



<b>\\RESEARCH\ADNI4_XA60 Prisma 20260128\ADNI4\Human\3 Plane Localizer</b>
TA: 12 sec Coil Selection: Auto Voxel Size: 1.5x1.5x8.0 mm <sup>3</sup> Acc.: None Rel. SNR: 1.00

**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	On
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Routine**

Slice Group	1
Slices	1
Distance Factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slice Group	2
Slices	1
Distance Factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slice Group	3
Slices	1
Distance Factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Phase Oversampling	0 %
FOV Read	280 mm
FOV Phase	100.0 %
Slice Thickness	8.0 mm
TR	20.0 ms
TE	5.00 ms
Averages	1
Concatenations	3
AutoAlign	---

**Contrast - Common**

TR	20.0 ms
TE	5.00 ms
TD	0.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle	40 deg

**Contrast - Common**

Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
SWI	Off
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

**Resolution - Common**

FOV Read	280 mm
FOV Phase	100.0 %
Slice Thickness	8.0 mm
Base Resolution	192
Phase Resolution	100 %
Interpolation	Off

**Resolution - Acceleration**

Acceleration Mode	None
Deep Resolve	Off
Phase Partial Fourier	Off
Asymmetric Echo	Off

**Resolution - Filter**

Raw Filter	On
Elliptical Filter	Off
POCS	Off
Distortion Correction	2D
Normalize	Image Based
Image Filter	Off

**Geometry - Common**

Slice Group	1
Slices	1
Distance Factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slice Group	2
Slices	1
Distance Factor	20 %
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slice Group	3
Slices	1
Distance Factor	20 %
Position	Isocenter

**Geometry - Common**

Orientation	Sagittal
Phase Encoding Dir.	A >> P
Phase Oversampling	0 %
FOV Read	280 mm
FOV Phase	100.0 %
Slice Thickness	8.0 mm
TR	20.0 ms
Multi-Slice Mode	Sequential
Series	Ascending
Concatenations	3

**Geometry - AutoAlign**

Slice Group	1
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slice Group	2
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slice Group	3
Position	Isocenter
Orientation	Sagittal
Phase Encoding Dir.	A >> P
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	0.00 deg

**Geometry - Saturation**

Saturation Mode	Standard
Special Saturation	None

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Tune up
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
Excitation	Slice-sel.
LR Balancing	Off

**System - Tx/Rx**

Frequency 1H	123.253643 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	20.0 ms
Segments	1
Concatenations	3

**Physio - Cardiac**

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	280 mm
FOV Phase	100.0 %
Phase Resolution	100 %

**Physio - PACE**

Resp. Control	Off
Concatenations	3

**Inline - Liver**

Liver Registration	Off
Save Original Images	On

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off

**Inline - Subtraction**

Save Original Images	On
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**Sequence - Assistant**

Allowed Delay	0 s
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**Inline - MIP**

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

**Inline - Soft Tissue**

Wash-in	Off
Wash-out	Off
TTP	Off
PEI	Off
MIP Time	Off
Measurements	1

**Inline - Composing**

Inline Composing	Off
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**Inline - MapIt**

MapIt	None
Flip Angle	40 deg
Measurements	1
Contrasts	1
TE	5.00 ms
TR	20.0 ms
Save Original Images	On

**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	fl
Dimension	2D
Excitation	Slice-sel.
RF Pulse Type	Normal
Gradient Mode	Fast
Flow Compensation	None
Bandwidth	180 Hz/Px
Asymmetric Echo	Off
Segments	1

**Sequence - Part 2**

Introduction	Off
RF Spoiling	On
Acoustic noise reduction	Off

**Sequence - Assistant**

SAR Assistant	Off
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## \RESEARCH\ADNI4 XA60 Prisma 20260128\ADNI4\Human\Accelerated Sagittal MPRAGE (MSV21)

TA: 5:12 min Coil Selection: Auto Voxel Size: 1.0x1.0x1.0 mm<sup>3</sup> Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	On
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Routine**

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	L0.0 P5.4 H0.4 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slices per Slab	208
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FOV Read	256 mm
FOV Phase	93.8 %
Slice Thickness	1.00 mm
TR	2300.0 ms
TE	2.98 ms
Averages	1
Concatenations	1
AutoAlign	---

**Contrast - Common**

TR	2300.0 ms
TE	2.98 ms
Magn. Preparation	Non-sel. IR
TI	900 ms
Flip Angle	9 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement
Reordering	Linear

**Resolution - Common**

FOV Read	256 mm
FOV Phase	93.8 %
Slice Thickness	1.00 mm
Base Resolution	256
Phase Resolution	100 %
Slice Resolution	100 %
Interpolation	Off

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	32
Acceleration Factor 3D	1
Phase Partial Fourier	Off
Slice Partial Fourier	Off
Asymmetric Echo	Off
Elliptical Scanning	Off

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	3D
Normalize	Prescan
Image Filter	Off

**Geometry - Common**

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	L0.0 P5.4 H0.4 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slices per Slab	208
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FOV Read	256 mm
FOV Phase	93.8 %
Slice Thickness	1.00 mm
TR	2300.0 ms
Multi-Slice Mode	Single Shot
Series	Ascending
Concatenations	1

**Geometry - AutoAlign**

Slab Group	1
Position	L0.0 P5.4 H0.4 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
AutoAlign	---

**Geometry - AutoAlign**

Initial Position	L0.0 P5.4 H0.4
L	0.0 mm
P	5.4 mm
H	0.4 mm
Initial Orientation	Sagittal
Initial Rotation	0.00 deg

**Geometry - Navigator**

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	L >> R
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	L0.0 P5.4 H0.4 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	240 mm
F >> H	256 mm
R >> L	208 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
Excitation	Non-sel.

**System - Tx/Rx**

Frequency 1H	123.253643 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	2300.0 ms
Concatenations	1

**Physio - Cardiac**

Fat-Water Contrast	Standard
Magn. Preparation	Non-sel. IR
TI	900 ms
Dark Blood	Off
FOV Read	256 mm
FOV Phase	93.8 %
Phase Resolution	100 %

**Physio - PACE**

Resp. Control	Off
Concatenations	1

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Save Original Images	On

**Inline - MIP**

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

**Inline - Composing**

Inline Composing	Off
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**Inline - Maplt**

Maplt	None
Flip Angle	9 deg
Measurements	1
Contrasts	1
TE	2.98 ms
TR	2300.0 ms
Save Original Images	On

**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	tfl
Dimension	3D
Excitation	Non-sel.
RF Pulse Type	Fast

**Sequence - Part 1**

Gradient Mode	Normal
Flow Compensation	None
Reordering	Linear
Bandwidth	240 Hz/Px
Echo Spacing	7.14 ms
Asymmetric Echo	Off
Turbo Factor	208

**Sequence - Part 2**

Introduction	On
RF Spoiling	On
Incr. Gradient Spoiling	Off

**Sequence - Assistant**

SAR Assistant	Off
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\\RESEARCH\ADNI4 XA60 Prisma 20260128\ADNI4\Human\Sagittal 3D FLAIR (MSV22)

TA: 6:37 min Coil Selection: Auto Voxel Size: 1.0x1.0x1.0 mm<sup>3</sup> Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	On
Load Images to Graphic Segments	On
Graphic segment	Default
Inline Movie	Off

**Routine**

Slab Group	1
Slabs	1
Position	L0.0 P5.4 H0.4 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slices per Slab	208
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FOV Read	256 mm
FOV Phase	93.8 %
Slice Thickness	1.00 mm
TR	5000.0 ms
TE	393.00 ms
Averages	1.0
Concatenations	1
AutoAlign	---

**Contrast - Common**

TR	5000.0 ms
TE	393.00 ms
MTC	Off
Magn. Preparation	Non-sel. T2 prep. IR
TI	1700 ms
T2 Prep. Duration	125 ms
Flip Angle Mode	T2 Var
Fat-Water Contrast	Fat Saturation
Fat Saturation	Strong
Dark Blood	Off
Blood Suppression	Off
Wrap-up Magn.	None
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1

**Contrast - Dynamic**

Multiple Series	Each Measurement
Reordering	Linear

**Resolution - Common**

FOV Read	256 mm
FOV Phase	93.8 %
Slice Thickness	1.00 mm
Base Resolution	256
Phase Resolution	100 %
Slice Resolution	100 %
Interpolation	Off

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Total Factor	2
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	28
Acceleration Factor 3D	1
Phase Partial Fourier	Allowed
Slice Partial Fourier	7/8
Elliptical Scanning	Off

**Resolution - Filter**

Raw Filter	On
Elliptical Filter	Off
Distortion Correction	3D
Normalize	Prescan
Image Filter	Off

**Geometry - Common**

Slab Group	1
Slabs	1
Position	L0.0 P5.4 H0.4 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slices per Slab	208
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FOV Read	256 mm
FOV Phase	93.8 %
Slice Thickness	1.00 mm
TR	5000.0 ms
Concatenations	1

**Geometry - AutoAlign**

Slab Group	1
Position	L0.0 P5.4 H0.4 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P

**Geometry - AutoAlign**

AutoAlign	---
Initial Position	L0.0 P5.4 H0.4
L	0.0 mm
P	5.4 mm
H	0.4 mm
Initial Orientation	Sagittal
Initial Rotation	0.00 deg

**Geometry - Navigator**

**Geometry - Saturation**

Special Saturation	None
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**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	L >> R
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	L0.0 P5.4 H0.4 mm
Orientation	Sagittal
Rotation	0.00 deg
A >> P	240 mm
F >> H	256 mm
R >> L	208 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
Excitation	Non-sel.

**System - Tx/Rx**

Frequency 1H	123.253643 MHz
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**System - Tx/Rx**

? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000
Gain	High

**Physio - Signal**

1st Signal/Mode	None
Trigger Delay	0 ms
TR	5000.0 ms
Concatenations	1

**Physio - Cardiac**

Fat-Water Contrast	Fat Saturation
Magn. Preparation	Non-sel. T2 prep. IR
T1	1700 ms
T2 Prep. Duration	125 ms
Dark Blood	Off
FOV Read	256 mm
FOV Phase	93.8 %
Phase Resolution	100 %

**Physio - PACE**

Resp. Control	Off
Concatenations	1

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Save Original Images	On

**Inline - MIP**

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

**Inline - Composing**

Inline Composing	Off
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**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	spcir
Dimension	3D
Excitation	Non-sel.
RF Pulse Type	Normal
Gradient Mode	Fast

**Sequence - Part 1**

Flow Compensation	None
Reordering	Linear
Bandwidth	781 Hz/Px
Echo Spacing	3.42 ms
Turbo Factor	312
Echo Train Duration	923 ms

**Sequence - Part 2**

Introduction	On
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**Sequence - Assistant**

SAR Assistant	Off
Allowed Delay	30 s

\RESEARCH\ADNI4 XA60 Prisma 20260128\ADNI4\Human\Sagittal 3D T2 SPACE (MSV21)

TA: 4:50 min Coil Selection: Auto Voxel Size: 1.0x1.0x1.0 mm<sup>3</sup> Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	On
Load Images to Graphic Segments	On
Graphic segment	Default
Inline Movie	Off

**Routine**

Slab Group	1
Slabs	1
Position	L0.0 P5.4 H0.4 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slices per Slab	208
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FOV Read	256 mm
FOV Phase	93.8 %
Slice Thickness	1.00 mm
TR	3200.0 ms
TE	564.00 ms
Averages	1.0
Concatenations	1
AutoAlign	---

**Contrast - Common**

TR	3200.0 ms
TE	564.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle Mode	T2 Var
Fat-Water Contrast	Standard
Dark Blood	Off
Blood Suppression	Off
Wrap-up Magn.	None
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement
Reordering	Linear

**Resolution - Common**

FOV Read	256 mm
FOV Phase	93.8 %
Slice Thickness	1.00 mm
Base Resolution	256
Phase Resolution	100 %
Slice Resolution	100 %
Interpolation	Off

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Total Factor	2
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	32
Acceleration Factor 3D	1
Phase Partial Fourier	Allowed
Slice Partial Fourier	Off
Elliptical Scanning	Off

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
Distortion Correction	3D
Normalize	Prescan
Image Filter	Off

**Geometry - Common**

Slab Group	1
Slabs	1
Position	L0.0 P5.4 H0.4 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
Slices per Slab	208
Phase Oversampling	0 %
Slice Oversampling	0.0 %
FOV Read	256 mm
FOV Phase	93.8 %
Slice Thickness	1.00 mm
TR	3200.0 ms
Concatenations	1

**Geometry - AutoAlign**

Slab Group	1
Position	L0.0 P5.4 H0.4 mm
Orientation	Sagittal
Phase Encoding Dir.	A >> P
AutoAlign	---
Initial Position	L0.0 P5.4 H0.4
L	0.0 mm
P	5.4 mm

**Geometry - AutoAlign**

H	0.4 mm
Initial Orientation	Sagittal
Initial Rotation	0.00 deg

**Geometry - Navigator**

**Geometry - Saturation**

Special Saturation	None
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**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	L >> R
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Tune up
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	Isocenter
Orientation	Transversal
Rotation	0.00 deg
A >> P	263 mm
R >> L	350 mm
F >> H	350 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
Excitation	Non-sel.

**System - Tx/Rx**

Frequency 1H	123.253643 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000
Gain	High

**Physio - Signal**

1st Signal/Mode	None
Trigger Delay	0 ms
TR	3200.0 ms
Concatenations	1

**Physio - Cardiac**

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	256 mm
FOV Phase	93.8 %
Phase Resolution	100 %

**Physio - PACE**

Resp. Control	Off
Concatenations	1

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Save Original Images	On

**Inline - MIP**

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

**Inline - Composing**

Inline Composing	Off
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**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	spc
Dimension	3D
Excitation	Non-sel.
RF Pulse Type	Fast
Gradient Mode	Fast
Flow Compensation	None
Reordering	Linear
Bandwidth	751 Hz/Px
Echo Spacing	3.46 ms
Turbo Factor	314
Echo Train Duration	1083 ms

**Sequence - Part 2**

Introduction	On
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**Sequence - Assistant**

SAR Assistant	Off
Allowed Delay	30 s

\RESEARCH\ADNI4 XA60 Prisma 20260128\ADNI4\Human\Axial 3D ME T2 GRE (MSV21)

TA: 8:44 min Coil Selection: Auto Voxel Size: 0.5x0.5x1.8 mm<sup>3</sup> Acc:: 2 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	On
Load Images to Graphic Segments	On
Graphic segment	3rd Segment
Inline Movie	Off

**Routine**

Slab Group	1
Slabs	1
Distance Factor	20 %
Position	L0.0 A12.2 H0.4 mm
Orientation	Transversal
Phase Encoding Dir.	R >> L
Slices per Slab	88
Phase Oversampling	0 %
Slice Oversampling	9.1 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	1.80 mm
TR	37.0 ms
TE 1	6.71 ms
TE 2	10.62 ms
TE 3	14.53 ms
TE 4	18.44 ms
TE 5	22.35 ms
Averages	1
Concatenations	1
AutoAlign	---

**Contrast - Common**

TR	37.0 ms
TE 1	6.71 ms
TE 2	10.62 ms
TE 3	14.53 ms
TE 4	18.44 ms
TE 5	22.35 ms
MTC	Off
Magn. Preparation	None
Flip Angle	15 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	5

**Contrast - Common**

SWI	Off
Reconstruction	Magn./Phase

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

**Resolution - Common**

FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	1.80 mm
Base Resolution	384
Phase Resolution	70 %
Slice Resolution	100 %
Interpolation	Off

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	24
Acceleration Factor 3D	1
Deep Resolve	Off
Phase Partial Fourier	Off
Slice Partial Fourier	Off
Asymmetric Echo	Off
Elliptical Scanning	Off

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
POCS	Off
Distortion Correction	3D
Normalize	Prescan
Image Filter	Off

**Geometry - Common**

Slab Group	1
Slabs	1
Distance Factor	20 %
Position	L0.0 A12.2 H0.4 mm
Orientation	Transversal
Phase Encoding Dir.	R >> L
Slices per Slab	88
Phase Oversampling	0 %
Slice Oversampling	9.1 %
FOV Read	200 mm
FOV Phase	100.0 %
Slice Thickness	1.80 mm

**Geometry - Common**

TR	37.0 ms
Multi-Slice Mode	Sequential
Series	Ascending
Concatenations	1

**Geometry - AutoAlign**

Slab Group	1
Position	L0.0 A12.2 H0.4 mm
Orientation	Transversal
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	L0.0 A12.2 H0.4
R	0.0 mm
A	12.2 mm
H	0.4 mm
Initial Orientation	Transversal
Initial Rotation	90.00 deg

**Geometry - Saturation**

Saturation Mode	Standard
Special Saturation	Tracking F
Gap	11.00 mm
Thickness	40.00 mm

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	L >> R
Coronal	P >> A
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	L0.0 A12.2 H0.4 mm
Orientation	Transversal
Rotation	90.00 deg

**System - Adjust Volume**

R >> L	200 mm
A >> P	200 mm
F >> H	159 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
Excitation	Slab-sel.
LR Balancing	Off

**System - Tx/Rx**

Frequency 1H	123.253643 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	37.0 ms
Segments	1
Concatenations	1

**Physio - Cardiac**

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	200 mm
FOV Phase	100.0 %
Phase Resolution	70 %

**Physio - PACE**

Resp. Control	Off
Concatenations	1

**Inline - Liver**

Liver Registration	Off
Save Original Images	On

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Save Original Images	On

**Inline - MIP**

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

**Inline - Soft Tissue**

Wash-in	Off
Wash-out	Off
TTP	Off
PEI	Off
MIP Time	Off
Measurements	1

**Sequence - Assistant**

Allowed Delay	30 s
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**Inline - Composing**

Inline Composing	Off
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**Inline - MapIt**

MapIt	None
Flip Angle	15 deg
Measurements	1
Contrasts	5
TE 1	6.71 ms
TE 2	10.62 ms
TE 3	14.53 ms
TE 4	18.44 ms
TE 5	22.35 ms
TR	37.0 ms
Save Original Images	On

**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	fl_r
Dimension	3D
Excitation	Slab-sel.
RF Pulse Type	Fast
Readout Mode	Bipolar
Gradient Mode	Normal
Flow Compensation 1	On
Flow Compensation 2	None
Flow Compensation 3	None
Flow Compensation 4	None
Flow Compensation 5	None
Bandwidth 1	280 Hz/Px
Bandwidth 2	280 Hz/Px
Bandwidth 3	280 Hz/Px
Bandwidth 4	280 Hz/Px
Bandwidth 5	280 Hz/Px
Asymmetric Echo	Off
Segments	1

**Sequence - Part 2**

Introduction	On
RF Spoiling	On
Acoustic noise reduction	Off

**Sequence - Assistant**

SAR Assistant	Flip Angle
Min Flip Angle	90 deg

\RESEARCH\ADNI4 XA60 Prisma 20260128\ADNI4\Human\Axial 3D pCASL 1260 (Eyes Open) (MSV24)

TA: 1:08 min Coil Selection: Auto Voxel Size: 1.8x1.8x4.0 mm<sup>3</sup> Acc:: 3 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Routine**

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
Slices per Slab	42
Phase Oversampling	0 %
Slice Oversampling	25.0 %
FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	5110.0 ms
TE	13.60 ms
Averages	1
Concatenations	1
AutoAlign	Head > Brain

**Contrast - Common**

TR	5110.0 ms
TE	13.60 ms
Flip Angle	180 deg
Fat-Water Contrast	Fat Saturation
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Off
Delay in TR	0.00 ms
Reordering	Centric

**Contrast - ASL**

Perfusion Mode	PCASL
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**Contrast - ASL**

Suppression	Gray-White
Labeling Duration	1800 ms
Postlabeling Delay	1260 ms
Delay Array Size	1

**Resolution - Common**

FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
Base Resolution	66
Phase Resolution	95 %
Interpolation	On

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Reference Scans	GRE/Separate
Acceleration Factor PE	3
Reference Lines PE	24
Acceleration Factor 3D	1
Reference Lines 3D	24
Phase Partial Fourier	Off
Slice Partial Fourier	Off

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
Hamming	Off
Distortion Correction	3D
Normalize	Prescan

**Geometry - Common**

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
Slices per Slab	42
Phase Oversampling	0 %
Slice Oversampling	25.0 %
FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	5110.0 ms
Concatenations	1

**Geometry - AutoAlign**

Slab Group	1
Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal

**Geometry - AutoAlign**

Phase Encoding Dir.	P >> A
AutoAlign	Head > Brain
Initial Position	L0.7 P32.1 F7.4
L	0.7 mm
P	32.1 mm
F	7.4 mm
Initial Orientation	Transversal
Initial Rotation	-180.00 deg

**Geometry - Saturation**

Special Saturation	Parallel F
Gap	50.00 mm

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	ACS Restricted
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal
Rotation	180.00 deg
A >> P	240 mm
R >> L	240 mm
F >> H	168 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
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**System - Tx/Rx**

Frequency 1H	123.253643 MHz
? Ref. Amplitude 1H	0.000 V

**System - Tx/Rx**

Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	5110.0 ms
Segments	4
Concatenations	1

**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	tgse
Dimension	3D
RF Pulse Type	Normal
Gradient Mode	Performance
Reordering	Centric
Bandwidth	3444 Hz/Px
Echo Spacing	0.40 ms
Turbo Factor	13
Segments	4
EPI Factor	21

**Sequence - Part 2**

Introduction	Off
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**Sequence - Assistant**

SAR Assistant	Off
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\RESEARCH\ADNI4 XA60 Prisma 20260128\ADNI4\Human\Axial 3D pCASL 1500 (Eyes Open) (MSV24)

TA: 1:08 min Coil Selection: Auto Voxel Size: 1.8x1.8x4.0 mm<sup>3</sup> Acc:: 3 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Routine**

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
Slices per Slab	42
Phase Oversampling	0 %
Slice Oversampling	25.0 %
FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	5110.0 ms
TE	13.60 ms
Averages	1
Concatenations	1
AutoAlign	Head > Brain

**Contrast - Common**

TR	5110.0 ms
TE	13.60 ms
Flip Angle	180 deg
Fat-Water Contrast	Fat Saturation
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Off
Delay in TR	0.00 ms
Reordering	Centric

**Contrast - ASL**

Perfusion Mode	PCASL
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**Contrast - ASL**

Suppression	Gray-White
Labeling Duration	1800 ms
Postlabeling Delay	1500 ms
Delay Array Size	1

**Resolution - Common**

FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
Base Resolution	66
Phase Resolution	95 %
Interpolation	On

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Reference Scans	GRE/Separate
Acceleration Factor PE	3
Reference Lines PE	24
Acceleration Factor 3D	1
Reference Lines 3D	24
Phase Partial Fourier	Off
Slice Partial Fourier	Off

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
Hamming	Off
Distortion Correction	3D
Normalize	Prescan

**Geometry - Common**

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
Slices per Slab	42
Phase Oversampling	0 %
Slice Oversampling	25.0 %
FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	5110.0 ms
Concatenations	1

**Geometry - AutoAlign**

Slab Group	1
Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal

**Geometry - AutoAlign**

Phase Encoding Dir.	P >> A
AutoAlign	Head > Brain
Initial Position	L0.7 P32.1 F7.4
L	0.7 mm
P	32.1 mm
F	7.4 mm
Initial Orientation	Transversal
Initial Rotation	-180.00 deg

**Geometry - Saturation**

Special Saturation	Parallel F
Gap	50.00 mm

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	ACS Restricted
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal
Rotation	180.00 deg
A >> P	240 mm
R >> L	240 mm
F >> H	168 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
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**System - Tx/Rx**

Frequency 1H	123.253643 MHz
? Ref. Amplitude 1H	0.000 V

**System - Tx/Rx**

Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	5110.0 ms
Segments	4
Concatenations	1

**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	tgse
Dimension	3D
RF Pulse Type	Normal
Gradient Mode	Performance
Reordering	Centric
Bandwidth	3444 Hz/Px
Echo Spacing	0.40 ms
Turbo Factor	13
Segments	4
EPI Factor	21

**Sequence - Part 2**

Introduction	Off
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**Sequence - Assistant**

SAR Assistant	Off
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\RESEARCH\ADNI4 XA60 Prisma 20260128\ADNI4\Human\Axial 3D pCASL 2000 (Eyes Open) (MSV24)

TA: 1:08 min Coil Selection: Auto Voxel Size: 1.8x1.8x4.0 mm<sup>3</sup> Acc:: 3 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Routine**

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
Slices per Slab	42
Phase Oversampling	0 %
Slice Oversampling	25.0 %
FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	5110.0 ms
TE	13.60 ms
Averages	1
Concatenations	1
AutoAlign	Head > Brain

**Contrast - Common**

TR	5110.0 ms
TE	13.60 ms
Flip Angle	180 deg
Fat-Water Contrast	Fat Saturation
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Off
Delay in TR	0.00 ms
Reordering	Centric

**Contrast - ASL**

Perfusion Mode	PCASL
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**Contrast - ASL**

Suppression	Gray-White
Labeling Duration	1800 ms
Postlabeling Delay	2000 ms
Delay Array Size	1

**Resolution - Common**

FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
Base Resolution	66
Phase Resolution	95 %
Interpolation	On

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Reference Scans	GRE/Separate
Acceleration Factor PE	3
Reference Lines PE	24
Acceleration Factor 3D	1
Reference Lines 3D	24
Phase Partial Fourier	Off
Slice Partial Fourier	Off

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
Hamming	Off
Distortion Correction	3D
Normalize	Prescan

**Geometry - Common**

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
Slices per Slab	42
Phase Oversampling	0 %
Slice Oversampling	25.0 %
FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	5110.0 ms
Concatenations	1

**Geometry - AutoAlign**

Slab Group	1
Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal

**Geometry - AutoAlign**

Phase Encoding Dir.	P >> A
AutoAlign	Head > Brain
Initial Position	L0.7 P32.1 F7.4
L	0.7 mm
P	32.1 mm
F	7.4 mm
Initial Orientation	Transversal
Initial Rotation	-180.00 deg

**Geometry - Saturation**

Special Saturation	Parallel F
Gap	50.00 mm

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	ACS Restricted
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal
Rotation	180.00 deg
A >> P	240 mm
R >> L	240 mm
F >> H	168 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
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**System - Tx/Rx**

Frequency 1H	123.253643 MHz
? Ref. Amplitude 1H	0.000 V

**System - Tx/Rx**

Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	5110.0 ms
Segments	4
Concatenations	1

**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	tgse
Dimension	3D
RF Pulse Type	Normal
Gradient Mode	Performance
Reordering	Centric
Bandwidth	3444 Hz/Px
Echo Spacing	0.40 ms
Turbo Factor	13
Segments	4
EPI Factor	21

**Sequence - Part 2**

Introduction	Off
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**Sequence - Assistant**

SAR Assistant	Off
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\RESEARCH\ADNI4 XA60 Prisma 20260128\ADNI4\Human\Axial 3D pCASL 2500 (Eyes Open) (MSV24)

TA: 1:08 min Coil Selection: Auto Voxel Size: 1.8x1.8x4.0 mm<sup>3</sup> Acc:: 3 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Routine**

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
Slices per Slab	42
Phase Oversampling	0 %
Slice Oversampling	25.0 %
FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	5110.0 ms
TE	13.60 ms
Averages	1
Concatenations	1
AutoAlign	Head > Brain

**Contrast - Common**

TR	5110.0 ms
TE	13.60 ms
Flip Angle	180 deg
Fat-Water Contrast	Fat Saturation
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Off
Delay in TR	0.00 ms
Reordering	Centric

**Contrast - ASL**

Perfusion Mode	PCASL
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**Contrast - ASL**

Suppression	Gray-White
Labeling Duration	1800 ms
Postlabeling Delay	2500 ms
Delay Array Size	1

**Resolution - Common**

FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
Base Resolution	66
Phase Resolution	95 %
Interpolation	On

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Reference Scans	GRE/Separate
Acceleration Factor PE	3
Reference Lines PE	24
Acceleration Factor 3D	1
Reference Lines 3D	24
Phase Partial Fourier	Off
Slice Partial Fourier	Off

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
Hamming	Off
Distortion Correction	3D
Normalize	Prescan

**Geometry - Common**

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
Slices per Slab	42
Phase Oversampling	0 %
Slice Oversampling	25.0 %
FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	5110.0 ms
Concatenations	1

**Geometry - AutoAlign**

Slab Group	1
Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal

**Geometry - AutoAlign**

Phase Encoding Dir.	P >> A
AutoAlign	Head > Brain
Initial Position	L0.7 P32.1 F7.4
L	0.7 mm
P	32.1 mm
F	7.4 mm
Initial Orientation	Transversal
Initial Rotation	-180.00 deg

**Geometry - Saturation**

Special Saturation	Parallel F
Gap	50.00 mm

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	ACS Restricted
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal
Rotation	180.00 deg
A >> P	240 mm
R >> L	240 mm
F >> H	168 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
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**System - Tx/Rx**

Frequency 1H	123.253643 MHz
? Ref. Amplitude 1H	0.000 V

**System - Tx/Rx**

Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	5110.0 ms
Segments	4
Concatenations	1

**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	tgse
Dimension	3D
RF Pulse Type	Normal
Gradient Mode	Performance
Reordering	Centric
Bandwidth	3444 Hz/Px
Echo Spacing	0.40 ms
Turbo Factor	13
Segments	4
EPI Factor	21

**Sequence - Part 2**

Introduction	Off
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**Sequence - Assistant**

SAR Assistant	Off
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\RESEARCH\ADNI4 XA60 Prisma 20260128\ADNI4\Human\Axial 3D pCASL 3000 (Eyes Open) (MSV24)

TA: 1:08 min Coil Selection: Auto Voxel Size: 1.8x1.8x4.0 mm<sup>3</sup> Acc:: 3 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

**Routine**

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
Slices per Slab	42
Phase Oversampling	0 %
Slice Oversampling	25.0 %
FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	5110.0 ms
TE	13.60 ms
Averages	1
Concatenations	1
AutoAlign	Head > Brain

**Contrast - Common**

TR	5110.0 ms
TE	13.60 ms
Flip Angle	180 deg
Fat-Water Contrast	Fat Saturation
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Measurements	1
Multiple Series	Off
Delay in TR	0.00 ms
Reordering	Centric

**Contrast - ASL**

Perfusion Mode	PCASL
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**Contrast - ASL**

Suppression	Gray-White
Labeling Duration	1800 ms
Postlabeling Delay	3000 ms
Delay Array Size	1

**Resolution - Common**

FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
Base Resolution	66
Phase Resolution	95 %
Interpolation	On

**Resolution - Acceleration**

Acceleration Mode	GRAPPA
Reference Scans	GRE/Separate
Acceleration Factor PE	3
Reference Lines PE	24
Acceleration Factor 3D	1
Reference Lines 3D	24
Phase Partial Fourier	Off
Slice Partial Fourier	Off

**Resolution - Filter**

Raw Filter	Off
Elliptical Filter	Off
Hamming	Off
Distortion Correction	3D
Normalize	Prescan

**Geometry - Common**

Slab Group	1
Slabs	1
Distance Factor	50 %
Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
Slices per Slab	42
Phase Oversampling	0 %
Slice Oversampling	25.0 %
FOV Read	240 mm
FOV Phase	100.0 %
Slice Thickness	4.0 mm
TR	5110.0 ms
Concatenations	1

**Geometry - AutoAlign**

Slab Group	1
Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal

**Geometry - AutoAlign**

Phase Encoding Dir.	P >> A
AutoAlign	Head > Brain
Initial Position	L0.7 P32.1 F7.4
L	0.7 mm
P	32.1 mm
F	7.4 mm
Initial Orientation	Transversal
Initial Rotation	-180.00 deg

**Geometry - Saturation**

Special Saturation	Parallel F
Gap	50.00 mm

**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	ACS Restricted
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	L0.7 P32.1 F7.4 mm
Orientation	Transversal
Rotation	180.00 deg
A >> P	240 mm
R >> L	240 mm
F >> H	168 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
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**System - Tx/Rx**

Frequency 1H	123.253643 MHz
? Ref. Amplitude 1H	0.000 V

**System - Tx/Rx**

Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	5110.0 ms
Segments	4
Concatenations	1

**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	tgse
Dimension	3D
RF Pulse Type	Normal
Gradient Mode	Performance
Reordering	Centric
Bandwidth	3444 Hz/Px
Echo Spacing	0.40 ms
Turbo Factor	13
Segments	4
EPI Factor	21

**Sequence - Part 2**

Introduction	Off
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**Sequence - Assistant**

SAR Assistant	Off
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\\RESEARCH\ADNI4 XA60 Prisma 20260128\ADNI4\Human\Axial MB DTI PA (MSV21)

TA: 7:25 min Coil Selection: Auto Voxel Size: 2.0x2.0x2.0 mm<sup>3</sup> Acc:: 3 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	On
Load Images to Graphic Segments	On
Graphic segment	Default
Inline Movie	Off

**Routine**

Slice Group	1
Slices	81
Distance Factor	0 %
Position	L1.4 P3.4 H50.8 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
Phase Oversampling	0 %
FOV Read	232 mm
FOV Phase	100.0 %
Slice Thickness	2.0 mm
TR	3400.0 ms
TE	71.00 ms
Concatenations	1
AutoAlign	---

**Contrast - Common**

TR	3400.0 ms
TE	71.00 ms
MTC	Off
Magn. Preparation	None
Fat-Water Contrast	Fat Saturation
Fat Saturation	Strong
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Multiple Series	Off
Delay in TR	0.00 ms

**Resolution - Common**

FOV Read	232 mm
FOV Phase	100.0 %
Slice Thickness	2.0 mm
Base Resolution	116

**Resolution - Common**

Phase Resolution	100 %
Interpolation	Off

**Resolution - Acceleration**

Acceleration Mode	SMS
Reference Scans	EPI/Separate
Acceleration Factor PE	1
SMS Factor	3
Deep Resolve	Off
Phase Partial Fourier	6/8

**Resolution - Filter**

Raw Filter	On
Elliptical Filter	Off
Distortion Correction	Off
Static Field Correction	Off
Normalize	Prescan
Noise Masking	Off

**Geometry - Common**

Slice Group	1
Slices	81
Distance Factor	0 %
Position	L1.4 P3.4 H50.8 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
Phase Oversampling	0 %
FOV Read	232 mm
FOV Phase	100.0 %
Slice Thickness	2.0 mm
TR	3400.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

**Geometry - AutoAlign**

Slice Group	1
Position	L1.4 P3.4 H50.8 mm
Orientation	Transversal
Phase Encoding Dir.	P >> A
AutoAlign	---
Initial Position	L1.4 P3.4 H50.8
L	1.4 mm
P	3.4 mm
H	50.8 mm
Initial Orientation	Transversal
Initial Rotation	-180.00 deg

**Geometry - Navigator**

**Geometry - Saturation**

Special Saturation	None
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**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	51 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Performance
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	L1.4 P3.4 H50.8 mm
Orientation	Transversal
Rotation	180.00 deg
A >> P	232 mm
R >> L	232 mm
F >> H	162 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
Excitation	Standard

**System - Tx/Rx**

Frequency 1H	123.253643 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	3.000

**Physio - Signal**

1st Signal/Mode	None
TR	3400.0 ms
Concatenations	1

**Physio - PACE**

Resp. Control	Off
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**Physio - PACE**

Concatenations	1
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**Diff**

Diffusion Mode	Free
Diff. Directions	126
Diffusion Scheme	Monopolar
Diff. Weightings	2
b-value 1	0 s/mm <sup>2</sup>
b-value 2	2000 s/mm <sup>2</sup>
Averages 1	1
Averages 2	1
Dynamic Field Correction	Off
Invert Gray Scale	Off
Diff. Weighted Images	On
Trace Weighted Images	On
Tensor	Off
FA Maps	Off
ADC Maps	On
Exponential ADC Maps	Off
ADC Noise Threshold	10
Noise Masking	Off
Calculated Image	Off

**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	epse
Excitation	Standard
RF Pulse Type	Low SAR
Gradient Mode	Performance
Bandwidth	2268 Hz/Px
Echo Spacing	0.55 ms
Free Echo Spacing	On
Optimization	None
EPI Factor	116

**Sequence - Part 2**

Introduction	Off
Phase Correction	Internal

**Sequence - Assistant**

SAR Assistant	Off
Optimization	None

\\RESEARCH\ADNI4 XA60 Prisma 20260128\ADNI4\Human\Axial MB DTI AP (MSV21)

TA: 37 sec Coil Selection: Auto Voxel Size: 2.0x2.0x2.0 mm<sup>3</sup> Acc:: 3 Rel. SNR: 1.00**Properties**

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	On
Load Images to Graphic Segments	On
Graphic segment	Default
Inline Movie	Off

**Routine**

Slice Group	1
Slices	81
Distance Factor	0 %
Position	L1.4 P3.4 H50.8 mm
Orientation	Transversal
Phase Encoding Dir.	A >> P
Phase Oversampling	0 %
FOV Read	232 mm
FOV Phase	100.0 %
Slice Thickness	2.0 mm
TR	3400.0 ms
TE	71.00 ms
Concatenations	1
AutoAlign	---

**Contrast - Common**

TR	3400.0 ms
TE	71.00 ms
MTC	Off
Magn. Preparation	None
Fat-Water Contrast	Fat Saturation
Fat Saturation	Strong
Reconstruction	Magnitude

**Contrast - Dynamic**

Dynamic Mode	Standard
Multiple Series	Off
Delay in TR	0.00 ms

**Resolution - Common**

FOV Read	232 mm
FOV Phase	100.0 %
Slice Thickness	2.0 mm
Base Resolution	116

**Resolution - Common**

Phase Resolution	100 %
Interpolation	Off

**Resolution - Acceleration**

Acceleration Mode	SMS
Reference Scans	EPI/Separate
Acceleration Factor PE	1
SMS Factor	3
Deep Resolve	Off
Phase Partial Fourier	6/8

**Resolution - Filter**

Raw Filter	On
Elliptical Filter	Off
Distortion Correction	Off
Static Field Correction	Off
Normalize	Prescan
Noise Masking	Off

**Geometry - Common**

Slice Group	1
Slices	81
Distance Factor	0 %
Position	L1.4 P3.4 H50.8 mm
Orientation	Transversal
Phase Encoding Dir.	A >> P
Phase Oversampling	0 %
FOV Read	232 mm
FOV Phase	100.0 %
Slice Thickness	2.0 mm
TR	3400.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

**Geometry - AutoAlign**

Slice Group	1
Position	L1.4 P3.4 H50.8 mm
Orientation	Transversal
Phase Encoding Dir.	A >> P
AutoAlign	---
Initial Position	L1.4 P3.4 H50.8
L	1.4 mm
P	3.4 mm
H	50.8 mm
Initial Orientation	Transversal
Initial Rotation	-180.00 deg

**Geometry - Navigator**

**Geometry - Saturation**

Special Saturation	None
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**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	51 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Performance
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	L1.4 P3.4 H50.8 mm
Orientation	Transversal
Rotation	0.00 deg
A >> P	232 mm
R >> L	232 mm
F >> H	162 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
Excitation	Standard

**System - Tx/Rx**

Frequency 1H	123.253643 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	3.000

**Physio - Signal**

1st Signal/Mode	None
TR	3400.0 ms
Concatenations	1

**Physio - PACE**

Resp. Control	Off
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**Physio - PACE**

Concatenations	1
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**Diff**

Diffusion Mode	Free
Diff. Directions	6
Diffusion Scheme	Monopolar
Diff. Weightings	2
b-value 1	0 s/mm <sup>2</sup>
b-value 2	2000 s/mm <sup>2</sup>
Averages 1	1
Averages 2	1
Dynamic Field Correction	Off
Invert Gray Scale	Off
Diff. Weighted Images	On
Trace Weighted Images	On
Tensor	Off
FA Maps	Off
ADC Maps	On
Exponential ADC Maps	Off
ADC Noise Threshold	10
Noise Masking	Off
Calculated Image	Off

**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	epse
Excitation	Standard
RF Pulse Type	Low SAR
Gradient Mode	Performance
Bandwidth	2268 Hz/Px
Echo Spacing	0.55 ms
Free Echo Spacing	On
Optimization	None
EPI Factor	116

**Sequence - Part 2**

Introduction	Off
Phase Correction	Internal

**Sequence - Assistant**

SAR Assistant	Off
Optimization	None

\\RESEARCH\ADNI4 XA60 Prisma 20260128\ADNI4\Human\Axial MB rsfMRI (Eyes Open) (MSV21)

TA: 5:00 min Coil Selection: Auto Voxel Size: 2.5×2.5×2.5 mm<sup>3</sup> Acc:: 8 Rel. SNR: 1.00

### Properties

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

### Routine

Slice Group	1
Slices	64
Distance Factor	0 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	P >> A
Phase Oversampling	0 %
FOV Read	220 mm
FOV Phase	100.0 %
Slice Thickness	2.5 mm
TR	607.0 ms
TE	32.00 ms
Averages	1
Concatenations	1
AutoAlign	---

### Contrast - Common

TR	607.0 ms
TE	32.00 ms
MTC	Off
Flip Angle	50 deg
Fat-Water Contrast	Fat Saturation
Reconstruction	Magnitude

### Contrast - Dynamic

Dynamic Mode	Standard
Measurements	482
Delay in TR	0.00 ms

### Resolution - Common

FOV Read	220 mm
FOV Phase	100.0 %
Slice Thickness	2.5 mm
Base Resolution	88

### Resolution - Common

Phase Resolution	100 %
Interpolation	Off

### Resolution - Acceleration

Acceleration Mode	SMS
Reference Scans	EPI/Separate
Acceleration Factor PE	1
SMS Factor	8
Phase Partial Fourier	Off

### Resolution - Filter

Raw Filter	Off
Elliptical Filter	Off
Hamming	Off
Distortion Correction	Off
Static Field Correction	Off
Normalize	Off

### Geometry - Common

Slice Group	1
Slices	64
Distance Factor	0 %
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	P >> A
Phase Oversampling	0 %
FOV Read	220 mm
FOV Phase	100.0 %
Slice Thickness	2.5 mm
TR	607.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

### Geometry - AutoAlign

Slice Group	1
Position	Isocenter
Orientation	Transversal
Phase Encoding Dir.	P >> A
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	Transversal
Initial Rotation	-180.00 deg

### Geometry - Saturation

Special Saturation	None
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**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	L >> R
Coronal	P >> A
Transversal	F >> H
Coil Combination	Sum of Squares
Matrix Optimization	Performance
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	Isocenter
Orientation	Transversal
Rotation	180.00 deg
A >> P	220 mm
R >> L	220 mm
F >> H	160 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
Excitation	Standard

**System - Tx/Rx**

Frequency 1H	123.253643 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	607.0 ms
Log Signals	Off
Concatenations	1

**BOLD**

GLM Statistics	Off
Ignore Meas. at Start	0
Ignore After Transition	0

**BOLD**

Model Transition States	On
Temp. Highpass Filter	On
Threshold	4.00
Paradigm Size	20
Meas[1]	Baseline
Meas[2]	Baseline
Meas[3]	Baseline
Meas[4]	Baseline
Meas[5]	Baseline
Meas[6]	Baseline
Meas[7]	Baseline
Meas[8]	Baseline
Meas[9]	Baseline
Meas[10]	Baseline
Meas[11]	Baseline
Meas[12]	Baseline
Meas[13]	Active
Meas[14]	Active
Meas[15]	Active
Meas[16]	Active
Meas[17]	Active
Meas[18]	Active
Meas[19]	Active
Meas[20]	Active
Motion Correction	Off
Spatial Filter	Off
Measurements	482
Delay in TR	0.00 ms

**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	epfid
Excitation	Standard
RF Pulse Type	Normal
Gradient Mode	Performance
Bandwidth	2368 Hz/Px
Echo Spacing	0.57 ms
Free Echo Spacing	Off
EPI Factor	88

**Sequence - Part 2**

Introduction	Off
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**Sequence - Assistant**

SAR Assistant	Off
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\\RESEARCH\ADNI4 XA60 Prisma 20260128\ADNI4\Human\HighResHippocampus (MSV21)

TA: 4:18 min Coil Selection: Auto Voxel Size: 0.4x0.4x2.0 mm<sup>3</sup> Acc:: 2 Rel. SNR: 1.00

### Properties

Start measurement without further preparation	On
Wait for User to Start	Off
Start measurements	Single Measurement
Prio Recon	Off
Auto Open Inline Display	Off
Auto Close Inline Display	Off
Load Images to MR View&GO	On
Auto Store Images	On
Disable auto transfer to PACS	Off
Load Images to Stamp Segments	Off
Load Images to Graphic Segments	Off
Graphic segment	Default
Inline Movie	Off

### Routine

Slice Group	1
Slices	30
Distance Factor	0 %
Position	Isocenter
Orientation	C > T-25.0
Phase Encoding Dir.	R >> L
Phase Oversampling	100 %
FOV Read	175 mm
FOV Phase	100.0 %
Slice Thickness	2.0 mm
TR	8020.0 ms
TE	50.00 ms
Averages	1
Concatenations	1
AutoAlign	---

### Contrast - Common

TR	8020.0 ms
TE	50.00 ms
MTC	Off
Magn. Preparation	None
Flip Angle Mode	Constant
Flip Angle	122 deg
Fat-Water Contrast	Standard
Dark Blood	Off
Contrasts	1
Wrap-up Magn.	None
Reconstruction	Magnitude

### Contrast - Dynamic

Dynamic Mode	Standard
Measurements	1
Multiple Series	Each Measurement

### Resolution - Common

FOV Read	175 mm
FOV Phase	100.0 %
Slice Thickness	2.0 mm
Base Resolution	448
Phase Resolution	100 %
Interpolation	Off

### Resolution - Acceleration

Acceleration Mode	GRAPPA
Reference Scans	Integrated
Acceleration Factor PE	2
Reference Lines PE	34
Deep Resolve	Off
Phase Partial Fourier	Off

### Resolution - Filter

Raw Filter	Off
Elliptical Filter	On
Distortion Correction	3D
Normalize	Prescan
Image Filter	Off

### Geometry - Common

Slice Group	1
Slices	30
Distance Factor	0 %
Position	Isocenter
Orientation	C > T-25.0
Phase Encoding Dir.	R >> L
Phase Oversampling	100 %
FOV Read	175 mm
FOV Phase	100.0 %
Slice Thickness	2.0 mm
TR	8020.0 ms
Multi-Slice Mode	Interleaved
Series	Interleaved
Concatenations	1

### Geometry - AutoAlign

Slice Group	1
Position	Isocenter
Orientation	C > T-25.0
Phase Encoding Dir.	R >> L
AutoAlign	---
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Orientation	C > T
C > T	-25.00

**Geometry - AutoAlign**

> S	0.00
Initial Rotation	0.00 deg

**Geometry - Navigator**

**Geometry - Saturation**

Special Saturation	None
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**Geometry - Tim Planning Suite**

Set-n-Go Protocol	Off
Table Position	0 mm
Table Position	H
Inline Composing	Off

**System - Miscellaneous**

Coil Selection	Auto Coil Select
Radial Sorting	Off
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	F >> H
Coil Combination	Adaptive Combine
Matrix Optimization	Off
Coil Focus	Flat

**System - Adjustments**

Adjustment Strategy	Standard
B0 Shim	Standard
B1 Shim	TrueForm
Adjustment Tolerance	Auto
Adjust with Body Coil	Off
Confirm Frequency	Never
Assume Silicone	Off

**System - Adjust Volume**

Position	Isocenter
Orientation	C > T-25.0
Rotation	0.00 deg
R >> L	175 mm
F >> H	175 mm
A >> P	60 mm
Reset	Off

**System - pTx**

B1 Shim	TrueForm
LR Balancing	Off

**System - Tx/Rx**

Frequency 1H	123.253643 MHz
? Ref. Amplitude 1H	0.000 V
Reset	Off
Image Scaling	1.000

**Physio - Signal**

1st Signal/Mode	None
TR	8020.0 ms
Concatenations	1

**Physio - Cardiac**

Fat-Water Contrast	Standard
Magn. Preparation	None
Dark Blood	Off
FOV Read	175 mm
FOV Phase	100.0 %
Phase Resolution	100 %
Motion Correction	None

**Physio - PACE**

Resp. Control	Off
Concatenations	1

**Inline - Subtraction**

Subtract	Off
Measurements	1
StdDev	Off
Motion Correction	None
Save Original Images	On

**Inline - MIP**

MIP Sag	Off
MIP Cor	Off
MIP Tra	Off
MIP Time	Off
Radial MIP	Off
Save Original Images	On
MPR Sag	Off
MPR Cor	Off
MPR Tra	Off

**Inline - Composing**

Inline Composing	Off
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**Inline - Open Recon**

Algorithm	None
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**Sequence - Part 1**

Sequence Name	tse
Dimension	2D
RF Pulse Type	Fast
Gradient Mode	Normal
Flow Compensation	None
Bandwidth	100 Hz/Px
Echo Spacing	16.5 ms
Free Echo Spacing	Off
Define	Turbo Factor
Turbo Factor	15
Echo Trains per Slice	31

**Sequence - Part 2**

Introduction	On
Phase Correction	Automatic
Compensate T2 Decay	Off
Fast Mode	Off
WARP	Off
Red. EC Sensitivity	Off
Acoustic noise reduction	Off
Reduce Motion Sens.	Off
Motion Correction	None

**Sequence - Assistant**

SAR Assistant	Flip Angle
Min Flip Angle	130 deg
Allowed Delay	180 s