ADNI , ADNI_QH , SURVEY

Geometry		
Coil selection	=	Head
connection	=	d
Multi coil	=	no
Homogeneity correction	=	none
FOV (mm)	=	250.00
RFOV (%)	=	100.00
Foldover suppression	=	no
Matrix scan	=	256
reconstruction	=	256
Scan percentage (%)	=	50.00
SENSE	=	no
Stacks	=	3
current	=	A
type	=	parallel
slices	=	3
slice thickness (mm)	=	10 00
slice gap	_	user defined
gap (mm)	_	10 00
slice orientation	_	sagittal
foldover direction	_	AD
fat shift direction	_	R
	_	none
Slice geometry	_	dofault
Stice Scall Older	_	aggerd
Move table per stack	_	ascenu
Stack alignment	_	no
Stack allymment	_	110
Dianalian	=	110
	=	0
RESI SIADS	=	0
Catheter tracking	=	no
Interactive positioning	=	no
Allow table movement	=	no
Patient position	=	nead iirst
orientation	=	supine
Contrast		
Scan mode	=	M2D
technique	=	FFE
Contrast enhancement	=	T1
Acquisition mode	=	cartesian
Fast Imaging mode	=	TFE
shot mode	=	multi-shot
TFE factor	=	42
startup echoes	=	default
shot interval	=	shortest
profile order	=	linear
Echoes	=	1
partial echo	=	no
shifted echo	=	no
TE	=	shortest
Flip angle (deg)	=	20.00
TR	=	user defined
(ms)	=	15.00
Half Scan	=	no

Water fat shift = maximum Shim = no SPIR = no = no SPAIR TFE prepulse = invert slice selection = no shared = no delay = shortest = no ProSet MTC = no T2prep = no Research prepulse diffusion mode = no = no = high = default = regular = nc SAR mode B1 mode gradient mode SofTone mode = no Motion Cardiac synchronisation = no Respiratory compensation = no Navigator respiratory comp = no Flow compensation = no fMRI echo stabilisation = no NSA = 1 Dyn/ang Angio = no Quantitative flow = no = no Manual start Dynamic study = no Flow labelling = none Postproc Preparation phases = auto B0 field map = no MIP/MPR = no 0: M no no no = MImages Autoview image Reference tissue Reference tissue = White matter Preset window contrast = soft Reconstruction mode = immediate = no Save raw data Push to workstation = no Hardcopy protocol = no Ringing filtering = no Offc/ang = 3 Stacks current = A Stack Offc. AP (P=+mm) FH (H=+mm) = 0.00 Ang. AP (deg) = 0.00 RL (deg) = 0.00= 0.00 FH (deg)

Info SAR (W/kg) / SAR level = 0.3 / 0 Total scan duration = 00:17.4 Measured voxel size M / P / S (mm) = 0.98 / 1.98 / 10.0 Reconstructed voxel size M / P / S (mm) = 0.98 / 0.98 / 10.0 Actual scan percentage (%) = 49.2 TFE shots = 3 TFE shot duration (ms) / TFE acq duration (ms) = 697.1 / 630.0 TFE shot interval (ms) = 697.1 Minimum prepulse TI delay = 372.8 Act. Water fat shift (pixels) / Act. BW per pixel (Hz) = 1.161 / 187.1 Min. Water fat shift (pixels) / Max. BW per pixel (Hz) = 0.522 / 415.8 Act. TR / TE (ms) = 15 / 5.2 Min. TR / TE (ms) = 10 / 5.2 Relative signal level RSL (%) = 100.0 ADNI , ADNI_QH , MPRAGE

Geollietty	
Coil selection	= Head
connection	= d
Homogeneity correction	= none
FOV (mm)	= 240.00
RFOV (%)	= 100.00
Foldover suppression	= no
Matrix scan	= 192
reconstruction	= 256
Scan percentage (%)	= 100.00
SENSE	= no
Overcontiguous slices	= no
Stacks	= 1
slices	= 184
slice thickness (mm)	= 1.20
slice orientation	= sagittal
foldover direction	= AP
fat shift direction	= F
use geometry	= none
Chunks	= 1
PlanAlion	$=$ n_0
	- 0
Cathotor tracking	= 0 = no
Interpative positioning	= 110 = no
Allow table metemont	= 110 = no
Dationt pogition	- 110 - bood first
Patient position	= fiead first
orientation	= supine
Contract	
Contrast Scan mode	- 2D
	- 3D
Certurat anhancement	= FFE _ m1
Contrast enhancement	
Requisition mode	= Cartesian
Fast imaging mode	= 16F
	and the standard standards
	= multi-shot
TFE factor	= multi-shot = 192
TFE factor startup echoes	= multi-shot = 192 = default
TFE factor startup echoes shot interval	= multi-shot = 192 = default = user defined
TFE factor startup echoes shot interval (ms)	<pre>= multi-shot = 192 = default = user defined = 2300.00</pre>
TFE factor startup echoes shot interval (ms) profile order	= multi-shot = 192 = default = user defined = 2300.00 = linear
TFE factor startup echoes shot interval (ms) profile order turbo direction	<pre>= multi-shot = 192 = default = user defined = 2300.00 = linear = Y</pre>
TFE factor startup echoes shot interval (ms) profile order turbo direction Echoes	<pre>= multi-shot = 192 = default = user defined = 2300.00 = linear = Y = 1</pre>
TFE factor startup echoes shot interval (ms) profile order turbo direction Echoes partial echo	<pre>= multi-shot = 192 = default = user defined = 2300.00 = linear = Y = 1 = no</pre>
TFE factor startup echoes shot interval (ms) profile order turbo direction Echoes partial echo shifted echo	<pre>= multi-shot = 192 = default = user defined = 2300.00 = linear = Y = 1 = no = no</pre>
TFE factor startup echoes shot interval (ms) profile order turbo direction Echoes partial echo shifted echo TE	<pre>= multi-shot = 192 = default = user defined = 2300.00 = linear = Y = 1 = no = no = user defined</pre>
TFE factor startup echoes shot interval (ms) profile order turbo direction Echoes partial echo shifted echo TE (ms)	<pre>= multi-shot = 192 = default = user defined = 2300.00 = linear = Y = 1 = no = no = user defined = 4.00</pre>
TFE factor startup echoes shot interval (ms) profile order turbo direction Echoes partial echo shifted echo TE (ms) Flip angle (deg)	<pre>= multi-shot = 192 = default = user defined = 2300.00 = linear = Y = 1 = no = no = user defined = 4.00 = 8.00</pre>
TFE factor startup echoes shot interval (ms) profile order turbo direction Echoes partial echo shifted echo TE (ms) Flip angle (deg) TR	<pre>= multi-shot = 192 = default = user defined = 2300.00 = linear = Y = 1 = no = no = user defined = 4.00 = 8.00 = shortest</pre>
TFE factor startup echoes shot interval (ms) profile order turbo direction Echoes partial echo shifted echo TE (ms) Flip angle (deg) TR Half Scan	<pre>= multi-shot = 192 = default = user defined = 2300.00 = linear = Y = 1 = no = no = user defined = 4.00 = 8.00 = shortest = no</pre>
TFE factor startup echoes shot interval (ms) profile order turbo direction Echoes partial echo shifted echo TE (ms) Flip angle (deg) TR Half Scan Water fat shift	<pre>= multi-shot = 192 = default = user defined = 2300.00 = linear = Y = 1 = no = no = user defined = 4.00 = 8.00 = shortest = no = maximum</pre>
TFE factor startup echoes shot interval (ms) profile order turbo direction Echoes partial echo shifted echo TE (ms) Flip angle (deg) TR Half Scan Water fat shift Shim	<pre>= multi-shot = 192 = default = user defined = 2300.00 = linear = Y = 1 = no = no = user defined = 4.00 = 8.00 = shortest = no = maximum = no</pre>
TFE factor startup echoes shot interval (ms) profile order turbo direction Echoes partial echo shifted echo TE (ms) Flip angle (deg) TR Half Scan Water fat shift SPIR	<pre>= multi-shot = 192 = default = user defined = 2300.00 = linear = Y = 1 = no = no = user defined = 4.00 = 8.00 = shortest = no = maximum = no = no</pre>
TFE factor startup echoes shot interval (ms) profile order turbo direction Echoes partial echo shifted echo TE (ms) Flip angle (deg) TR Half Scan Water fat shift Shim SPIR SPAIR	<pre>= multi-shot = 192 = default = user defined = 2300.00 = linear = Y = 1 = no = no = user defined = 4.00 = 8.00 = shortest = no = maximum = no = no = no = no</pre>
TFE factor startup echoes shot interval (ms) profile order turbo direction Echoes partial echo shifted echo TE (ms) Flip angle (deg) TR Half Scan Water fat shift Shim SPIR SPAIR TFE prepulse	<pre>= multi-shot = 192 = default = user defined = 2300.00 = linear = Y = 1 = no = no = user defined = 4.00 = 8.00 = shortest = no = maximum = no = no = no = no = no = no = no = no</pre>

slice selection = no = user defined delay = 1000.00(ms) ProSet = no MTC = no T2prep = no Research prepulse = no diffusion mode = no SAR mode = high B1 mode = default = default gradient mode SofTone mode = no Motion Cardiac synchronisation = no Respiratory compensation = no Navigator respiratory comp = no Flow compensation = no fMRI echo stabilisation = no NSA = 1 Dyn/ang Angio = no Quantitative flow = no Manual start = no Dynamic study = no Flow labelling = none Postproc Preparation phases = auto B0 field map = no MIP/MPR = no Images = 0: M no no no Autoview image = M Reference tissue = White matter Preset window contrast = soft Reconstruction mode = immediate Save raw data = no Push to workstation = no Hardcopy protocol = no Ringing filtering = yes Offc/ang Stacks = 1 = 0.00 Stack Offc. AP (P=+mm) RL (L=+mm) = 0.00 FH (H=+mm) = 0.00 Ang. AP (deg) = 0.00 = 0.00 RL (deg) FH (deg) = 0.00 Info = 0.1 / 0= 09:04.6 SAR (W/kq) / SAR level Total scan duration Measured voxel size M / P / S (mm) = 1.25 / 1.25 / 1.20Reconstructed voxel size M / P / S (mm) = 0.94 / 0.94 / 1.20 Actual scan percentage (%) = 100.0 TFE shots = 236 TFE shot duration (ms) / TFE acq duration (ms) = 1833.9 / 1654.7 Minimum prepulse TI delay = 864.3 Act. Water fat shift (pixels) / Act. BW per pixel (Hz) = 1.323 / 164.2 Min. Water fat shift (pixels) / Max. BW per pixel (Hz) = 0.208 / 1041.7 Act. TR / TE (ms) = 8.6 / 4.0Min. TR / TE (ms) = 8.6 / 3.0Relative signal level RSL (%) = 100.0

ADNI , ADNI_QH , Double_TSE Geometry Coil selection = Head connection = d Homogeneity correction = none FOV (mm) = 240.00= 88.00 RFOV (%) Foldover suppression = no Matrix scan = 256 = 256 reconstruction Scan percentage (%) = 100.00SENSE = no Stacks = 1 = parallel type slices = 48 slice thickness (mm) = 3.00 = user defined slice gap = 0.00 gap (mm) slice orientation = transverse foldover direction = RL fat shift direction = P use geometry = none Minimum number of packages = 1 Slice scan order = default PlanAliqn = no REST slabs = 0 Catheter tracking = no Interactive positioning = no Allow table movement = no = head first Patient position orientation = supine Contrast = MS Scan mode technique = SE = no Modified SE Acquisition mode = cartesian = TSE Fast Imaging mode TSE factor = 10 startup echoes = 0 = default profile orders = no DRIVE ultrashort = no Echoes = 2 partial echo = no TE first = user defined = 12.00 (ms) second (ms) = 96.00 = 90.00 Flip angle (deg) Refocusing control = no = user defined TR (ms) = 3000.00 Half Scan = no Water fat shift = maximum Shim = no

SPIR = no SPAIR = no BB pulse = no ProSet = no MTC = no Research prepulse = no Zoom imaging = no diffusion mode = no SAR mode = low = default = regular B1 mode gradient mode SofTone mode = no Motion Cardiac synchronisation = no Respiratory compensation = no Navigator respiratory comp = no Flow compensation = no Temporal slice spacing = default NSA = 1 Dyn/ang Manual start = no Dynamic study = no Flow labelling = none Postproc Preparation phases = auto B0 field map = no MIP/MPR = no Images = 0: M no no no Autoview image = M .ated images 0: no no no no 'o = White matter Calculated images Reference tissue Preset window contrast = soft Reconstruction mode = immediate Save raw data = no Push to workstation = no Hardcopy protocol = no Offc/ang Stacks = 1 = 0.00 Stack Offc. AP (P=+mm) = 0.00 RL (L=+mm) FH (H=+mm) = 0.00 Ang. AP (deg) = 0.00 RL (deg) = 0.00 FH (deg) = 0.00 Info SAR (W/kg) / SAR level = 1.1 / 0 Total scan duration = 06:45.0 Measured voxel size M / P / S (mm) = 0.94 / 0.95 / 3.00 Reconstructed voxel size $\,$ M / P / S (mm) = 0.94 / 0.94 / 3.00 $\,$ Actual scan percentage (%) = 98.2

Number of packages = 3 Minimum slice gap = 3.00 Optimal number of slices = 42 Maximum number of slices = 63 Water fat shift (pixels) / BW per pixel (Hz) = 1.323 / 164.1 TSE echo spacing / shot duration (ms) = 12.0 / 120 Min. TR (ms) = 2201 Relative signal level RSL (%) = 100.0