
w1/bw2	31.25		swap fat chem shift = 1	fov	26
can time	9:14		mprage mode = 1	slice/space	1.2mm 170 locs/slab
			TD or mprageTR=2300		
comments	COVOL CHILL TO CHILL THOSE	ind the patient t	o hold still for this scan.		
		mid the patient t	IMAGING PARAMETERS		ACQUISITION TIMING
	3.MPRAGE-repeat	scan plane		matrix/nex	ACQUISITION TIMING 256 / 256 / 1
SERIES		·	IMAGING PARAMETERS	matrix/nex phase fov	
ERIES	3.MPRAGE-repeat	scan plane	IMAGING PARAMETERS Sag		256 / 256 / 1
SERIES oil	3.MPRAGE-repeat 8hrbrain	scan plane mode	IMAGING PARAMETERS Sag 3D	phase fov	256 / 256 / 1
SERIES oil echos	3.MPRAGE-repeat 8hrbrain SCAN TIMING	scan plane mode pulse seq	IMAGING PARAMETERS Sag 3D SPGR	phase fov locs/pause	256 / 256 / 1 0.94
SERIES oil echos	3.MPRAGE-repeat 8hrbrain SCAN TIMING 1	scan plane mode pulse seq image opts.	IMAGING PARAMETERS Sag 3D SPGR EDR, IrPrep, Fast	phase fov locs/pause freq. direct.	256 / 256 / 1 0.94
SERIES oil echos e	3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full	scan plane mode pulse seq image opts.	IMAGING PARAMETERS Sag 3D SPGR EDR, IrPrep, Fast adni	phase fov locs/pause freq. direct. fc direct	256 / 256 / 1 0.94
SERIES oil sechos e Prep time ip angle	3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 900	scan plane mode pulse seq image opts.	IMAGING PARAMETERS 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
SERIES oil echos e Prep time ip angle tl	3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 900	scan plane mode pulse seq image opts. psd name	IMAGING PARAMETERS Sag 3D SPGR EDR, IrPrep, Fast adni ADDITIONAL PARAMETERS Filter Choices = none turbo mode = 1	phase fov locs/pause freq. direct. fc direct phase corr	256 / 256 / 1 0.94 S/I
SERIES oil echos erep time ip angle tl w1/bw2	3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 900 8	scan plane mode pulse seq image opts. psd name	Sag 3D SPGR EDR, IrPrep, Fast adni ADDITIONAL PARAMETERS Filter Choices = none turbo mode = 1 swap fat chem shift = 1	phase fov locs/pause freq. direct. fc direct phase corr autoshim	256 / 256 / 1 0.94 S/I Off
SERIES oil echos e rep time ip angle tl w1/bw2	3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 900 8	scan plane mode pulse seq image opts. psd name	IMAGING PARAMETERS Sag 3D SPGR EDR, IrPrep, Fast adni ADDITIONAL PARAMETERS Filter Choices = none turbo mode = 1	phase fov locs/pause freq. direct. fc direct phase corr autoshim	256 / 256 / 1 0.94 S/I Off SCANNING RANGE
SERIES coil fechos e Prep time ip angle outl ow1/bw2 can time	3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 900 8 31.25 9:14	scan plane mode pulse seq image opts. psd name	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=2300	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
SERIES coil dechos e Prep time lip angle etl ow1/bw2 scan time comments	3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 900 8 31.25 9:14	scan plane mode pulse seq image opts. psd name User CVs	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=2300 es 2, unless adjustment is i	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
SERIES coil fechos e Prep time ip angle outl ow1/bw2 can time	3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 900 8 31.25 9:14 Prescribe same image	scan plane mode pulse seq image opts. psd name User CVs	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=2300 es 2, unless adjustment is i	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
SERIES oil sechos e Prep time ip angle ttl ow1/bw2 can time	3.MPRAGE-repeat 8hrbrain SCAN TIMING 1 min full 900 8 31.25 9:14 Prescribe same image	scan plane mode pulse seq image opts. psd name User CVs	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=2300 es 2, unless adjustment is i	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

3T ADNI GE E2 M4 Software, CRM 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 2.5mm bw1/bw2 62.5 slice/space locs/slab=96 scan time :41 comments Cover skin to skin. 5. Sag B1 Cal PA matrix/nex 128 / 128 / 1 **SERIES** scan plane Sag **BODY** mode 3D phase fov coil SCAN TIMING pulse seq **GRE** locs/pause image opts. freq. direct. S/I #echos EDR, Fast min full psd name fc direct te Auto Shim ADDITIONAL PARAMETERS Off tr flip angle 2 SCANNING RANGE User CVs Turbo Mode =1 30 fov etl 62.5 bw1/bw2 slice/space 2.5mm locs/slab=96 :41 scan time 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 ACQUISITION TIMING** IMAGING PARAMETERS coil 6. Ax PD/T2 FSE scan plane Ax matrix/nex 256 / 256 / 1 8hrbrain mode 2D phase fov 0.9 FSE-XL pulse seq acqs/pause SCAN TIMING 0 #echoes image opts. EDR, Fast freq. direct. A/P min full / TE2=98.2 fc direct te psd name ADDITIONAL PARAMETERS TR 3000 Autoshim Off flip angle Filter Choices=none phase corr User CVs

blurring cancellation=0

comments

bw1/bw2

scan time

etl

Accept change back to 8-channel Brain Coil

Prescribe 44 slices to cover head.

Series 6 is the final patient series.

16

20.83

4:49

Follow the ADNI instructions to complete the phantom scans.

SCANNING RANGE

44 loc, 3mm interleaved

24

fov

slice/space