Protocol: adult_other_ADNI4 Basic GE29.1_MR750_8Ch_20220901

3-Plane Localizer

PATIENT POSITION	
Patient Entry	*Head First*
Patient Position	*Supine*
Coil Configuration	*HD 8Ch High Res Brain Array by Invivo*
Plane	*3-PLANE*
Series Description	*3-Plane Localizer*

SCAN TIMING	
TE	*80.0*
Number of Echoes	*1*
TR	*1507.0*
Receiver Bandwidth	*83.33*

IMAGE ENHANCE	
Filter Choice	*None*

USER CVS	
User CV Mask2	*0*

MULTI-PHASE	
Seperate Series	*0*
Mask Phase	*0*
Mask Pause	*0*
Preserve	*0*

DIFFUSION	
Recon All Images	*On*
# Synthetic b-values	*1*
Synthetic b-value	*1000.0;*

CONTRAST	
Contrast Yes/No	*No*

IMAGING PARAMETERS	
Imaging Mode	*2D*
Pulse Sequence	*Spin Echo*
Imaging Options	*Seq, EDR, TRF, Fast, SS, ARC*
Phase	*2.00*

SCAN RANGE	
FOV	*30.0*
Slice Thickness	*15.00*
Slice Spacing	*0.0*
Overlap Locations	*0*

ACQ TIMING	
Freq	*256*
Phase	*192*
Freq DIR	*Unswap*
# of Acq. Before Pause	*0*
Phase FOV	*1.00*
Auto Shim	*On*
Phase Correction	*No*
RF Drive Mode	*Single*
Excitation Mode	*Selective*

FMRI	
PSD Trigger	*Internal*
View Order	*Bottom/Up*
# of Repetitions REST	*0*
# of Repetitions ACTIVE	*0*

SAT	
Tag Type	*None*

TRICKS	
Pause On/Off	*On*
Auto Subtract	*0*
Auto SCIC	*Off*

OTHERS	
Protocol Notes	*AIRx is optional software that provides automatic slice positioning for graphical prescriptions. Using pre-trained neural networks, AIRx calculates common Anatomical References from the 3-plane Localizer.* *To enable AIRx, acquire 3-plane Localizer with the following requirements:* *10cm anatomical coverage,* *80TE,* *192 Phase Matrix.* *Subsequent scans must be set to Oblique plane.*

3-Plane Localizer

Protocol: adult_other_ADNI4 Basic GE29.1_MR750_8Ch_20220901

Accelerated Sagittal MPRAGE (MSV22)

PATIENT POSITION	
Patient Entry	*Head First*
Patient Position	*Supine*
Coil Configuration	*HD 8Ch High Res Brain Array by Invivo*
Plane	*SAGITTAL*
Series Description	*Accelerated Sagittal MPRAGE (MSV22)*

SCAN TIMING	
Flip Angle	*9*
Number of Echoes	*1*
TI	*900*
Receiver Bandwidth	*31.25*
Recovery Time	*800*

IMAGE ENHANCE	
Filter Choice	*None*

USER CVS	
User CV6	*1.00*
User CV30	*1.00*
User CV Mask2	*512*

MULTI-PHASE	
Seperate Series	*0*
Trigger Delay without AV	*0*
Mask Phase	*0*
Mask Pause	*0*
Preserve	*0*

TRICKS	
Pause On/Off	*On*
Auto Subtract	*0*
Auto SCIC	*2*

OTHERS	
Protocol Notes	*Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.*

IMAGING PARAMETERS	
Imaging Mode	*3D*
Pulse Sequence	*MP-RAGE*
Imaging Options	*EDR, Fast, ARC, IrP*
Phase	*2.00*
Slice	*1.00*

SCAN RANGE	
FOV	*25.6*
Slice Thickness	*1.00*
Location per Slab	*208*
Overlap Locations	*0*
Number of Slices	*1*

ACQ TIMING	
Freq	*256*
Phase	*256*
Freq DIR	*S/I*
Fat Shift DIR	*Normal (S)*
NEX	*1.00*
Phase FOV	*0.94*
Auto Shim	*On*
Phase Correction	*No*
RF Drive Mode	*Single*
Excitation Mode	*Selective*

FMRI	
PSD Trigger	*Internal*
View Order	*Bottom/Up*
# of Repetitions REST	*0*
# of Repetitions ACTIVE	*0*

DIFFUSION	
Recon All Images	*On*
Multi b-values	*1000.0;*
Multi NEX Values	*1.0;*
# Synthetic b-values	*1*
Synthetic b-value	*1000.0;*

CONTRAST	
Contrast Yes/No	*No*

Accelerated Sagittal MPRAGE (MSV22)

Protocol: adult_other_ADNI4 Basic GE29.1_MR750_8Ch_20220901

Sagittal 3D FLAIR (MSV22)

PATIENT POSITION	
Patient Entry	*Head First*
Patient Position	*Supine*
Coil Configuration	*HD 8Ch High Res Brain Array by Invivo*
Plane	*SAGITTAL*
Series Description	*Sagittal 3D FLAIR (MSV22)*

SCAN TIMING	
TE	*104.0*
Number of Echoes	*1*
TR	*5000.0*
TI	*1525*
Echo Train Length	*182*
Receiver Bandwidth	*31.25*

IMAGE ENHANCE	
Filter Choice	*None*

USER CVS	
User CV5	*1.00*
User CV30	*1.00*
User CV32	*1.00*
User CV34	*100.00*
User CV Mask2	*522*

MULTI-PHASE	
Seperate Series	*0*
Mask Phase	*0*
Mask Pause	*0*
Preserve	*0*

DIFFUSION	
Recon All Images	*On*
# Synthetic b-values	*1*
Synthetic b-value	*1000.0;*

CONTRAST	
Contrast Yes/No	*No*

IMAGING PARAMETERS	
Imaging Mode	*3D*
Pulse Sequence	*Cube T2 FLAIR*
Imaging Options	*EDR, Fast, ARC, IrP*
Phase	*2.00*
Slice	*2.00*

SCAN RANGE	
FOV	*25.6*
Slice Thickness	*1.00*
Location per Slab	*208*
Overlap Locations	*0*
Number of Slices	*1*

ACQ TIMING	
Freq	*256*
Phase	*256*
Freq DIR	*S/I*
Fat Shift DIR	*Normal (S)*
NEX	*1.00*
Phase FOV	*1.00*
Auto Shim	*Auto*
Phase Correction	*No*
RF Drive Mode	*Single*
Excitation Mode	*Non-Selective*

FMRI	
PSD Trigger	*Internal*
View Order	*Bottom/Up*
# of Repetitions REST	*0*
# of Repetitions ACTIVE	*0*

SAT	
Tag Type	*None*
Fat/Water Saturation	*Fat*

TRICKS	
Pause On/Off	*On*
Auto Subtract	*0*
Auto SCIC	*2*

OTHERS	
Protocol Notes	*Please do not oblique.* *Please do not reduce the number of slices.* *Please do not adjust protocol values.*

Sagittal 3D FLAIR (MSV22)

Protocol: adult_other_ADNI4 Basic GE29.1_MR750_8Ch_20220901

Sagittal 3D T2 Cube (MSV21)

PATIENT POSITION	
Patient Entry	*Head First*
Patient Position	*Supine*
Coil Configuration	*HD 8Ch High Res Brain Array by Invivo*
Plane	*SAGITTAL*
Series Description	*Sagittal 3D T2 Cube (MSV21)*

SCAN TIMING	
TE	*Maximum*
Number of Echoes	*1*
TR	*2500.0*
Echo Train Length	*100*
Receiver Bandwidth	*62.50*

IMAGE ENHANCE	
Filter Choice	*None*

USER CVS	
User CV29	*1.00*
User CV30	*1.00*
User CV34	*100.00*
User CV Mask2	*522*

MULTI-PHASE	
Seperate Series	*0*
Mask Phase	*0*
Mask Pause	*0*
Preserve	*0*

DIFFUSION	
Recon All Images	*On*
# Synthetic b-values	*1*
Synthetic b-value	*1000.0;*

CONTRAST	
Contrast Yes/No	*No*

IMAGING PARAMETERS	
Imaging Mode	*3D*
Pulse Sequence	*Cube*
Imaging Options	*EDR, Fast, FR, ARC*
Phase	*2.00*
Slice	*2.00*

SCAN RANGE	
FOV	*25.6*
Slice Thickness	*1.00*
Location per Slab	*208*
Overlap Locations	*0*
Number of Slices	*1*

ACQ TIMING	
Freq	*256*
Phase	*256*
Freq DIR	*S/I*
Fat Shift DIR	*Normal (S)*
NEX	*1.00*
Phase FOV	*1.00*
Auto Shim	*Auto*
Phase Correction	*No*
RF Drive Mode	*Single*
Excitation Mode	*Non-Selective*

FMRI	
PSD Trigger	*Internal*
View Order	*Bottom/Up*
# of Repetitions REST	*0*
# of Repetitions ACTIVE	*0*

SAT	
Tag Type	*None*

TRICKS	
Pause On/Off	*On*
Auto Subtract	*0*
Auto SCIC	*2*

OTHERS	
Protocol Notes	*Imaging Tip:* *Copy coverage perscription from the T1.*

Sagittal 3D T2 Cube (MSV21)

Protocol: adult_other_ADNI4 Basic GE29.1_MR750_8Ch_20220901

Axial T2 Star (MSV21)

PATIENT POSITION	
Patient Entry	*Head First*
Patient Position	*Supine*
Coil Configuration	*HD 8Ch High Res Brain Array by Invivo*
Plane	*AXIAL*
Series Description	*Axial T2 Star (MSV21)*
SCAN TIMING	
Flip Angle	*20*
TE	*20.0*
Number of Echoes	*1*
TR	*650.0*
Receiver Bandwidth	*25.00*
IMAGE ENHANCE	
Filter Choice	*None*
GATING/TRIGGER	
Pause After Navigator Prescan	*0*
FMRI	
PSD Trigger	*Internal*
View Order	*Bottom/Up*
# of Repetitions REST	*0*
# of Repetitions ACTIVE	*0*
SAT	
Tag Type	*None*
TRICKS	
Pause On/Off	*On*
Auto Subtract	*0*
Auto SCIC	*2*
OTHERS	
Protocol Notes	*Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.*

IMAGING PARAMETERS	
Imaging Mode	*2D*
Pulse Sequence	*Gradient Echo*
Imaging Options	*FC, EDR*
SCAN RANGE	
FOV	*22.0*
Slice Thickness	*4.00*
Slice Spacing	*0.0*
Overlap Locations	*0*
Number of Slices	*50*
ACQ TIMING	
Freq	*256*
Phase	*192*
Freq DIR	*A/P*
NEX	*1.00*
# of Acq. Before Pause	*0*
Phase FOV	*1.00*
Auto Shim	*Auto*
Phase Correction	*No*
RF Drive Mode	*Single*
Excitation Mode	*Selective*
USER CVS	
User CV Mask2	*0*
MULTI-PHASE	
Seperate Series	*0*
Mask Phase	*0*
Mask Pause	*0*
Preserve	*0*
DIFFUSION	
Recon All Images	*On*
# Synthetic b-values	*1*
Synthetic b-value	*1000.0;*
CONTRAST	
Contrast Yes/No	*No*

Axial T2 Star (MSV21)

Protocol: adult_other_ADNI4 Basic GE29.1_MR750_8Ch_20220901

Axial 3D pCASL 1025 (Eyes Open) (MSV22)

PATIENT POSITION	
Patient Entry	*Head First*
Patient Position	*Supine*
Coil Configuration	*HD 8Ch High Res Brain Array by Invivo*
Plane	*AXIAL*
Series Description	*Axial 3D pCASL 1025 (Eyes Open) (MSV22)*

SCAN TIMING	
Number of Echoes	*1*
Receiver Bandwidth	*62.50*
Post Label Delay	*1025.0*

IMAGE ENHANCE	
Filter Choice	*None*

GATING/TRIGGER	
Pause After Navigator Prescan	*0*

FMRI	
PSD Trigger	*Internal*
View Order	*Bottom/Up*
# of Repetitions REST	*0*
# of Repetitions ACTIVE	*0*

SAT	
Tag Type	*None*

TRICKS	
Pause On/Off	*On*
Auto Subtract	*0*
Auto SCIC	*Off*

OTHERS	
Protocol Notes	*Tips: -When prescribing the 3D slab, the bottom of the slab should be positioned at the bottom of the cerebellum*

IMAGING PARAMETERS	
Imaging Mode	*3D*
Pulse Sequence	*3DASL*
Imaging Options	*EDR, Fast, Spiral*

SCAN RANGE	
FOV	*24.0*
Slice Thickness	*4.00*
Overlap Locations	*0*
Number of Slices	*1*

ACQ TIMING	
Freq	*768*
Phase	*6*
Freq DIR	*A/P*
NEX	*1.00*
Auto Shim	*Auto*
Phase Correction	*No*
RF Drive Mode	*Single*
Excitation Mode	*Selective*

USER CVS	
User CV Mask2	*0*

MULTI-PHASE	
Seperate Series	*0*
Delay after Acquisition without AV	*0*
Mask Phase	*0*
Mask Pause	*0*
Preserve	*0*

DIFFUSION	
Recon All Images	*On*
# Synthetic b-values	*1*
Synthetic b-value	*1000.0;*

CONTRAST	
Contrast Yes/No	*No*

Axial 3D pCASL 1025 (Eyes Open) (MSV22)

Protocol: adult_other_ADNI4 Basic GE29.1_MR750_8Ch_20220901

Axial 3D pCASL 1525 (Eyes Open) (MSV22)

PATIENT POSITION	
Patient Entry	*Head First*
Patient Position	*Supine*
Coil Configuration	*HD 8Ch High Res Brain Array by Invivo*
Plane	*AXIAL*
Series Description	*Axial 3D pCASL 1525 (Eyes Open) (MSV22)*

SCAN TIMING	
Number of Echoes	*1*
Receiver Bandwidth	*62.50*
Post Label Delay	*1525.0*

IMAGE ENHANCE	
Filter Choice	*None*

GATING/TRIGGER	
Pause After Navigator Prescan	*0*

FMRI	
PSD Trigger	*Internal*
View Order	*Bottom/Up*
# of Repetitions REST	*0*
# of Repetitions ACTIVE	*0*

SAT	
Tag Type	*None*

TRICKS	
Pause On/Off	*On*
Auto Subtract	*0*
Auto SCIC	*Off*

OTHERS	
Protocol Notes	*Tips: -When prescribing the 3D slab, the bottom of the slab should be positioned at the bottom of the cerebellum*

IMAGING PARAMETERS	
Imaging Mode	*3D*
Pulse Sequence	*3DASL*
Imaging Options	*EDR, Fast, Spiral*

SCAN RANGE	
FOV	*24.0*
Slice Thickness	*4.00*
Overlap Locations	*0*
Number of Slices	*1*

ACQ TIMING	
Freq	*768*
Phase	*6*
Freq DIR	*A/P*
NEX	*1.00*
Auto Shim	*Auto*
Phase Correction	*No*
RF Drive Mode	*Single*
Excitation Mode	*Selective*

USER CVS	
User CV Mask2	*0*

MULTI-PHASE	
Seperate Series	*0*
Delay after Acquisition without AV	*0*
Mask Phase	*0*
Mask Pause	*0*
Preserve	*0*

DIFFUSION	
Recon All Images	*On*
# Synthetic b-values	*1*
Synthetic b-value	*1000.0;*

CONTRAST	
Contrast Yes/No	*No*

Axial 3D pCASL 1525 (Eyes Open) (MSV22)

Protocol: adult_other_ADNI4 Basic GE29.1_MR750_8Ch_20220901

Axial 3D pCASL 2025 (Eyes Open) (MSV22)

PATIENT POSITION	
Patient Entry	*Head First*
Patient Position	*Supine*
Coil Configuration	*HD 8Ch High Res Brain Array by Invivo*
Plane	*AXIAL*
Series Description	*Axial 3D pCASL 2025 (Eyes Open) (MSV22)*

SCAN TIMING	
Number of Echoes	*1*
Receiver Bandwidth	*62.50*
Post Label Delay	*2025.0*

IMAGE ENHANCE	
Filter Choice	*None*

GATING/TRIGGER	
Pause After Navigator Prescan	*0*

FMRI	
PSD Trigger	*Internal*
View Order	*Bottom/Up*
# of Repetitions REST	*0*
# of Repetitions ACTIVE	*0*

SAT	
Tag Type	*None*

TRICKS	
Pause On/Off	*On*
Auto Subtract	*0*
Auto SCIC	*Off*

OTHERS	
Protocol Notes	*Tips: -When prescribing the 3D slab, the bottom of the slab should be positioned at the bottom of the cerebellum*

IMAGING PARAMETERS	
Imaging Mode	*3D*
Pulse Sequence	*3DASL*
Imaging Options	*EDR, Fast, Spiral*

SCAN RANGE	
FOV	*24.0*
Slice Thickness	*4.00*
Overlap Locations	*0*
Number of Slices	*1*

ACQ TIMING	
Freq	*768*
Phase	*6*
Freq DIR	*A/P*
NEX	*1.00*
Auto Shim	*Auto*
Phase Correction	*No*
RF Drive Mode	*Single*
Excitation Mode	*Selective*

USER CVS	
User CV Mask2	*0*

MULTI-PHASE	
Seperate Series	*0*
Delay after Acquisition without AV	*0*
Mask Phase	*0*
Mask Pause	*0*
Preserve	*0*

DIFFUSION	
Recon All Images	*On*
# Synthetic b-values	*1*
Synthetic b-value	*1000.0;*

CONTRAST	
Contrast Yes/No	*No*

Axial 3D pCASL 2025 (Eyes Open) (MSV22)

Protocol: adult_other_ADNI4 Basic GE29.1_MR750_8Ch_20220901

Axial 3D pCASL 2525 (Eyes Open) (MSV22)

PATIENT POSITION	
Patient Entry	*Head First*
Patient Position	*Supine*
Coil Configuration	*HD 8Ch High Res Brain Array by Invivo*
Plane	*AXIAL*
Series Description	*Axial 3D pCASL 2525 (Eyes Open) (MSV22)*

SCAN TIMING	
Number of Echoes	*1*
Receiver Bandwidth	*62.50*
Post Label Delay	*2525.0*

IMAGE ENHANCE	
Filter Choice	*None*

GATING/TRIGGER	
Pause After Navigator Prescan	*0*

FMRI	
PSD Trigger	*Internal*
View Order	*Bottom/Up*
# of Repetitions REST	*0*
# of Repetitions ACTIVE	*0*

SAT	
Tag Type	*None*

TRICKS	
Pause On/Off	*On*
Auto Subtract	*0*
Auto SCIC	*Off*

OTHERS	
Protocol Notes	*Tips: -When prescribing the 3D slab, the bottom of the slab should be positioned at the bottom of the cerebellum*

IMAGING PARAMETERS	
Imaging Mode	*3D*
Pulse Sequence	*3DASL*
Imaging Options	*EDR, Fast, Spiral*

SCAN RANGE	
FOV	*24.0*
Slice Thickness	*4.00*
Overlap Locations	*0*
Number of Slices	*1*

ACQ TIMING	
Freq	*768*
Phase	*6*
Freq DIR	*A/P*
NEX	*1.00*
Auto Shim	*Auto*
Phase Correction	*No*
RF Drive Mode	*Single*
Excitation Mode	*Selective*

USER CVS	
User CV Mask2	*0*

MULTI-PHASE	
Seperate Series	*0*
Delay after Acquisition without AV	*0*
Mask Phase	*0*
Mask Pause	*0*
Preserve	*0*

DIFFUSION	
Recon All Images	*On*
# Synthetic b-values	*1*
Synthetic b-value	*1000.0;*

CONTRAST	
Contrast Yes/No	*No*

Axial 3D pCASL 2525 (Eyes Open) (MSV22)

Protocol: adult_other_ADNI4 Basic GE29.1_MR750_8Ch_20220901

Axial 3D pCASL 3025 (Eyes Open) (MSV22)

PATIENT POSITION	
Patient Entry	*Head First*
Patient Position	*Supine*
Coil Configuration	*HD 8Ch High Res Brain Array by Invivo*
Plane	*AXIAL*
Series Description	*Axial 3D pCASL 3025 (Eyes Open) (MSV22)*

SCAN TIMING	
Number of Echoes	*1*
Receiver Bandwidth	*62.50*
Post Label Delay	*3025.0*

IMAGE ENHANCE	
Filter Choice	*None*

GATING/TRIGGER	
Pause After Navigator Prescan	*0*

FMRI	
PSD Trigger	*Internal*
View Order	*Bottom/Up*
# of Repetitions REST	*0*
# of Repetitions ACTIVE	*0*

SAT	
Tag Type	*None*

TRICKS	
Pause On/Off	*On*
Auto Subtract	*0*
Auto SCIC	*Off*

OTHERS	
Protocol Notes	*Tips: -When prescribing the 3D slab, the bottom of the slab should be positioned at the bottom of the cerebellum*

IMAGING PARAMETERS	
Imaging Mode	*3D*
Pulse Sequence	*3DASL*
Imaging Options	*EDR, Fast, Spiral*

SCAN RANGE	
FOV	*24.0*
Slice Thickness	*4.00*
Overlap Locations	*0*
Number of Slices	*1*

ACQ TIMING	
Freq	*768*
Phase	*6*
Freq DIR	*A/P*
NEX	*1.00*
Auto Shim	*Auto*
Phase Correction	*No*
RF Drive Mode	*Single*
Excitation Mode	*Selective*

USER CVS	
User CV Mask2	*0*

MULTI-PHASE	
Seperate Series	*0*
Delay after Acquisition without AV	*0*
Mask Phase	*0*
Mask Pause	*0*
Preserve	*0*

DIFFUSION	
Recon All Images	*On*
# Synthetic b-values	*1*
Synthetic b-value	*1000.0;*

CONTRAST	
Contrast Yes/No	*No*

Axial 3D pCASL 3025 (Eyes Open) (MSV22)

Protocol: adult_other_ADNI4 Basic GE29.1_MR750_8Ch_20220901

Axial dMRI (MSV21)

PATIENT POSITION	
Patient Entry	*Head First*
Patient Position	*Supine*
Coil Configuration	*HD 8Ch High Res Brain Array by Invivo*
Plane	*AXIAL*
Series Description	*Axial dMRI (MSV21)*

SCAN TIMING	
TE	*Minimum*
Number of Echoes	*1*
TR	*7850.0*
Number of Shots	*1*

IMAGE ENHANCE	
Filter Choice	*None*

USER CVS	
User CV5	*1.00*
User CV Mask2	*512*

MULTI-PHASE	
Seperate Series	*0*
Mask Phase	*0*
Mask Pause	*0*
Preserve	*0*

DIFFUSION	
Optimized TE	*Yes*
Diffusion Directions	*Tensor*
Number of Diffusion Directions	*48*
Number of T2 Images	*6*
Dual Spin Echo	*Off*
Diffusion Tenser Processing Output	*No Selection*
Recon All Images	*Off*
Multi b-values	*1000.0;*
Multi NEX Values	*1.0;*
Real Time Field Adjustment	*1*

CONTRAST	
Contrast Yes/No	*No*

IMAGING PARAMETERS	
Imaging Mode	*2D*
Pulse Sequence	*Spin Echo*
Imaging Options	*EDR, EPI, DIFF, Asset*
Phase	*2.00*

SCAN RANGE	
FOV	*23.2*
Slice Thickness	*2.00*
Slice Spacing	*0.0*
Overlap Locations	*0*
Number of Slices	*80*

ACQ TIMING	
Freq	*116*
Phase	*116*
Freq DIR	*R/L*
Phase FOV	*1.00*
Auto Shim	*Auto*
Phase Correction	*Yes*
RF Drive Mode	*Single*
Excitation Mode	*Selective*

FMRI	
PSD Trigger	*Internal*
View Order	*Bottom/Up*
# of Repetitions REST	*0*
# of Repetitions ACTIVE	*0*

SAT	
Tag Type	*None*
Fat/Water Saturation	*Fat*

TRICKS	
Pause On/Off	*On*
Auto Subtract	*0*
Auto SCIC	*2*

OTHERS	
Protocol Notes	*Please do not oblique. Please do not reduce the number of slices. Please do not adjust protocol values.*

Axial dMRI (MSV21)

Protocol: adult_other_ADNI4 Basic GE29.1_MR750_8Ch_20220901

Axial rsfMRI (Eyes Open) (MSV21)

PATIENT POSITION	
Patient Entry	*Head First*
Patient Position	*Supine*
Coil Configuration	*HD 8Ch High Res Brain Array by Invivo*
Plane	*AXIAL*
Series Description	*Axial rsfMRI (Eyes Open) (MSV21)*

SCAN TIMING	
Flip Angle	*90*
TE	*30.0*
Number of Echoes	*1*
TR	*3000.0*
Number of Shots	*1*

IMAGE ENHANCE	
Filter Choice	*None*

GATING/TRIGGER	
Pause After Navigator Prescan	*0*

FMRI	
Initial State	*Control*
PSD Trigger	*Internal*
View Order	*Bottom/Up*
# of Repetitions REST	*0*
# of Repetitions ACTIVE	*0*

SAT	
Tag Type	*None*
Fat/Water Saturation	*Fat*

TRICKS	
Pause On/Off	*On*
Auto Subtract	*0*
Auto SCIC	*Off*

OTHERS	
Protocol Notes	**Instruct patient to keep eyes open during this scan and to focus on 1 spot. Cover brain in one acq, ensure slab is positioned from inferior to superior. Must have 48 slices, please do not subtract or add any slices. Do not oblique slices. (Do not change series descritpion)*

IMAGING PARAMETERS	
Imaging Mode	*2D*
Pulse Sequence	*Gradient Echo*
Imaging Options	*MPh, EPI*

SCAN RANGE	
FOV	*22.0*
Slice Thickness	*3.40*
Slice Spacing	*0.0*
Overlap Locations	*0*
Number of Slices	*48*

ACQ TIMING	
Freq	*64*
Phase	*64*
Freq DIR	*R/L*
NEX	*1.00*
Phase FOV	*1.00*
Auto Shim	*Auto*
Phase Correction	*Yes*
RF Drive Mode	*Single*
Excitation Mode	*Selective*

USER CVS	
User CV0	*1.00*
User CV Mask2	*0*

MULTI-PHASE	
Slice per Location	*100*
Phase Acquisition Order	*Interleaved*
Delay after Acquisition	*Minimum*
Seperate Series	*0*
Delay after Acquisition without AV	*2*
Mask Phase	*0*
Mask Pause	*0*

DIFFUSION	
Recon All Images	*On*
Multi b-values	*1000.0;*
Multi NEX Values	*1.0;*
# Synthetic b-values	*1*
Synthetic b-value	*1000.0;*

CONTRAST	
Contrast Yes/No	*No*

Axial rsfMRI (Eyes Open) (MSV21)

Protocol: adult_other_ADNI4 Basic GE29.1_MR750_8Ch_20220901

HighResHippocampus (MSV21)

PATIENT POSITION	
Patient Entry	*Head First*
Patient Position	*Supine*
Coil Configuration	*HD 8Ch High Res Brain Array by Invivo*
Plane	*OBLIQUE*
Series Description	*HighResHippocampus (MSV21)*

SCAN TIMING	
Flip Angle	*122*
TE	*50.0*
Number of Echoes	*1*
TR	*8020.0*
Echo Train Length	*15*
Receiver Bandwidth	*20.83*

IMAGE ENHANCE	
Filter Choice	*None*

USER CVS	
User CV29	*1.00*
User CV30	*1.00*
User CV Mask2	*640*

MULTI-PHASE	
Seperate Series	*0*
Mask Phase	*0*
Mask Pause	*0*
Preserve	*0*

DIFFUSION	
Recon All Images	*On*
# Synthetic b-values	*1*
Synthetic b-value	*1000.0;*

CONTRAST	
Contrast Yes/No	*No*

IMAGING PARAMETERS	
Imaging Mode	*2D*
Pulse Sequence	*FSE-XL*
Imaging Options	*Fast, Asset*
Phase	*2.00*

SCAN RANGE	
FOV	*17.5*
Slice Thickness	*2.00*
Slice Spacing	*Intleave*
Overlap Locations	*0*
Number of Slices	*30*

ACQ TIMING	
Freq	*448*
Phase	*448*
Freq DIR	*S/I*
Fat Shift DIR	*Normal (I)*
NEX	*1.00*
Phase FOV	*1.00*
Auto Shim	*Auto*
Phase Correction	*Yes*
RF Drive Mode	*Single*
Excitation Mode	*Selective*

FMRI	
PSD Trigger	*Internal*
View Order	*Bottom/Up*
# of Repetitions REST	*0*
# of Repetitions ACTIVE	*0*

SAT	
Tag Type	*None*

TRICKS	
Pause On/Off	*On*
Auto Subtract	*0*
Auto SCIC	*2*

OTHERS	
Protocol Notes	*Angle the slices perpendicular to the hippocampul body. Please refer to the study manual for further details.*

HighResHippocampus (MSV21)