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\USER

knee

3D

CAIPI\_SPACE\_Knee

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\\USER\knee\3D\CAIPI\_SPACE\_Kneet2\_space\_fs\_sag\_p4\_iso

TA: 4:46 PM: REF Voxel size: 0.6×0.6×0.6 mmPAT: 4 Rel. SNR: 1.00 : spcR

**Properties**

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

**Routine**

Slab group	1
Slabs	1
Position	L118.2 A78.8 F9.1 mm
Orientation	S > T-8.5 > C-1.8
Phase enc. dir.	A >> P
AutoAlign	Knee > Standard
Phase oversampling	0 %
Slice oversampling	25.0 %
Slices per slab	192
FoV read	160 mm
FoV phase	100.0 %
Slice thickness	0.63 mm
TR	1000 ms
TE	106 ms
Averages	1.0
Concatenations	1
Filter	Raw filter, Prescan Normalize, Image Filter
Coil elements	E18

**Contrast - Common**

TR	1000 ms
TE	106 ms
MTC	Off
Magn. preparation	None
Fat suppr.	SPAIR
Fat sat. mode	Strong
Blood suppr.	Off
Restore magn.	On

**Contrast - Dynamic**

Averages	1.0
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

**Resolution - Common**

FoV read	160 mm
FoV phase	100.0 %
Slice thickness	0.63 mm
Base resolution	256
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Allowed
Slice partial Fourier	Off
Interpolation	Off

**Resolution - iPAT**

PAT mode	CAIPIRINHA
Accel. factor PE	2
Ref. lines PE	24
Accel. factor 3D	2
Ref. lines 3D	24
Reordering Shift 3D	1
Reference scan mode	Integrated
CAIPIRINHA mode	Free

**Resolution - Filter Image**

Image Filter	On
Intensity	Sharp
Edge Enhancement	3
Smoothering	3
Unfiltered images	Off
Distortion Corr.	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

**Resolution - Filter Rawdata**

Raw filter	On
Elliptical filter	Off

**Geometry - Common**

Slab group	1
Slabs	1
Position	L118.2 A78.8 F9.1 mm
Orientation	S > T-8.5 > C-1.8
Phase enc. dir.	A >> P
Slice oversampling	25.0 %
Slices per slab	192
FoV read	160 mm
FoV phase	100.0 %
Slice thickness	0.63 mm
TR	1000 ms
Series	Interleaved
Concatenations	1

**Geometry - AutoAlign**

Slab group	1
AutoAlign	Knee > Standard
Position	L118.2 A78.8 F9.1 mm
Orientation	S > T-8.5 > C-1.8
Phase enc. dir.	A >> P
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Rotation	0.07 deg
Initial Orientation	Sagittal

**Geometry - Saturation**

Fat suppr.	SPAIR
Fat sat. mode	Strong
Restore magn.	On
Special sat.	None

**Geometry - Navigator**

**Geometry - Tim Planning Suite**

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

**System - Miscellaneous**

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	Knee > Standard
Coil Select Mode	Off - AutoCoilSelect

**System - Adjustments**

B0 Shim mode	Standard
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

**System - Adjust Volume**

Position	L118.2 A78.8 F9.1 mm
Orientation	S > T-8.5 > C-1.8
Rotation	-3.98 deg
A >> P	160 mm
F >> H	160 mm
R >> L	121 mm
Reset	Off

**System - Tx/Rx**

Frequency 1H	123.200000 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - Signal1**

1st Signal/Mode	None
Trigger delay	0 ms
TR	1000 ms
Concatenations	1

**Physio - Cardiac**

Magn. preparation	None
Fat suppr.	SPAIR
Dark blood	Off
FoV read	160 mm
FoV phase	100.0 %
Phase resolution	100 %

**Physio - PACE**

Resp. control	Off
Concatenations	1

**Inline - Common**

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

**Inline - MIP**

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

**Inline - Composing**

Inline Composing	Off
Distortion Corr.	Off

**Sequence - Part 1**

Introduction	On
Dimension	3D
Elliptical scanning	On
Reordering	Linear
Flow comp.	No
Echo spacing	5.56 ms
Adiabatic-mode	Off
Bandwidth	416 Hz/Px

**Sequence - Part 2**

Echo train duration	234 ms
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
Flip angle mode	T2 var
Turbo factor	44

**Sequence - Assistant**

Allowed delay	30 s
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\\USER\knee\3D\CAIPI\_SPACE\_Knee\pd\_space\_sag\_p4\_iso

TA: 4:41 PM: REF Voxel size: 0.5×0.5×0.5 mmPAT: 4 Rel. SNR: 1.00 : spcR

**Properties**

Prio recon	Off
Load images to viewer	On
Inline movie	Off
Auto store images	On
Load images to stamp segments	Off
Load images to graphic segments	Off
Auto open inline display	Off
Auto close inline display	Off
Start measurement without further preparation	Off
Wait for user to start	Off
Start measurements	Single measurement

**Routine**

Slab group	1
Slabs	1
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
AutoAlign	Knee > Standard
Phase oversampling	0 %
Slice oversampling	20.0 %
Slices per slab	240
FoV read	160 mm
FoV phase	100.0 %
Slice thickness	0.50 mm
TR	900 ms
TE	26.0 ms
Averages	1.0
Concatenations	1
Filter	Distortion Corr.(2D), Prescan Normalize, Image Filter
Coil elements	E18

**Contrast - Common**

TR	900 ms
TE	26.0 ms
MTC	Off
Magn. preparation	None
Flip angle	120 deg
Fat suppr.	None
Blood suppr.	Off
Restore magn.	On

**Contrast - Dynamic**

Averages	1.0
Reconstruction	Magnitude
Measurements	1
Multiple series	Each measurement

**Resolution - Common**

FoV read	160 mm
FoV phase	100.0 %
Slice thickness	0.50 mm
Base resolution	320
Phase resolution	100 %
Slice resolution	100 %
Phase partial Fourier	Off
Slice partial Fourier	Off
Interpolation	Off

**Resolution - iPAT**

PAT mode	CAIPIRINHA
Accel. factor PE	2
Ref. lines PE	24
Accel. factor 3D	2
Ref. lines 3D	24
Reordering Shift 3D	1
Reference scan mode	Integrated
CAIPIRINHA mode	Free

**Resolution - Filter Image**

Image Filter	On
! Intensity	Sharp
Edge Enhancement	1
Smoothing	1
Unfiltered images	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off
Prescan Normalize	On
Unfiltered images	Off
Normalize	Off
B1 filter	Off

**Resolution - Filter Rawdata**

Raw filter	Off
Elliptical filter	Off

**Geometry - Common**

Slab group	1
Slabs	1
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Slice oversampling	20.0 %
Slices per slab	240
FoV read	160 mm
FoV phase	100.0 %
Slice thickness	0.50 mm
TR	900 ms
Series	Ascending
Concatenations	1

**Geometry - AutoAlign**

Slab group	1
AutoAlign	Knee > Standard
Position	Isocenter
Orientation	Sagittal
Phase enc. dir.	A >> P
Initial Position	Isocenter
L	0.0 mm
P	0.0 mm
H	0.0 mm
Initial Rotation	0.01 deg
Initial Orientation	Sagittal

**Geometry - Saturation**

Fat suppr.	None
Restore magn.	On
Special sat.	None

**Geometry - Navigator****Geometry - Tim Planning Suite**

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

**System - Miscellaneous**

Positioning mode	REF
Table position	H
Table position	0 mm
MSMA	S - C - T
Sagittal	R >> L
Coronal	A >> P
Transversal	H >> F
Coil Combine Mode	Adaptive Combine
Save uncombined	Off
Matrix Optimization	Off
AutoAlign	Knee > Standard
Coil Select Mode	Off - AutoCoilSelect

**System - Adjustments**

B0 Shim mode	Tune up
B1 Shim mode	TrueForm
Adjust with body coil	Off
Confirm freq. adjustment	Off
Assume Dominant Fat	Off
Assume Silicone	Off
Adjustment Tolerance	Auto

**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 - Tx/Rx**

Frequency 1H	123.200000 MHz
Correction factor	1
Gain	High
Img. Scale Cor.	1.000
Reset	Off
? Ref. amplitude 1H	0.000 V

**Physio - Signal1**

1st Signal/Mode	None
Trigger delay	0 ms
TR	900 ms
Concatenations	1

**Physio - Cardiac**

Magn. preparation	None
Fat suppr.	None
Dark blood	Off
FoV read	160 mm
FoV phase	100.0 %
Phase resolution	100 %

**Physio - PACE**

Resp. control	Off
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**Physio - PACE**

Concatenations	1
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**Inline - Common**

Subtract	Off
Measurements	1
StdDev	Off
Save original images	On

**Inline - MIP**

MIP-Sag	Off
MIP-Cor	Off
MIP-Tra	Off
MIP-Time	Off
Save original images	On

**Inline - Composing**

Inline Composing	Off
Distortion Corr.	On
Mode	2D
Unfiltered images	Off

**Sequence - Part 1**

Introduction	Off
Dimension	3D
Elliptical scanning	On
Reordering	Radial
Flow comp.	No
Echo spacing	6.54 ms
Adiabatic-mode	Off
Bandwidth	355 Hz/Px

**Sequence - Part 2**

Echo train duration	419 ms
RF pulse type	Fast
Gradient mode	Fast
Excitation	Non-sel.
Flip angle mode	Constant
Turbo factor	60

**Sequence - Assistant**

Allowed delay	30 s
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