ADNI ,   ADNI_3T ,   SURVEY

Geometry
Coil selection = SENSE-head
element selection = SENSE
connection = d
Multi coil = no
Dual connector = no
Homogeneity correction = none
CLEAR = no
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 = AP
fat shift direction = F
use geometry = none
Slice scan order = default
Stack scan order = ascend
Move table per stack = no
Stack alignment = no
Stack display order = no
PlanAlign = no
REST slabs = 0
Catheter tracking = no
Interactive positioning = no
Allow table movement = no
Patient position = head first
orientation = supine

Contrast
Scan mode = M2D
technique = FFE
Contrast enhancement = T1
Acquisition mode = cartesian
Fast Imaging mode = TFE
shot mode = multi-shot
TFE factor = 64
startup echoes = default
shot interval = shortest
profile order = linear
randomized shots = no
Echoes = 1
partial echo = yes
shifted echo = no
TE = in-phase

```
    (ms)                    = 4.61
Flip angle (deg)            = 15.00
TR                          = shortest
Half Scan                   = no
Water fat shift             = user defined
     (pixels)               = 3.500
Shim                        = no
SPIR                        = no
SPAIR                       = no
TFE prepulse                = invert
    slice selection         = no
    shared                  = no
    delay                   = user defined
        (ms)                = 800.00
ProSet                      = no
MTC                         = no
T2prep                      = no
Research prepulse           = no
diffusion mode              = no
SAR mode                    = high
B1 mode                     = default
PNS mode                    = low
gradient mode               = regular
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            = Grey matter
Preset window contrast      = soft
Reconstruction mode         = real time
Save raw data               = no
Push to workstation         = no
Hardcopy protocol           = no
Ringing filtering           = yes

Offc/ang
Stacks                      = 3
```

```
    current                 = A
Stack Offc. AP (P=+mm)      = -20.00
            RL (L=+mm)      = 0.00
            FH (H=+mm)      = 20.00
      Ang.  AP (deg)        = 0.00
            RL (deg)        = 0.00
            FH (deg)        = 0.00

Info
SAR (W/kg) / (level)        = <0.3 / 0
PNS (%) / (level)           = 16 % / normal
Total scan duration         = 00:31.5
Act. TR/TE (ms)             = 11 / 4.6
ACQ voxel MPS (mm)          = 0.98 / 1.95 / 10.0
REC voxel MPS (mm)          = 0.98 / 0.98 / 10.0
Scan percentage (%)         = 50.0
TFE shots                   = 2
TFE dur. shot / acq (ms)    = 1166.4 / 712.6
TFE shot interval (ms)      = 1166.4
Min. TI delay               = 402.8
Act. WFS (pix) / BW (Hz)    = 3.500 / 124.1
Min. WFS (pix) / Max. BW (Hz) = 1.044 / 415.8
Min. TR/TE (ms)             = 11 / 2.4
Rel. signal level (%)       = 100.0
```

ADNI , ADNI_3T , Ref/SHC

```
Geometry
Coil selection              = SENSE-head
     element selection      = SENSE
     connection             = d
Dual connector              = no
Foldover suppression        = no
Stack Offc. AP (P=+mm)      = 0.00
            RL (L=+mm)      = 0.00
            FH (H=+mm)      = 0.00
Patient position            = head first
        orientation         = supine
Respiratory compensation    = no
NSA                         = 3
Manual start                = no

Contrast
Coil selection              = SENSE-head
     element selection      = SENSE
     connection             = d
Dual connector              = no
Foldover suppression        = no
Stack Offc. AP (P=+mm)      = 0.00
            RL (L=+mm)      = 0.00
            FH (H=+mm)      = 0.00
Patient position            = head first
        orientation         = supine
Respiratory compensation    = no
NSA                         = 3
Manual start                = no

Motion
Coil selection              = SENSE-head
     element selection      = SENSE
     connection             = d
Dual connector              = no
Foldover suppression        = no
Stack Offc. AP (P=+mm)      = 0.00
            RL (L=+mm)      = 0.00
            FH (H=+mm)      = 0.00
Patient position            = head first
        orientation         = supine
Respiratory compensation    = no
NSA                         = 3
Manual start                = no

Dyn/ang
Coil selection              = SENSE-head
     element selection      = SENSE
     connection             = d
Dual connector              = no
Foldover suppression        = no
Stack Offc. AP (P=+mm)      = 0.00
            RL (L=+mm)      = 0.00
            FH (H=+mm)      = 0.00
```

```
Patient position            = head first
        orientation         = supine
Respiratory compensation    = no
NSA                         = 3
Manual start                = no

Postproc
Coil selection              = SENSE-head
     element selection      = SENSE
     connection             = d
Dual connector              = no
Foldover suppression        = no
Stack Offc. AP (P=+mm)      = 0.00
            RL (L=+mm)      = 0.00
            FH (H=+mm)      = 0.00
Patient position            = head first
        orientation         = supine
Respiratory compensation    = no
NSA                         = 3
Manual start                = no

Offc/ang
Coil selection              = SENSE-head
     element selection      = SENSE
     connection             = d
Dual connector              = no
Foldover suppression        = no
Stack Offc. AP (P=+mm)      = 0.00
            RL (L=+mm)      = 0.00
            FH (H=+mm)      = 0.00
Patient position            = head first
        orientation         = supine
Respiratory compensation    = no
NSA                         = 3
Manual start                = no

Info
SAR (W/kg) / (level)        = <0.1 / 0
PNS (%) / (level)           = 33 % / normal
Total scan duration         = 00:25.3
Act. TR/TE (ms)             = 4.0 / 0.80
ACQ voxel MPS (mm)          = 4.69 / 6.00 / 6.00
REC voxel MPS (mm)          = 4.69 / 4.69 / 3.00
Scan percentage (%)         = 78.1
Packages                    = 1
Act. WFS (pix) / BW (Hz)    = 0.170 / 2553.6
Min. WFS (pix) / Max. BW (Hz) = 0.139 / 3125.0
Rel. signal level (%)       = 100.0
```

ADNI ,   ADNI_3T ,   MPRAGE

Geometry
Coil selection = SENSE-head
element selection = SENSE
connection = d
Dual connector = no
FOV (mm) = 256.00
RFOV (%) = 94.00
Foldover suppression = no
Matrix scan = 256
reconstruction = 256
Scan percentage (%) = 100.00
SENSE = yes
P reduction (AP) = 1.00
S reduction (RL) = 1.00
body tuned = no
Overcontiguous slices = no
Stacks = 1
slices = 170
slice thickness (mm) = 1.20
slice orientation = sagittal
foldover direction = AP
fat shift direction = F
use geometry = none
Chunks = 1
PlanAlign = no
REST slabs = 0
Catheter tracking = no
Interactive positioning = no
Allow table movement = no
Patient position = head first
orientation = supine

Contrast
Scan mode = 3D
technique = FFE
Contrast enhancement = T1
Acquisition mode = cartesian
Fast Imaging mode = TFE
shot mode = multi-shot
TFE factor = 240
startup echoes = default
shot interval = user defined
(ms) = 3000.00
profile order = linear
turbo direction = Y
randomized shots = no
Echoes = 1
partial echo = no
shifted echo = no
TE = shortest
Flip angle (deg) = 8.00
TR = shortest
Half Scan = no
Water fat shift = user defined

```
     (pixels)              = 1.800
Shim                       = auto
SPIR                       = no
SPAIR                      = no
TFE prepulse               = invert
    slice selection        = no
    delay                  = shortest
ProSet                     = no
MTC                        = no
T2prep                     = no
Research prepulse          = no
diffusion mode             = no
SAR mode                   = high
B1 mode                    = default
PNS mode                   = low
gradient mode              = maximum
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           = Grey 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
Stack Offc. AP (P=+mm)     = 0.00
            RL (L=+mm)     = 0.00
            FH (H=+mm)     = 0.00
      Ang.  AP (deg)       = 0.00
            RL (deg)       = 0.00
            FH (deg)       = 0.00
```

Info

SAR (W/kg) / (level)	= <0.2 / 0
PNS (%) / (level)	= 54 % / normal
Total scan duration	= 09:19.7
Act. TR/TE (ms)	= 6.8 / 3.3
ACQ voxel MPS (mm)	= 1.00 / 1.00 / 1.20
REC voxel MPS (mm)	= 1.00 / 1.00 / 1.20
Scan percentage (%)	= 100.0
TFE shots	= 187
TFE dur. shot / acq (ms)	= 1683.4 / 1642.0
Min. TI delay	= 853.8
Act. WFS (pix) / BW (Hz)	= 1.800 / 241.3
Min. WFS (pix) / Max. BW (Hz)	= 0.329 / 1319.9
Rel. signal level (%)	= 100.0

ADNI ,   ADNI_3T ,   Double_TSE

Geometry
Coil selection = SENSE-head
element selection = SENSE
connection = d
Dual connector = no
FOV (mm) = 240.00
RFOV (%) = 88.00
Foldover suppression = no
Matrix scan = 256
reconstruction = 256
Scan percentage (%) = 100.00
SENSE = yes
P reduction (RL) = 1.00
body tuned = no
Stacks = 1
type = parallel
slices = 48
slice thickness (mm) = 3.00
slice gap = user defined
gap (mm) = 0.00
slice orientation = transverse
foldover direction = RL
fat shift direction = P
use geometry = none
Minimum number of packages = 1
Slice scan order = default
PlanAlign = no
REST slabs = 0
Catheter tracking = no
Interactive positioning = no
Allow table movement = no
Patient position = head first
orientation = supine

Contrast
Scan mode = MS
technique = SE
Modified SE = no
Acquisition mode = cartesian
Fast Imaging mode = TSE
TSE factor = 12
startup echoes = 0
profile orders = default
DRIVE = no
ultrashort = no
randomized shots = no
strong FID crushing = no
Echoes = 2
partial echo = no
TE first = shortest
second (ms) = 96.00
Flip angle (deg) = 90.00
Refocusing control = no
TR = user defined

```
    (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                    = high
B1 mode                     = user defined
   amplitude (uT)           = 10.50
PNS mode                    = moderate
gradient mode               = default
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
Calculated images           =
      0: no  no  no  no
Reference tissue            = White matter
Preset window contrast      = soft
Reconstruction mode         = immediate
Save raw data               = no
Push to workstation         = no
Hardcopy protocol           = no

Offc/ang
Stacks                      = 1
Stack Offc. AP (P=+mm)      = 0.00
            RL (L=+mm)      = 0.00
            FH (H=+mm)      = 0.00
      Ang.  AP (deg)        = 0.00
            RL (deg)        = 0.00
            FH (deg)        = 0.00
```

Info

SAR (W/kg) / (level)	= <2.9 / 0
PNS (%) / (level)	= 35 % / normal
Total scan duration	= 05:33.0
ACQ voxel MPS (mm)	= 0.94 / 0.97 / 3.00
REC voxel MPS (mm)	= 0.94 / 0.94 / 3.00
Scan percentage (%)	= 96.4
Packages	= 3
Min. slice gap (mm)	= 3.00
Optimal slices	= 34
Max. slices	= 51
WFS (pix) / BW (Hz)	= 2.516 / 172.6
TSE es / shot (ms)	= 10.1 / 121
Min. TR-SE/TR-IR/TI (ms)	= 2712 / 0.00 / 50
Rel. signal level (%)	= 100.0